



S
SATIS
TOOL

ابزار برش دقیق

OUTILS DE PRECISION

PRÄZISIONSWERKZEUGE

PRECISION CUTTING TOOLS

شرکت ساتیس تول در کشور سوئیس با تکیه بر تجارب ۲۵ ساله و دانش فنی متخصصان در زمینه تولید انواع مته های سی.ان.سی اقدام به فعالیت و همکاری با کارخانه های مختلف صنعتی، ساعت سازی و ... نموده است.

این شرکت مخترع است که با بکارگیری تکنولوژی و علوم روز دنیا اقدام به تولید انواع مته های سی.ان.سی با کیفیت بالا و مطابق با استانداردهای بین المللی نماید. در حال حاضر ساتیس تول با بهره گیری از نیروهای متخصص آموزش دیده و با الهام از دانش فنی بالا و سال ها تجربه در تولید مته، علاوه بر تامین کلیه مته های تجاری موجود به تولید نمونه های خاص با طرح و نقشه مورد نظر مشتریان نیز پرداخته است.

ساتیس تول می کوشد برای مشتریان آگاهی، دانش، سودآوری و ارزش آفرینی را به ارمغان آورد و با توجه به تعهدی که در برابر مشتریان و سایر ذینفعان دارد، می کوشد بهترین خدمات را ارائه دهد.

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Micro fraises & Fraises à graver
میکروفِرزها و فرزهای مخصوص حکاکی (ظریف کاری) >>>

Fraises d'ébauche
فرزهای خشن کاری >>>

Fraises de finition
فرزهای پرداخت کاری >>>

Fraises de forme
فرزهای فرم دهی >>>

Fraises circulaires
فرزهای دایره ای (دیسکی) >>>

Fraises circulaires
فرزهای دایره ای (دیسکی) >>>

Micro forets, Forets & Alésoirs
مته ها، میکرو مته ها و بُرقو >>>

Outils HSS
ابزارهای SSH >>>

Info TECH
اطلاعات فنی >>>

> MICRO fraises hémisphériques MD

< میکروفیز کروی (Ball Nose) نوع تنگستن

Revêtement
با روکش

Recommandé pour
توصیه می شود برای

INFO
Tech
مشخصات فنی

| Code | Part Number | Dimensions | Material | Coating | Recommended For | Page |
|------|-------------------------------|--------------------------------|----------|---------|--|-------|
| p 28 | nouveau 120.027.20S | Ø 1 - Ø 6 | Z2 | AITIN | HRC <50 / INOX / TITANE تیتان / اینوکس / HRC <50 | p 140 |
| p 39 | 210.220.30 210.220.30M | Ø 0.3 - Ø 1 | Z2 | PSNM | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 140 |
| p 30 | 210.221.30 210.221.30M | Ø 0.1 - Ø 2 Ø 0.2 - Ø 2 | Z2 | PSNM | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 140 |
| p 31 | 210.225.30 210.225.30M | Ø 0.1 - Ø 2.5 Ø 0.2 - Ø 2.5 | Z2 | PSNM | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 140 |
| p 32 | 210.228.30 210.228.30M | Ø 0.4 - Ø 2 | Z2 | PSNM | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 140 |

> FRAISES à graver MD

< فیز مخصوص حکاکی ظریف کاری نوع تنگستن

| Code | Part Number | Dimensions | Material | Coating | Recommended For | Page |
|------|-----------------------|-------------------|----------|----------|---|-------|
| p 33 | 220.515 220.515B | Plat 0.02 - 0.2 | Z1 | TICN | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX اینوکس / HRC <40 | p 140 |
| p 34 | 220.516 220.516B/L | Plat 0.05 - 0.125 | Z1 | TICN DLC | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX اینوکس / HRC <40 | p 140 |
| p 35 | 220.615 220.615B | R 0.04 - R 0.1 | Z1 | TICN | HRC <40 / INOX اینوکس / HRC <40 | p 140 |

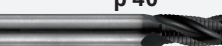





> FRAISES d'ébauches MD, type HR

< فیزهای خشن کاری نوع تنگستن ، نوع HR

| Code | Part Number | Dimensions | Material | Coating | Recommended For | Page |
|------|-----------------------------|---------------------------|----------|---------|--|-------|
| p 37 | 220.153.272 220.153.272S | Ø 2 - Ø 2.5 Ø 2 - Ø 10 | Z3 - Z4 | AITiN | LAITON / OR طلا / برنج HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 141 |
| p 38 | 221.155.272S | Ø 4 - Ø 20 | Z3 - Z4 | AITiN | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 141 |
| p 39 | 221.255.272S | Ø 4 - Ø 10 | Z3 - Z4 | AITiN | HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 141 |



> FRAISES d'ébauches MD, type HRS

< فِرِزها خشن کاری نوع تنگستن، نوع HRS

| | | | | | Revêtement با روکش | Recommandé pour توصیه می شود برای | INFO Tech مشخصات فنی |
|---|------|--------------|------------|---------|---|---|----------------------------|
|  | p 40 | 220.153.232S | Ø 3 - Ø 16 | Z3 - Z4 |  | HRC <55 / INOX / TITANE HRC <55 / اینوکس / تیتان FONTE / INCONEL چدن / اینکونل | p 141 |
|  | p 41 | 220.155.232S | Ø 3 - Ø 32 | Z3 - Z7 |  | HRC <55 / INOX / TITANE HRC <55 / اینوکس / تیتان FONTE / INCONEL چدن / اینکونل | p 141 |
|  | p 42 | 220.156.232S | Ø 6 - Ø 25 | Z3 - Z5 |  | HRC <55 / INOX / TITANE HRC <55 / اینوکس / تیتان FONTE / INCONEL چدن / اینکونل | p 141 |













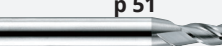





> FRAISES d'ébauches MD, type HRX

< فِرِزهای خشن کاری نوع تنگستن، نوع HRX

| | | | | | | | |
|---|------|--------------|------------|---------|---|---|-------|
|  | p 43 | 231.155.242S | Ø 6 - Ø 25 | Z4 - Z6 |  | HRC <55 / TITANE / INCONEL HRC <55 / تیتان / اینکونل | p 141 |
|---|------|--------------|------------|---------|---|---|-------|

> FRAISES de finition MD

< فِرِزهای پرداخت کاری نوع تنگستن

| | | | | | | | |
|---|------|---------------------------|--------------|----|---|--|-------|
|  | p 45 | 220.121.30 220.121.30G | Ø 2 - Ø 14 | Z2 |  | HRC <25 / ALU / HRC <25 / آلومینیوم / HRC <40 / ALU / HRC <40 / آلومینیوم / | p 142 |
|  | p 46 | 220.123.30X | Ø 1 - Ø 2.5 | Z2 |  | HRC <55 / INOX / TITANE HRC <55 / اینوکس / تیتان | p 142 |
|  | p 47 | 220.130.30 220.130.30G | Ø 3 - Ø 20 | Z3 |  | HRC <25 / LAITON / OR HRC <25 / طلا / برنج / HRC <40 / INOX / TITANE / FONTE HRC <40 / اینوکس / تیتان / چدن | p 143 |
|  | p 48 | 220.131.30 220.131.30G | Ø 1 - Ø 6 | Z3 |  | HRC <25 / ALU / LAITON / OR HRC <25 / آلومینیوم / طلا / برنج / HRC <40 / INOX / TITANE / FONTE HRC <40 / اینوکس / تیتان / چدن | p 143 |
|  | p 49 | 221.131.30 221.131.30N | Ø 1.5 - Ø 10 | Z3 |  | HRC <25 / ALU / LAITON / OR HRC <25 / آلومینیوم / طلا / برنج / HRC <40 / INOX / TITANE / FONTE HRC <40 / اینوکس / تیتان / چدن | p 143 |
|  | p 50 | 220.131.32S | Ø 3 - Ø 20 | Z3 |  | HRC <40 / INOX / TITANE HRC <40 / اینوکس / تیتان | p 143 |
|  | p 51 | 220.132.30 220.132.30G | Ø 1 - Ø 10 | Z3 |  | HRC <25 / ALU / LAITON / OR HRC <25 / آلومینیوم / طلا / برنج / HRC <40 / INOX / TITANE / FONTE HRC <40 / اینوکس / تیتان / چدن | p 143 |
|  | p 52 | 221.134.30 221.134.30N | Ø 2 - Ø 20 | Z3 |  | HRC <25 / ALU / LAITON / OR HRC <25 / آلومینیوم / طلا / برنج / HRC <40 / INOX / TITANE / FONTE HRC <40 / اینوکس / تیتان / چدن | p 143 |
|  | p 53 | 220.135.30 220.135.30G | Ø 1 - Ø 12 | Z3 |  | HRC <25 / ALU / LAITON / OR HRC <25 / آلومینیوم / طلا / برنج / HRC <40 / INOX / TITANE / FONTE HRC <40 / اینوکس / تیتان / چدن | p 143 |











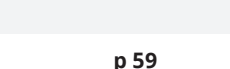





> FRAISES de finition MD

< فهرستهای پرداخت کاری نوع تنگستن

Revêtement
با روکش













Recommandé pour
توصیه می شود برای

INFO
Tech
مشخصات فنی

| | | | | | | | |
|---|-----------------------------------|------------|-----------------------------------|---|---------|--|-------|
|  | p 54 220.135.70 | Ø 3 - Ø 20 | Z3 |  | | ALU آلومینیوم | p 143 |
|  | p 54 220.136.30 220.136.30G | Ø 3 - Ø 16 | Z3 |  | AlCrON | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 143 |
|  | p 56 220.137.30 220.137.30G | Ø 8 - Ø 20 | Z3 |  | AlCrON | HRC <25 / ALU / LAITON / OR طلا / برنج / آلومینیوم / HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 143 |
|  | p 57 220.145.30 220.145.30G | Ø 2 - Ø 20 | Z4 Ø > 10 : 0.05-0.1 45° |  | AlCrON | HRC <25 HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 144 |
|  | p 58 220.146.30 220.146.30G | Ø 3 - Ø 16 | Z4 |  | AlCrON | HRC <25 HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 144 |
|  | p 59 220.147.30 220.147.30G | Ø 8 - Ø 20 | Z4 |  | AlCrON | HRC <25 HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 144 |
|  | p 60 220.155.60X | Ø 6 - Ø 25 | Z6 - Z8 |  | TiAlN X | HRC <55 / TITANE HRC <55 / تیتان / FONTE / INCONEL اینکونل / چدن | p 144 |
|  | p 61 230.156.70X | Ø 3 - Ø 20 | Z4 - Z6 |  | TiAlN X | HRC <68 HRC <68 | p 144 |




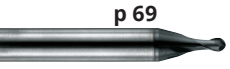





> FRAISES en bout MD, type NS VARIACut

< فهرستهای مخصوص خشن کاری (تنگستن) نوع Variacut

| | | | | | | | |
|---|---------------------------------------|------------|----|---|------------|---|-------|
|  | p 62 220.142.600 220.142.600S/M | Ø 1 - Ø 10 | Z4 |  | AlTiN PSNM | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <55 / INOX / TITANE / FONTE / INCO- اینکونل / چدن / تیتان / اینوکس / HRC <55 NEL | p 145 |
|  | p 63 220.145.600 220.145.600S | Ø 3 - Ø 25 | Z4 |  | AlTiN | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <55 / INOX / TITANE / FONTE / INCO- اینکونل / چدن / تیتان / اینوکس / HRC <55 NEL | p 145 |
|  | p 64 220.145.610S | Ø 4 - Ø 25 | Z4 |  | AlTiN | HRC <55 / INOX / TITANE / FONTE / INCO- HRC <55 / اینوکس / تیتان / چدن / اینکونل / NEL | p 145 |
|  | p 65 220.145.620S | Ø 4 - Ø 20 | Z4 |  | AlTiN | HRC <55 / INOX / TITANE / FONTE / INCO- HRC <55 / اینوکس / تیتان / چدن / اینکونل / NEL | p 145 |
|  | p 66 220.155.600S | Ø 4 - Ø 25 | Z5 |  | AlTiN | HRC <55 / INOX / TITANE / FONTE / INCO- HRC <55 / اینوکس / تیتان / چدن / اینکونل / NEL | p 145 |
|  | p 67 220.156.600S | Ø 6 - Ø 25 | Z5 |  | AlTiN | HRC <55 / INOX / TITANE / FONTE / INCO- HRC <55 / اینوکس / تیتان / چدن / اینکونل / NEL | p 145 |

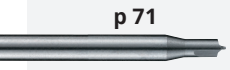


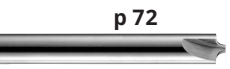




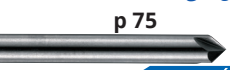

> FRAISES hémisphériques MD

فِرزهای کروی (Ball Nose) نوع تنگستن <

| | | | | | Revêtement با روکش | Recommandé pour توصیه می شود برای | |
|---|-----------------------------------|------------|----|---|---|--|-------|
|  | p 68 220.221.30 220.221.30G | Ø 2 - Ø 12 | Z2 |  |  | HRC <25 / ALU آلومینیوم / HRC <25 HRC <40 / ALU آلومینیوم / HRC <40 | p 146 |
|  | p 69 220.223.30X | Ø 1 - Ø 4 | Z2 |  |  | HRC <55 / INOX / TITANE / ALU آلومینیوم / تیتان / اینوکس / HRC <55 | p 146 |
|  | p 70 221.234.30 221.234.30G | Ø 3 - Ø 20 | Z3 |  |  | HRC <25 / TITANE / ALU آلومینیوم / تیتان / HRC <25 HRC <40 / INOX / TITANE / ALU آلومینیوم / تیتان / اینوکس / HRC <40 | p 146 |

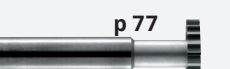





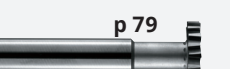











> FRAISES concaves et coniques MD

فِرزهای گود و مخروطی نوع تنگستن <

| | | | | | | | |
|---|-----------------------------------|------------------------------|----|---|---|---|--|
|  | p 71 220.325.10 220.325.10G | R 0.1 - R 5 | Z2 |  |  | Utilisation générale مصارف کلی و عمومی | |
|  | p 72 220.325.20 220.325.20G | R 0.25 - R 2.5 | Z2 |  |  | Utilisation générale مصارف کلی و عمومی | |
|  | p 73-74 220.525 220.525G | Ø 0.1 - Ø 10 Ø 0.2 - Ø 10 | Z2 | 60° / 90° 120° |  | Utilisation générale مصارف کلی و عمومی | |
|  | p 75 220.535 220.535G | Ø 0.5 - Ø 16 | Z3 | 90° |  | Utilisation générale مصارف کلی و عمومی | |

> FRAISES de forme MD

فِرزهای فرم دهی نوع تنگستن <

| | | | | | | | |
|---|---------------------------|-------------------------------|-----------|---|---|--|--|
|  | p 77 224112 224112G | Ø 4 - Ø 25 | Z4 - Z24 |  |  | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | |
|  | p 78 224152 224152G | Ø 16 - Ø 32 | Z16 - Z32 |  |  | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | |
|  | p 79 224173 224173G | Ø 6 - Ø 25 | Z6 - Z20 |  |  | HRC <25 / TITANE تیتان / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | |
|  | p 80 224411 224411S | Ø 1 - Ø 12 | Z3 - Z4 | 90° |  | HRC <25 / ALU آلومینیوم / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | |
|  | p 81 2272 2272G | Ø 15 - Ø 30 | |  |  | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | |
|  | p 82 2274 2274G | Ø 15 - Ø 30 | | 60° / 90° 120° |  | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX اینوکس / HRC <40 | |
|  | p 83 22080 22081 | Pas 0.3 - 2 Pas 0.2 - 0.35 | M MF |  | | HRC <25 / INOX / OR طلا / اینوکس / HRC <25 | |

> FRAISES circulaires MD

◀ فریزهای دایره ای نوع تنگستن

Revêtement
با روکش

Recommandé pour
توصیه می شود برای

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| Image | Code | Dimensions | Angle | Flute | Coating | Material | Recommended for | Page |
|-------|--------------------------------|------------------------------|----------|-----------------------------|---------|----------|--|-------|
| | p 85 nouveau 227 | Ø 15 - Ø 20 | | | | | | p 148 |
| | p 86-90 227.011 227.011G | Ø 15 - Ø 200 Ø 50 - Ø 125 | | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 148 |
| | p 91 227.015G | Ø 50 - Ø 100 | | | | AlCrON | HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 148 |
| | p 92 227E.016M | Ø 50 - Ø 100 | | | | PSNM | HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 148 |
| | p 93 227.515 227.515G | Ø 50 - Ø 100 | Cône 15° | A Droite (R) A Gauche(L) | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 148 |
| | p 94 227.520 227.520G | Ø 50 - Ø 100 | Cône 20° | A Droite (R) A Gauche(L) | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE / FONTE چدن / تیتان / اینوکس / HRC <40 | p 148 |

> MICRO forets MD

◀ میکرو مته ها نوع تنگستن

| Image | Code | Dimensions | Flute | Coating | Material | Recommended for | Page | |
|-------|---|----------------------------------|-------|---------|----------|-----------------|--|-------|
| | p 95 240.020.12 240.020.12G | Ø 0.5 - Ø 2.4 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX اینوکس / HRC <40 | p 149 |
| | p 96-97 240.023.32 240.023.32G | Ø 0.2 - Ø 2.95 Ø 0.4 - Ø 2.95 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |
| | p 98-99 240.025.32 240.025.32G | Ø 0.1 - Ø 1.99 Ø 0.4 - Ø 1.99 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |
| | p 100-101 240.027.32 240.027.32G | Ø 0.3 - Ø 2.95 Ø 0.4 - Ø 2.95 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |
| | p 102 nouveau 140.025.52 140.025.52G | Ø 0.5 - Ø 1.99 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |
| | p 103 140.025.66N | Ø 0.8 - Ø 2.95 | Z2 | | | TiAlN N | HRC <55 / INOX / FONTE چدن / اینوکس / HRC <55 | p 149 |
| | p 104 240.755-090 240.755G-090 | Ø 0.5 - Ø 3 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |
| | p 105 240.755-120 240.755G-120 | Ø 0.8 - Ø 2 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |
| | p 106 240.757-090 240.757G-090 | Ø 0.5 - Ø 2 | Z2 | | | AlCrON | HRC <25 / LAITON / OR طلا / برنج / HRC <25 HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 | p 149 |




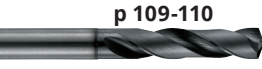













> FORETS MD

متنه های نوع تنگستن <

Revêtement
با روکش







Recommandé pour
توصیه می شود برای

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Tech
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| | | | | | | |
|---|--|--------------|---------|---|---|---|
|  | p 107-108 240.221.22 | Ø 0.5 - Ø 13 | Z2 ↓ |  |  | Utilisation générale مصارف کلی و عمومی |
|  | p 109-110 140.321.77N | Ø 3 - Ø 20 | Z2 ↓ |  |  | TiAlN N HRC <68 / INOX / TITANE / INCONEL اینکونل / تیتان / اینوکس / HRC <68 p 150 |
|  | p 111-112 142.321.77N | Ø 3 - Ø 20 | Z2 ↓ |  |  | TiAlN N HRC <68 / INOX / TITANE / INCONEL اینکونل / تیتان / اینوکس / HRC <68 p 150 |
|  | p 113-114 142.324.77N | Ø 3 - Ø 20 | Z2 ↓ |  |  | TiAlN N HRC <68 / INOX / TITANE / INCONEL اینکونل / تیتان / اینوکس / HRC <68 p 150 |
|  | p 115 240.765 | Ø 1 - Ø 20 | Z2 ↓ | 60° / 90° 120° |  | AlCrON |
|  | gamme élargie 240.765G دارای مدل های مختلف | | | | | |
|  | p 116 240.855 | Ø 0.5 - Ø 4 | Z2 ↓ | 60° |  | |

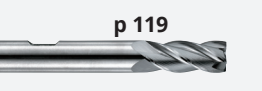

















> ALESOIRS MD

برقو نوع تنگستن <

| | | | | | | |
|---|------------------------------------|-----------------|--------------|---|---|--|
|  | p 117 nouveau 250.042.10 | Ø 0.2 - Ø 0.595 | Z4 ↓ |  |  | HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 ALU / OR / LAITON برنج / طلا / آلومینیوم |
|  | p 118 250.154.10 | Ø 0.6 - Ø 13.05 | Z4 - Z6 ↓ |  |  | HRC <40 / INOX / TITANE تیتان / اینوکس / HRC <40 FONTE / ALU / OR / LAITON برنج / طلا / آلومینیوم / چدن |

> FRAISES HSS Co



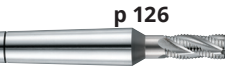






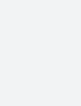
HSS فرزهای <

| | | | | | | |
|---|------------------------------------|------------|--------------|---|---|--------|
|  | p 119 521.155.30 521.155.30G | Ø2 - Ø 25 | Z3 - Z5 ↕ |  |  | AlCrON |
|  | p 120 521.155.80 | Ø2 - Ø 25 | Z2 - Z3 ↕ |  |  | |
|  | p 121 521.157.30 521.157.30G | Ø3 - Ø 32 | Z3 - Z5 ↕ |  |  | AlCrON |
|  | p 122 521.157.80 | Ø6 - Ø 32 | Z2 - Z3 ↕ |  |  | |
|  | p 123 521.155.372G | Ø 4 - Ø 40 | Z3 - Z6 ↕ |  |  | AlCrON |
|  | p 124 521.157.372G | Ø 6 - Ø 30 | Z3 - Z6 ↕ |  |  | AlCrON |

> FRAISES HSS Co

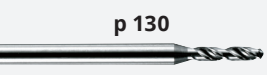









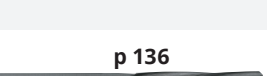

HSS فرزهای

Revêtement
با روکش

| | | | | | |
|---|--------------------------------------|-------------|----------|---|------|
|  | p 125 524.165.30 524.165.30B | Ø12 - Ø 50 | Z4 - Z6 |  | TiCN |
|  | p 126 524.165.372B | Ø12 - Ø 50 | Z4 - Z6 |  | TiCN |
|  | p 127 524.167.372B | Ø12 - Ø 50 | Z4 - Z6 |  | TiCN |
|  | p 128 527.151.30 527.151.30B | Ø40 - Ø 100 | Z6 - Z12 |  | TiCN |
|  | p 129 527.151.372 527.151.372B | Ø40 - Ø 100 | Z8 - Z12 |  | TiCN |

> FORETS et ALESOIRS HSS Co

HSS انواع مته ها و بُرقوهای

| | | | | | |
|--|-------------------------------------|--------------------------|---------|---|---|
|  | p 130 540.021.10 | Ø 0.1 - Ø 1.5 | Z2 |  | |
|  | p 131-132 540.224.65 | Ø 0.4 - Ø 16 | Z2 |  | |
|  | p 133 540.765-090 540.765-120 | Ø 2 - Ø 20 Ø 2 - Ø 12 | Z2 | 90° 120° |  |
|  | p 134 540.855 | Ø 0.5 - Ø 6 | Z2 | 60° |  |
|  | p 135 540.857 | Ø 1 - Ø 3 | Z2 | 60° |  |
|  | p 136 550.154.10H7 | Ø 2 - Ø 20 | Z4 - Z8 | |  |

> INFOTech

اطلاعات فنی

p 137-151

> CONDITIONS générales de vente

شرایط عمومی فروش

p 152

Micro fraises & Fraises à graver

میکرو فرزها و
فرزهای ظریف کاری




SATIS
TOOL

MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

2

1

0

1

1

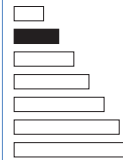
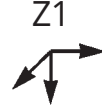
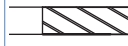
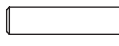
2

1

0

MD
HM/SC
MG KX10

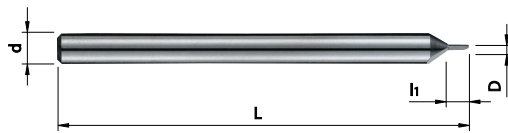
میکروفِرزها
MIKRO Fräser
MICRO end mills
MICRO frese



$\lambda 0^\circ$
 $\gamma \sim 0^\circ$



210.112.10



SATIS
micro



Taille droite
Norme SATIS

| $D_{0/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش |
|---------------|----------|-------|----|---|-------------------------|
| 0.5 | 3 | 1 | 39 | 1 | 210.112.10-0.5 |
| 0.6 | 3 | 1.2 | 39 | 1 | 210.112.10-0.6 |
| 0.7 | 3 | 1.5 | 39 | 1 | 210.112.10-0.7 |
| 0.8 | 3 | 1.5 | 39 | 1 | 210.112.10-0.8 |
| 0.9 | 3 | 1.5 | 39 | 1 | 210.112.10-0.9 |
| 1 | 3 | 2 | 39 | 1 | 210.112.10-1 |
| 1.1 | 3 | 2 | 39 | 1 | 210.112.10-1.1 |
| 1.2 | 3 | 2 | 39 | 1 | 210.112.10-1.2 |
| 1.3 | 3 | 2 | 39 | 1 | 210.112.10-1.3 |
| 1.4 | 3 | 2 | 39 | 1 | 210.112.10-1.4 |
| 1.5 | 3 | 2 | 39 | 1 | 210.112.10-1.5 |
| 1.6 | 3 | 2.5 | 39 | 1 | 210.112.10-1.6 |
| 1.7 | 3 | 2.5 | 39 | 1 | 210.112.10-1.7 |
| 1.8 | 3 | 2.5 | 39 | 1 | 210.112.10-1.8 |
| 1.9 | 3 | 2.5 | 39 | 1 | 210.112.10-1.9 |
| 2 | 3 | 2.5 | 39 | 1 | 210.112.10-2 |
| 2.5 | 3 | 3 | 39 | 1 | 210.112.10-2.5 |

INEO
Tech

مشخصات فنی

>>> p 138

MICRO fraises

میکروفِرزها

میکروفِرزها

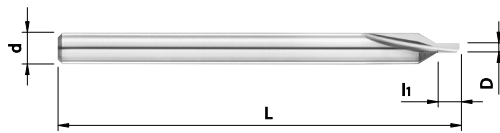
Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | |
|------------------------|---|---|---|---|---|---|---|
| 2 | 1 | 0 | 1 | 1 | 2 | 3 | 4 |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | | | | |

210.112.34



SATIS
micro



جدید **nouveau**

$l_1 = 2 \times D$

Type 3/4 - Taille droite

Norme SATIS

| $D_{0/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش |
|---------------|----------|-------|----|---|-------------------------|
| 0.2 | 3 | 0.4 | 39 | 1 | 210.112.34-0.2 |
| 0.3 | 3 | 0.6 | 39 | 1 | 210.112.34-0.3 |
| 0.4 | 3 | 0.8 | 39 | 1 | 210.112.34-0.4 |
| 0.5 | 3 | 1 | 39 | 1 | 210.112.34-0.5 |
| 0.6 | 3 | 1.2 | 39 | 1 | 210.112.34-0.6 |
| 0.7 | 3 | 1.4 | 39 | 1 | 210.112.34-0.7 |
| 0.8 | 3 | 1.6 | 39 | 1 | 210.112.34-0.8 |
| 0.9 | 3 | 1.8 | 39 | 1 | 210.112.34-0.9 |
| 1 | 3 | 2 | 39 | 1 | 210.112.34-1 |
| 1.1 | 3 | 2.2 | 39 | 1 | 210.112.34-1.1 |
| 1.2 | 3 | 2.4 | 39 | 1 | 210.112.34-1.2 |
| 1.3 | 3 | 2.6 | 39 | 1 | 210.112.34-1.3 |
| 1.4 | 3 | 2.8 | 39 | 1 | 210.112.34-1.4 |
| 1.5 | 3 | 3 | 39 | 1 | 210.112.34-1.5 |
| 1.6 | 3 | 3.2 | 39 | 1 | 210.112.34-1.6 |
| 1.7 | 3 | 3.4 | 39 | 1 | 210.112.34-1.7 |
| 1.8 | 3 | 3.6 | 39 | 1 | 210.112.34-1.8 |
| 1.9 | 3 | 3.8 | 39 | 1 | 210.112.34-1.9 |
| 2 | 3 | 4 | 39 | 1 | 210.112.34-2 |
| 2.5 | 3 | 5 | 39 | 1 | 210.112.34-2.5 |

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Tech
مشخصات فنی
>>> p 138

MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

Micro end mills

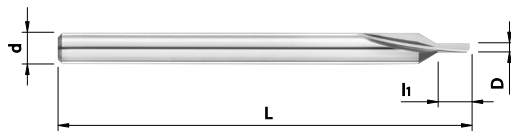
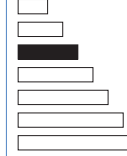
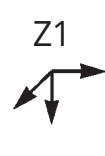
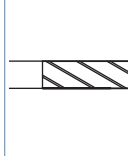
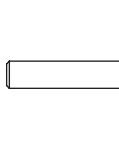
Micro frese

210.113.34

2
1
0
1
1
3
3
4

MD
HM/SC
MG KX10

میکروفِرزها
MIKRO Fräser
MICRO end mills
MICRO frese



SATIS
micro

جدید **nouveau**

$l_1 = 3 \times D$

Type 3/4 - Taille droite

Norme SATIS



| $D_{0/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش |
|---------------|----------|-------|----|---|-------------------------|
| 0.2 | 3 | 0.6 | 39 | 1 | 210.113.34-0.2 |
| 0.3 | 3 | 0.9 | 39 | 1 | 210.113.34-0.3 |
| 0.4 | 3 | 1.2 | 39 | 1 | 210.113.34-0.4 |
| 0.5 | 3 | 1.5 | 39 | 1 | 210.113.34-0.5 |
| 0.6 | 3 | 1.8 | 39 | 1 | 210.113.34-0.6 |
| 0.7 | 3 | 2.1 | 39 | 1 | 210.113.34-0.7 |
| 0.8 | 3 | 2.4 | 39 | 1 | 210.113.34-0.8 |
| 0.9 | 3 | 2.7 | 39 | 1 | 210.113.34-0.9 |
| 1 | 3 | 3 | 39 | 1 | 210.113.34-1 |
| 1.1 | 3 | 3.3 | 39 | 1 | 210.113.34-1.1 |
| 1.2 | 3 | 3.6 | 39 | 1 | 210.113.34-1.2 |
| 1.3 | 3 | 3.9 | 39 | 1 | 210.113.34-1.3 |
| 1.4 | 3 | 4.2 | 39 | 1 | 210.113.34-1.4 |
| 1.5 | 3 | 4.5 | 39 | 1 | 210.113.34-1.5 |

INEO
Tech

مشخصات فنی

>>> p 138

MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

2

1

0

1

1

4

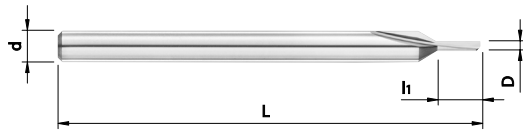
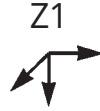
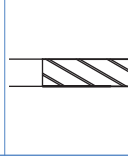
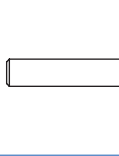
3

4

210.114.34

MD
HM/SC
MG KX10

میکروفِرزها
MIKRO Fräser
MICRO end
mills
MICRO frese



SATIS
micro

جدید **nouveau**

$l_1 = 4 \times D$

Type 3/4 - Taille droite

Norme SATIS



| $D_{0/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش |
|---------------|----------|-------|----|---|-------------------------|
| 0.3 | 3 | 1.2 | 39 | 1 | 210.114.34-0.3 |
| 0.4 | 3 | 1.6 | 39 | 1 | 210.114.34-0.4 |
| 0.5 | 3 | 2 | 39 | 1 | 210.114.34-0.5 |
| 0.6 | 3 | 2.4 | 39 | 1 | 210.114.34-0.6 |
| 0.7 | 3 | 2.8 | 39 | 1 | 210.114.34-0.7 |
| 0.8 | 3 | 3.2 | 39 | 1 | 210.114.34-0.8 |
| 0.9 | 3 | 3.6 | 39 | 1 | 210.114.34-0.9 |
| 1 | 3 | 4 | 39 | 1 | 210.114.34-1 |
| 1.1 | 3 | 4.4 | 39 | 1 | 210.114.34-1.1 |
| 1.2 | 3 | 4.8 | 39 | 1 | 210.114.34-1.2 |

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MICRO fraises

میکروفِرزها

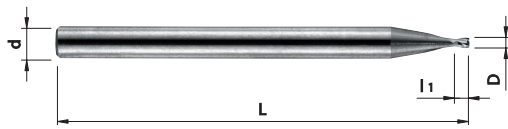
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 0 | 3 | 0 | M | 210.120.30 | 210.120.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 0.75 \times D$

Type N

Norme SATIS

| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 3 | 0.25 | 39 | 2 | 210.120.30-0.3 | 210.120.30M-0.3 |
| 0.4 | 3 | 0.3 | 39 | 2 | 210.120.30-0.4 | 210.120.30M 0.4 |
| 0.5 | 3 | 0.37 | 39 | 2 | 210.120.30-0.5 | 210.120.30M 0.5 |
| 0.6 | 3 | 0.45 | 39 | 2 | 210.120.30-0.6 | 210.120.30M 0.6 |
| 0.7 | 3 | 0.53 | 39 | 2 | 210.120.30-0.7 | 210.120.30M 0.7 |
| 0.8 | 3 | 0.6 | 39 | 2 | 210.120.30-0.8 | 210.120.30M 0.8 |
| 0.9 | 3 | 0.67 | 39 | 2 | 210.120.30-0.9 | 210.120.30M 0.9 |
| 1 | 3 | 0.75 | 39 | 2 | 210.120.30-1 | 210.120.30M 1 |

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MICRO fraises

میکروفِرزها

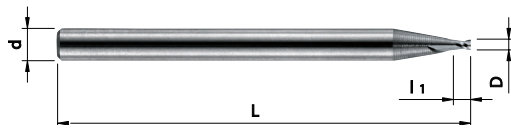
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 1 | 3 | 0 | M | 210.121.30 | 210.121.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | 210.121.30 | 210.121.30M |



SATIS
micro



$l_1 = 1.5 \times D$

Type N

Norme SATIS

| D _{+/-0.01} | d _{h5} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu PSNM PSNM با روکش |
|----------------------|-----------------|----------------|----|---|-------------------------|-----------------------------|
| 0.1 | 3 | 0.15 | 39 | 2 | 210.121.30-0.1 | |
| 0.15 | 3 | 0.2 | 39 | 2 | 210.121.30-0.15 | |
| 0.2 | 3 | 0.3 | 39 | 2 | 210.121.30-0.2 | 210.121.30M-0.2 |
| 0.25 | 3 | 0.35 | 39 | 2 | 210.121.30-0.25 | 210.121.30M-0.25 |
| 0.3 | 3 | 0.45 | 39 | 2 | 210.121.30-0.3 | 210.121.30M-0.3 |
| 0.4 | 3 | 0.6 | 39 | 2 | 210.121.30-0.4 | 210.121.30M-0.4 |
| 0.5 | 3 | 0.75 | 39 | 2 | 210.121.30-0.5 | 210.121.30M-0.5 |
| 0.6 | 3 | 0.9 | 39 | 2 | 210.121.30-0.6 | 210.121.30M-0.6 |
| 0.7 | 3 | 1.05 | 39 | 2 | 210.121.30-0.7 | 210.121.30M-0.7 |
| 0.8 | 3 | 1.2 | 39 | 2 | 210.121.30-0.8 | 210.121.30M-0.8 |
| 0.9 | 3 | 1.35 | 39 | 2 | 210.121.30-0.9 | 210.121.30M-0.9 |
| 1 | 3 | 1.5 | 39 | 2 | 210.121.30-1 | 210.121.30M-1 |
| 1.1 | 3 | 1.65 | 39 | 2 | 210.121.30-1.1 | 210.121.30M-1.1 |
| 1.2 | 3 | 1.8 | 39 | 2 | 210.121.30-1.2 | 210.121.30M-1.2 |
| 1.3 | 3 | 1.95 | 39 | 2 | 210.121.30-1.3 | 210.121.30M-1.3 |
| 1.4 | 3 | 2.1 | 39 | 2 | 210.121.30-1.4 | 210.121.30M-1.4 |
| 1.5 | 3 | 2.25 | 39 | 2 | 210.121.30-1.5 | 210.121.30M-1.5 |
| 1.6 | 3 | 2.4 | 39 | 2 | 210.121.30-1.6 | 210.121.30M-1.6 |
| 1.7 | 3 | 2.55 | 39 | 2 | 210.121.30-1.7 | 210.121.30M-1.7 |
| 1.8 | 3 | 2.7 | 39 | 2 | 210.121.30-1.8 | 210.121.30M-1.8 |
| 1.9 | 3 | 2.85 | 39 | 2 | 210.121.30-1.9 | 210.121.30M-1.9 |
| 2 | 3 | 3 | 39 | 2 | 210.121.30-2 | 210.121.30M-2 |

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MICRO fraises

میکروفِرزها

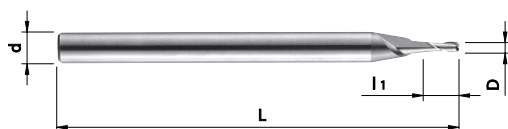
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 5 | 3 | 0 | M | 210.125.30 | 210.125.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 3 \times D$

Type N

Norme SATIS

| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.08 | 3 | 0.2 | 39 | 2 | 210.125.30-0.08 | |
| 0.1 | 3 | 0.25 | 39 | 2 | 210.125.30-0.1 | |
| 0.15 | 3 | 0.3 | 39 | 2 | 210.125.30-0.15 | |
| 0.2 | 3 | 0.5 | 39 | 2 | 210.125.30-0.2 | 210.125.30M-0.2 |
| 0.25 | 3 | 0.5 | 39 | 2 | 210.125.30-0.25 | 210.125.30M-0.25 |
| 0.3 | 3 | 1 | 39 | 2 | 210.125.30-0.3 | 210.125.30M-0.3 |
| 0.35 | 3 | 1 | 39 | 2 | 210.125.30-0.35 | 210.125.30M-0.35 |
| 0.4 | 3 | 1.2 | 39 | 2 | 210.125.30-0.4 | 210.125.30M-0.4 |
| 0.45 | 3 | 1.2 | 39 | 2 | 210.125.30-0.45 | 210.125.30M-0.45 |
| 0.5 | 3 | 1.5 | 39 | 2 | 210.125.30-0.5 | 210.125.30M-0.5 |
| 0.55 | 3 | 1.5 | 39 | 2 | 210.125.30-0.55 | 210.125.30M-0.55 |
| 0.6 | 3 | 2 | 39 | 2 | 210.125.30-0.6 | 210.125.30M-0.6 |
| 0.65 | 3 | 2 | 39 | 2 | 210.125.30-0.65 | 210.125.30M-0.65 |
| 0.7 | 3 | 2 | 39 | 2 | 210.125.30-0.7 | 210.125.30M-0.7 |
| 0.75 | 3 | 2 | 39 | 2 | 210.125.30-0.75 | 210.125.30M-0.75 |
| 0.8 | 3 | 2.5 | 39 | 2 | 210.125.30-0.8 | 210.125.30M-0.8 |
| 0.85 | 3 | 2.5 | 39 | 2 | 210.125.30-0.85 | 210.125.30M-0.85 |
| 0.9 | 3 | 2.5 | 39 | 2 | 210.125.30-0.9 | 210.125.30M-0.9 |
| 0.95 | 3 | 2.5 | 39 | 2 | 210.125.30-0.95 | 210.125.30M-0.95 |
| 1 | 3 | 3 | 39 | 2 | 210.125.30-1 | 210.125.30M-1 |
| 1.05 | 3 | 3 | 39 | 2 | 210.125.30-1.05 | 210.125.30M-1.05 |
| 1.1 | 3 | 3 | 39 | 2 | 210.125.30-1.1 | 210.125.30M-1.1 |
| 1.15 | 3 | 3 | 39 | 2 | 210.125.30-1.15 | 210.125.30M-1.15 |
| 1.2 | 3 | 4 | 39 | 2 | 210.125.30-1.2 | 210.125.30M-1.2 |
| 1.25 | 3 | 4 | 39 | 2 | 210.125.30-1.25 | 210.125.30M-1.25 |
| 1.3 | 3 | 4 | 39 | 2 | 210.125.30-1.3 | 210.125.30M-1.3 |



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Tech

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MICRO fraises

میکروفِرزها

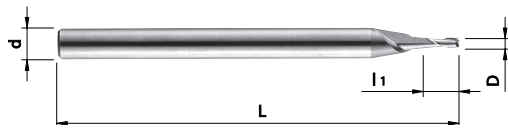
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 5 | 3 | 0 | M | 210.125.30 | 210.125.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 3 \times D$

Type N

Norme SATIS

| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 1.35 | 3 | 4 | 39 | 2 | 210.125.30-1.35 | 210.125.30M-1.35 |
| 1.4 | 3 | 4 | 39 | 2 | 210.125.30-1.4 | 210.125.30M-1.4 |
| 1.45 | 3 | 4 | 39 | 2 | 210.125.30-1.45 | 210.125.30M-1.45 |
| 1.5 | 3 | 4.5 | 39 | 2 | 210.125.30-1.5 | 210.125.30M-1.5 |
| 1.55 | 3 | 4.5 | 39 | 2 | 210.125.30-1.55 | 210.125.30M-1.55 |
| 1.6 | 3 | 4.5 | 39 | 2 | 210.125.30-1.6 | 210.125.30M-1.6 |
| 1.65 | 3 | 5 | 39 | 2 | 210.125.30-1.65 | 210.125.30M-1.65 |
| 1.7 | 3 | 5 | 39 | 2 | 210.125.30-1.7 | 210.125.30M-1.7 |
| 1.75 | 3 | 6 | 39 | 2 | 210.125.30-1.75 | 210.125.30M-1.75 |
| 1.8 | 3 | 6 | 39 | 2 | 210.125.30-1.8 | 210.125.30M-1.8 |
| 1.85 | 3 | 6 | 39 | 2 | 210.125.30-1.85 | 210.125.30M-1.85 |
| 1.9 | 3 | 6 | 39 | 2 | 210.125.30-1.9 | 210.125.30M-1.9 |
| 1.95 | 3 | 6 | 39 | 2 | 210.125.30-1.95 | 210.125.30M-1.95 |
| 2 | 3 | 6 | 39 | 2 | 210.125.30-2 | 210.125.30M-2 |
| 2.1 | 3 | 6 | 39 | 2 | 210.125.30-2.1 | 210.125.30M-2.1 |
| 2.2 | 3 | 6.5 | 39 | 2 | 210.125.30-2.2 | 210.125.30M-2.2 |
| 2.3 | 3 | 7 | 39 | 2 | 210.125.30-2.3 | 210.125.30M-2.3 |
| 2.4 | 3 | 7 | 39 | 2 | 210.125.30-2.4 | 210.125.30M-2.4 |
| 2.5 | 3 | 7.5 | 39 | 2 | 210.125.30-2.5 | 210.125.30M-2.5 |
| 2.6 | 3 | 7.5 | 39 | 2 | 210.125.30-2.6 | 210.125.30M-2.6 |
| 2.7 | 3 | 8 | 39 | 2 | 210.125.30-2.7 | 210.125.30M-2.7 |
| 2.8 | 3 | 8 | 39 | 2 | 210.125.30-2.8 | 210.125.30M-2.8 |
| 2.9 | 3 | 8 | 39 | 2 | 210.125.30-2.9 | 210.125.30M-2.9 |



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MICRO fraises

میکروفِرزها

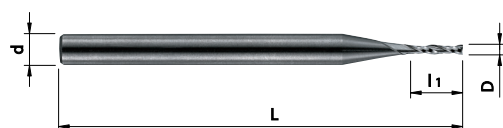
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 6 | 3 | 0 | M | 210.126.30 | 210.126.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 5 \times D$

Type N

Norme SATIS

| $D_{\pm 0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|----------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 3 | 1.5 | 39 | 2 | 210.126.30-0.3 | 210.126.30M-0.3 |
| 0.4 | 3 | 2 | 39 | 2 | 210.126.30-0.4 | 210.126.30M-0.4 |
| 0.5 | 3 | 2.5 | 39 | 2 | 210.126.30-0.5 | 210.126.30M-0.5 |
| 0.6 | 3 | 3 | 39 | 2 | 210.126.30-0.6 | 210.126.30M-0.6 |
| 0.7 | 3 | 3.5 | 39 | 2 | 210.126.30-0.7 | 210.126.30M-0.7 |
| 0.8 | 3 | 4 | 39 | 2 | 210.126.30-0.8 | 210.126.30M-0.8 |
| 0.9 | 3 | 4.5 | 39 | 2 | 210.126.30-0.9 | 210.126.30M-0.9 |
| 1 | 3 | 5 | 39 | 2 | 210.126.30-1 | 210.126.30M-1 |
| 1.1 | 3 | 5.5 | 39 | 2 | 210.126.30-1.1 | 210.126.30M-1.1 |
| 1.2 | 3 | 6 | 39 | 2 | 210.126.30-1.2 | 210.126.30M-1.2 |
| 1.5 | 3 | 7.5 | 39 | 2 | 210.126.30-1.5 | 210.126.30M-1.5 |
| 2 | 3 | 10 | 39 | 2 | 210.126.30-2 | 210.126.30M-2 |

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MICRO fraises

میکروفِرزها

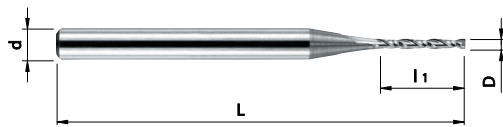
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 7 | 3 | 0 | M | 210.127.30 | 210.127.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



gamme élargie

دارای مدل های مختلف

$l_1 = 8 \times D$

Type N

Norme SATIS

| $D_{\pm 0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|----------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.4 | 3 | 3.2 | 39 | 2 | 210.127.30-0.4 | 210.127.30M-0.4 |
| 0.5 | 3 | 4 | 39 | 2 | 210.127.30-00.5 | 210.127.30M-0.5 |
| 0.6 | 3 | 5 | 39 | 2 | 210.127.30-00.6 | 210.127.30M-0.6 |
| 0.8 | 3 | 6 | 39 | 2 | 210.127.30-00.8 | 210.127.30M-0.8 |
| 1 | 3 | 8 | 39 | 2 | 210.127.30-01 | 210.127.30M-1 |
| 1.2 | 3 | 9 | 39 | 2 | 210.127.30-01.2 | 210.127.30M-1.2 |
| 1.5 | 4 | 12 | 44 | 2 | 210.127.30-01.5 | 210.127.30M-1.5 |
| 2 | 4 | 16 | 44 | 2 | 210.127.30-02 | 210.127.30M-2 |

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MICRO fraises

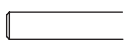

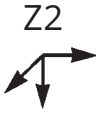
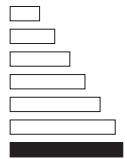

میکروفِرزها

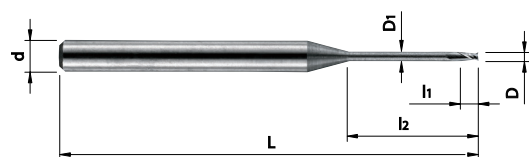
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 2 | 8 | 3 | 0 | M | 210.128.30 | 210.128.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese |  |  | Z2  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | PSNM | | |



SATIS
micro



gamme élargie

دارای مدل های مختلف

$l_1 = 1.5 \times D$ Type

N

Norme SATIS

| $D_{+/-0.01}$ | l_2 | l_1 | $D_{1-0.02/-0.05}$ | d_{h5} | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|-------|-------|--------------------|----------|----|---|-------------------------|-----------------------------|
| 0.15 | 0.5 | 0.2 | 0.15 | 3 | 39 | 2 | 210.128.30-0.15-0.5 | |
| 0.2 | 0.6 | 0.3 | 0.2 | 3 | 39 | 2 | 210.128.30-0.2-0.6 | |
| 0.25 | 0.75 | 0.35 | 0.25 | 3 | 39 | 2 | 210.128.30-0.25-0.75 | |
| 0.3 | 1 | 0.45 | 0.3 | 3 | 39 | 2 | 210.128.30-0.3-1 | 210.128.30M-0.3-1 |
| 0.3 | 2 | 0.45 | 0.3 | 3 | 39 | 2 | 210.128.30-0.3-2 | 210.128.30M-0.3-2 |
| 0.4 | 2 | 0.6 | 0.4 | 3 | 39 | 2 | 210.128.30-0.4-2 | 210.128.30M-0.4-2 |
| 0.4 | 4 | 0.6 | 0.4 | 3 | 39 | 2 | 210.128.30-0.4-4 | 210.128.30M-0.4-4 |
| 0.5 | 4 | 0.75 | 0.5 | 3 | 39 | 2 | 210.128.30-0.5-4 | 210.128.30M-0.5-4 |
| 0.5 | 6 | 0.75 | 0.5 | 3 | 39 | 2 | 210.128.30-0.5-6 | 210.128.30M-0.5-6 |
| 0.6 | 4 | 0.9 | 0.6 | 3 | 39 | 2 | 210.128.30-0.6-4 | 210.128.30M-0.6-4 |
| 0.6 | 6 | 0.9 | 0.6 | 3 | 39 | 2 | 210.128.30-0.6-6 | 210.128.30M-0.6-6 |
| 0.7 | 4 | 1.05 | 0.7 | 3 | 39 | 2 | 210.128.30-0.7-4 | 210.128.30M-0.7-4 |
| 0.7 | 6 | 1.05 | 0.7 | 3 | 39 | 2 | 210.128.30-0.7-6 | 210.128.30M-0.7-6 |
| 0.8 | 4 | 1.2 | 0.8 | 3 | 39 | 2 | 210.128.30-0.8-4 | 210.128.30M-0.8-4 |
| 0.8 | 6 | 1.2 | 0.8 | 3 | 39 | 2 | 210.128.30-0.8-6 | 210.128.30M-0.8-6 |
| 0.8 | 9 | 1.2 | 0.8 | 3 | 39 | 2 | 210.128.30-0.8-9 | 210.128.30M-0.8-9 |
| 0.9 | 6 | 1.35 | 0.9 | 3 | 39 | 2 | 210.128.30-0.9-6 | 210.128.30M-0.9-6 |
| 0.9 | 9 | 1.35 | 0.9 | 3 | 39 | 2 | 210.128.30-0.9-9 | 210.128.30M-0.9-9 |
| 1 | 6 | 1.5 | 1 | 3 | 39 | 2 | 210.128.30-1-6 | 210.128.30M-1-6 |
| 1 | 9 | 1.5 | 1 | 3 | 39 | 2 | 210.128.30-1-9 | 210.128.30M-1-9 |
| 1 | 12 | 1.5 | 1 | 3 | 39 | 2 | 210.128.30-1-12 | 210.128.30M-1-12 |
| 1.2 | 6 | 1.8 | 1.2 | 3 | 39 | 2 | 210.128.30-1.2-6 | 210.128.30M-1.2-6 |
| 1.2 | 9 | 1.8 | 1.2 | 3 | 39 | 2 | 210.128.30-1.2-9 | 210.128.30M-1.2-9 |
| 1.2 | 12 | 1.8 | 1.2 | 3 | 39 | 2 | 210.128.30-1.2-12 | 210.128.30M-1.2-12 |
| 1.4 | 6 | 2.1 | 1.4 | 3 | 39 | 2 | 210.128.30-1.4-6 | 210.128.30M-1.4-6 |
| 1.4 | 9 | 2.1 | 1.4 | 3 | 39 | 2 | 210.128.30-1.4-9 | 210.128.30M-1.4-9 |
| 1.5 | 6 | 2.25 | 1.5 | 3 | 39 | 2 | 210.128.30-1.5-6 | 210.128.30M-1.5-6 |
| 1.5 | 9 | 2.25 | 1.5 | 3 | 39 | 2 | 210.128.30-1.5-9 | 210.128.30M-1.5-9 |
| 1.5 | 12 | 2.25 | 1.5 | 3 | 39 | 2 | 210.128.30-1.5-12 | 210.128.30M-1.5-12 |
| 1.8 | 9 | 2.7 | 1.8 | 3 | 39 | 2 | 210.128.30-1.8-9 | 210.128.30M-1.8-9 |
| 1.8 | 12 | 2.7 | 1.8 | 3 | 39 | 2 | 210.128.30-1.8-12 | 210.128.30M-1.8-12 |
| 2 | 9 | 3 | 2 | 3 | 39 | 2 | 210.128.30-2-9 | 210.128.30M-2-9 |
| 2 | 12 | 3 | 2 | 3 | 39 | 2 | 210.128.30-2-12 | 210.128.30M-2-12 |

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MICRO fraises

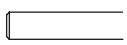

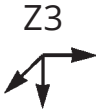
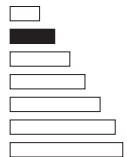
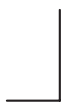
میکروفِرزها

میکروفِرزها

Mikro Fräser

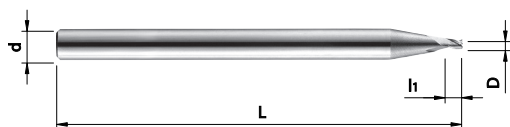
Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|---|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 3 | 1 | 3 | 0 | M | 210.131.30 | 210.131.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese |  |  | Z3  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | PSNM | | |

gamme élargie

دارای مدل های مختلف



SATIS
micro



$l_1 = 1.3 \times D$

Type N

Norme SATIS

| $D_{\pm 0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|----------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 3 | 0.4 | 39 | 3 | 210.131.30-0.3 | 210.131.30M-0.3 |
| 0.35 | 3 | 0.5 | 39 | 3 | 210.131.30-0.35 | 210.131.30M-0.35 |
| 0.4 | 3 | 0.5 | 39 | 3 | 210.131.30-0.4 | 210.131.30M-0.4 |
| 0.45 | 3 | 0.6 | 39 | 3 | 210.131.30-0.45 | 210.131.30M-0.45 |
| 0.5 | 3 | 0.7 | 39 | 3 | 210.131.30-0.5 | 210.131.30M-0.5 |
| 0.6 | 3 | 0.8 | 39 | 3 | 210.131.30-0.6 | 210.131.30M-0.6 |
| 0.7 | 3 | 0.9 | 39 | 3 | 210.131.30-0.7 | 210.131.30M-0.7 |
| 0.8 | 3 | 1 | 39 | 3 | 210.131.30-0.8 | 210.131.30M-0.8 |
| 0.9 | 3 | 1.3 | 39 | 3 | 210.131.30-0.9 | 210.131.30M-0.9 |
| 1 | 3 | 1.3 | 39 | 3 | 210.131.30-1 | 210.131.30M-1 |
| 1.1 | 3 | 1.5 | 39 | 3 | 210.131.30-1.1 | 210.131.30M-1.1 |
| 1.2 | 3 | 1.6 | 39 | 3 | 210.131.30-1.2 | 210.131.30M-1.2 |
| 1.4 | 3 | 1.8 | 39 | 3 | 210.131.30-1.4 | 210.131.30M-1.4 |
| 1.5 | 3 | 2 | 39 | 3 | 210.131.30-1.5 | 210.131.30M-1.5 |
| 1.6 | 3 | 2 | 39 | 3 | 210.131.30-1.6 | 210.131.30M-1.6 |
| 1.8 | 3 | 2.4 | 39 | 3 | 210.131.30-1.8 | 210.131.30M-1.8 |
| 2 | 3 | 2.6 | 39 | 3 | 210.131.30-2 | 210.131.30M-2 |
| 2.5 | 3 | 3.3 | 39 | 3 | 210.131.30-2.5 | 210.131.30M-2.5 |

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مشخصات فنی

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MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

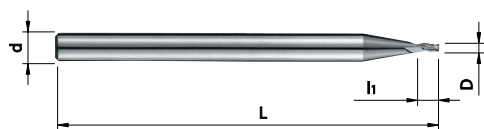
Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|--------|---|---|--|---|------------|-------------|
| 2 | 1 | 0 | 1 | 3 | 2 | 3 | 0 | M | 210.132.30 | 210.132.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z3 | | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | |

gamme élargie

دارای مدل های مختلف



SATIS
micro



$l_1 = 2 \times D$

Type N

Norme SATIS

| $D_{\pm 0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|----------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 3 | 0.6 | 39 | 3 | 210.132.30-0.3 | 210.132.30M-0.3 |
| 0.35 | 3 | 0.7 | 39 | 3 | 210.132.30-0.35 | 210.132.30M-0.35 |
| 0.4 | 3 | 0.8 | 39 | 3 | 210.132.30-0.4 | 210.132.30M-0.4 |
| 0.45 | 3 | 0.9 | 39 | 3 | 210.132.30-0.45 | 210.132.30M-0.45 |
| 0.5 | 3 | 1 | 39 | 3 | 210.132.30-0.5 | 210.132.30M-0.5 |
| 0.6 | 3 | 1.2 | 39 | 3 | 210.132.30-0.6 | 210.132.30M-0.6 |
| 0.7 | 3 | 1.4 | 39 | 3 | 210.132.30-0.7 | 210.132.30M-0.7 |
| 0.8 | 3 | 1.6 | 39 | 3 | 210.132.30-0.8 | 210.132.30M-0.8 |
| 0.9 | 3 | 1.8 | 39 | 3 | 210.132.30-0.9 | 210.132.30M-0.9 |
| 1 | 3 | 2 | 39 | 3 | 210.132.30-1 | 210.132.30M-1 |
| 1.1 | 3 | 2.2 | 39 | 3 | 210.132.30-1.1 | 210.132.30M-1.1 |
| 1.2 | 3 | 2.4 | 39 | 3 | 210.132.30-1.2 | 210.132.30M-1.2 |
| 1.3 | 3 | 2.6 | 39 | 3 | 210.132.30-1.3 | 210.132.30M-1.3 |
| 1.4 | 3 | 2.8 | 39 | 3 | 210.132.30-1.4 | 210.132.30M-1.4 |
| 1.5 | 3 | 3 | 39 | 3 | 210.132.30-1.5 | 210.132.30M-1.5 |
| 1.6 | 3 | 3.2 | 39 | 3 | 210.132.30-1.6 | 210.132.30M-1.6 |
| 1.7 | 3 | 3.4 | 39 | 3 | 210.132.30-1.7 | 210.132.30M-1.7 |
| 1.8 | 3 | 3.6 | 39 | 3 | 210.132.30-1.8 | 210.132.30M-1.8 |
| 1.9 | 3 | 3.8 | 39 | 3 | 210.132.30-1.9 | 210.132.30M-1.9 |
| 2 | 3 | 4 | 39 | 3 | 210.132.30-2 | 210.132.30M-2 |

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مشخصات فنی

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MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|--|---|---|----|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 3 | 5 | 3 | 0 | M | 210.135.30 | 210.135.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |

gamme élargie

دارای مدل های مختلف



SATIS
micro



$l_1 = 3 \times D$

Type N

Norme SATIS

| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 3 | 0.9 | 39 | 3 | 210.135.30-0.3 | 210.135.30M-0.3 |
| 0.4 | 3 | 1.2 | 39 | 3 | 210.135.30-0.4 | 210.135.30M-0.4 |
| 0.45 | 3 | 1.2 | 39 | 3 | 210.135.30-0.45 | 210.135.30M-0.45 |
| 0.5 | 3 | 1.5 | 39 | 3 | 210.135.30-0.5 | 210.135.30M-0.5 |
| 0.55 | 3 | 1.5 | 39 | 3 | 210.135.30-0.55 | 210.135.30M-0.55 |
| 0.6 | 3 | 2 | 39 | 3 | 210.135.30-0.6 | 210.135.30M-0.6 |
| 0.65 | 3 | 2 | 39 | 3 | 210.135.30-0.65 | 210.135.30M-0.65 |
| 0.7 | 3 | 2 | 39 | 3 | 210.135.30-0.7 | 210.135.30M-0.7 |
| 0.75 | 3 | 2 | 39 | 3 | 210.135.30-0.75 | 210.135.30M-0.75 |
| 0.8 | 3 | 2.5 | 39 | 3 | 210.135.30-0.8 | 210.135.30M-0.8 |
| 0.85 | 3 | 2.5 | 39 | 3 | 210.135.30-0.85 | 210.135.30M-0.85 |
| 0.9 | 3 | 2.5 | 39 | 3 | 210.135.30-0.9 | 210.135.30M-0.9 |
| 0.95 | 3 | 2.5 | 39 | 3 | 210.135.30-0.95 | 210.135.30M-0.95 |
| 1 | 3 | 3 | 39 | 3 | 210.135.30-1 | 210.135.30M-1 |
| 1.05 | 3 | 3 | 39 | 3 | 210.135.30-1.05 | 210.135.30M-1.05 |
| 1.1 | 3 | 3.3 | 39 | 3 | 210.135.30-1.1 | 210.135.30M-1.1 |
| 1.15 | 3 | 3.3 | 39 | 3 | 210.135.30-1.15 | 210.135.30M-1.15 |
| 1.2 | 3 | 4 | 39 | 3 | 210.135.30-1.2 | 210.135.30M-1.2 |
| 1.25 | 3 | 4 | 39 | 3 | 210.135.30-1.25 | 210.135.30M-1.25 |
| 1.3 | 3 | 4 | 39 | 3 | 210.135.30-1.3 | 210.135.30M-1.3 |
| 1.35 | 3 | 4 | 39 | 3 | 210.135.30-1.35 | 210.135.30M-1.35 |
| 1.4 | 3 | 4 | 39 | 3 | 210.135.30-1.4 | 210.135.30M-1.4 |
| 1.45 | 3 | 4 | 39 | 3 | 210.135.30-1.45 | 210.135.30M-1.45 |
| 1.5 | 3 | 4.5 | 39 | 3 | 210.135.30-1.5 | 210.135.30M-1.5 |
| 1.6 | 3 | 4.5 | 39 | 3 | 210.135.30-1.6 | 210.135.30M-1.6 |
| 1.7 | 3 | 5 | 39 | 3 | 210.135.30-1.7 | 210.135.30M-1.7 |



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MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|--------|---|---|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 3 | 5 | 3 | 0 | M | 210.135.30 | 210.135.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z3 | | | | PSNM | | |

gamme élargie

دارای مدل های مختلف



SATIS
micro



$l_1 = 3 \times D$

Type N

Norme SATIS

| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 1.8 | 3 | 6 | 39 | 3 | 210.135.30-1.8 | 210.135.30AM-1.8 |
| 1.9 | 3 | 6 | 39 | 3 | 210.135.30-1.9 | 210.135.30AM-1.9 |
| 2 | 3 | 6 | 39 | 3 | 210.135.30-2 | 210.135.30AM-2 |
| 2.1 | 3 | 6 | 39 | 3 | 210.135.30-2.1 | 210.135.30AM-2.1 |
| 2.2 | 3 | 6.5 | 39 | 3 | 210.135.30-2.2 | 210.135.30AM-2.2 |
| 2.3 | 3 | 7 | 39 | 3 | 210.135.30-2.3 | 210.135.30AM-2.3 |
| 2.4 | 3 | 7 | 39 | 3 | 210.135.30-2.4 | 210.135.30AM-2.4 |
| 2.5 | 3 | 7.5 | 39 | 3 | 210.135.30-2.5 | 210.135.30AM-2.5 |
| 2.6 | 3 | 7.5 | 39 | 3 | 210.135.30-2.6 | 210.135.30AM-2.6 |
| 2.7 | 3 | 8 | 39 | 3 | 210.135.30-2.7 | 210.135.30AM-2.7 |
| 2.8 | 3 | 8 | 39 | 3 | 210.135.30-2.8 | 210.135.30AM-2.8 |
| 2.9 | 3 | 8.5 | 39 | 3 | 210.135.30-2.9 | 210.135.30AM-2.9 |



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MICRO fraises

میکروفِرزها

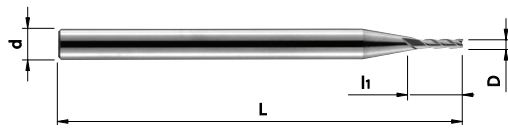
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|--------|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 1 | 3 | 6 | 3 | 0 | M | 210.136.30 | 210.136.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 5 \times D$
Type N
Norme SATIS

| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.5 | 3 | 2.5 | 39 | 3 | 210.136.30-0.5 | 210.136.30M-0.5 |
| 0.6 | 3 | 3 | 39 | 3 | 210.136.30-0.6 | 210.136.30M-0.6 |
| 0.7 | 3 | 3.5 | 39 | 3 | 210.136.30-0.7 | 210.136.30M-0.7 |
| 0.8 | 3 | 4 | 39 | 3 | 210.136.30-0.8 | 210.136.30M-0.8 |
| 0.9 | 3 | 4.5 | 39 | 3 | 210.136.30-0.9 | 210.136.30M-0.9 |
| 1 | 3 | 5 | 39 | 3 | 210.136.30-1 | 210.136.30M-1 |
| 1.2 | 3 | 6 | 39 | 3 | 210.136.30-1.2 | 210.136.30M-1.2 |
| 1.5 | 3 | 7.5 | 39 | 3 | 210.136.30-1.5 | 210.136.30M-1.5 |
| 2 | 3 | 10 | 39 | 3 | 210.136.30-2 | 210.136.30M-2 |

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Tech

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MICRO fraises

میکروفِرزها

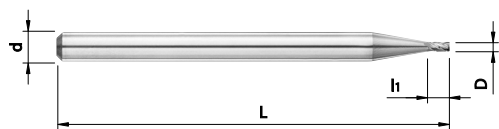
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|--------|---|---|----|------|-------------|--------------|
| 2 | 1 | 0 | 1 | 4 | 2 | 6 | 00 | M | 210.142.600 | 210.142.600M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z4 | | $\lambda 38^\circ$ $\gamma \sim 5^\circ$ | | PSNM | | |



VARIA
cut

جدید **nouveau**

$l_1 = 2 \times D$

Type NS

Norme SATIS



| $D_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 3 | 0.6 | 39 | 4 | 210.142.600-0.3 | 210.142.600M-0.3 |
| 0.4 | 3 | 0.8 | 39 | 4 | 210.142.600-0.4 | 210.142.600M-0.4 |
| 0.5 | 3 | 1 | 39 | 4 | 210.142.600-0.5 | 210.142.600M-0.5 |
| 0.6 | 3 | 1.2 | 39 | 4 | 210.142.600-0.6 | 210.142.600M-0.6 |
| 0.8 | 3 | 1.6 | 39 | 4 | 210.142.600-0.8 | 210.142.600M-0.8 |
| 1 | 3 | 2 | 39 | 4 | 210.142.600-1 | 210.142.600M-1 |
| 1.2 | 3 | 2.4 | 39 | 4 | 210.142.600-1.2 | 210.142.600M-1.2 |
| 1.5 | 3 | 3 | 39 | 4 | 210.142.600-1.5 | 210.142.600M-1.5 |
| 1.8 | 3 | 3.6 | 39 | 4 | 210.142.600-1.8 | 210.142.600M-1.8 |
| 2 | 3 | 4 | 39 | 4 | 210.142.600-2 | 210.142.600M-2 |

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FRAISES 3D

فِرْزِهَا

Fräser

End mills

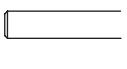
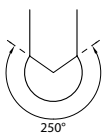
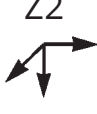
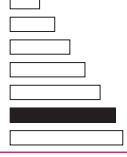
Frese

فِرْزِهَا

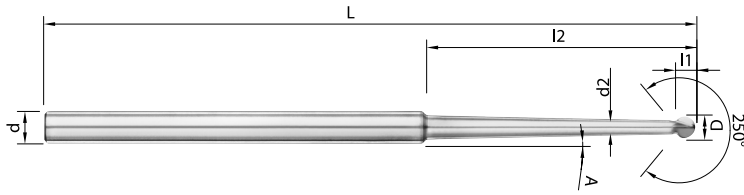
Fräser

End mills

Frese

| | | | | | | | | |
|-------------------|---|---|---|---|---|---|---|-------|
| 1 | 2 | 0 | 0 | 2 | 7 | 2 | 0 | S |
| MD HM/SC MG | فِرْزِهَا Fräser End mills Frese |  |  | Z2  |  | $\lambda 15^\circ$ $\gamma \sim 3^\circ$ | | AITiN |

120.027.20S



SATIS
méga

جديد **nouveau**



Type HSC
Norme SATIS

| D_{f8} | R | l_1 | $d_{2+0/-0.02}$ | A | l_2 | d_{h5} | L | Z | Revêtu AITiN با روکش |
|----------|------|--------|-----------------|-------|-------|----------|-----|---|-------------------------|
| 1 | 0.5 | (0.79) | 0.7 | 1.5° | 20 | 3 | 60 | 2 | 120.027.20S-1 |
| 1.2 | 0.6 | (0.94) | 0.8 | 1.5° | 20 | 3 | 60 | 2 | 120.027.20S-1.2 |
| 1.4 | 0.7 | (1.10) | 0.9 | 1.5° | 22 | 3 | 60 | 2 | 120.027.20S-1.4 |
| 1.5 | 0.75 | (1.18) | 1 | 1.5° | 22 | 3 | 60 | 2 | 120.027.20S-1.5 |
| 1.6 | 0.8 | (1.26) | 1.2 | 1.5° | 22 | 3 | 60 | 2 | 120.027.20S-1.6 |
| 1.8 | 0.9 | (1.42) | 1.3 | 1.5° | 25 | 3 | 60 | 2 | 120.027.20S-1.8 |
| 2 | 1 | (1.57) | 1.35 | 1.5° | 25 | 3 | 60 | 2 | 120.027.20S-2 |
| 2 | 1 | (1.57) | 1.35 | 1.5° | 25 | 6 | 80 | 2 | 120.027.20S-2 |
| 3 | 1.5 | (2.36) | 2.3 | 1.5° | 30 | 6 | 80 | 2 | 120.027.20S-3 |
| 4 | 2 | (3.15) | 3.1 | 2.5° | 35 | 6 | 80 | 2 | 120.027.20S-4 |
| 5 | 2.5 | (3.93) | 3.85 | 1.5° | 45.5 | 6 | 90 | 2 | 120.027.20S-5 |
| 6 | 3 | (4.72) | 4.26 | 0.75° | 50 | 6 | 100 | 2 | 120.027.20S-6 |

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مشخصات فنی

>>> p 140

MICRO fraises

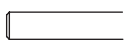
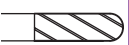
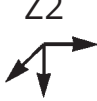
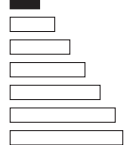

میکروفِرزها

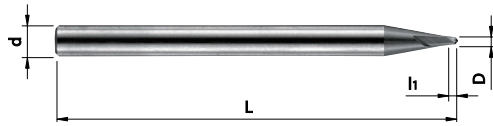
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 2 | 2 | 0 | 3 | 0 | M | 210.220.30 | 210.220.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese |  |  | Z2  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | PSNM | | |



SATIS
micro



$l_1 = 0.75 \times D$

Type N

Norme SATIS

| D | $R_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|-----|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.3 | 0.15 | 3 | 0.25 | 39 | 2 | 210.220.30-0.3 | 210.220.30M-0.3 |
| 0.4 | 0.2 | 3 | 0.3 | 39 | 2 | 210.220.30-0.4 | 210.220.30M-0.4 |
| 0.5 | 0.25 | 3 | 0.37 | 39 | 2 | 210.220.30-0.5 | 210.220.30M-0.5 |
| 0.6 | 0.3 | 3 | 0.45 | 39 | 2 | 210.220.30-0.6 | 210.220.30M-0.6 |
| 0.8 | 0.4 | 3 | 0.6 | 39 | 2 | 210.220.30-0.8 | 210.220.30M-0.8 |
| 1 | 0.5 | 3 | 0.75 | 39 | 2 | 210.220.30-1 | 210.220.30M-1 |

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MICRO fraises

میکروفِرزها

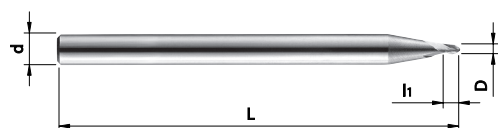
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|----|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 2 | 2 | 1 | 3 | 0 | M | 210.221.30 | 210.221.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 1.5 \times D$

Type N

Norme SATIS

| D | $R_{+0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|------|-------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.1 | 0.05 | 3 | 0.1 | 39 | 2 | 210.221.30-0.1 | |
| 0.15 | 0.075 | 3 | 0.2 | 39 | 2 | 210.221.30-0.15 | |
| 0.2 | 0.1 | 3 | 0.3 | 39 | 2 | 210.221.30-0.2 | 210.221.30M-0.2 |
| 0.25 | 0.125 | 3 | 0.35 | 39 | 2 | 210.221.30-0.25 | 210.221.30M-0.25 |
| 0.3 | 0.15 | 3 | 0.45 | 39 | 2 | 210.221.30-0.3 | 210.221.30M-0.3 |
| 0.4 | 0.2 | 3 | 0.6 | 39 | 2 | 210.221.30-0.4 | 210.221.30M-0.4 |
| 0.5 | 0.25 | 3 | 0.75 | 39 | 2 | 210.221.30-0.5 | 210.221.30M-0.5 |
| 0.6 | 0.3 | 3 | 0.9 | 39 | 2 | 210.221.30-0.6 | 210.221.30M-0.6 |
| 0.7 | 0.35 | 3 | 1.05 | 39 | 2 | 210.221.30-0.7 | 210.221.30M-0.7 |
| 0.8 | 0.4 | 3 | 1.2 | 39 | 2 | 210.221.30-0.8 | 210.221.30M-0.8 |
| 0.9 | 0.45 | 3 | 1.35 | 39 | 2 | 210.221.30-0.9 | 210.221.30M-0.9 |
| 1 | 0.5 | 3 | 1.5 | 39 | 2 | 210.221.30-1 | 210.221.30M-1 |
| 1.1 | 0.55 | 3 | 1.65 | 39 | 2 | 210.221.30-1.1 | 210.221.30M-1.1 |
| 1.2 | 0.6 | 3 | 1.8 | 39 | 2 | 210.221.30-1.2 | 210.221.30M-1.2 |
| 1.3 | 0.65 | 3 | 1.95 | 39 | 2 | 210.221.30-1.3 | 210.221.30M-1.3 |
| 1.4 | 0.7 | 3 | 2.1 | 39 | 2 | 210.221.30-1.4 | 210.221.30M-1.4 |
| 1.5 | 0.75 | 3 | 2.25 | 39 | 2 | 210.221.30-1.5 | 210.221.30M-1.5 |
| 1.6 | 0.8 | 3 | 2.4 | 39 | 2 | 210.221.30-1.6 | 210.221.30M-1.6 |
| 1.8 | 0.9 | 3 | 2.7 | 39 | 2 | 210.221.30-1.8 | 210.221.30M-1.8 |
| 2 | 1 | 3 | 3 | 39 | 2 | 210.221.30-2 | 210.221.30M-2 |

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Tech

مشخصات فنی

>>> p 140

MICRO fraises

میکروفِرزها

میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|----|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 2 | 2 | 5 | 3 | 0 | M | 210.225.30 | 210.225.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | PSNM | | |



SATIS
micro



$l_1 = 3 \times D$

Type N

Norme SATIS

| D | $R_{+/-0.01}$ | d_{h5} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|------|---------------|----------|-------|----|---|-------------------------|-----------------------------|
| 0.1 | 0.05 | 3 | 0.2 | 39 | 2 | 210.225.300.1 | |
| 0.15 | 0.075 | 3 | 0.3 | 39 | 2 | 210.225.300.15 | |
| 0.2 | 0.1 | 3 | 0.5 | 39 | 2 | 210.225.30-0.2 | 210.225.30M-0.2 |
| 0.25 | 0.125 | 3 | 0.5 | 39 | 2 | 210.225.30-0.25 | 210.225.30M-0.25 |
| 0.3 | 0.15 | 3 | 1 | 39 | 2 | 210.225.30-0.3 | 210.225.30M-0.3 |
| 0.35 | 0.175 | 3 | 1 | 39 | 2 | 210.225.30-0.35 | 210.225.30M-0.35 |
| 0.4 | 0.2 | 3 | 1 | 39 | 2 | 210.225.30-0.4 | 210.225.30M-0.4 |
| 0.5 | 0.25 | 3 | 1.5 | 39 | 2 | 210.225.30-0.5 | 210.225.30M-0.5 |
| 0.6 | 0.3 | 3 | 1.5 | 39 | 2 | 210.225.30-0.6 | 210.225.30M-0.6 |
| 0.7 | 0.35 | 3 | 2 | 39 | 2 | 210.225.30-0.7 | 210.225.30M-0.7 |
| 0.8 | 0.4 | 3 | 2 | 39 | 2 | 210.225.30-0.8 | 210.225.30M-0.8 |
| 0.9 | 0.45 | 3 | 2.5 | 39 | 2 | 210.225.30-0.9 | 210.225.30M-0.9 |
| 1 | 0.5 | 3 | 3 | 39 | 2 | 210.225.30-1 | 210.225.30M-1 |
| 1.1 | 0.55 | 3 | 3 | 39 | 2 | 210.225.30-1.1 | 210.225.30M-1.1 |
| 1.2 | 0.6 | 3 | 4 | 39 | 2 | 210.225.30-1.2 | 210.225.30M-1.2 |
| 1.4 | 0.7 | 3 | 4 | 39 | 2 | 210.225.30-1.4 | 210.225.30M-1.4 |
| 1.5 | 0.75 | 3 | 4 | 39 | 2 | 210.225.30-1.5 | 210.225.30M-1.5 |
| 1.6 | 0.8 | 3 | 4 | 39 | 2 | 210.225.30-1.6 | 210.225.30M-1.6 |
| 1.8 | 0.9 | 3 | 5 | 39 | 2 | 210.225.30-1.8 | 210.225.30M-1.8 |
| 2 | 1 | 3 | 5 | 39 | 2 | 210.225.30-2 | 210.225.30M-2 |
| 2.5 | 1.25 | 3 | 7 | 39 | 2 | 210.225.30-2.5 | 210.225.30M-2.5 |

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MICRO fraises

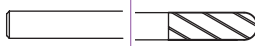
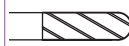

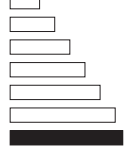

میکروفِرزها

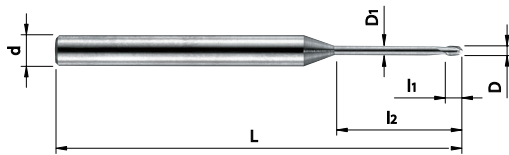
میکروفِرزها

Mikro Fräser

Micro end mills

Micro frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|------|------------|-------------|
| 2 | 1 | 0 | 2 | 2 | 8 | 3 | 0 | M | 210.228.30 | 210.228.30M |
| MD HM/SC MG KX10 | میکروفِرزها MIKRO Fräser MICRO end mills MICRO frese |  |  | Z2  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | PSNM | | |



SATIS
micro



$l_1 = 1.5 \times D$

Type N

Norme SATIS

| D | l_2 | $R_{+/-0.01}$ | l_1 | $D_{1-0.02/-0.05}$ | d_{h5} | L | Z | Non revêtu بدون روکش | Revêtu PSNM با روکش PSNM |
|-----|-------|---------------|-------|--------------------|----------|----|---|-------------------------|-----------------------------|
| 0.4 | 2 | 0.2 | 0.6 | 0.4 | 3 | 39 | 2 | 210.228.30-0.4-2 | 210.228.30M-0.4-2 |
| 0.4 | 4 | 0.2 | 0.6 | 0.4 | 3 | 39 | 2 | 210.228.30-0.4-4 | 210.228.30M-0.4-4 |
| 0.5 | 4 | 0.25 | 0.75 | 0.5 | 3 | 39 | 2 | 210.228.30-0.5-4 | 210.228.30M-0.5-4 |
| 0.5 | 6 | 0.25 | 0.75 | 0.5 | 3 | 39 | 2 | 210.228.30-0.5-6 | 210.228.30M-0.5-6 |
| 0.6 | 4 | 0.3 | 0.9 | 0.6 | 3 | 39 | 2 | 210.228.30-0.6-4 | 210.228.30M-0.6-4 |
| 0.6 | 6 | 0.3 | 0.9 | 0.6 | 3 | 39 | 2 | 210.228.30-0.6-6 | 210.228.30M-0.6-6 |
| 0.8 | 4 | 0.4 | 1.2 | 0.8 | 3 | 39 | 2 | 210.228.30-0.8-4 | 210.228.30M-0.8-4 |
| 0.8 | 6 | 0.4 | 1.2 | 0.8 | 3 | 39 | 2 | 210.228.30-0.8-6 | 210.228.30M-0.8-6 |
| 0.8 | 9 | 0.4 | 1.2 | 0.8 | 3 | 39 | 2 | 210.228.30-0.8-9 | 210.228.30M-0.8-9 |
| 1 | 6 | 0.5 | 1.5 | 1 | 3 | 39 | 2 | 210.228.30-1-6 | 210.228.30M-1-6 |
| 1 | 9 | 0.5 | 1.5 | 1 | 3 | 39 | 2 | 210.228.30-1-9 | 210.228.30M-1-9 |
| 1 | 12 | 0.5 | 1.5 | 1 | 3 | 39 | 2 | 210.228.30-1-12 | 210.228.30M-1-12 |
| 1.5 | 6 | 0.75 | 2.25 | 1.5 | 3 | 39 | 2 | 210.228.30-1.5-6 | 210.228.30M-1.5-6 |
| 1.5 | 9 | 0.75 | 2.25 | 1.5 | 3 | 39 | 2 | 210.228.30-1.5-9 | 210.228.30M-1.5-9 |
| 1.5 | 12 | 0.75 | 2.25 | 1.5 | 3 | 39 | 2 | 210.228.30-1.5-12 | 210.228.30M-1.5-12 |
| 2 | 9 | 1 | 3 | 2 | 3 | 39 | 2 | 210.228.30-2-9 | 210.228.30M-2-9 |
| 2 | 12 | 1 | 3 | 2 | 3 | 39 | 2 | 210.228.30-2-12 | 210.228.30M-2-12 |

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FRAISES

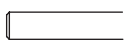

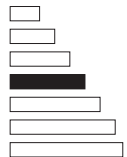
فرزها

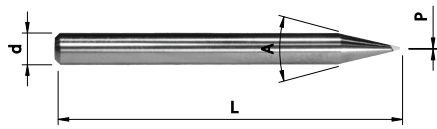
فرزهای حکاکی

Gravierfräser

Engraving mills

Frese a incidere

| | | | | | | | | | |
|----------------------------|---------------------------------------|---|---|----|---|------------------------------|----------|----------------|-----------------|
| 2 | 2 | 0 | 5 | 1 | 5 | | B | 220.515 | 220.515B |
| MD HM/SC MG KUF12 | فرزها Fräser End mills Frese |  |  | Z1 |  | 30° - 40° 50° - 60° - 90° | TiCN | | |



SATIS
cut

Norme SATIS

| Angle | Plat | d _{h5} | L | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN | Angle | Plat | d _{h5} | L | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN |
|-------|------|-----------------|-----------------|-------------------------|-----------------------------|-------|------|-----------------|-----------------|-------------------------|-----------------------------|
| 30° | 0.02 | 3 | 33 | 220.515-30-0.02 | 220.515B-30-0.02 | 50° | 0.06 | 3 | 33 | 220.515-50-0.06 | 220.515B-50-0.06 |
| | 0.04 | 3 | 33 | 220.515-30-0.04 | 220.515B-30-0.04 | | 0.08 | 3 | 33 | 220.515-50-0.08 | 220.515B-50-0.08 |
| | 0.05 | 3 | 33 | 220.515-30-0.05 | 220.515B-30-0.05 | | 0.1 | 3 | 33 | 220.515-50-0.1 | 220.515B-50-0.1 |
| | 0.06 | 3 | 33 | 220.515-30-0.06 | 220.515B-30-0.06 | | 0.12 | 3 | 33 | 220.515-50-0.12 | 220.515B-50-0.12 |
| | 0.08 | 3 | 33 | 220.515-30-0.08 | 220.515B-30-0.08 | | 0.15 | 3 | 33 | 220.515-50-0.15 | 220.515B-50-0.15 |
| | 0.1 | 3 | 33 | 220.515-30-0.1 | 220.515B-30-0.1 | | 0.2 | 3 | 33 | 220.515-50-0.2 | 220.515B-50-0.2 |
| | 0.12 | 3 | 33 | 220.515-30-0.12 | 220.515B-30-0.12 | | 60° | 0.02 | 3 | 33 | 220.515-60-0.02 |
| 0.15 | 3 | 33 | 220.515-30-0.15 | 220.515B-30-0.15 | 0.04 | 3 | | 33 | 220.515-60-0.04 | 220.515B-60-0.04 | |
| 0.2 | 3 | 33 | 220.515-30-0.2 | 220.515B-30-0.2 | 0.05 | 3 | | 33 | 220.515-60-0.05 | 220.515B-60-0.05 | |
| 40° | 0.02 | 3 | 33 | 220.515-40-0.02 | 220.515B-40-0.02 | 0.06 | | 3 | 33 | 220.515-60-0.06 | 220.515B-60-0.06 |
| | 0.04 | 3 | 33 | 220.515-40-0.04 | 220.515B-40-0.04 | 0.08 | | 3 | 33 | 220.515-60-0.08 | 220.515B-60-0.08 |
| | 0.05 | 3 | 33 | 220.515-40-0.05 | 220.515B-40-0.05 | 0.1 | 3 | 33 | 220.515-60-0.1 | 220.515B-60-0.1 | |
| | 0.06 | 3 | 33 | 220.515-40-0.06 | 220.515B-40-0.06 | 0.12 | 3 | 33 | 220.515-60-0.12 | 220.515B-60-0.12 | |
| | 0.08 | 3 | 33 | 220.515-40-0.08 | 220.515B-40-0.08 | 0.15 | 3 | 33 | 220.515-60-0.15 | 220.515B-60-0.15 | |
| | 0.1 | 3 | 33 | 220.515-40-0.1 | 220.515B-40-0.1 | 0.2 | 3 | 33 | 220.515-60-0.2 | 220.515B-60-0.2 | |
| | 0.12 | 3 | 33 | 220.515-40-0.12 | 220.515B-40-0.12 | 90° | 0.02 | 3 | 33 | 220.515-90-0.02 | 220.515B-90-0.02 |
| 0.15 | 3 | 33 | 220.515-40-0.15 | 220.515B-40-0.15 | 0.05 | | 3 | 33 | 220.515-90-0.05 | 220.515B-90-0.05 | |
| 0.2 | 3 | 33 | 220.515-40-0.2 | 220.515B-40-0.2 | 0.1 | | 3 | 33 | 220.515-90-0.1 | 220.515B-90-0.1 | |
| 50° | 0.02 | 3 | 33 | 220.515-50-0.02 | 220.515B-50-0.02 | | | | | | |
| | 0.04 | 3 | 33 | 220.515-50-0.04 | 220.515B-50-0.04 | | | | | | |
| | 0.05 | 3 | 33 | 220.515-50-0.05 | 220.515B-50-0.05 | | | | | | |

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FRAISES



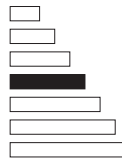
فرزها

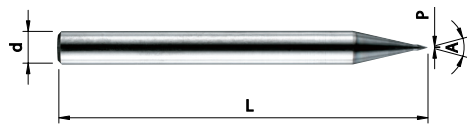
فرزهای حکاکی

Gravierfräser

Engraving mills

Frese a incidere

| | | | | | | | | | | | | |
|----------------------------|---------------------------------------|---|---|----|---|------------------------------|--|------|-----|---------|----------|----------|
| 2 | 2 | 0 | 5 | 1 | 6 | | | B | L | 220.516 | 220.516B | 220.516L |
| MD HM/SC MG KUF12 | فرزها Fräser End mills Frese |  |  | Z1 |  | 30° - 35° 40° - 50° - 60° | | TiCN | DLC | | | |



SATIS
star

Série renforcée

Norme SATIS

| Angle | Plat | d_{h5} | L | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN | Revêtu DLC با روکش DLC |
|-------|-------|----------|----|-------------------------|-----------------------------|---------------------------|
| 30° | 0.05 | 3 | 33 | 220.516-30-0.05 | 220.516B-30-0.05 | 220.516L-30-0.05 |
| | 0.06 | 3 | 33 | 220.516-30-0.06 | 220.516B-30-0.06 | 220.516L-30-0.06 |
| | 0.075 | 3 | 33 | 220.516-30-0.075 | 220.516B-30-0.075 | 220.516L-30-0.075 |
| | 0.1 | 3 | 33 | 220.516-30-0.1 | 220.516B-30-0.1 | 220.516L-30-0.1 |
| | 0.125 | 3 | 33 | 220.516-30-0.125 | 220.516B-30-0.125 | 220.516L-30-0.125 |
| 35° | 0.05 | 3 | 33 | 220.516-35-0.05 | 220.516B-35-0.05 | 220.516L-35-0.05 |
| | 0.075 | 3 | 33 | 220.516-35-0.075 | 220.516B-35-0.075 | 220.516L-35-0.075 |
| | 0.1 | 3 | 33 | 220.516-35-0.1 | 220.516B-35-0.1 | 220.516L-35-0.1 |
| | 0.125 | 3 | 33 | 220.516-35-0.125 | 220.516B-35-0.125 | 220.516L-35-0.125 |
| 40° | 0.05 | 3 | 33 | 220.516-40-0.05 | 220.516B-40-0.05 | 220.516L-40-0.05 |
| | 0.075 | 3 | 33 | 220.516-40-0.075 | 220.516B-40-0.075 | 220.516L-40-0.075 |
| | 0.1 | 3 | 33 | 220.516-40-0.1 | 220.516B-40-0.1 | 220.516L-40-0.1 |
| | 0.125 | 3 | 33 | 220.516-40-0.125 | 220.516B-40-0.125 | 220.516L-40-0.125 |
| 50° | 0.05 | 3 | 33 | 220.516-50-0.05 | 220.516B-50-0.05 | 220.516L-50-0.05 |
| | 0.075 | 3 | 33 | 220.516-50-0.075 | 220.516B-50-0.075 | 220.516L-50-0.075 |
| | 0.1 | 3 | 33 | 220.516-50-0.1 | 220.516B-50-0.1 | 220.516L-50-0.1 |
| | 0.125 | 3 | 33 | 220.516-50-0.125 | 220.516B-50-0.125 | 220.516L-50-0.125 |
| 60° | 0.05 | 3 | 33 | 220.516-60-0.05 | 220.516B-60-0.05 | 220.516L-60-0.05 |
| | 0.075 | 3 | 33 | 220.516-60-0.075 | 220.516B-60-0.075 | 220.516L-60-0.075 |
| | 0.1 | 3 | 33 | 220.516-60-0.1 | 220.516B-60-0.1 | 220.516L-60-0.1 |
| | 0.125 | 3 | 33 | 220.516-60-0.125 | 220.516B-60-0.125 | 220.516L-60-0.125 |

INEO
Tech
مشخصات فنی
>>> p 140

FRAISES

فرزها

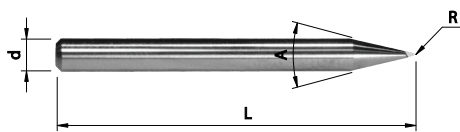
فرزهای حکاکی

Gravierfräser

Engraving mills

Frese a incidere

| | | | | | | | | | |
|----------------------------|---------------------------------------|---|---|----|---|------------------------|----------|---------|----------|
| 2 | 2 | 0 | 6 | 1 | 5 | | B | 220.615 | 220.615B |
| MD HM/SC MG KUF12 | فرزها Fräser End mills Frese | | | Z1 | | 30° - 40° 50° - 60° | TiCN | | |



SATIS
cut

Norme SATIS

| Angle | Rayon | d_{h5} | L | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN |
|-------|-------|----------|----|-------------------------|-----------------------------|
| 30° | 0.04 | 3 | 33 | 220.615-30-0.04 | 220.615B-30-0.04 |
| | 0.05 | 3 | 33 | 220.615-30-0.05 | 220.615B-30-0.05 |
| | 0.07 | 3 | 33 | 220.615-30-0.07 | 220.615B-30-0.07 |
| | 0.1 | 3 | 33 | 220.615-30-0.1 | 220.615B-30-0.1 |
| 40° | 0.04 | 3 | 33 | 220.615-40-0.04 | 220.615B-40-0.04 |
| | 0.05 | 3 | 33 | 220.615-40-0.05 | 220.615B-40-0.05 |
| | 0.07 | 3 | 33 | 220.615-40-0.07 | 220.615B-40-0.07 |
| | 0.1 | 3 | 33 | 220.615-40-0.1 | 220.615B-40-0.1 |
| 50° | 0.04 | 3 | 33 | 220.615-50-0.04 | 220.615B-50-0.04 |
| | 0.05 | 3 | 33 | 220.615-50-0.05 | 220.615B-50-0.05 |
| | 0.07 | 3 | 33 | 220.615-50-0.07 | 220.615B-50-0.07 |
| | 0.1 | 3 | 33 | 220.615-50-0.1 | 220.615B-50-0.1 |
| 60° | 0.04 | 3 | 33 | 220.615-60-0.04 | 220.615B-60-0.04 |
| | 0.05 | 3 | 33 | 220.615-60-0.05 | 220.615B-60-0.05 |
| | 0.07 | 3 | 33 | 220.615-60-0.07 | 220.615B-60-0.07 |
| | 0.1 | 3 | 33 | 220.615-60-0.1 | 220.615B-60-0.1 |

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Tech

مشخصات فنی

>>> p 140



Fraises
d'ébauche
فرزهای مخصوص
خشن کاری




SATIS
TOOL

FRAISES

فرزها

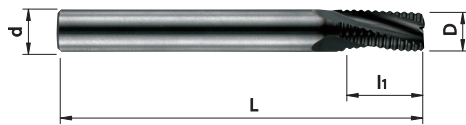
فرزهای مخصوص
خشن کاری

Schruppfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|------------|---|---|----|-------|-------------|--------------|
| 2 | 2 | 0 | 1 | 5 | 3 | 2 | 72 | S | 220.153.272 | 220.153.272S |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z3 - 4 | | $\lambda 20^\circ$ $\gamma \sim 6^\circ$ | | AITiN | | |



SATIS
star



gamme élargie

دارای مدل های مختلف

Type HR

Norme SATIS

| D | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu AITiN با روکش AITiN |
|-----|-----------------|----------------|----|---|-------------------------|-------------------------------|
| 2 | 3 | 4 | 38 | 3 | 220.153.272-2 | 220.153.272S-2 |
| 2.5 | 6 | 5 | 50 | 3 | 220.153.272-2.5 | 220.153.272S-2.5 |
| 3 | 6 | 6 | 50 | 3 | | 220.153.272S-3 |
| 4 | 6 | 7 | 50 | 3 | | 220.153.272S-4 |
| 5 | 6 | 8 | 50 | 3 | | 220.153.272S-5 |
| 6 | 6 | 10 | 50 | 3 | | 220.153.272S-6 |
| 8 | 8 | 12 | 58 | 3 | | 220.153.272S-8 |
| 10 | 10 | 14 | 66 | 4 | | 220.153.272S-10 |

INFO
Tech
مشخصات فنی

>>> p 141

FRAISES

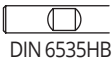
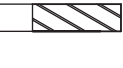

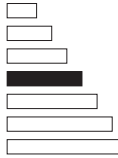

فرزها

فرزهای مخصوص
خشن کاری

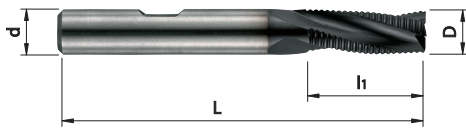
Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | |
|------------------------|---------------------------------------|---|---|---|---|---|---|-------|
| 2 | 2 | 1 | 1 | 5 | 5 | 2 | 72 | S |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese |  |  | Z3 - 4  |  | $\lambda 20^\circ$ $\gamma \sim 6^\circ$ |  | AlTiN |

221.155.272S



SATIS
star



Type HR
ISO 10911

| D | d _{h6} | l ₁ | L | Z | Revêtu AlTiN باروکش |
|------|-----------------|----------------|-----|---|------------------------|
| 4 | 6 | 12 | 57 | 3 | 221.155.272S-4 |
| 5 | 6 | 13 | 57 | 3 | 221.155.272S-5 |
| 6 | 6 | 16 | 57 | 3 | 221.155.272S-6 |
| 7 * | 8 | 16 | 63 | 3 | 221.155.272S-7 |
| 8 | 8 | 19 | 63 | 3 | 221.155.272S-8 |
| 9 * | 10 | 19 | 72 | 3 | 221.155.272S-9 |
| 10 * | 10 | 22 | 72 | 4 | 221.155.272S-10 |
| 12 | 12 | 26 | 83 | 4 | 221.155.272S-12 |
| 14 | 14 | 26 | 83 | 4 | 221.155.272S-14 |
| 16 | 16 | 32 | 92 | 4 | 221.155.272S-16 |
| 18 * | 18 | 32 | 92 | 4 | 221.155.272S-18 |
| 20 | 20 | 38 | 104 | 4 | 221.155.272S-20 |

* Livrable avec revêtement TiAlN X jusqu'à épaisseur du stock

* قابل تحویل با پوشش TiAlN X تا اتمام موجودی انبار.

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مشخصات فنی
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FRAISES

فرزها

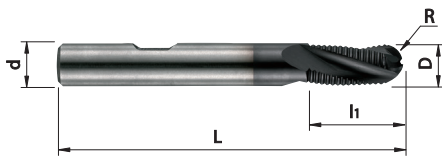
فرزهای مخصوص
خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | |
|------------------------|---------------------------------------|------------|--------|---|-------|---|----|---|--------------|
| 2 | 2 | 1 | 2 | 5 | 5 | 2 | 72 | S | 221.255.272S |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | DIN 6535HB | Z3 - 4 | $\lambda 20^\circ$ $\gamma \sim 6^\circ$ | ALTiN | | | | |



SATIS
star



Type HR
ISO 10911

| D | R | d _{h6} | l ₁ | L | Z | Revêtu ALTiN ALTiN باروکش |
|----|-----|-----------------|----------------|----|---|------------------------------|
| 4 | 2 | 6 | 11 | 57 | 3 | 221.255.272S-4 |
| 5 | 2.5 | 6 | 13 | 57 | 3 | 221.255.272S-5 |
| 6 | 3 | 6 | 13 | 57 | 3 | 221.255.272S-6 |
| 8 | 4 | 8 | 16 | 63 | 3 | 221.255.272S-8 |
| 10 | 5 | 10 | 22 | 72 | 4 | 221.255.272S-10 |

Livable avec revêtement TiAlN X jusqu'à épuisement du stock

* قابل تحویل با پوشش آلتین X تا تمام شدن موجودی انبار.

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FRAISES

فرزها

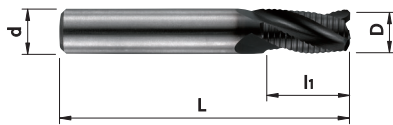
فرزهای مخصوص
خشن کاری

Schruppfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | |
|------------------------|---------------------------------------|---|---|------------|---|---|----|-------|--------------|
| 2 | 2 | 0 | 1 | 5 | 3 | 2 | 32 | S | 220.153.232S |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z3 - 4 | | $\lambda 30^\circ$ $\gamma \sim 5^\circ$ | | AITiN | |



SATIS
star



Type HRS
Norme SATIS

| D | d _{h6} | l ₁ | L | Z | Revêtu AITiN پاروکش |
|----|-----------------|----------------|----|---|------------------------|
| 3 | 6 | 6 | 50 | 3 | 220.153.232S-3 |
| 4 | 6 | 7 | 50 | 3 | 220.153.232S-4 |
| 5 | 6 | 8 | 50 | 3 | 220.153.232S-5 |
| 6 | 6 | 10 | 50 | 3 | 220.153.232S-6 |
| 8 | 8 | 12 | 50 | 3 | 220.153.232S-8 |
| 10 | 10 | 14 | 66 | 4 | 220.153.232S-10 |
| 12 | 12 | 16 | 73 | 4 | 220.153.232S-12 |
| 16 | 16 | 20 | 82 | 4 | 220.153.232S-16 |

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مشخصات فنی
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FRAISES

فرزها

فرزهای مخصوص
خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

2

2

0

1

5

5

2

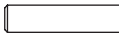
32

S

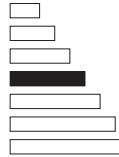
220.155.232S

MD
HM/SC
MG KX10

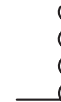
فرزها
Fräser
End mills
Frese



Z3 - 7



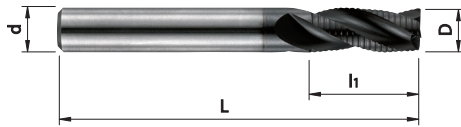
$\lambda 30^\circ$
 $\gamma \sim 5^\circ$



AITiN

gamme élargie

دارای مدل های مختلف



SATIS
star



Type HRS
Norme SATIS

| D | d _{h6} | l ₁ | L | Z | Revêtu AITiN AITiN باروکش |
|----|-----------------|----------------|-----|---|------------------------------|
| 3 | 6 | 10 | 57 | 3 | 220.155.232S-3 |
| 4 | 6 | 12 | 57 | 3 | 220.155.232S-4 |
| 5 | 6 | 13 | 57 | 3 | 220.155.232S-5 |
| 6 | 6 | 16 | 57 | 3 | 220.155.232S-6 |
| 8 | 8 | 19 | 63 | 3 | 220.155.232S-8 |
| 10 | 10 | 22 | 72 | 4 | 220.155.232S-10 |
| 12 | 12 | 26 | 83 | 4 | 220.155.232S-12 |
| 14 | 14 | 26 | 83 | 4 | 220.155.232S-14 |
| 16 | 16 | 32 | 92 | 4 | 220.155.232S-16 |
| 18 | 18 | 32 | 92 | 4 | 220.155.232S-18 |
| 20 | 20 | 38 | 104 | 4 | 220.155.232S-20 |
| 25 | 25 | 50 | 121 | 5 | 220.155.232S-25 |
| 32 | 32 | 50 | 140 | 7 | 220.155.232S-32 |

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Tech

مشخصات فنی

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FRAISES

فرزها

فرزهای مخصوص
خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

2

2

0

1

5

6

2

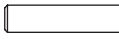
32

S

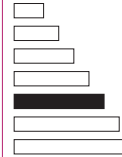
220.156.232S

MD
HM/SC
MG KX10

فرزها
Fräser
End mills
Frese



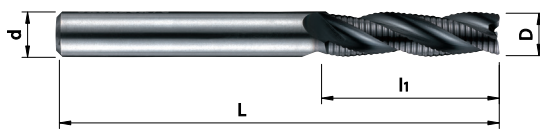
Z3 - 5



$\lambda 30^\circ$
 $\gamma \sim 5^\circ$



AlTiN



SATIS
star



Type HRS
Norme SATIS

| D | d _{h6} | l ₁ | L | Z | Revêtu AlTiN با روکش |
|----|-----------------|----------------|-----|---|-------------------------|
| 6 | 6 | 25 | 76 | 3 | 220.156.232S-6 |
| 8 | 8 | 28 | 76 | 3 | 220.156.232S-8 |
| 10 | 10 | 32 | 89 | 4 | 220.156.232S-10 |
| 12 | 12 | 45 | 100 | 4 | 220.156.232S-12 |
| 16 | 16 | 56 | 110 | 4 | 220.156.232S-16 |
| 20 | 20 | 56 | 125 | 4 | 220.156.232S-20 |
| 25 | 25 | 62 | 155 | 5 | 220.156.232S-25 |

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مشخصات فنی
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FRAISES

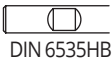
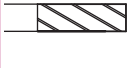
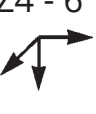
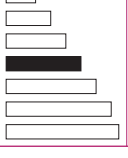

فرزها

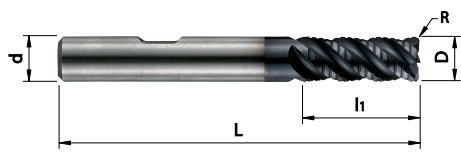
فرزهای مخصوص
خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | |
|------------------------|----------|---|---|---|---|--|---|-------|--------------|
| 2 | 3 | 1 | 1 | 5 | 5 | 2 | 42 | S | 231.155.242S |
| MD HM/SC MG KX10 | NEGATIVE |  |  | Z4 - 6  |  | $\lambda 45^\circ$ $\gamma \sim -6^\circ$ |  | AITiN | |



SATIS
dur



COUPE NEGATIVE
برش منفی

Type HRX
Norme SATIS

| D | R | d_{h6} | l_1 | L | Z | Revêtu AITiN باروکش AITiN |
|----|------|----------|-------|-----|---|------------------------------|
| 6 | 0.75 | 6 | 16 | 57 | 4 | 231.155.242S-6 |
| 8 | 0.75 | 8 | 19 | 63 | 4 | 231.155.242S-8 |
| 10 | 0.75 | 10 | 22 | 72 | 4 | 231.155.242S-10 |
| 12 | 1 | 12 | 26 | 83 | 4 | 231.155.242S-12 |
| 16 | 1 | 16 | 32 | 92 | 6 | 231.155.242S-16 |
| 20 | 1.25 | 20 | 38 | 104 | 6 | 231.155.242S-20 |
| 25 | 1.25 | 25 | 50 | 121 | 6 | 231.155.242S-25 |

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Fraises de finition

فرزهای
پرداخت کاری




SATIS
TOOL

FRAISES

فرزها

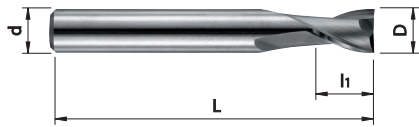
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|--------|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 2 | 1 | 3 | 0 | G | 220.121.30 | 220.121.30G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |



SATIS
cut



Type N
DIN 6527K

| D_{e8} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|----------|----------|-------|----|---|-------------------------|--------------------------------|
| 2 | 6 | 3 | 50 | 2 | 220.121.30-2 | 220.121.30G-2 |
| 2.5 | 6 | 4 | 50 | 2 | 220.121.30-2.5 | 220.121.30G-2.5 |
| 3 | 6 | 4 | 50 | 2 | 220.121.30-3 | 220.121.30G-3 |
| 4 | 6 | 5 | 54 | 2 | 220.121.30-4 | 220.121.30G-4 |
| 5 | 6 | 6 | 54 | 2 | 220.121.30-5 | 220.121.30G-5 |
| 6 | 6 | 7 | 54 | 2 | 220.121.30-6 | 220.121.30G-6 |
| 8 * | 8 | 9 | 58 | 2 | 220.121.30-8 | |
| 10 * | 10 | 11 | 66 | 2 | 220.121.30-10 | |
| 12 * | 12 | 12 | 73 | 2 | 220.121.30-12 | |
| 14 * | 14 | 14 | 75 | 2 | 220.121.30-14 | |

* Dimensions livrables jusqu'à épuisement du stock

* قابل تحویل تا اتمام موجودی انبار.

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Tech
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FRAISES

فِرَزِهَا

فِرَزِهَا

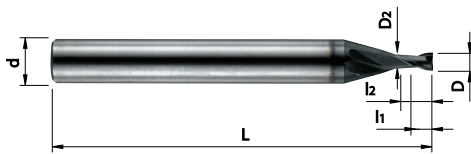
Fräser

End mills

Frese

| | | | | | | | | |
|------------------------|---|---|---|--------|---|--|---|---------|
| 2 | 2 | 0 | 1 | 2 | 3 | 3 | 0 | X |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | TiAIN X |

220.123.30X



SATIS
cut



Type N
Norme SATIS

| D_{e8} | l_1 | D_2 | l_2 | d_{h6} | L | Z | Revêtu TiAIN X با روکش TiAIN X |
|----------|-------|-------|-------|----------|----|---|-----------------------------------|
| 1 | 1.5 | 0.95 | 2.5 | 6 | 50 | 2 | 220.123.30X-1 |
| 1.2 | 1.8 | 1.15 | 3 | 6 | 50 | 2 | 220.123.30X-1.2 |
| 1.5 | 2.3 | 1.45 | 3.8 | 6 | 50 | 2 | 220.123.30X-1.5 |
| 1.6 | 2.4 | 1.55 | 4 | 6 | 50 | 2 | 220.123.30X-1.6 |
| 1.8 | 2.7 | 1.75 | 4.5 | 6 | 50 | 2 | 220.123.30X-1.8 |
| 2.5 | 3.7 | 2.4 | 5 | 6 | 50 | 2 | 220.123.30X-2.5 |

Gamme livrable jusqu'à épuisement du stock
avec remise supplémentaire exceptionnelle de 25%

* قابل تحویل تا اتمام موجودی انبار با تخفیف استثنایی ۲۵ درصدی

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Tech
مشخصات فنی

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FRAISES

فِرَزِهَا

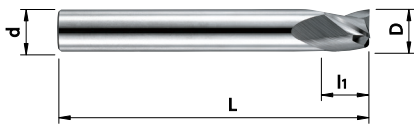
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|--------|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 3 | 0 | 3 | 0 | G | 220.130.30 | 220.130.30G |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|-----------|----------|-------|----|---|-------------------------|--------------------------------|
| 3 | 3 | 3 | 39 | 3 | 220.130.30-3 | 220.130.30G-3 |
| 4 | 4 | 4 | 50 | 3 | 220.130.30-4 | 220.130.30G-4 |
| 5 | 5 | 5 | 50 | 3 | 220.130.30-5 | 220.130.30G-5 |
| 6 | 6 | 6 | 50 | 3 | 220.130.30-6 | 220.130.30G-6 |
| 8 | 8 | 8 | 58 | 3 | 220.130.30-8 | 220.130.30G-8 |
| 10 | 10 | 10 | 66 | 3 | 220.130.30-10 | 220.130.30G-10 |
| 12 | 12 | 12 | 73 | 3 | 220.130.30-12 | 220.130.30G-12 |
| 16 | 16 | 16 | 82 | 3 | 220.130.30-16 | 220.130.30G-16 |
| 20 | 20 | 20 | 92 | 3 | 220.130.30-20 | 220.130.30G-20 |

Livable avec revêtement TiAlN X jusqu'à épuisement du stock

* قابل تحویل با پوشش TiAlN X تا تمام شدن موجودی انبار.

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Tech
مشخصات فنی

>>> p 143

FRAISES

فرزها

فرزها

Fräser

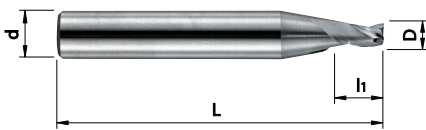
End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|--------|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 3 | 1 | 3 | 0 | G | 220.131.30 | 220.131.30G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |

gamme élargie

دارای مدل های مختلف



SATIS
cut



Type N

Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|-----------|----------|-------|----|---|-------------------------|--------------------------------|
| 1 | 6 | 3 | 40 | 3 | 220.131.30-1 | 220.131.30G-1 |
| 1.2 | 6 | 3 | 40 | 3 | 220.131.30-1.2 | 220.131.30G-1.2 |
| 1.5 | 6 | 3 | 40 | 3 | 220.131.30-1.5 | 220.131.30G-1.5 |
| 1.8 | 6 | 3 | 40 | 3 | 220.131.30-1.8 | 220.131.30G-1.8 |
| 2 | 6 | 3 | 40 | 3 | 220.131.30-2 | 220.131.30G-2 |
| 2.5 | 6 | 3 | 40 | 3 | 220.131.30-2.5 | 220.131.30G-2.5 |
| 2.8 | 6 | 4 | 40 | 3 | 220.131.30-2.8 | 220.131.30G-2.8 |
| 3 | 6 | 4 | 40 | 3 | 220.131.30-3 | 220.131.30G-3 |
| 3.5 | 6 | 4 | 40 | 3 | 220.131.30-3.5 | 220.131.30G-3.5 |
| 3.8 | 6 | 5 | 40 | 3 | 220.131.30-3.8 | 220.131.30G-3.8 |
| 4 | 6 | 5 | 40 | 3 | 220.131.30-4 | 220.131.30G-4 |
| 4.5 | 6 | 5 | 40 | 3 | 220.131.30-4.5 | 220.131.30G-4.5 |
| 4.8 | 6 | 6 | 40 | 3 | 220.131.30-4.8 | 220.131.30G-4.8 |
| 5 | 6 | 6 | 40 | 3 | 220.131.30-5 | 220.131.30G-5 |
| 5.5 | 6 | 7 | 40 | 3 | 220.131.30-5.5 | 220.131.30G-5.5 |
| 5.8 | 6 | 7 | 40 | 3 | 220.131.30-5.8 | 220.131.30G-5.8 |
| 6 | 6 | 7 | 40 | 3 | 220.131.30-6 | 220.131.30G-6 |

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FRAISES

فرزها

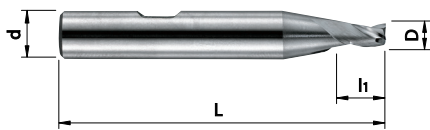
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|------------|---|----|---|--|---|-------|------------|-------------|
| 2 | 2 | 1 | 1 | 3 | 1 | 3 | 0 | N | 221.131.30 | 221.131.30N |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | DIN 6535HB | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | TiAlN | | |



SATIS
cut



Type N
DIN 6527K

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu TiAlN X با روکش TiAlN X |
|-----------|----------|-------|----|---|-------------------------|-----------------------------------|
| 1.5 | 6 | 3 | 50 | 3 | 221.131.30-1.5 | 221.131.30N-1.5 |
| 1.8 | 6 | 3 | 50 | 3 | 221.131.30-1.8 | 221.131.30N-1.8 |
| 2 | 6 | 3 | 50 | 3 | 221.131.30-2 | 221.131.30N-2 |
| 2.5 | 6 | 3 | 50 | 3 | 221.131.30-2.5 | 221.131.30N-2.5 |
| 2.8 | 6 | 4 | 50 | 3 | 221.131.30-2.8 | 221.131.30N-2.8 |
| 3 | 6 | 4 | 50 | 3 | 221.131.30-3 | 221.131.30N-3 |
| 3.5 | 6 | 4 | 50 | 3 | 221.131.30-3.5 | 221.131.30N-3.5 |
| 3.8 | 6 | 5 | 54 | 3 | 221.131.30-3.8 | 221.131.30N-3.8 |
| 4 | 6 | 5 | 54 | 3 | 221.131.30-4 | 221.131.30N-4 |
| 4.5 | 6 | 5 | 54 | 3 | 221.131.30-4.5 | 221.131.30N-4.5 |
| 4.8 | 6 | 6 | 54 | 3 | 221.131.30-4.8 | 221.131.30N-4.8 |
| 5 | 6 | 6 | 54 | 3 | 221.131.30-5 | 221.131.30N-5 |
| 5.5 | 6 | 7 | 54 | 3 | 221.131.30-5.5 | 221.131.30N-5.5 |
| 5.8 | 6 | 7 | 54 | 3 | 221.131.30-5.8 | 221.131.30N-5.8 |
| 6 | 6 | 7 | 54 | 3 | 221.131.30-6 | 221.131.30N-6 |
| 7 | 8 | 8 | 58 | 3 | 221.131.30-7 | 221.131.30N-7 |
| 8 | 8 | 9 | 58 | 3 | 221.131.30-8 | 221.131.30N-8 |
| 9 | 10 | 10 | 66 | 3 | 221.131.30-9 | 221.131.30N-9 |
| 10 | 10 | 11 | 66 | 3 | 221.131.30-10 | 221.131.30N-10 |

Gamme livrable jusqu'à épuisement du stock avec remise supplémentaire exceptionnelle de 25%, remplacée par 220.131.30

* قابل تحویل تا اتمام موجودی انبار با تخفیف استثنایی ۲۵ درصدی
قابل جایگزینی با ۲۲۰.۱۳۱.۳۰

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Tech
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FRAISES

فِرَزِهَا

فِرَزِهَا

Fräser

End mills

Frese

2

2

0

1

3

1

3

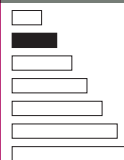
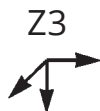
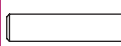
2

S

220.131.32S

MD
HM/SC
MG KX10

فِرَزِهَا
Fräser
End mills
Frese



$\lambda 35^\circ$
 $\gamma \sim 10^\circ$



ALTiN



SATIS
cut



Type N
DIN 6527K

| D_{h10} | R | d_{h6} | l_1 | L | Z | Revêtu ALTiN با روکش |
|-----------|------|----------|-------|----|---|-------------------------|
| 3 | 0.25 | 6 | 4 | 50 | 3 | 220.131.32S-3 |
| 4 | 0.25 | 6 | 5 | 54 | 3 | 220.131.32S-4 |
| 5 | 0.25 | 6 | 6 | 54 | 3 | 220.131.32S-5 |
| 6 | 0.45 | 6 | 7 | 54 | 3 | 220.131.32S-6 |
| 7 * | 0.45 | 8 | 8 | 58 | 3 | 220.131.32S-7 |
| 8 | 0.45 | 8 | 9 | 58 | 3 | 220.131.32S-8 |
| 10 | 0.45 | 10 | 11 | 66 | 3 | 220.131.32S-10 |
| 12 | 0.45 | 12 | 12 | 73 | 3 | 220.131.32S-12 |
| 14 * | 0.45 | 14 | 14 | 75 | 3 | 220.131.32S-14 |
| 16 * | 0.45 | 16 | 16 | 82 | 3 | 220.131.32S-16 |
| 18 * | 0.45 | 18 | 18 | 84 | 3 | 220.131.32S-18 |
| 20 * | 0.45 | 20 | 20 | 92 | 3 | 220.131.32S-20 |

* Dimensions livrables jusqu'à épuisement du stock

* قابل تحویل تا اتمام موجودی انبار.

Fraises avec weldon et revêtement TiAlN N livrables jusqu'à épuisement du stock

* فِرَز با weldon و پوشش TiAlN N قابل تحویل تا اتمام موجودی انبار.

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Tech
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>>> p 143

FRAISES

فِرَزِهَا

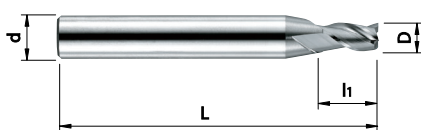
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|----------------------------|---|---|---|--------|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 3 | 2 | 3 | 0 | G | 220.132.30 | 220.132.30G |
| MD HM/SC MG KUF12 | فِرَزِهَا Fräser End mills Frese | | | Z3 | | $\lambda 35^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|-----------|----------|-------|----|---|-------------------------|--------------------------------|
| 1 | 6 | 3 | 44 | 3 | 220.132.30-1 | 220.132.30G-1 |
| 1.5 | 6 | 4 | 44 | 3 | 220.132.30-1.5 | 220.132.30G-1.5 |
| 2 | 6 | 4 | 44 | 3 | 220.132.30-2 | 220.132.30G-2 |
| 2.5 | 6 | 5 | 44 | 3 | 220.132.30-2.5 | 220.132.30G-2.5 |
| 3 | 6 | 5 | 44 | 3 | 220.132.30-3 | 220.132.30G-3 |
| 4 | 6 | 7 | 44 | 3 | 220.132.30-4 | 220.132.30G-4 |
| 5 * | 6 | 8 | 44 | 3 | 220.132.30-5 | 220.132.30G-5 |
| 6 | 6 | 10 | 44 | 3 | 220.132.30-6 | 220.132.30G-6 |
| 8 | 8 | 12 | 44 | 3 | 220.132.30-8 | 220.132.30G-8 |
| 10 | 10 | 14 | 50 | 3 | 220.132.30-10 | 220.132.30G-10 |

* Livrable avec revêtement TiAlN N jusqu'à épaisseur du stock

* قابل تحویل با پوشش TiAlN N تا اتمام موجودی انبار.

Méplat Weldon selon DIN 6535HB sur demande

weldon برطبق DIN 6535HB، طبق درخواست.

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>>> p 143

FRAISES

فرزها

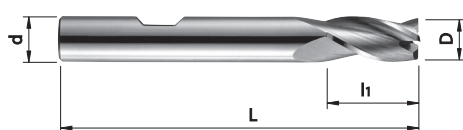
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|------------|---|----|---|--|---|-------|------------|-------------|
| 2 | 2 | 1 | 1 | 3 | 4 | 3 | 0 | N | 221.134.30 | 221.134.30N |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | DIN 6535HB | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | TiAlN | | |



SATIS
star



Type N
DIN 6527L

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu TiAlN X با روکش TiAlN X |
|-----------|----------|-------|-----|---|-------------------------|-----------------------------------|
| 2 | 6 | 6 | 57 | 3 | 221.134.30-2 | 221.134.30N-2 |
| 2.5 | 6 | 6 | 57 | 3 | 221.134.30-2.5 | 221.134.30N-2.5 |
| 3 | 6 | 7 | 57 | 3 | 221.134.30-3 | 221.134.30N-3 |
| 3.5 | 6 | 7 | 57 | 3 | 221.134.30-3.5 | 221.134.30N-3.5 |
| 4 | 6 | 8 | 57 | 3 | 221.134.30-4 | 221.134.30N-4 |
| 4.5 | 6 | 8 | 57 | 3 | 221.134.30-4.5 | 221.134.30N-4.5 |
| 5 | 6 | 10 | 57 | 3 | 221.134.30-5 | 221.134.30N-5 |
| 6 | 6 | 10 | 57 | 3 | 221.134.30-6 | 221.134.30N-6 |
| 8 | 8 | 16 | 63 | 3 | 221.134.30-8 | 221.134.30N-8 |
| 10 | 10 | 19 | 72 | 3 | 221.134.30-10 | 221.134.30N-10 |
| 12 | 12 | 22 | 83 | 3 | 221.134.30-12 | 221.134.30N-12 |
| 14 | 14 | 22 | 83 | 3 | 221.134.30-14 | 221.134.30N-14 |
| 16 | 16 | 26 | 92 | 3 | 221.134.30-16 | 221.134.30N-16 |
| 18 | 18 | 26 | 92 | 3 | 221.134.30-18 | 221.134.30N-18 |
| 20 | 20 | 32 | 104 | 3 | 221.134.30-20 | 221.134.30N-20 |

Gamme livrable jusqu'à épuisement du stock

قابل تحویل تا اتمام موجودی انبار.

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مشخصات فنی

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FRAISES

فرزها

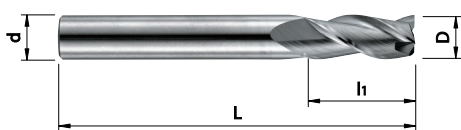
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|----------------------------|---------------------------------------|---|---|--------|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 3 | 5 | 3 | 0 | G | 220.135.30 | 220.135.30G |
| MD HM/SC MG KUF12 | فرزها Fräser End mills Frese | | | Z3 | | $\lambda 35^\circ$ $\gamma \sim 10^\circ$ | | AlCrON | | |



SATIS
star



gamme élargie

دارای مدل های مختلف

Type N

ISO 10911

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AlCrON باروکش AlCrON |
|-----------|----------|-------|----|---|-------------------------|--------------------------------|
| 1 | 3 | 4 | 39 | 3 | 220.135.30-1-3 | 220.135.30G-1-3 |
| 1 | 6 | 4.5 | 57 | 3 | 220.135.30-1-6 | 220.135.30G-1-6 |
| 1.2 | 6 | 6 | 57 | 3 | 220.135.30-1.2-6 | 220.135.30G-1.2-6 |
| 1.5 | 3 | 5.5 | 39 | 3 | 220.135.30-1.5-3 | 220.135.30G-1.5-3 |
| 1.5 | 6 | 6 | 57 | 3 | 220.135.30-1.5-6 | 220.135.30G-1.5-6 |
| 2 | 3 | 7 | 39 | 3 | 220.135.30-2-3 | 220.135.30G-2-3 |
| 2 | 6 | 7 | 57 | 3 | 220.135.30-2-6 | 220.135.30G-2-6 |
| 2.5 | 3 | 8 | 39 | 3 | 220.135.30-2.5-3 | 220.135.30G-2.5-3 |
| 2.5 | 6 | 8 | 57 | 3 | 220.135.30-2.5-6 | 220.135.30G-2.5-6 |
| 3 | 3 | 8 | 39 | 3 | 220.135.30-3-3 | 220.135.30G-3-3 |
| 3 | 6 | 8 | 57 | 3 | 220.135.30-3-6 | 220.135.30G-3-6 |
| 3.5 | 6 | 10 | 57 | 3 | 220.135.30-3.5-6 | 220.135.30G-3.5-6 |
| 4 | 4 | 11 | 50 | 3 | 220.135.30-4-4 | 220.135.30G-4-4 |
| 4 | 6 | 11 | 57 | 3 | 220.135.30-4-6 | 220.135.30G-4-6 |
| 5 | 5 | 13 | 50 | 3 | 220.135.30-5-5 | 220.135.30G-5-5 |
| 5 | 6 | 13 | 57 | 3 | 220.135.30-5-6 | 220.135.30G-5-6 |
| 6 | 6 | 13 | 57 | 3 | 220.135.30-6-6 | 220.135.30G-6-6 |
| 8 | 8 | 19 | 63 | 3 | 220.135.30-8-8 | 220.135.30G-8-8 |
| 10 | 10 | 22 | 72 | 3 | 220.135.30-10-10 | 220.135.30G-10-10 |
| 12 | 12 | 26 | 83 | 3 | 220.135.30-12-12 | 220.135.30G-12-12 |

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FRAISES

فِرَزِهَا

فِرَزِهَا

Fräser

End mills

Frese

2

2

0

1

3

5

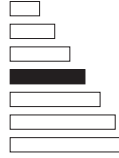
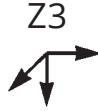
7

0

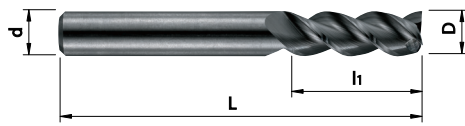
220.135.70

MD
HM/SC
MG KX10

فِرَزِهَا
Fräser
End mills
Frese



$\lambda 38^\circ$
 $\gamma \sim 12^\circ$



SATIS
alu



Type WS
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش |
|-----------|----------|-------|-----|---|-------------------------|
| 3 | 3 | 14 | 39 | 3 | 220.135.70-3 |
| 4 | 4 | 14 | 50 | 3 | 220.135.70-4 |
| 5 | 5 | 16 | 50 | 3 | 220.135.70-5 |
| 6 | 6 | 18 | 50 | 3 | 220.135.70-6 |
| 8 | 8 | 22 | 63 | 3 | 220.135.70-8 |
| 10 | 10 | 24 | 76 | 3 | 220.135.70-10 |
| 12 | 12 | 27 | 76 | 3 | 220.135.70-12 |
| 14 | 14 | 34 | 83 | 3 | 220.135.70-14 |
| 16 | 16 | 34 | 89 | 3 | 220.135.70-16 |
| 18 | 18 | 40 | 100 | 3 | 220.135.70-18 |
| 20 | 20 | 40 | 104 | 3 | 220.135.70-20 |

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Tech
مشخصات فنی
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FRAISES

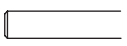

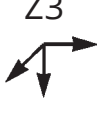
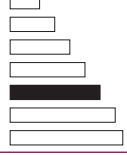
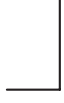
فِرَزِهَا

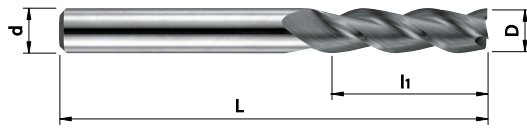
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 3 | 6 | 3 | 0 | G | 220.136.30 | 220.136.30G |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese |  |  | Z3  |  | $\lambda 37^\circ$ $\gamma \sim 10^\circ$ |  | AICrON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICrON باروکش AICrON |
|-----------|----------|-------|-----|---|-------------------------|--------------------------------|
| 3 | 3 | 19 | 63 | 3 | 220.136.30-3 | 220.136.30G-3 |
| 4 | 4 | 19 | 63 | 3 | 220.136.30-4 | 220.136.30G-4 |
| 5 | 5 | 20 | 63 | 3 | 220.136.30-5 | 220.136.30G-5 |
| 6 | 6 | 28 | 76 | 3 | 220.136.30-6 | 220.136.30G-6 |
| 8 | 8 | 28 | 76 | 3 | 220.136.30-8 | 220.136.30G-8 |
| 10 | 10 | 32 | 89 | 3 | 220.136.30-10 | 220.136.30G-10 |
| 12 | 12 | 45 | 100 | 3 | 220.136.30-12 | 220.136.30G-12 |
| 16 | 16 | 56 | 110 | 3 | 220.136.30-16 | 220.136.30G-16 |

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Tech
مشخصات فنی

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FRAISES

فرزها

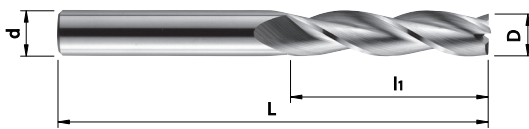
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|--------|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 3 | 7 | 3 | 0 | G | 220.137.30 | 220.137.30G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z3 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|-----------|----------|-------|-----|---|-------------------------|--------------------------------|
| 8 | 8 | 35 | 75 | 3 | 220.137.30-8 | 220.137.30G-8 |
| 10 | 10 | 40 | 100 | 3 | 220.137.30-10 | 220.137.30G-10 |
| 12 | 12 | 50 | 100 | 3 | 220.137.30-12 | 220.137.30G-12 |
| 14 | 14 | 50 | 100 | 3 | 220.137.30-14 | 220.137.30G-14 |
| 16 | 16 | 75 | 150 | 3 | 220.137.30-16 | 220.137.30G-16 |
| 18 | 18 | 75 | 150 | 3 | 220.137.30-18 | 220.137.30G-18 |
| 20 | 20 | 75 | 150 | 3 | 220.137.30-20 | 220.137.30G-20 |

Gamme livrable jusqu'à épuisement du stock
avec remise supplémentaire exceptionnelle de 25%

قابل تحویل تا اتمام موجودی انبار با تخفیف استثنایی ۲۵ درصدی

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FRAISES

فرزها

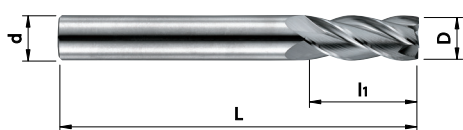
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|--------|---|--|--|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 4 | 5 | 3 | 0 | G | 220.145.30 | 220.145.30G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z4 | | $\lambda 35^\circ$ $\gamma \sim 10^\circ$ | $\varnothing > 10:$ 0.05-0.1 45° | AICRON | | |



SATIS
cut



Type N
ISO 10911

| D _{h10} | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|------------------|-----------------|----------------|-----|---|-------------------------|--------------------------------|
| 2 | 2 | 8 | 32 | 4 | 220.145.30-2-2 | 220.145.30G-2-2 |
| 3 | 3 | 8 | 39 | 4 | 220.145.30-3-3 | 220.145.30G-3-3 |
| 4 | 4 | 11 | 50 | 4 | 220.145.30-4-4 | 220.145.30G-4-4 |
| 4 * | 6 | 11 | 57 | 4 | 220.145.30-4-6 | 220.145.30G-4-6 |
| 5 | 5 | 13 | 50 | 4 | 220.145.30-5-5 | 220.145.30G-5-5 |
| 5 * | 6 | 13 | 57 | 4 | 220.145.30-5-6 | 220.145.30G-5-6 |
| 6 * | 6 | 13 | 57 | 4 | 220.145.30-6-6 | 220.145.30G-6-6 |
| 8 * | 8 | 19 | 63 | 4 | 220.145.30-8-8 | 220.145.30G-8-8 |
| 14 * | 14 | 26 | 83 | 4 | 220.145.30-14-14 | 220.145.30G-14-14 |
| 18 * | 18 | 32 | 92 | 4 | 220.145.30-18-18 | 220.145.30G-18-18 |
| 20 * | 20 | 38 | 104 | 4 | 220.145.30-20-20 | 220.145.30G-20-20 |

* Dimensions livrables jusqu'à épauement du stock avec remise supplémentaire exceptionnelle de 25%,
remplacées par 220.145.600S et 220.145.610S

* قابل تحویل تا اتمام موجودی انبار با تخفیف استثنایی ۲۵ درصدی
قابل جایگزین 220.145.600S, 220.145.610S

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FRAISES

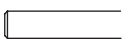


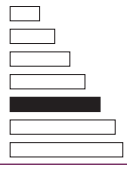
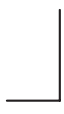
فِرَزِهَا

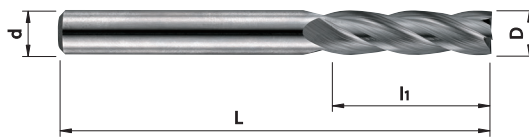
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 4 | 6 | 3 | 0 | G | 220.146.30 | 220.146.30G |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese |  |  | Z4  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | AICrON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICrON باروکش AICrON |
|-----------|----------|-------|-----|---|-------------------------|--------------------------------|
| 3 | 3 | 19 | 63 | 4 | 220.146.30-3 | 220.146.30G-3 |
| 4 | 4 | 19 | 63 | 4 | 220.146.30-4 | 220.146.30G-4 |
| 5 | 5 | 20 | 63 | 4 | 220.146.30-5 | 220.146.30G-5 |
| 6 | 6 | 28 | 76 | 4 | 220.146.30-6 | 220.146.30G-6 |
| 8 | 8 | 28 | 76 | 4 | 220.146.30-8 | 220.146.30G-8 |
| 10 | 10 | 32 | 89 | 4 | 220.146.30-10 | 220.146.30G-10 |
| 12 | 12 | 45 | 100 | 4 | 220.146.30-12 | 220.146.30G-12 |
| 16 | 16 | 56 | 110 | 4 | 220.146.30-16 | 220.146.30G-16 |

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>>> p 144

FRAISES

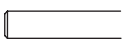


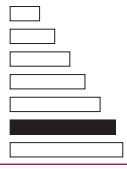
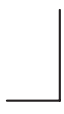
فِرِزِهَا

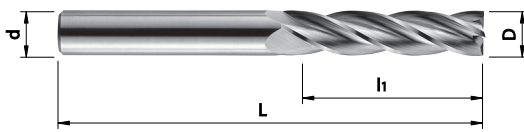
فِرِزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 1 | 4 | 7 | 3 | 0 | G | 220.147.30 | 220.147.30G |
| MD HM/SC MG KX10 | فِرِزِهَا Fräser End mills Frese |  |  | Z4  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|-----------|----------|-------|-----|---|-------------------------|--------------------------------|
| 8 | 8 | 50 | 100 | 4 | 220.147.30-8 | 220.147.30G-8 |
| 10 | 10 | 50 | 100 | 4 | 220.147.30-10 | 220.147.30G-10 |
| 12 | 12 | 70 | 150 | 4 | 220.147.30-12 | 220.147.30G-12 |
| 16 | 16 | 75 | 150 | 4 | 220.147.30-16 | 220.147.30G-16 |
| 18 | 18 | 75 | 150 | 4 | 220.147.30-18 | 220.147.30G-18 |
| 20 | 20 | 75 | 150 | 4 | 220.147.30-20 | 220.147.30G-20 |

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FRAISES

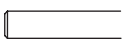


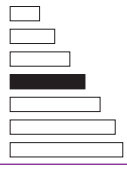
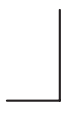
فِرَزِهَا

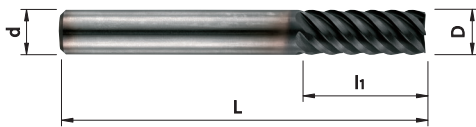
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---------|-------------|
| 2 | 2 | 0 | 1 | 5 | 5 | 6 | 0 | X | 220.155.60X |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese |  |  | Z6 - 8  |  | $\lambda 50^\circ$ $\gamma \sim 6^\circ$ |  | TiAIN X | |



SATIS
cut



Type H
ISO 10911

| D_{h10} | d_{h6} | l_1 | L | Z | Revêtu TiAIN X با روکش TiAIN X |
|-----------|----------|-------|-----|---|-----------------------------------|
| 6 | 6 | 13 | 57 | 6 | 220.155.60X-6 |
| 8 | 8 | 19 | 63 | 6 | 220.155.60X-8 |
| 10 | 10 | 22 | 72 | 6 | 220.155.60X-10 |
| 12 * | 12 | 26 | 83 | 6 | 220.155.60X-12 |
| 16 * | 16 | 32 | 92 | 6 | 220.155.60X-16 |
| 20 * | 20 | 38 | 104 | 8 | 220.155.60X-20 |
| 25 * | 25 | 45 | 121 | 8 | 220.155.60X-25 |

* Dimensions livrables jusqu'à épauement du stock

* قابل تحویل تا اتمام موجودی انبار.

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Tech
مشخصات فنی

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FRAISES

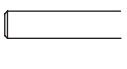
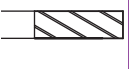
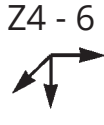
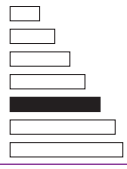
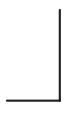
فرزها

فرزها

Fräser

End mills

Frese

| | | | | | | | | | |
|------------------------|----------|---|---|---|---|---|---|---------|-------------|
| 2 | 3 | 0 | 1 | 5 | 6 | 7 | 0 | X | 230.156.70X |
| MD HM/SC MG KX10 | NEGATIVE |  |  | Z4 - 6  |  | $\lambda 50^\circ$ $\gamma \sim -10^\circ$ |  | TiAIN X | |

COUPE NEGATIVE



SATIS
dur



Type HX
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Revêtu TiAIN X با روکش TiAIN X |
|-----------|----------|-------|-----|---|-----------------------------------|
| 3 | 4 | 8 | 50 | 4 | 230.156.70X-3 |
| 4 | 6 | 12 | 57 | 4 | 230.156.70X-4 |
| 5 | 6 | 13 | 57 | 4 | 230.156.70X-5 |
| 6 | 6 | 15 | 60 | 6 | 230.156.70X-6 |
| 8 | 8 | 20 | 75 | 6 | 230.156.70X-8 |
| 10 | 10 | 25 | 80 | 6 | 230.156.70X-10 |
| 12 * | 12 | 30 | 100 | 6 | 230.156.70X-12 |
| 16 * | 16 | 40 | 110 | 6 | 230.156.70X-16 |
| 20 * | 20 | 45 | 120 | 6 | 230.156.70X-20 |

* Dimensions livrables jusqu'à épaissement du stock

* قابل تحویل تا اتمام موجودی انبار.

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FRAISES

فِرَزِهَا

فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | | | |
|------------------------|---|---|---|--------|---|---|----|-------|------|-------------|--------------|--------------|
| 2 | 2 | 0 | 1 | 4 | 2 | 6 | 00 | S | M | 220.142.600 | 220.142.600S | 220.142.600M |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z4 | | $\lambda 38^\circ$ $\gamma \sim 5^\circ$ | | AlTiN | PSNM | | | |

gamme élargie

دارای مدل های مختلف



VARIA
cut



Type NS

Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AlTiN AlTiN با روکش | Revêtu PSNM PSNM با روکش |
|-----------|----------|-------|----|---|-------------------------|-------------------------------|-----------------------------|
| 1 | 6 | 3 | 50 | 4 | 220.142.600-1 | | 220.142.600M-1 |
| 1.5 | 6 | 4 | 50 | 4 | 220.142.600-1.5 | | 220.142.600M-1.5 |
| 2 | 6 | 5 | 50 | 4 | 220.142.600-2 | | 220.142.600M-2 |
| 2.5 | 6 | 6 | 50 | 4 | 220.142.600-2.5 | | 220.142.600M-2.5 |
| 3 | 6 | 6 | 50 | 4 | 220.142.600-3 | 220.142.600S-3 | 220.142.600M-3 |
| 3.5 * | 6 | 6 | 50 | 4 | 220.142.600-3.5 | 220.142.600S-3.5 | 220.142.600M-3.5 |
| 4 | 6 | 7 | 50 | 4 | 220.142.600-4 | 220.142.600S-4 | 220.142.600M-4 |
| 5 | 6 | 8 | 50 | 4 | 220.142.600-5 | 220.142.600S-5 | 220.142.600M-5 |
| 6 | 6 | 10 | 50 | 4 | 220.142.600-6 | 220.142.600S-6 | 220.142.600M-6 |
| 8 | 8 | 12 | 50 | 4 | 220.142.600-8 | 220.142.600S-8 | |
| 10 | 10 | 14 | 50 | 4 | 220.142.600-10 | 220.142.600S-10 | |

* Livrable avec revêtement TiAlN N jusqu'à épaisseur du stock

* قابل تحویل با پوشش TiAlN N تا اتمام موجودی انبار.

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FRAISES

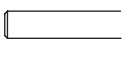
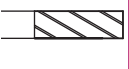

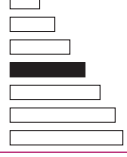
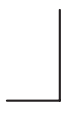
فِرِزِهَا

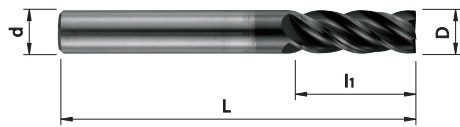
فِرِزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|-------|-------------|--------------|
| 2 | 2 | 0 | 1 | 4 | 5 | 6 | 00 | S | 220.145.600 | 220.145.600S |
| MD HM/SC MG KX10 | فِرِزِهَا Fräser End mills Frese |  |  | Z4  |  | $\lambda 38^\circ$ $\gamma \sim 5^\circ$ |  | AITiN | | |



VARIA
cut



Type NS
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AITiN با روکش AITiN |
|-----------|----------|-------|-----|---|-------------------------|-------------------------------|
| 3 | 6 | 10 | 57 | 4 | 220.145.600-3 | 220.145.600S-3 |
| 3.5 | 6 | 10 | 57 | 4 | 220.145.600-3.5 | 220.145.600S-3.5 |
| 4 | 6 | 12 | 57 | 4 | 220.145.600-4 | 220.145.600S-4 |
| 5 | 6 | 14 | 57 | 4 | 220.145.600-5 | 220.145.600S-5 |
| 6 | 6 | 16 | 57 | 4 | 220.145.600-6 | 220.145.600S-6 |
| 8 | 8 | 22 | 63 | 4 | 220.145.600-8 | 220.145.600S-8 |
| 10 | 10 | 24 | 72 | 4 | 220.145.600-10 | 220.145.600S-10 |
| 12 | 12 | 28 | 83 | 4 | 220.145.600-12 | 220.145.600S-12 |
| 16 | 16 | 35 | 92 | 4 | 220.145.600-16 | 220.145.600S-16 |
| 18 | 18 | 35 | 92 | 4 | 220.145.600-18 | 220.145.600S-18 |
| 20 | 20 | 40 | 104 | 4 | 220.145.600-20 | 220.145.600S-20 |
| 25 | 25 | 50 | 121 | 4 | 220.145.600-25 | 220.145.600S-25 |

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FRAISES

فِرَزِهَا

فِرَزِهَا

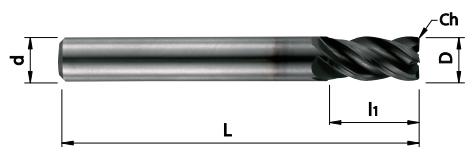
Fräser

End mills

Frese

| | | | | | | | | |
|------------------------|---|---|---|----|---|---|----|-------|
| 2 | 2 | 0 | 1 | 4 | 5 | 6 | 10 | S |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z4 | | $\lambda 38^\circ$ $\gamma \sim 5^\circ$ | | ALTiN |

220.145.610S



VARIA
cut



Type NS
Norme SATIS

| D_{h10} | Ch | d_{h6} | l_1 | L | Z | Revêtu ALTiN با روکش |
|-----------|-----|----------|-------|-----|---|-------------------------|
| 4 | 0.4 | 6 | 12 | 57 | 4 | 220.145.610S-4 |
| 5 | 0.4 | 6 | 14 | 57 | 4 | 220.145.610S-5 |
| 6 | 0.4 | 6 | 16 | 57 | 4 | 220.145.610S-6 |
| 7 | 0.4 | 8 | 18 | 63 | 4 | 220.145.610S-7 |
| 8 | 0.4 | 8 | 22 | 63 | 4 | 220.145.610S-8 |
| 9 * | 0.5 | 10 | 22 | 72 | 4 | 220.145.610S-9 |
| 10 | 0.5 | 10 | 24 | 72 | 4 | 220.145.610S-10 |
| 12 | 0.5 | 12 | 28 | 83 | 4 | 220.145.610S-12 |
| 14 | 0.5 | 14 | 28 | 83 | 4 | 220.145.610S-14 |
| 16 | 0.5 | 16 | 35 | 92 | 4 | 220.145.610S-16 |
| 18 * | 0.5 | 18 | 35 | 92 | 4 | 220.145.610S-18 |
| 20 | 0.5 | 20 | 40 | 104 | 4 | 220.145.610S-20 |
| 25 | 0.5 | 25 | 50 | 121 | 4 | 220.145.610S-25 |

* Livrable avec revêtement TiAlN jusqu'à épuisement du stock

* قابل تحویل با پوشش TiAlN تا اتمام موجودی انبار.

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Tech

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FRAISES

فِرَزِهَا

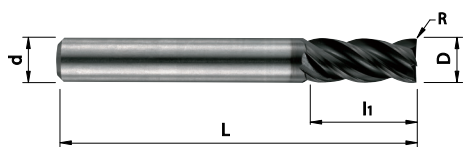
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | |
|------------------------|---|---|---|---|---|---|----|-------|--------------|
| 2 | 2 | 0 | 1 | 4 | 5 | 6 | 20 | S | 220.145.620S |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | | | | | ALTiN | |



VARIA
cut



Type NS
Norme SATIS

| D_{h10} | $R_{+/-0.02}$ | d_{h6} | l_1 | L | Z | Revêtu ALTiN ALTiN باروکش |
|-----------|---------------|----------|-------|-----|---|------------------------------|
| 4 | 0.2 | 6 | 12 | 57 | 4 | 220.145.620S-4-0.2 |
| 4 | 0.5 | 6 | 12 | 57 | 4 | 220.145.620S-4-0.5 |
| 4 | 1 | 6 | 12 | 57 | 4 | 220.145.620S-4-1 |
| 5 | 0.2 | 6 | 14 | 57 | 4 | 220.145.620S-5-0.2 |
| 5 | 0.5 | 6 | 14 | 57 | 4 | 220.145.620S-5-0.5 |
| 5 | 1 | 6 | 14 | 57 | 4 | 220.145.620S-5-1 |
| 6 | 0.2 | 6 | 16 | 57 | 4 | 220.145.620S-6-0.2 |
| 6 | 0.5 | 6 | 16 | 57 | 4 | 220.145.620S-6-0.5 |
| 6 | 1 | 6 | 16 | 57 | 4 | 220.145.620S-6-1 |
| 8 | 0.2 | 8 | 22 | 63 | 4 | 220.145.620S-8-0.2 |
| 8 | 0.5 | 8 | 22 | 63 | 4 | 220.145.620S-8-0.5 |
| 8 | 1 | 8 | 22 | 63 | 4 | 220.145.620S-8-1 |
| 10 | 0.3 | 10 | 24 | 72 | 4 | 220.145.620S-10-0.3 |
| 10 | 0.5 | 10 | 24 | 72 | 4 | 220.145.620S-10-0.5 |
| 10 | 1 | 10 | 24 | 72 | 4 | 220.145.620S-10-1 |
| 12 | 0.3 | 12 | 28 | 83 | 4 | 220.145.620S-12-0.3 |
| 12 | 0.5 | 12 | 28 | 83 | 4 | 220.145.620S-12-0.5 |
| 12 | 1 | 12 | 28 | 83 | 4 | 220.145.620S-12-1 |
| 14 | 0.3 | 14 | 28 | 83 | 4 | 220.145.620S-14-0.3 |
| 14 | 0.5 | 14 | 28 | 83 | 4 | 220.145.620S-14-0.5 |
| 14 | 1 | 14 | 28 | 83 | 4 | 220.145.620S-14-1 |
| 16 | 0.3 | 16 | 35 | 92 | 4 | 220.145.620S-16-0.3 |
| 16 | 0.5 | 16 | 35 | 92 | 4 | 220.145.620S-16-0.5 |
| 16 | 1 | 16 | 35 | 92 | 4 | 220.145.620S-16-1 |
| 20 | 0.3 | 20 | 40 | 104 | 4 | 220.145.620S-20-0.3 |
| 20 | 0.5 | 20 | 40 | 104 | 4 | 220.145.620S-20-0.5 |
| 20 | 1 | 20 | 40 | 104 | 4 | 220.145.620S-20-1 |

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FRAISES

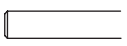

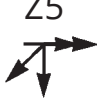
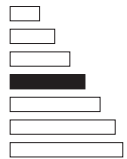
فِرَزِهَا

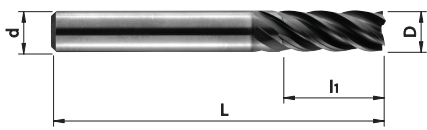
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | |
|------------------------|---|---|---|---|---|---|----|-------|--------------|
| 2 | 2 | 0 | 1 | 5 | 5 | 6 | 00 | S | 220.155.600S |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese |  |  | Z5  |  | $\lambda 38^\circ$ $\gamma \sim 5^\circ$ | | AlTiN | |



VARIA
cut



Type NS
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Revêtu AlTiN باروكش |
|-----------|----------|-------|-----|---|------------------------|
| 4 | 6 | 12 | 57 | 5 | 220.155.600S-4 |
| 5 | 6 | 14 | 57 | 5 | 220.155.600S-5 |
| 6 | 6 | 16 | 57 | 5 | 220.155.600S-6 |
| 8 | 8 | 19 | 63 | 5 | 220.155.600S-8 |
| 10 | 10 | 24 | 72 | 5 | 220.155.600S-10 |
| 12 | 12 | 28 | 83 | 5 | 220.155.600S-12 |
| 16 | 16 | 35 | 92 | 5 | 220.155.600S-16 |
| 20 | 20 | 40 | 104 | 5 | 220.155.600S-20 |
| 25 * | 25 | 50 | 121 | 5 | 220.155.600S-25 |

* Dimension livrable jusqu'à épaissement du stock

* قابل تحویل تا اتمام موجودی انبار.

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Tech
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FRAISES

فِرَزِهَا

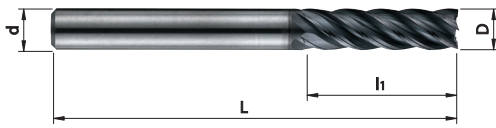
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | |
|------------------------|---|---|---|--------|---|---|----|-------|--------------|
| 2 | 2 | 0 | 1 | 5 | 6 | 6 | 00 | S | 220.156.600S |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z5 | | $\lambda 38^\circ$ $\gamma \sim 5^\circ$ | | AlTiN | |



VARIA
cut



Type NS
Norme SATIS

| D_{h10} | d_{h6} | l_1 | L | Z | Revêtu AlTiN AITiN پاروکش |
|-----------|----------|-------|-----|---|------------------------------|
| 6 | 6 | 25 | 76 | 5 | 220.156.600S-6 |
| 8 | 8 | 28 | 76 | 5 | 220.156.600S-8 |
| 10 | 10 | 32 | 89 | 5 | 220.156.600S-10 |
| 12 | 12 | 45 | 100 | 5 | 220.156.600S-12 |
| 16 | 16 | 56 | 110 | 5 | 220.156.600S-16 |
| 20 | 20 | 56 | 125 | 5 | 220.156.600S-20 |
| 25 | 25 | 62 | 155 | 5 | 220.156.600S-25 |

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FRAISES

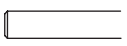


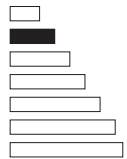

فرزها

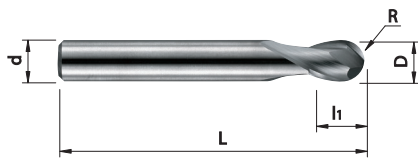
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|---|---|--|---|--------|------------|-------------|
| 2 | 2 | 0 | 2 | 2 | 1 | 3 | 0 | G | 220.221.30 | 220.221.30G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese |  |  | Z2  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | AICRON | | |



SATIS
cut



Type W
Din 6527K

| D_{e8} | R_{e8} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|----------|----------|----------|-------|----|---|-------------------------|--------------------------------|
| 2 | 1 | 6 | 4 | 50 | 2 | 220.221.30-2 | 220.221.30G-2 |
| 3 | 1.5 | 6 | 4 | 50 | 2 | 220.221.30-3 | 220.221.30G-3 |
| 4 | 2 | 6 | 5 | 54 | 2 | 220.221.30-4 | 220.221.30G-4 |
| 5 | 2.5 | 6 | 6 | 54 | 2 | 220.221.30-5 | 220.221.30G-5 |
| 6 | 3 | 6 | 7 | 54 | 2 | 220.221.30-6 | 220.221.30G-6 |
| 8 | 4 | 8 | 9 | 58 | 2 | 220.221.30-8 | 220.221.30G-8 |
| 10 | 5 | 10 | 11 | 66 | 2 | 220.221.30-10 | 220.221.30G-10 |
| 12 | 6 | 12 | 12 | 73 | 2 | 220.221.30-12 | 220.221.30G-12 |

Livable avec revêtement TiAIN X jusqu'à épaisseur du stock

* قابل تحویل با پوشش TiAIN X تا اتمام موجودی انبار.

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FRAISES

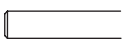


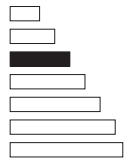

فِرَزِهَا

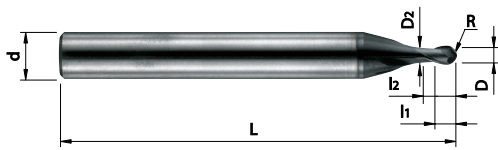
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | |
|------------------------|---|---|---|---|---|--|---|---------|-------------|
| 2 | 2 | 0 | 2 | 2 | 3 | 3 | 0 | X | 220.223.30X |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese |  |  | Z2  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | TiAIN X | |



SATIS
cut



Type N
Norme SATIS

| D_{e8} | R_{e8} | l_1 | D_2 | l_2 | d_{h6} | L | Z | Revêtu TiAIN X با روکش TiAIN X |
|----------|----------|-------|-------|-------|----------|----|---|--------------------------------------|
| 1 | 0.5 | 1 | 0.95 | 2.5 | 6 | 50 | 2 | 220.223.30X-1 |
| 1.2 | 0.6 | 1.2 | 1.15 | 3 | 6 | 50 | 2 | 220.223.30X-1.2 |
| 1.4 | 0.7 | 1.4 | 1.35 | 3.5 | 6 | 50 | 2 | 220.223.30X-1.4 |
| 1.5 | 0.75 | 1.5 | 1.45 | 3.8 | 6 | 50 | 2 | 220.223.30X-1.5 |
| 1.6 | 0.8 | 1.6 | 1.55 | 4 | 6 | 50 | 2 | 220.223.30X-1.6 |
| 1.8 | 0.9 | 1.8 | 1.75 | 4.5 | 6 | 50 | 2 | 220.223.30X-1.8 |
| 2 | 1 | 2 | 1.95 | 5 | 6 | 50 | 2 | 220.223.30X-2 |
| 2.5 | 1.25 | 2.5 | 2.4 | 5 | 6 | 50 | 2 | 220.223.30X-2.5 |
| 3 | 1.5 | 3 | 2.85 | 6 | 6 | 50 | 2 | 220.223.30X-3 |
| 4 | 2 | 4 | 3.85 | 6 | 6 | 50 | 2 | 220.223.30X-4 |

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FRAISES

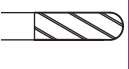
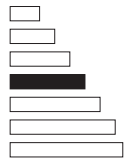

فِرَزِهَا

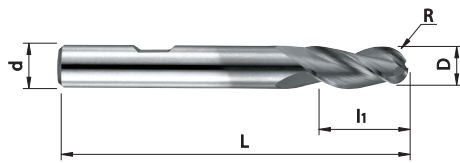
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|------------|---|----|---|--|---|--------|------------|-------------|
| 2 | 2 | 1 | 2 | 3 | 4 | 3 | 0 | G | 221.234.30 | 221.234.30G |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | DIN 6535HB |  | Z3 |  | $\lambda 35^\circ$ $\gamma \sim 10^\circ$ |  | AICRON | | |



SATIS
cut



Type N
DIN 6527L

| D_{e8} | R_{e8} | d_{h6} | l_1 | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|----------|----------|----------|-------|-----|---|-------------------------|--------------------------------|
| 3 | 1.5 | 6 | 7 | 57 | 3 | 221.234.30-3 | 221.234.30G-3 |
| 4 | 2 | 6 | 8 | 57 | 3 | 221.234.30-4 | 221.234.30G-4 |
| 5 | 2.5 | 6 | 10 | 57 | 3 | 221.234.30-5 | 221.234.30G-5 |
| 6 | 3 | 6 | 10 | 57 | 3 | 221.234.30-6 | 221.234.30G-6 |
| 8 | 4 | 8 | 16 | 63 | 3 | 221.234.30-8 | 221.234.30G-8 |
| 10 | 5 | 10 | 19 | 72 | 3 | 221.234.30-10 | 221.234.30G-10 |
| 12 | 6 | 12 | 22 | 83 | 3 | 221.234.30-12 | 221.234.30G-12 |
| 14 * | 7 | 14 | 22 | 83 | 3 | 221.234.30-14 | 221.234.30G-14 |
| 16 * | 8 | 16 | 26 | 92 | 3 | 221.234.30-16 | 221.234.30G-16 |
| 18 * | 9 | 18 | 26 | 92 | 3 | 221.234.30-18 | 221.234.30G-18 |
| 20 * | 10 | 20 | 32 | 104 | 3 | 221.234.30-20 | 221.234.30G-20 |

* Dimensions livrables jusqu'à épuisement du stock

* قابل تحویل تا اتمام موجودی انبار.

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FRAISES

فِرَزِهَا

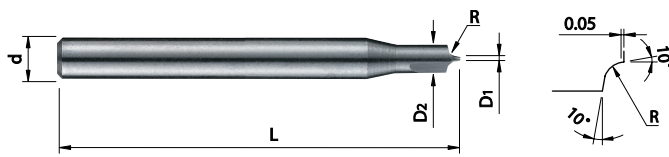
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|---------|---|---|---|--------|------------|-------------|
| 2 | 2 | 0 | 3 | 2 | 5 | 1 | 0 | G | 220.325.10 | 220.325.10G |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z2 → | | $\lambda 0^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |



SATIS
cut

Fraise 1/4 de cercle
concave avec \emptyset en bout
réduit

Type H
Norme SATIS



| $R_{+/-0.02}$ | D_1 | D_2 | d_{h6} | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|---------------|-------|-------|----------|----|---|-------------------------|--------------------------------|
| 0.1 | 0.5 | 0.8 | 3 | 50 | 2 | 220.325.10-0.1 | 220.325.10G-0.1 |
| 0.15 | 0.5 | 0.9 | 3 | 50 | 2 | 220.325.10-0.15 | 220.325.10G-0.15 |
| 0.2 | 0.5 | 1 | 3 | 50 | 2 | 220.325.10-0.2 | 220.325.10G-0.2 |
| 0.25 | 0.5 | 1.1 | 3 | 50 | 2 | 220.325.10-0.25 | 220.325.10G-0.25 |
| 0.3 | 0.5 | 1.2 | 3 | 50 | 2 | 220.325.10-0.3 | 220.325.10G-0.3 |
| 0.4 | 0.5 | 1.4 | 3 | 50 | 2 | 220.325.10-0.4 | 220.325.10G-0.4 |
| 0.5 | 0.5 | 1.6 | 3 | 50 | 2 | 220.325.10-0.5 | 220.325.10G-0.5 |
| 0.6 | 0.5 | 1.8 | 3 | 50 | 2 | 220.325.10-0.6 | 220.325.10G-0.6 |
| 0.7 | 0.5 | 2 | 3 | 50 | 2 | 220.325.10-0.7 | 220.325.10G-0.7 |
| 0.75 | 0.5 | 2.1 | 3 | 50 | 2 | 220.325.10-0.75 | 220.325.10G-0.75 |
| 0.8 | 0.8 | 2.5 | 3 | 50 | 2 | 220.325.10-0.8 | 220.325.10G-0.8 |
| 0.9 | 0.8 | 2.7 | 3 | 50 | 2 | 220.325.10-0.9 | 220.325.10G-0.9 |
| 1 | 0.8 | 2.9 | 3 | 50 | 2 | 220.325.10-1 | 220.325.10G-1 |
| 1.25 | 0.8 | 3.4 | 4 | 50 | 2 | 220.325.10-1.25 | 220.325.10G-1.25 |
| 1.5 | 1.5 | 4.6 | 5 | 50 | 2 | 220.325.10-1.5 | 220.325.10G-1.5 |
| 1.75 | 1.5 | 5.1 | 6 | 50 | 2 | 220.325.10-1.75 | 220.325.10G-1.75 |
| 2 | 1.5 | 5.6 | 6 | 50 | 2 | 220.325.10-2 | 220.325.10G-2 |
| 2.25 | 1.5 | 6.1 | 8 | 50 | 2 | 220.325.10-2.25 | 220.325.10G-2.25 |
| 2.5 | 1.5 | 6.6 | 8 | 50 | 2 | 220.325.10-2.5 | 220.325.10G-2.5 |
| 3 | 1.5 | 7.6 | 8 | 50 | 2 | 220.325.10-3 | 220.325.10G-3 |
| 4 | 1.9 | 10 | 10 | 55 | 2 | 220.325.10-4 | 220.325.10G-4 |
| 5 | 1.9 | 12 | 12 | 63 | 2 | 220.325.10-5 | 220.325.10G-5 |

FRAISES

فِرَزِهَا

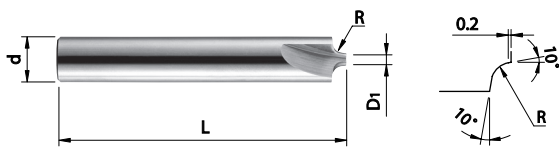
فِرَزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---|---|---|---------|---|---|---|--------|------------|-------------|
| 2 | 2 | 0 | 3 | 2 | 5 | 2 | 0 | G | 220.325.20 | 220.325.20G |
| MD HM/SC MG KX10 | فِرَزِهَا Fräser End mills Frese | | | Z2 → | | $\lambda 0^\circ$ $\gamma \sim 10^\circ$ | | AlCrON | | |



SATIS
cut



Fraise 1/4 de cercle
concave

Type H
Norme SATIS

| $R_{+/-0.02}$ | D_1 | d_{h6} | L | Z | Non revêtu بدون روکش | Revêtu AlCrON باروکش AlCrON |
|---------------|-------|----------|----|---|-------------------------|--------------------------------|
| 0.25 | 1 | 3 | 50 | 2 | 220.325.20-0.25 | 220.325.20G-0.25 |
| 0.3 | 1 | 3 | 50 | 2 | 220.325.20-0.3 | 220.325.20G-0.3 |
| 0.4 | 1 | 3 | 50 | 2 | 220.325.20-0.4 | 220.325.20G-0.4 |
| 0.5 | 1.5 | 4 | 50 | 2 | 220.325.20-0.5 | 220.325.20G-0.5 |
| 0.6 | 1.5 | 4 | 50 | 2 | 220.325.20-0.6 | 220.325.20G-0.6 |
| 0.7 | 1.5 | 4 | 50 | 2 | 220.325.20-0.7 | 220.325.20G-0.7 |
| 0.75 | 1.5 | 4 | 50 | 2 | 220.325.20-0.75 | 220.325.20G-0.75 |
| 0.8 | 1.5 | 4 | 50 | 2 | 220.325.20-0.8 | 220.325.20G-0.8 |
| 0.9 | 1.5 | 4 | 50 | 2 | 220.325.20-0.9 | 220.325.20G-0.9 |
| 1 | 1.5 | 4 | 50 | 2 | 220.325.20-1 | 220.325.20G-1 |
| 1.25 | 2 | 6 | 50 | 2 | 220.325.20-1.25 | 220.325.20G-1.25 |
| 1.5 | 2 | 6 | 50 | 2 | 220.325.20-1.5 | 220.325.20G-1.5 |
| 1.75 | 2 | 6 | 50 | 2 | 220.325.20-1.75 | 220.325.20G-1.75 |
| 2 | 2.5 | 8 | 50 | 2 | 220.325.20-2 | 220.325.20G-2 |
| 2.25 | 2.5 | 8 | 50 | 2 | 220.325.20-2.25 | 220.325.20G-2.25 |
| 2.5 | 2.5 | 8 | 50 | 2 | 220.325.20-2.5 | 220.325.20G-2.5 |

FRAISES

فرزها

فرزهای V شکل

Multi-VFräser

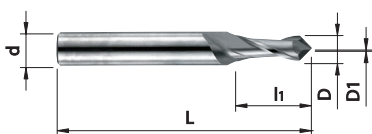
End mills Multi-V

Frese Multi-V

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|--------|---|--|--|----------|----------------|-----------------|
| 2 | 2 | 0 | 5 | 2 | 5 | | | G | 220.525 | 220.525G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z2 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | AICRON | | |

gamme élargie

دارای مدل های مختلف



SATIS
cut



Type N

Norme SATIS

| Angle | D _{h9} | D ₁ | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|-------|-----------------|----------------|-----------------|----------------|----|----------------|-------------------------|--------------------------------|
| 60° | 1 | 0.1 | 3 | 2 | 39 | 2 | 220.525-60-1 | 220.525G-60-1 |
| | 1.5 | 0.15 | 3 | 3 | 39 | 2 | 220.525-60-1.5 | 220.525G-60-1.5 |
| | 2 | 0.2 | 3 | 4 | 39 | 2 | 220.525-60-2 | 220.525G-60-2 |
| | 2.5 | 0.25 | 3 | 5 | 39 | 2 | 220.525-60-2.5 | 220.525G-60-2.5 |
| | 3 | 0.3 | 4 | 6 | 50 | 2 | 220.525-60-3 | 220.525G-60-3 |
| | 4 | 0.4 | 5 | 8 | 50 | 2 | 220.525-60-4 | 220.525G-60-4 |
| 90° | 6 | 0.6 | 8 | 12 | 60 | 2 | 220.525-60-6 | 220.525G-60-6 |
| | 0.1 | 0.01 | 3 | 0.2 | 39 | 2 | 220.525-90-0.1 | 220.525G-90-0.1 |
| | 0.2 | 0.02 | 3 | 0.4 | 39 | 2 | 220.525-90-0.2 | 220.525G-90-0.2 |
| | 0.3 | 0.03 | 3 | 0.6 | 39 | 2 | 220.525-90-0.3 | 220.525G-90-0.3 |
| | 0.4 | 0.04 | 3 | 0.8 | 39 | 2 | 220.525-90-0.4 | 220.525G-90-0.4 |
| | 0.5 | 0.05 | 3 | 1 | 39 | 2 | 220.525-90-0.5 | 220.525G-90-0.5 |
| | 0.6 | 0.06 | 3 | 1.2 | 39 | 2 | 220.525-90-0.6 | 220.525G-90-0.6 |
| | 0.7 | 0.07 | 3 | 1.4 | 39 | 2 | 220.525-90-0.7 | 220.525G-90-0.7 |
| | 0.8 | 0.08 | 3 | 1.6 | 39 | 2 | 220.525-90-0.8 | 220.525G-90-0.8 |
| | 0.9 | 0.09 | 3 | 1.8 | 39 | 2 | 220.525-90-0.9 | 220.525G-90-0.9 |
| | 1 | 0.1 | 3 | 2 | 39 | 2 | 220.525-90-1 | 220.525G-90-1 |
| | 1.1 | 0.11 | 3 | 2.2 | 39 | 2 | 220.525-90-1.1 | 220.525G-90-1.1 |
| | 1.2 | 0.12 | 3 | 2.4 | 39 | 2 | 220.525-90-1.2 | 220.525G-90-1.2 |
| | 1.3 | 0.13 | 3 | 2.6 | 39 | 2 | 220.525-90-1.3 | 220.525G-90-1.3 |
| | 1.4 | 0.14 | 3 | 2.8 | 39 | 2 | 220.525-90-1.4 | 220.525G-90-1.4 |
| | 1.5 | 0.15 | 3 | 3 | 39 | 2 | 220.525-90-1.5 | 220.525G-90-1.5 |
| | 1.6 | 0.16 | 3 | 3.2 | 39 | 2 | 220.525-90-1.6 | 220.525G-90-1.6 |
| | 1.7 | 0.17 | 3 | 3.4 | 39 | 2 | 220.525-90-1.7 | 220.525G-90-1.7 |
| | 1.8 | 0.18 | 3 | 3.6 | 39 | 2 | 220.525-90-1.8 | 220.525G-90-1.8 |
| 1.9 | 0.19 | 3 | 3.8 | 39 | 2 | 220.525-90-1.9 | 220.525G-90-1.9 | |



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FRAISES


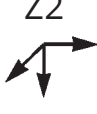
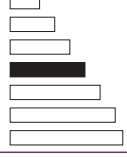
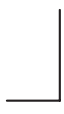
فرزها

فرزهای V شکل

Multi-VFräser

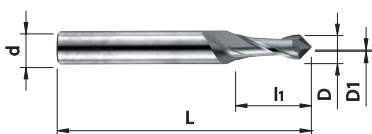
End mills Multi-V

Frese Multi-V

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|---|---|--|---|----------|----------------|-----------------|
| 2 | 2 | 0 | 5 | 2 | 5 | | | G | 220.525 | 220.525G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese |  | | Z2  |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | ALCRON | | |

gamme élargie

دارای مدل های مختلف



SATIS
cut



Type N

Norme SATIS

| Angle | D _{h9} | D ₁ | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu ALCRON باروکش |
|-------|-----------------|----------------|-----------------|----------------|----|---|-------------------------|-------------------------|
| 90° | 2 | 0.2 | 3 | 4 | 39 | 2 | 220.525-90-2 | 220.525G-90-2 |
| | 2.1 | 0.21 | 3 | 4.2 | 39 | 2 | 220.525-90-2.1 | 220.525G-90-2.1 |
| | 2.2 | 0.22 | 3 | 4.4 | 39 | 2 | 220.525-90-2.2 | 220.525G-90-2.2 |
| | 2.3 | 0.23 | 3 | 4.6 | 39 | 2 | 220.525-90-2.3 | 220.525G-90-2.3 |
| | 2.4 | 0.24 | 3 | 4.8 | 39 | 2 | 220.525-90-2.4 | 220.525G-90-2.4 |
| | 2.5 | 0.25 | 3 | 5 | 39 | 2 | 220.525-90-2.5 | 220.525G-90-2.5 |
| | 2.6 | 0.26 | 3 | 5.2 | 39 | 2 | 220.525-90-2.6 | 220.525G-90-2.6 |
| | 3 | 0.3 | 4 | 6 | 50 | 2 | 220.525-90-3 | 220.525G-90-3 |
| | 4 | 0.4 | 5 | 8 | 50 | 2 | 220.525-90-4 | 220.525G-90-4 |
| | 6 | 0.6 | 8 | 12 | 60 | 2 | 220.525-90-6 | 220.525G-90-6 |
| 120° | 8 | 0.8 | 10 | 16 | 70 | 2 | 220.525-90-8 | 220.525G-90-8 |
| | 10 | 1 | 12 | 18 | 70 | 2 | 220.525-90-10 | 220.525G-90-10 |
| | 1 | 0.1 | 3 | 2 | 39 | 2 | 220.525-120-1 | 220.525G-120-1 |
| | 1.5 | 0.15 | 3 | 3 | 39 | 2 | 220.525-120-1.5 | 220.525G-120-1.5 |
| | 2 | 0.2 | 3 | 4 | 39 | 2 | 220.525-120-2 | 220.525G-120-2 |
| | 2.5 | 0.25 | 3 | 5 | 39 | 2 | 220.525-120-2.5 | 220.525G-120-2.5 |
| | 3 | 0.3 | 4 | 6 | 50 | 2 | 220.525-120-3 | 220.525G-120-3 |
| | 4 | 0.4 | 5 | 8 | 50 | 2 | 220.525-120-4 | 220.525G-120-4 |



INEO
Tech
مشخصات فنی

>>> p 147

FRAISES

فرزها

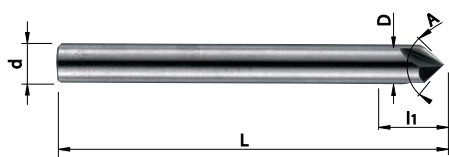
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|---------|---|--|-----|----------|-------------|--------------|
| 2 | 2 | 0 | 5 | 3 | 5 | | | G | 220.535-090 | 220.535G-090 |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | Z3 ↓ | | | 90° | AlCrON | | |



SATIS
cut



Type H
Norme SATIS

gamme élargie

دارای مدل های مختلف

| D_{h6} | d_{h6} | l_1 | L | Z | Angle | Non revêtu بدون روکش | Revêtu AlCrON باروکش AlCrON |
|----------|----------|-------|----|---|-------|-------------------------|--------------------------------|
| 0.5 | 3 | 2 | 39 | 3 | 90° | 220.535-090-0.5 | 220.535G-090-0.5 |
| 0.8 | 3 | 3 | 39 | 3 | 90° | 220.535-090-0.8 | 220.535G-090-0.8 |
| 1 | 3 | 3 | 39 | 3 | 90° | 220.535-090-1 | 220.535G-090-1 |
| 1.5 | 3 | 4.5 | 39 | 3 | 90° | 220.535-090-1.5 | 220.535G-090-1.5 |
| 2 | 3 | 6 | 39 | 3 | 90° | 220.535-090-2 | 220.535G-090-2 |
| 2.5 | 3 | 7.5 | 39 | 3 | 90° | 220.535-090-2.5 | 220.535G-090-2.5 |
| 3 | 3 | | 39 | 3 | 90° | 220.535-090-3 | 220.535G-090-3 |
| 4 | 4 | | 50 | 3 | 90° | 220.535-090-4 | 220.535G-090-4 |
| 6 | 6 | | 57 | 3 | 90° | 220.535-090-6 | 220.535G-090-6 |
| 8 | 8 | | 63 | 3 | 90° | 220.535-090-8 | 220.535G-090-8 |
| 10 | 10 | | 72 | 3 | 90° | 220.535-090-10 | 220.535G-090-10 |
| 12 | 12 | | 83 | 3 | 90° | 220.535-090-12 | 220.535G-090-12 |
| 16 | 16 | | 92 | 3 | 90° | 220.535-090-16 | 220.535G-090-16 |

Fraises
de forme
فرزهای شکل دار


SATIS
TOOL

FRAISES





فرزها

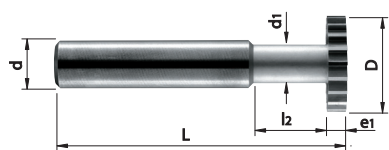
فرزهای T شکل
(چتری)

T-Nutenfräser

T-slot cutter

Frese a T

| | | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|---|---|--|--|--|----------|---------------|----------------|
| 2 | 2 | 4 | 1 | 1 | 2 | | | | G | 224112 | 224112G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese |  |  |  |  | | | | AICRON | | |



SATIS
cut

nouveau جدید

2 tailles با دو اندازه (برش)
denture droite دندانه راست گرد
Norme SATIS

| D | $e_{1+/-0.01}$ | de stock ... | d_1 | l_2 | d_{h7} | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|----|----------------|--------------|-------|-------|----------|----|----|-------------------------|--------------------------------|
| 4 | 0.3 - 1.5 | tous les 0.1 | 2 | 3 | 4 | 50 | 4 | 224112-4-... | 224112G-4-... |
| 6 | 0.3 - 1.5 | tous les 0.1 | 3 | 6 | 6 | 50 | 6 | 224112-6-... | 224112G-6-... |
| 6 | 2.0 - 3.0 | tous les 0.5 | 3 | 6 | 6 | 50 | 6 | 224112-6-... | 224112G-6-... |
| 8 | 0.3 - 1.5 | tous les 0.1 | 4 | 8 | 8 | 50 | 8 | 224112-8-... | 224112G-8-... |
| 8 | 2.0 - 3.0 | tous les 0.5 | 4 | 8 | 8 | 50 | 8 | 224112-8-... | 224112G-8-... |
| 10 | 0.5 - 1.5 | tous les 0.1 | 5 | 8 | 10 | 50 | 10 | 224112-10-... | 224112G-10-... |
| 10 | 2.0 - 4.0 | tous les 0.5 | 5 | 8 | 10 | 50 | 10 | 224112-10-... | 224112G-10-... |
| 16 | 0.5 - 2.5 | tous les 0.1 | 6.5 | 11 | 10 | 50 | 16 | 224112-16-... | 224112G-16-... |
| 16 | 3.0 - 5.0 | tous les 0.5 | 6.5 | 11 | 10 | 50 | 16 | 224112-16-... | 224112G-16-... |
| 20 | 1.0 - 2.5 | tous les 0.5 | 8 | 11 | 10 | 60 | 20 | 224112-20-... | 224112G-20-... |
| 20 | 3.0 - 5.0 | tous les 1 | 8 | 11 | 10 | 60 | 20 | 224112-20-... | 224112G-20-... |
| 25 | 1.0 - 2.5 | tous les 0.5 | 8 | 13 | 12 | 60 | 24 | 224112-25-... | 224112G-25-... |
| 25 | 3.0 - 5.0 | tous les 1 | 8 | 13 | 12 | 60 | 24 | 224112-25-... | 224112G-25-... |

Autres exécutions sur demande

بقیه موارد طبق درخواست

FRAISES

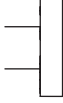



فرزها

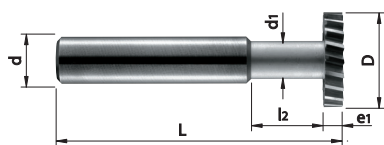
فرزهای T شکل
(چتری)

T-Nutenfräser

T-slot cutter

Frese a T

| | | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|---|---|--|--|--|--------|--------|---------|
| 2 | 2 | 4 | 1 | 5 | 2 | | | | G | 224152 | 224152G |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese |  |  |  |  | | | | AICRON | | |



SATIS
cut

جدید **nouveau**

2 tailles با ۲ اندازه (برش)
denture hélicoïdale دندانه مارپیچ
Norme SATIS

| D | $e_{1 \pm 0.01}$ | de stock... | d_1 | l_2 | d_{h7} | L | Z | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|----|------------------|-------------|-------|-------|----------|----|----|-------------------------|--------------------------------|
| 16 | 6 - 10 | tous les 1 | 6.5 | 11 | 10 | 50 | 16 | 224152-16-... | 224152G-16-... |
| 20 | 6 - 9 | tous les 1 | 8 | 11 | 10 | 60 | 20 | 224152-20-... | 224152G-20-... |
| 20 | 10 - 20 | tous les 2 | 8 | 8 | 10 | 60 | 20 | 224152-20-... | 224152G-20-... |
| 25 | 6 - 9 | tous les 1 | 8 | 13 | 12 | 60 | 24 | 224152-25-... | 224152G-25-... |
| 25 | 10 - 20 | tous les 2 | 8 | 10 | 12 | 60 | 24 | 224152-25-... | 224152G-25-... |
| 32 | 4 - 10 | tous les 2 | 16 | 13 | 12 | 60 | 32 | 224152-32-... | 224152G-32-... |
| 32 | 12 - 14 | tous les 2 | 16 | 10 | 12 | 60 | 32 | 224152-32-... | 224152G-32-... |
| 32 | 16 - 24 | tous les 2 | 16 | 5 | 12 | 60 | 32 | 224152-32-... | 224152G-32-... |

Autres exécutions sur demande

بقیه موارد طبق درخواست

FRAISES

فرزها

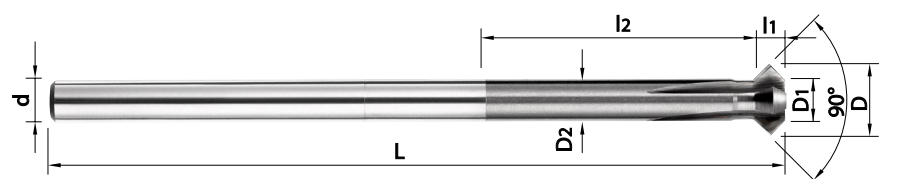
فرزهای دوماخروطی

Prismenfräser

Double angle cutters

Frese isocèle

| | | | | | | | | | | |
|------------------------|---------------------------------------|---|---|---|--|------------|--|-------|--------|---------|
| 2 | 2 | 4 | 4 | 1 | 1 | | | S | 224411 | 224411S |
| MD HM/SC MG KX10 | فرزها Fräser End mills Frese | | | | $\lambda 0^\circ$ $\gamma \sim 8^\circ$ | 90° | | AITiN | | |



SATIS
star

جدید **nouveau**

Norme SATIS

| D | D ₁ | l ₁ | D ₂ | l ₂ | d _{h6} | L | Z | Non revêtu بدون روکش | Revêtu AITiN با روکش AITiN |
|------|----------------|----------------|----------------|----------------|-----------------|-----|---|-------------------------|-------------------------------|
| 1 | 0.3 | 0.5 | 0.7 | 5 | 3 | 60 | 3 | 224411-90-1-0.3 | 224411S-90-1-0.3 |
| 1.5 | 0.5 | 0.7 | 1.1 | 6 | 3 | 60 | 3 | 224411-90-1.5-0.5 | 224411S-90-1.5-0.5 |
| 2 | 0.6 | 0.95 | 1.5 | 8 | 3 | 60 | 3 | 224411-90-2-0.6 | 224411S-90-2-0.6 |
| 2.8 | 0.9 | 1.3 | 2.1 | 10 | 3 | 60 | 3 | 224411-90-2.8-0.9 | 224411S-90-2.8-0.9 |
| 3 | 0.9 | 1.5 | 2.1 | 10 | 3 | 60 | 3 | 224411-90-3-0.9 | 224411S-90-3-0.9 |
| 2.8 | 1.2 | 1.1 | 2.2 | 10 | 6 | 100 | 4 | 224411-90-2.8-1.2 | 224411S-90-2.8-1.2 |
| 3 | 1.2 | 1.3 | 2.2 | 10 | 6 | 100 | 4 | 224411-90-3-1.2 | 224411S-90-3-1.2 |
| 3.8 | 1.6 | 1.6 | 2.9 | 12 | 6 | 100 | 4 | 224411-90-3.8-1.6 | 224411S-90-3.8-1.6 |
| 4 | 1.6 | 1.8 | 2.9 | 12 | 6 | 100 | 4 | 224411-90-4-1.6 | 224411S-90-4-1.6 |
| 4.8 | 2 | 2.1 | 3.4 | 15 | 6 | 100 | 4 | 224411-90-4.8-2 | 224411S-90-4.8-2 |
| 5 | 2 | 2.3 | 3.4 | 15 | 6 | 100 | 4 | 224411-90-5-2 | 224411S-90-5-2 |
| 5.8 | 2.4 | 2.7 | 3.8 | 18 | 6 | 100 | 4 | 224411-90-5.8-2.4 | 224411S-90-5.8-2.4 |
| 6 | 2.4 | 2.9 | 3.8 | 18 | 6 | 100 | 4 | 224411-90-6-2.4 | 224411S-90-6-2.4 |
| 7.8 | 4.9 | 2.8 | 4.9 | 34 | 6 | 100 | 4 | 224411-90-7.8-4.9 | 224411S-90-7.8-4.9 |
| 8 | 4.9 | 3.1 | 4.9 | 34 | 6 | 100 | 4 | 224411-90-8-4.9 | 224411S-90-8-4.9 |
| 9.8 | 5.9 | 3.8 | 5.9 | 34 | 6 | 100 | 4 | 224411-90-9.8-5.9 | 224411S-90-9.8-5.9 |
| 10 | 5.9 | 4.1 | 5.9 | 34 | 6 | 100 | 4 | 224411-90-10-5.9 | 224411S-90-10-5.9 |
| 11.8 | 5.9 | 5.8 | 5.9 | 34 | 6 | 100 | 4 | 224411-90-11.8-5.9 | 224411S-90-11.8-5.9 |
| 12 | 5.9 | 6.1 | 5.9 | 34 | 6 | 100 | 4 | 224411-90-12-5.9 | 224411S-90-12-5.9 |

FRAISES

فرزها

قلاویز

Gewindefräser

Thread mills

Frese per filletare

2

2

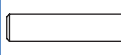
0

8

0/1

MD
HM/SC
MG KX10

فرزها
Fräser
End mills
Frese

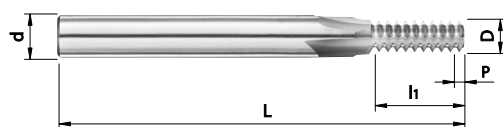


M
/
MF

ISO
60°

22080

22081



جدید **nouveau**

FILETAGE INTERIEUR ایجاد شیارهای داخلی

SATIS
cut

Goujures droites

شیارهای راست گرد

| M | Pas | D | l_1 | d_{h6} | L | Z | Non revêtu بدون روکش |
|------|------|-----|-------|----------|----|------------------|-------------------------|
| 1.4 | 0.3 | 1 | 2.4 | 3 | 39 | 3 | 22080-03010N0.30 |
| 1.6 | 0.35 | 1 | 2.45 | 3 | 39 | 3 | 22080-03010N0.35 |
| 2 | 0.4 | 1.3 | 3.2 | 3 | 39 | 3 | 22080-03013N0.40 |
| 2.5 | 0.45 | 1.5 | 3.6 | 3 | 39 | 3 | 22080-03015N0.45 |
| 3 | 0.5 | 2.1 | 4.5 | 3 | 39 | 3 | 22080-03021N0.50 |
| 4 | 0.7 | 2.6 | 6.3 | 3 | 39 | 3 | 22080-03026N0.70 |
| 4.5 | 0.75 | 3 | 6.75 | 4 | 42 | 3 | 22080-04030N0.75 |
| 5 | 0.8 | 3.6 | 8 | 4 | 42 | 3 | 22080-04036N0.80 |
| 6 | 1 | 4 | 9 | 6 | 57 | 3 | 22080-06040N1.00 |
| 8 | 1.25 | 5 | 12.5 | 6 | 57 | 3 | 22080-06050N1.25 |
| 10 | 1.5 | 5.9 | 15 | 6 | 57 | 5 | 22080-06059N1.50 |
| 12 | 1.75 | 7.9 | 19.25 | 8 | 63 | 5 | 22080-08079N1.75 |
| 16 | 2 | 9.9 | 24 | 10 | 72 | 5 | 22080-10099N2.00 |
| MF | 0.2 | 1 | 2.2 | 3 | 39 | 3 | 22081-03010N0.20 |
| | 0.25 | 1 | 2.25 | 3 | 39 | 3 | 22081-03010N0.25 |
| | 0.2 | 1.3 | 3.2 | 3 | 39 | 3 | 22081-03013N0.20 |
| | 0.25 | 1.3 | 3.25 | 3 | 39 | 3 | 22081-03013N0.25 |
| | 0.2 | 2.1 | 5 | 3 | 39 | 3 | 22081-03021N0.20 |
| | 0.25 | 2.1 | 6 | 3 | 39 | 3 | 22081-03021N0.25 |
| | 0.3 | 2.1 | 6 | 3 | 39 | 3 | 22081-03021N0.30 |
| 0.35 | 2.1 | 6.3 | 3 | 39 | 3 | 22081-03021N0.35 | |

Autres exécutions sur demande

بقیه موارد طبق درخواست



Fraises
circulaires
فرزهای دیسکی



**SATIS
TOOL**

فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

FRAISES scies

فرزهای ارّه ای (دیسکی)

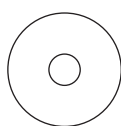
2

2

7

MD
HM/SC
MG

فرزها
Sagen
Saws
Seghe

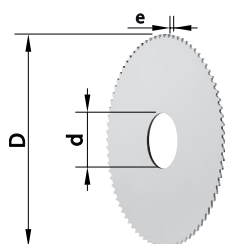


Norme
SATIS

$\lambda \sim 6^\circ$
 12°



227



SATIS
cut

nouveau جدید

Exécution poli glacé

با عملکرد جلای براق و صیقلی

Autres dimensions et

dentures sur demande

ابعاد و دندانهای دیگر طبق درخواست

| $D_{+/-0.02}$ | d_{H6} | $e_{0/+0.005}$ | Non revêtu بدون روکش | $D_{+/-0.02}$ | d_{H6} | $e_{0/+0.005}$ | Non revêtu بدون روکش |
|---------------|----------|----------------|-------------------------|---------------|----------|----------------|-------------------------|
| 15 | 5 | 0.07 | 227-15-5-0.07 | 20 | 5 | 0.07 | 227-20-5-0.07 |
| 15 | 5 | 0.08 | 227-15-0.08 | 20 | 5 | 0.08 | 227-20-0.08 |
| 15 | 5 | 0.09 | 227-15-0.09 | 20 | 5 | 0.09 | 227-20-0.09 |
| 15 | 5 | 0.1 | 227-15-0.1 | 20 | 5 | 0.1 | 227-20-0.1 |
| 15 | 5 | 0.11 | 227-15-0.1 | 20 | 5 | 0.11 | 227-20-0.1 |
| 15 | 5 | 0.12 | 227-15-0.12 | 20 | 5 | 0.12 | 227-20-0.12 |
| 15 | 5 | 0.13 | 227-15-0.13 | 20 | 5 | 0.13 | 227-20-0.13 |
| 15 | 5 | 0.14 | 227-15-0.14 | 20 | 5 | 0.14 | 227-20-0.14 |
| 15 | 5 | 0.15 | 227-15-0.15 | 20 | 5 | 0.15 | 227-20-0.15 |
| 15 | 5 | 0.16 | 227-15-0.16 | 20 | 5 | 0.16 | 227-20-0.16 |
| 15 | 5 | 0.17 | 227-15-0.17 | 20 | 5 | 0.17 | 227-20-0.17 |
| 15 | 5 | 0.18 | 227-15-0.18 | 20 | 5 | 0.18 | 227-20-0.18 |
| 15 | 5 | 0.19 | 227-15-0.19 | 20 | 5 | 0.19 | 227-20-0.19 |
| 15 | 5 | 0.2 | 227-15-0.2 | 20 | 5 | 0.2 | 227-20-0.2 |
| 15 | 5 | 0.21 | 227-15-0.21 | 20 | 5 | 0.21 | 227-20-0.21 |
| 15 | 5 | 0.22 | 227-15-0.22 | 20 | 5 | 0.22 | 227-20-0.22 |
| 15 | 5 | 0.23 | 227-15-0.23 | 20 | 5 | 0.23 | 227-20-0.23 |
| 15 | 5 | 0.24 | 227-15-0.24 | 20 | 5 | 0.24 | 227-20-0.24 |
| 15 | 5 | 0.25 | 227-15-0.25 | 20 | 5 | 0.25 | 227-20-0.25 |
| 15 | 5 | 0.26 | 227-15-0.26 | 20 | 5 | 0.26 | 227-20-0.26 |
| 15 | 5 | 0.27 | 227-15-0.27 | 20 | 5 | 0.27 | 227-20-0.27 |
| 15 | 5 | 0.28 | 227-15-0.28 | 20 | 5 | 0.28 | 227-20-0.28 |
| 15 | 5 | 0.29 | 227-15-0.29 | 20 | 5 | 0.29 | 227-20-0.29 |
| 15 | 5 | 0.3 | 227-15-0.3 | 20 | 5 | 0.3 | 227-20-0.3 |

Livrabable de stock avec 80 ou 100 dents

قابل تحویل از انبار با ۸۰ یا ۱۰۰ دندانه

INFO
Tech
مشخصات فنی

>>> p 148

FRAISES scies

فرزهای ارّه ای (دیسکی)

فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

2

2

7

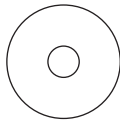
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1

1

MD
HM/SC
MG

فرزها
Sagen
Saws
Seghe

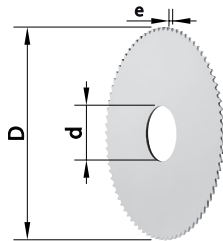


DIN
1837

$\lambda \sim 6^\circ$
 12°



227.011



SATIS
cut

Autres dimensions et
dentures sur demande
ابعاد و دندانهای دیگر طبق درخواست

| D | d _{H7} | e | Z | Non revêtu بدون روکش | D | d _{H7} | e | Z | Non revêtu بدون روکش | D | d _{H7} | e | Z | Non revêtu بدون روکش |
|----|-----------------|------|----|-------------------------|----|-----------------|------|----|-------------------------|----|-----------------|------|----|-------------------------|
| 15 | 5 | 0.1 | 64 | 227.011-15-0.1 | 20 | 5 | 0.1 | 80 | 227.011-20-0.1 | 25 | 8 | 0.1 | 80 | 227.011-25-0.1 |
| 15 | 5 | 0.15 | 64 | 227.011-15-0.15 | 20 | 5 | 0.15 | 80 | 227.011-20-0.15 | 25 | 8 | 0.15 | 80 | 227.011-25-0.15 |
| 15 | 5 | 0.2 | 64 | 227.011-15-0.2 | 20 | 5 | 0.2 | 80 | 227.011-20-0.2 | 25 | 8 | 0.2 | 80 | 227.011-25-0.2 |
| 15 | 5 | 0.25 | 64 | 227.011-15-0.25 | 20 | 5 | 0.25 | 64 | 227.011-20-0.25 | 25 | 8 | 0.25 | 80 | 227.011-25-0.25 |
| 15 | 5 | 0.3 | 64 | 227.011-15-0.3 | 20 | 5 | 0.3 | 64 | 227.011-20-0.3 | 25 | 8 | 0.3 | 80 | 227.011-25-0.3 |
| 15 | 5 | 0.35 | 64 | 227.011-15-0.35 | 20 | 5 | 0.35 | 64 | 227.011-20-0.35 | 25 | 8 | 0.35 | 64 | 227.011-25-0.35 |
| 15 | 5 | 0.4 | 64 | 227.011-15-0.4 | 20 | 5 | 0.4 | 64 | 227.011-20-0.4 | 25 | 8 | 0.4 | 64 | 227.011-25-0.4 |
| 15 | 5 | 0.45 | 48 | 227.011-15-0.45 | 20 | 5 | 0.45 | 48 | 227.011-20-0.45 | 25 | 8 | 0.45 | 64 | 227.011-25-0.45 |
| 15 | 5 | 0.5 | 48 | 227.011-15-0.5 | 20 | 5 | 0.5 | 48 | 227.011-20-0.5 | 25 | 8 | 0.5 | 64 | 227.011-25-0.5 |
| 15 | 5 | 0.6 | 48 | 227.011-15-0.6 | 20 | 5 | 0.6 | 48 | 227.011-20-0.6 | 25 | 8 | 0.6 | 64 | 227.011-25-0.6 |
| 15 | 5 | 0.7 | 48 | 227.011-15-0.7 | 20 | 5 | 0.7 | 48 | 227.011-20-0.7 | 25 | 8 | 0.7 | 48 | 227.011-25-0.7 |
| 15 | 5 | 0.8 | 40 | 227.011-15-0.8 | 20 | 5 | 0.8 | 40 | 227.011-20-0.8 | 25 | 8 | 0.8 | 48 | 227.011-25-0.8 |
| 15 | 5 | 0.9 | 40 | 227.011-15-0.9 | 20 | 5 | 0.9 | 40 | 227.011-20-0.9 | 25 | 8 | 0.9 | 48 | 227.011-25-0.9 |
| 15 | 5 | 1 | 40 | 227.011-15-1 | 20 | 5 | 1 | 40 | 227.011-20-1 | 25 | 8 | 1 | 48 | 227.011-25-1 |
| 15 | 5 | 1.1 | 40 | 227.011-15-1.1 | 20 | 5 | 1.1 | 40 | 227.011-20-1.1 | 25 | 8 | 1.1 | 48 | 227.011-25-1.1 |
| 15 | 5 | 1.2 | 40 | 227.011-15-1.2 | 20 | 5 | 1.2 | 40 | 227.011-20-1.2 | 25 | 8 | 1.2 | 48 | 227.011-25-1.2 |
| 15 | 5 | 1.3 | 40 | 227.011-15-1.3 | 20 | 5 | 1.3 | 40 | 227.011-20-1.3 | 25 | 8 | 1.3 | 40 | 227.011-25-1.3 |
| 15 | 5 | 1.4 | 40 | 227.011-15-1.4 | 20 | 5 | 1.4 | 40 | 227.011-20-1.4 | 25 | 8 | 1.4 | 40 | 227.011-25-1.4 |
| 15 | 5 | 1.5 | 40 | 227.011-15-1.5 | 20 | 5 | 1.5 | 40 | 227.011-20-1.5 | 25 | 8 | 1.5 | 40 | 227.011-25-1.5 |
| 15 | 5 | 1.6 | 40 | 227.011-15-1.6 | 20 | 5 | 1.6 | 40 | 227.011-20-1.6 | 25 | 8 | 1.6 | 40 | 227.011-25-1.6 |
| 15 | 5 | 1.7 | 40 | 227.011-15-1.7 | 20 | 5 | 1.7 | 32 | 227.011-20-1.7 | 25 | 8 | 1.7 | 40 | 227.011-25-1.7 |
| 15 | 5 | 1.8 | 40 | 227.011-15-1.8 | 20 | 5 | 1.8 | 32 | 227.011-20-1.8 | 25 | 8 | 1.8 | 40 | 227.011-25-1.8 |
| 15 | 5 | 1.9 | 40 | 227.011-15-1.9 | 20 | 5 | 1.9 | 32 | 227.011-20-1.9 | 25 | 8 | 1.9 | 40 | 227.011-25-1.9 |
| 15 | 5 | 2 | 40 | 227.011-15-2 | 20 | 5 | 2 | 32 | 227.011-20-2 | 25 | 8 | 2 | 40 | 227.011-25-2 |
| 15 | 5 | 2.5 | 40 | 227.011-15-2.5 | 20 | 5 | 2.5 | 32 | 227.011-20-2.5 | 25 | 8 | 2.5 | 40 | 227.011-25-2.5 |
| 15 | 5 | 3 | 40 | 227.011-15-3 | 20 | 5 | 3 | 32 | 227.011-20-3 | 25 | 8 | 3 | 32 | 227.011-25-3 |
| 15 | 5 | 3.5 | 24 | 227.011-15-3.5 | 20 | 5 | 3.5 | 24 | 227.011-20-3.5 | 25 | 8 | 3.5 | 32 | 227.011-25-3.5 |
| 15 | 5 | 4 | 24 | 227.011-15-4 | 20 | 5 | 4 | 24 | 227.011-20-4 | 25 | 8 | 4 | 32 | 227.011-25-4 |
| 15 | 5 | 5 | 24 | 227.011-15-5 | 20 | 5 | 5 | 24 | 227.011-20-5 | 25 | 8 | 5 | 32 | 227.011-25-5 |
| 15 | 5 | 6 | 24 | 227.011-15-6 | 20 | 5 | 6 | 24 | 227.011-20-6 | 25 | 8 | 6 | 24 | 227.011-25-6 |

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فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

FRAISES scies

فرزهای ارّه ای (دیسکی)

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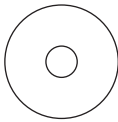
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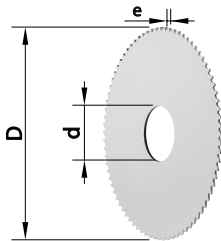
MD
HM/SC
MG

فرزها
Sagen
Saws
Seghe



DIN
1837

$\lambda \sim 6^\circ$
 12°



SATIS
cut

Autres dimensions et
dentures sur demande
ابعاد و دندانه های دیگر طبق درخواست

| D | d _{H7} | e | Z | Non revêtu بدون روکش | D | d _{H7} | e | Z | Non revêtu بدون روکش | D | d _{H7} | e | Z | Non revêtu بدون روکش |
|----|-----------------|------|-----|-------------------------|----|-----------------|------|-----|-------------------------|----|-----------------|------|-----|-------------------------|
| 30 | 8 | 0.1 | 100 | 227.011-30-0.1 | 40 | 10 | 0.1 | 128 | 227.011-40-0.1 | 50 | 13 | 0.2 | 128 | 227.011-50-0.2 |
| 30 | 8 | 0.15 | 100 | 227.011-30-0.15 | 40 | 10 | 0.15 | 128 | 227.011-40-0.15 | 50 | 13 | 0.25 | 128 | 227.011-50-0.25 |
| 30 | 8 | 0.2 | 100 | 227.011-30-0.2 | 40 | 10 | 0.2 | 128 | 227.011-40-0.2 | 50 | 13 | 0.3 | 128 | 227.011-50-0.3 |
| 30 | 8 | 0.25 | 100 | 227.011-30-0.25 | 40 | 10 | 0.25 | 100 | 227.011-40-0.25 | 50 | 13 | 0.35 | 100 | 227.011-50-0.35 |
| 30 | 8 | 0.3 | 80 | 227.011-30-0.3 | 40 | 10 | 0.3 | 100 | 227.011-40-0.3 | 50 | 13 | 0.4 | 100 | 227.011-50-0.4 |
| 30 | 8 | 0.35 | 80 | 227.011-30-0.35 | 40 | 10 | 0.35 | 100 | 227.011-40-0.35 | 50 | 13 | 0.45 | 100 | 227.011-50-0.45 |
| 30 | 8 | 0.4 | 80 | 227.011-30-0.4 | 40 | 10 | 0.4 | 100 | 227.011-40-0.4 | 50 | 13 | 0.5 | 100 | 227.011-50-0.5 |
| 30 | 8 | 0.45 | 80 | 227.011-30-0.45 | 40 | 10 | 0.45 | 80 | 227.011-40-0.45 | 50 | 13 | 0.6 | 100 | 227.011-50-0.6 |
| 30 | 8 | 0.5 | 80 | 227.011-30-0.5 | 40 | 10 | 0.5 | 80 | 227.011-40-0.5 | 50 | 13 | 0.7 | 80 | 227.011-50-0.7 |
| 30 | 8 | 0.6 | 64 | 227.011-30-0.6 | 40 | 10 | 0.6 | 80 | 227.011-40-0.6 | 50 | 13 | 0.8 | 80 | 227.011-50-0.8 |
| 30 | 8 | 0.7 | 64 | 227.011-30-0.7 | 40 | 10 | 0.7 | 80 | 227.011-40-0.7 | 50 | 13 | 0.9 | 80 | 227.011-50-0.9 |
| 30 | 8 | 0.8 | 64 | 227.011-30-0.8 | 40 | 10 | 0.8 | 80 | 227.011-40-0.8 | 50 | 13 | 1 | 80 | 227.011-50-1 |
| 30 | 8 | 0.9 | 64 | 227.011-30-0.9 | 40 | 10 | 0.9 | 64 | 227.011-40-0.9 | 50 | 13 | 1.1 | 80 | 227.011-50-1.1 |
| 30 | 8 | 1 | 64 | 227.011-30-1 | 40 | 10 | 1 | 64 | 227.011-40-1 | 50 | 13 | 1.2 | 80 | 227.011-50-1.2 |
| 30 | 8 | 1.1 | 48 | 227.011-30-1.1 | 40 | 10 | 1.1 | 64 | 227.011-40-1.1 | 50 | 13 | 1.3 | 64 | 227.011-50-1.3 |
| 30 | 8 | 1.2 | 48 | 227.011-30-1.2 | 40 | 10 | 1.2 | 64 | 227.011-40-1.2 | 50 | 13 | 1.4 | 64 | 227.011-50-1.4 |
| 30 | 8 | 1.3 | 48 | 227.011-30-1.3 | 40 | 10 | 1.3 | 64 | 227.011-40-1.3 | 50 | 13 | 1.5 | 64 | 227.011-50-1.5 |
| 30 | 8 | 1.4 | 48 | 227.011-30-1.4 | 40 | 10 | 1.4 | 64 | 227.011-40-1.4 | 50 | 13 | 1.6 | 64 | 227.011-50-1.6 |
| 30 | 8 | 1.5 | 48 | 227.011-30-1.5 | 40 | 10 | 1.5 | 64 | 227.011-40-1.5 | 50 | 13 | 1.7 | 64 | 227.011-50-1.7 |
| 30 | 8 | 1.6 | 48 | 227.011-30-1.6 | 40 | 10 | 1.6 | 64 | 227.011-40-1.6 | 50 | 13 | 1.8 | 64 | 227.011-50-1.8 |
| 30 | 8 | 1.7 | 48 | 227.011-30-1.7 | 40 | 10 | 1.7 | 48 | 227.011-40-1.7 | 50 | 13 | 1.9 | 64 | 227.011-50-1.9 |
| 30 | 8 | 1.8 | 48 | 227.011-30-1.8 | 40 | 10 | 1.8 | 48 | 227.011-40-1.8 | 50 | 13 | 2 | 64 | 227.011-50-2 |
| 30 | 8 | 1.9 | 48 | 227.011-30-1.9 | 40 | 10 | 1.9 | 48 | 227.011-40-1.9 | 50 | 13 | 2.5 | 64 | 227.011-50-2.5 |
| 30 | 8 | 2 | 48 | 227.011-30-2 | 40 | 10 | 2 | 48 | 227.011-40-2 | 50 | 13 | 3 | 48 | 227.011-50-3 |
| 30 | 8 | 2.5 | 40 | 227.011-30-2.5 | 40 | 10 | 2.5 | 48 | 227.011-40-2.5 | 50 | 13 | 3.5 | 48 | 227.011-50-3.5 |
| 30 | 8 | 3 | 40 | 227.011-30-3 | 40 | 10 | 3 | 48 | 227.011-40-3 | 50 | 13 | 4 | 48 | 227.011-50-4 |
| 30 | 8 | 3.5 | 40 | 227.011-30-3.5 | 40 | 10 | 3.5 | 40 | 227.011-40-3.5 | 50 | 13 | 5 | 48 | 227.011-50-5 |
| 30 | 8 | 4 | 40 | 227.011-30-4 | 40 | 10 | 4 | 40 | 227.011-40-4 | 50 | 13 | 6 | 40 | 227.011-50-6 |
| 30 | 8 | 5 | 32 | 227.011-30-5 | 40 | 10 | 5 | 40 | 227.011-40-5 | | | | | |
| 30 | 8 | 6 | 32 | 227.011-30-6 | 40 | 10 | 6 | 40 | 227.011-40-6 | | | | | |

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فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

FRAISES scies

فرزهای ارّه ای (دیسکی)

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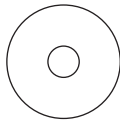
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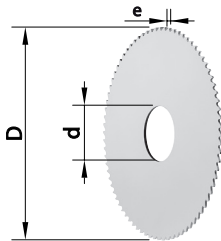
MD
HM/SC
MG

فرزها
Sagen
Saws
Seghe



DIN
1837

$\lambda \sim 6^\circ$
 12°



SATIS
cut

Autres dimensions et
dentures sur demande
ابعاد و دندان‌های دیگر طبق درخواست

| D | d _{H7} | e | Z | Non revêtu بدون روکش |
|----|-----------------|------|-----|-------------------------|
| 63 | 16 | 0.2 | 160 | 227.011-63-0.2 |
| 63 | 16 | 0.25 | 128 | 227.011-63-0.25 |
| 63 | 16 | 0.3 | 128 | 227.011-63-0.3 |
| 63 | 16 | 0.35 | 128 | 227.011-63-0.35 |
| 63 | 16 | 0.4 | 128 | 227.011-63-0.4 |
| 63 | 16 | 0.45 | 128 | 227.011-63-0.45 |
| 63 | 16 | 0.5 | 128 | 227.011-63-0.5 |
| 63 | 16 | 0.6 | 100 | 227.011-63-0.6 |
| 63 | 16 | 0.7 | 100 | 227.011-63-0.7 |
| 63 | 16 | 0.8 | 100 | 227.011-63-0.8 |
| 63 | 16 | 0.9 | 100 | 227.011-63-0.9 |
| 63 | 16 | 1 | 100 | 227.011-63-1 |
| 63 | 16 | 1.1 | 80 | 227.011-63-1.1 |
| 63 | 16 | 1.2 | 80 | 227.011-63-1.2 |
| 63 | 16 | 1.3 | 80 | 227.011-63-1.3 |
| 63 | 16 | 1.4 | 80 | 227.011-63-1.4 |
| 63 | 16 | 1.5 | 80 | 227.011-63-1.5 |
| 63 | 16 | 1.6 | 80 | 227.011-63-1.6 |
| 63 | 16 | 1.7 | 80 | 227.011-63-1.7 |
| 63 | 16 | 1.8 | 80 | 227.011-63-1.8 |
| 63 | 16 | 1.9 | 80 | 227.011-63-1.9 |
| 63 | 16 | 2 | 80 | 227.011-63-2 |
| 63 | 16 | 2.5 | 64 | 227.011-63-2.5 |
| 63 | 16 | 3 | 64 | 227.011-63-3 |
| 63 | 16 | 3.5 | 64 | 227.011-63-3.5 |
| 63 | 16 | 4 | 64 | 227.011-63-4 |
| 63 | 16 | 5 | 48 | 227.011-63-5 |
| 63 | 16 | 6 | 48 | 227.011-63-6 |

| D | d _{H7} | e | Z | Non revêtu بدون روکش |
|----|-----------------|------|-----|-------------------------|
| 80 | 22 | 0.3 | 160 | 227.011-80-0.3 |
| 80 | 22 | 0.35 | 160 | 227.011-80-0.35 |
| 80 | 22 | 0.4 | 160 | 227.011-80-0.4 |
| 80 | 22 | 0.45 | 128 | 227.011-80-0.45 |
| 80 | 22 | 0.5 | 128 | 227.011-80-0.5 |
| 80 | 22 | 0.6 | 128 | 227.011-80-0.6 |
| 80 | 22 | 0.7 | 128 | 227.011-80-0.7 |
| 80 | 22 | 0.8 | 128 | 227.011-80-0.8 |
| 80 | 22 | 0.9 | 100 | 227.011-80-0.9 |
| 80 | 22 | 1 | 100 | 227.011-80-1 |
| 80 | 22 | 1.1 | 100 | 227.011-80-1.1 |
| 80 | 22 | 1.2 | 100 | 227.011-80-1.2 |
| 80 | 22 | 1.3 | 100 | 227.011-80-1.3 |
| 80 | 22 | 1.4 | 100 | 227.011-80-1.4 |
| 80 | 22 | 1.5 | 100 | 227.011-80-1.5 |
| 80 | 22 | 1.6 | 100 | 227.011-80-1.6 |
| 80 | 22 | 1.7 | 80 | 227.011-80-1.7 |
| 80 | 22 | 1.8 | 80 | 227.011-80-1.8 |
| 80 | 22 | 1.9 | 80 | 227.011-80-1.9 |
| 80 | 22 | 2 | 80 | 227.011-80-2 |
| 80 | 22 | 2.5 | 80 | 227.011-80-2.5 |
| 80 | 22 | 3 | 80 | 227.011-80-3 |
| 80 | 22 | 3.5 | 64 | 227.011-80-3.5 |
| 80 | 22 | 4 | 64 | 227.011-80-4 |
| 80 | 22 | 5 | 64 | 227.011-80-5 |
| 80 | 22 | 6 | 64 | 227.011-80-6 |

| D | d _{H7} | e | Z | Non revêtu بدون روکش |
|-----|-----------------|-----|-----|-------------------------|
| 100 | 22 | 0.5 | 160 | 227.011-100-0.5 |
| 100 | 22 | 0.6 | 160 | 227.011-100-0.6 |
| 100 | 22 | 0.7 | 128 | 227.011-100-0.7 |
| 100 | 22 | 0.8 | 128 | 227.011-100-0.8 |
| 100 | 22 | 0.9 | 128 | 227.011-100-0.9 |
| 100 | 22 | 1 | 128 | 227.011-100-1 |
| 100 | 22 | 1.1 | 128 | 227.011-100-1.1 |
| 100 | 22 | 1.2 | 128 | 227.011-100-1.2 |
| 100 | 22 | 1.3 | 100 | 227.011-100-1.3 |
| 100 | 22 | 1.4 | 100 | 227.011-100-1.4 |
| 100 | 22 | 1.5 | 100 | 227.011-100-1.5 |
| 100 | 22 | 1.6 | 100 | 227.011-100-1.6 |
| 100 | 22 | 1.7 | 100 | 227.011-100-1.7 |
| 100 | 22 | 1.8 | 100 | 227.011-100-1.8 |
| 100 | 22 | 1.9 | 100 | 227.011-100-1.9 |
| 100 | 22 | 2 | 100 | 227.011-100-2 |
| 100 | 22 | 2.5 | 100 | 227.011-100-2.5 |
| 100 | 22 | 3 | 80 | 227.011-100-3 |
| 100 | 22 | 3.5 | 80 | 227.011-100-3.5 |
| 100 | 22 | 4 | 80 | 227.011-100-4 |
| 100 | 22 | 5 | 80 | 227.011-100-5 |
| 100 | 22 | 6 | 64 | 227.011-100-6 |

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FRAISES scies

فرزهای ارّه ای (دیسکی)

فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

2

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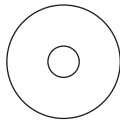
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MD
HM/SC
MG

فرزها
Sagen
Saws
Seghe

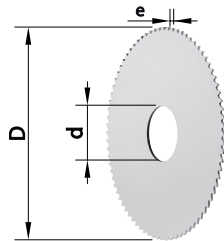


DIN
1837

$\lambda \sim 6^\circ$
 12°



227.011



SATIS
cut

Autres dimensions et
dentures sur demande
ابعاد و دندان‌های دیگر طبق درخواست

| D | d _{H7} | e | Z | Non revêtu بدون روکش |
|-----|-----------------|-----|-----|-------------------------|
| 125 | 22 | 0.6 | 160 | 227.011-125-0.6 |
| 125 | 22 | 0.7 | 160 | 227.011-125-0.7 |
| 125 | 22 | 0.8 | 160 | 227.011-125-0.8 |
| 125 | 22 | 0.9 | 160 | 227.011-125-0.9 |
| 125 | 22 | 1 | 160 | 227.011-125-1 |
| 125 | 22 | 1.1 | 128 | 227.011-125-1.1 |
| 125 | 22 | 1.2 | 128 | 227.011-125-1.2 |
| 125 | 22 | 1.4 | 128 | 227.011-125-1.4 |
| 125 | 22 | 1.5 | 128 | 227.011-125-1.5 |
| 125 | 22 | 1.6 | 128 | 227.011-125-1.6 |
| 125 | 22 | 1.8 | 128 | 227.011-125-1.8 |
| 125 | 22 | 2 | 128 | 227.011-125-2 |
| 125 | 22 | 2.5 | 100 | 227.011-125-2.5 |
| 125 | 22 | 3 | 100 | 227.011-125-3 |
| 125 | 22 | 3.5 | 100 | 227.011-125-3.5 |
| 125 | 22 | 4 | 100 | 227.011-125-4 |
| 125 | 22 | 5 | 100 | 227.011-125-5 |
| 125 | 22 | 6 | 100 | 227.011-125-6 |

| D | d _{H7} | e | Z | Non revêtu بدون روکش |
|-----|-----------------|-----|-----|-------------------------|
| 160 | 32 | 1 | 160 | 227.011-160-1 |
| 160 | 32 | 1.2 | 160 | 227.011-160-1.2 |
| 160 | 32 | 1.5 | 160 | 227.011-160-1.5 |
| 160 | 32 | 1.6 | 160 | 227.011-160-1.6 |
| 160 | 32 | 1.8 | 128 | 227.011-160-1.8 |
| 160 | 32 | 2 | 128 | 227.011-160-1.2 |
| 160 | 32 | 2.5 | 128 | 227.011-160-1.2.5 |
| 160 | 32 | 3 | 128 | 227.011-160-1.3 |
| 160 | 32 | 4 | 100 | 227.011-160-1.4 |

| D | d _{H7} | e | Z | Non revêtu بدون روکش |
|-----|-----------------|-----|-----|-------------------------|
| 200 | 32 | 1.2 | 200 | 27.011-200-1.2 |
| 200 | 32 | 1.5 | 160 | 27.011-200-1.5 |
| 200 | 32 | 1.6 | 160 | 27.011-200-1.6 |
| 200 | 32 | 2 | 160 | 27.011-200-2 |
| 200 | 32 | 2.5 | 160 | 27.011-200-2.5 |
| 200 | 32 | 3 | 128 | 27.011-200-3 |
| 200 | 32 | 4 | 128 | 27.011-200-4 |

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مشخصات فنی
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FRAISES scies

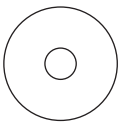



فرزهای ارّه ای (دیسکی)

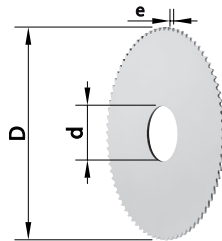
فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

| | | | | | | | | | | | |
|-------------------|---------------------------------|---|---|---|-------------|-------------------------------|---|--------|---------|----------|----------|
| 2 | 2 | 7 | 0 | 1 | 1 | | | G | N | 227.011G | 227.011N |
| MD HM/SC MG | فرزها Sagen Saws Seghe |  |  |  | DIN 1837 | $\lambda \sim 6^\circ$ 12° |  | AlCrON | TiAlN N | | |



SATIS
cut

Autres dimensions et
dentures sur demande
ابعاد و دندانها های دیگر طبق درخواست

| D | d _{H7} | e | Z | Revêtu AlCrON AlCrON باروکش | Revêtu TiAlN N |
|-----|-----------------|-----|-----|--------------------------------|------------------|
| 50 | 13 | 0.6 | 100 | 227.011G-50-0.6 | 227.011N-50-0.6 |
| 50 | 13 | 0.8 | 80 | 227.011G-50-0.8 | 227.011N-50-0.8 |
| 50 | 13 | 1 | 80 | 227.011G-50-1 | 227.011N-50-1 |
| 63 | 16 | 0.6 | 100 | 227.011G-63-0.6 | 227.011N-63-0.6 |
| 63 | 16 | 0.8 | 100 | 227.011G-63-0.8 | 227.011N-63-0.8 |
| 63 | 16 | 1 | 100 | 227.011G-63-1 | 227.011N-63-1 |
| 80 | 22 | 0.6 | 128 | 227.011G-80-0.6 | 227.011N-80-0.6 |
| 80 | 22 | 0.8 | 128 | 227.011G-80-0.8 | 227.011N-80-0.8 |
| 80 | 22 | 1 | 100 | 227.011G-80-1 | 227.011N-80-1 |
| 100 | 22 | 0.8 | 128 | 227.011G-100-0.8 | 227.011N-100-0.8 |
| 100 | 22 | 1 | 128 | 227.011G-100-1 | 227.011N-100-1 |
| 125 | 22 | 0.6 | 160 | 227.011G-125-0.6 | 227.011N-125-0.6 |
| 125 | 22 | 0.8 | 160 | 227.011G-125-0.8 | 227.011N-125-0.8 |
| 125 | 22 | 1 | 160 | 227.011G-125-1 | 227.011N-125-1 |

* 227.011N : Livrable avec revêtement TiAlN N jusqu'à épuisement du stock

* ۲۲۷.۰۱۱N : قابل تحویل با پوشش TiAlN N تا اتمام موجودی انبار.

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FRAISES scies

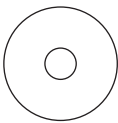



فرزهای ارّه ای (دیسکی)

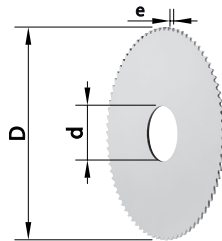
فرزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

| | | | | | | | | | |
|-------------------|---------------------------------|---|---|---|----------------|-------------------------------|---|----------|-----------------|
| 2 | 2 | 7 | 0 | 1 | 5 | | | G | 227.015G |
| MD HM/SC MG | فرزها Sagen Saws Seghe |  |  |  | Norme SATIS | $\lambda \sim 5^\circ$ 10° |  | AICRON | |



SATIS
cut

| D | d _{H7} | e | Z | Revêtu AICRON AICRON باروکش |
|-----|-----------------|-----|-----|--------------------------------|
| 50 | 13 | 0.5 | 64 | 227.015G-50-0.5 |
| 50 | 13 | 0.6 | 64 | 227.015G-50-0.6 |
| 50 | 13 | 0.8 | 64 | 227.015G-50-0.8 |
| 50 | 13 | 1 | 64 | 227.015G-50-1 |
| 63 | 16 | 0.5 | 80 | 227.015G-63-0.5 |
| 63 | 16 | 0.6 | 80 | 227.015G-63-0.6 |
| 63 | 16 | 0.8 | 80 | 227.015G-63-0.8 |
| 63 | 16 | 1 | 80 | 227.015G-63-1 |
| 80 | 22 | 0.5 | 100 | 227.015G-80-0.5 |
| 80 | 22 | 0.6 | 100 | 227.015G-80-0.6 |
| 80 | 22 | 0.8 | 100 | 227.015G-80-0.8 |
| 80 | 22 | 1 | 100 | 227.015G-80-1 |
| 100 | 22 | 0.8 | 120 | 227.015G-100-0.8 |
| 100 | 22 | 1 | 120 | 227.015G-100-1 |

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FRAISES scies

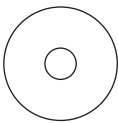



فِرِزهای ارّه ای (دیسکی)

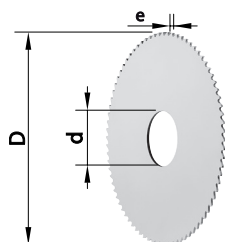
فِرِزهای ارّه ای
(دیسکی)

Kreissagen

Slitting saws

Seghe circolari

| | | | | | | | | | |
|-----------------------|-----------------------------------|---|---|---|----------------|-------------------------------|---|------|-----------|
| 2 | 2 | 7E | 0 | 1 | 6 | | M | PSNM | 227E.016M |
| MD HM/SC MG 658 | فِرِزها Sagen Saws Seghe |  |  |  | Norme SATIS | $\lambda \sim 5^\circ$ 10° |  | | |



SATIS
star

| D | d _{H7} | e | Z | Revêtu PSNM PSNM با روکش |
|-----|-----------------|-----|-----|-----------------------------|
| 50 | 13 | 0.8 | 64 | 227E.016M-50-0.8-64 |
| 50 | 13 | 0.8 | 80 | 227E.016M-50-0.8-80 |
| 50 | 13 | 1 | 64 | 227E.016M-50-1-64 |
| 50 | 13 | 1 | 80 | 227E.016M-50-1-80 |
| 63 | 16 | 0.8 | 80 | 227E.016M-63-0.8-80 |
| 63 | 16 | 0.8 | 100 | 227E.016M-63-0.8-100 |
| 63 | 16 | 1 | 80 | 227E.016M-63-1-80 |
| 63 | 16 | 1 | 100 | 227E.016M-63-1-100 |
| 80 | 22 | 0.8 | 100 | 227E.016M-80-0.8-100 |
| 80 | 22 | 0.8 | 128 | 227E.016M-80-0.8-128 |
| 80 | 22 | 1 | 100 | 227E.016M-80-1-100 |
| 100 | 22 | 0.8 | 120 | 227E.016M-100-0.8-120 |
| 100 | 22 | 0.8 | 160 | 227E.016M-100-0.8-160 |
| 100 | 22 | 1 | 120 | 227E.016M-100-1-120 |
| 100 | 22 | 1 | 160 | 227E.016M-100-1-160 |

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فرزهای ارّه ای
(دیسکی)

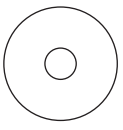

Kreissagen

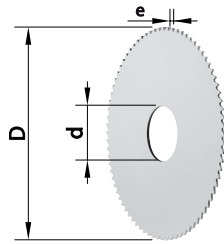
Slitting saws

Seghe circolari

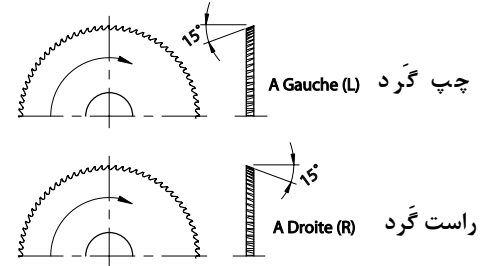
FRAISES scies

فرزهای ارّه ای (دیسکی)

| | | | | | | | | | | |
|-------------------|---------------------------------|---|---|-----|-------------------------|-------------------------------|--|---------------|----------------|-----------------|
| 2 | 2 | 7 | 5 | 15 | R/L | | | G | 227.515 | 227.515G |
| MD HM/SC MG | فرزها Sagen Saws Seghe |  |  | 15° | A Droite A Gauche | $\lambda \sim 5^\circ$ 10° | | AlCrON | | |



SATIS
cut



| D | d _{H7} | e | Z | Non revêtu بدون روکش | Revêtu AlCrON AlCrON باروکش |
|-----|-----------------|-----|-----|-------------------------|--------------------------------|
| 50 | 13 | 0.5 | 64 | 227.515-50-0.5-64 | 227.515G-50-64 |
| 50 | 13 | 0.6 | 64 | 227.515-50-0.6-64 | 227.515G-50-64 |
| 50 | 13 | 0.8 | 64 | 227.515-50-0.8-64 | 227.515G-50-64 |
| 50 | 13 | 1 | 64 | 227.515-50-1-64 | 227.515G-50-64 |
| 63 | 16 | 0.5 | 80 | 227.515-63-0.5-80 | 227.515G-63-80 |
| 63 | 16 | 0.6 | 80 | 227.515-63-0.6-80 | 227.515G-63-80 |
| 63 | 16 | 0.8 | 80 | 227.515-63-0.8-80 | 227.515G-63-80 |
| 63 | 16 | 1 | 80 | 227.515-63-1-80 | 227.515G-63-80 |
| 80 | 22 | 0.5 | 100 | 227.515-80-0.5-100 | 227.515G-80-100 |
| 80 | 22 | 0.6 | 100 | 227.515-80-0.6-100 | 227.515G-80-100 |
| 80 | 22 | 0.8 | 100 | 227.515-80-0.8-100 | 227.515G-80-100 |
| 80 | 22 | 1 | 100 | 227.515-80-1-100 | 227.515G-80-100 |
| 100 | 22 | 1 | 120 | 227.515-100-1-120 | 227.515G-100-120 |

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FRAISES scies

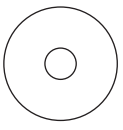

فِرِزهای ارّه ای (دیسکی)

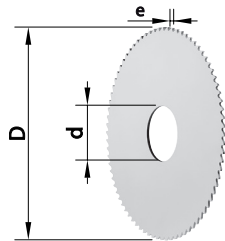
فِرِزهای ارّه ای
(دیسکی)

Kreissagen

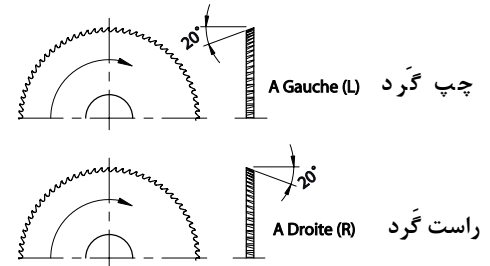
Slitting saws

Seghe circolari

| | | | | | | | | | | |
|-------------------|-----------------------------------|---|---|-----|-------------------------|-------------------------------|--|---------------|----------------|-----------------|
| 2 | 2 | 7 | 5 | 20 | R/L | | | G | | |
| MD HM/SC MG | فِرِزها Sagen Saws Seghe |  |  | 20° | A Droite A Gauche | $\lambda \sim 5^\circ$ 10° | | AlCrON | 227.520 | 227.520G |



SATIS
cut



| D | d _{H7} | e | Z | Non revêtu بدون روکش | Revêtu AlCrON باروکش AlCrON |
|-----|-----------------|-----|-----|-------------------------|--------------------------------|
| 50 | 13 | 0.5 | 64 | 227.520-50-0.5-64 | 227.520G-50-0.5-64 |
| 50 | 13 | 0.6 | 64 | 227.520-50-0.6-64 | 227.520G-50-0.6-64 |
| 50 | 13 | 0.8 | 64 | 227.520-50-0.8-64 | 227.520G-50-0.8-64 |
| 50 | 13 | 1 | 64 | 227.520-50-1-64 | 227.520G-50-1-64 |
| 63 | 16 | 0.5 | 80 | 227.520-63-0.5-80 | 227.520G-63-0.5-80 |
| 63 | 16 | 0.6 | 80 | 227.520-63-0.6-80 | 227.520G-63-0.6-80 |
| 63 | 16 | 0.8 | 80 | 227.520-63-0.8-80 | 227.520G-63-0.8-80 |
| 63 | 16 | 1 | 80 | 227.520-63-1-80 | 227.520G-63-1-80 |
| 80 | 22 | 0.5 | 100 | 227.520-80-0.5-100 | 227.520G-80-0.5-100 |
| 80 | 22 | 0.6 | 100 | 227.520-80-0.6-100 | 227.520G-80-0.6-100 |
| 80 | 22 | 0.8 | 100 | 227.520-80-0.8-100 | 227.520G-80-0.8-100 |
| 80 | 22 | 1 | 100 | 227.520-80-1-100 | 227.520G-80-1-100 |
| 100 | 22 | 1 | 120 | 227.520-100-1-120 | 227.520G-100-1-120 |

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مشخصات فنی

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Micro forets,
Forets
& Alésoirs
میکرو متہ ہا،
متہ ہا
و بُرقوہا



MICRO forets

میکرو مته ها

میکرو مته ها
Mikro-Bohrer
Micro drills
Micro punte

| | | | | | | | | | | |
|------------------------|--|---|-------------|---------|---|-----------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 0 | 1 | 2 | G | 240.020.12 | 240.020.12G |
| MD HM/SC MG KX10 | میکرو مته ها MIKRO Bohrer MICRO drills MICRO punte | | D < d | Z2 ↓ | | λ 24° 120° | | AICrON | | |



SATIS
cut



Type N
Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICrON AICrON باروکش |
|-----------------|-----|-------|----|-------------------------|--------------------------------|
| 0.5 | 1.5 | 1.7 | 30 | 240.020.12-0.5 | 240.020.12G-0.5 |
| 0.55 | 1.5 | 1.9 | 30 | 240.020.12-0.55 | 240.020.12G-0.55 |
| 0.6 | 1.5 | 1.9 | 30 | 240.020.12-0.6 | 240.020.12G-0.6 |
| 0.65 | 1.5 | 1.9 | 30 | 240.020.12-0.65 | 240.020.12G-0.65 |
| 0.7 | 1.5 | 2.4 | 30 | 240.020.12-0.7 | 240.020.12G-0.7 |
| 0.75 | 1.5 | 2.4 | 30 | 240.020.12-0.75 | 240.020.12G-0.75 |
| 0.8 | 1.5 | 2.6 | 30 | 240.020.12-0.8 | 240.020.12G-0.8 |
| 0.85 | 1.5 | 2.6 | 30 | 240.020.12-0.85 | 240.020.12G-0.85 |
| 0.9 | 1.5 | 3 | 30 | 240.020.12-0.9 | 240.020.12G-0.9 |
| 0.95 | 1.5 | 3 | 30 | 240.020.12-0.95 | 240.020.12G-0.95 |
| 1 | 1.5 | 3.4 | 30 | 240.020.12-1 | 240.020.12G-1 |
| 1.1 | 1.5 | 3.8 | 30 | 240.020.12-1.1 | 240.020.12G-1.1 |
| 1.2 | 1.5 | 4.2 | 30 | 240.020.12-1.2 | 240.020.12G-1.2 |
| 1.3 | 1.5 | 4.2 | 30 | 240.020.12-1.3 | 240.020.12G-1.3 |
| 1.4 | 1.5 | 4.7 | 30 | 240.020.12-1.4 | 240.020.12G-1.4 |
| 1.5 | 2 | 4.7 | 38 | 240.020.12-1.5 | 240.020.12G-1.5 |
| 1.6 | 2 | 5.4 | 38 | 240.020.12-1.6 | 240.020.12G-1.6 |
| 1.7 | 2 | 5.4 | 38 | 240.020.12-1.7 | 240.020.12G-1.7 |
| 1.8 | 2 | 6.5 | 38 | 240.020.12-1.8 | 240.020.12G-1.8 |
| 1.9 | 2 | 6.5 | 38 | 240.020.12-1.9 | 240.020.12G-1.9 |
| 2 | 3 | 6.5 | 38 | 240.020.12-2 | 240.020.12G-2 |
| 2.1 | 3 | 6.5 | 38 | 240.020.12-2.1 | 240.020.12G-2.1 |
| 2.2 | 3 | 6.5 | 38 | 240.020.12-2.2 | 240.020.12G-2.2 |
| 2.3 | 3 | 6.5 | 38 | 240.020.12-2.3 | 240.020.12G-2.3 |
| 2.4 | 3 | 6.5 | 38 | 240.020.12-2.4 | 240.020.12G-2.4 |

Pour foret jusqu'au Ø 1.9 conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

- برای مته های تا Ø ۱.۹ آماده برای فروش ۱۰ عددی
- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

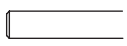
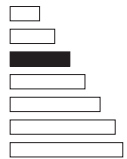

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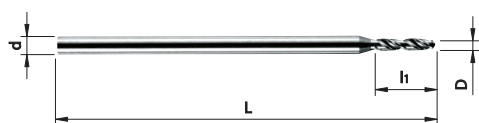
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MICRO forets

میکرو مته ها

میکرو مته ها
Mikro-Bohrer
Micro drills
Micro punte

| | | | | | | | | | | |
|------------------------|---|---|-------------|---------|---|-----------------------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 3 | 3 | 2 | G | 240.023.32 | 240.023.32G |
| MD HM/SC MG KX10 | میکرو مته ها MIKRO Bohrer MICRO drills MICRO punte |  | D < d | Z2 ↓ |  | $\lambda 35^\circ$ 120° |  | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|-----------------|-----|-------|----|-------------------------|--------------------------------|
| 0.2 - 0.24 | 1 | 1.1 | 25 | 240.023.32-... | |
| 0.25 - 0.29 | 1 | 1.3 | 25 | 240.023.32-... | |
| 0.3 - 0.38 | 1 | 1.6 | 25 | 240.023.32-... | |
| 0.39 | 1 | 2 | 25 | 240.023.32-0.39 | |
| 0.4 - 0.48 | 1 | 2 | 25 | 240.023.32-... | 240.023.32G-... |
| 0.49 - 0.53 | 1 | 2.4 | 25 | 240.023.32-... | 240.023.32G-... |
| 0.54 - 0.59 | 1 | 2.8 | 25 | 240.023.32-... | 240.023.32G-... |
| 0.6 | 1.5 | 2.8 | 30 | 240.023.32-0.6 | 240.023.32G-0.6 |
| 0.61 - 0.67 | 1.5 | 3.3 | 30 | 240.023.32-... | 240.023.32G-... |
| 0.68 - 0.75 | 1.5 | 3.8 | 30 | 240.023.32-... | 240.023.32G-... |
| 0.76 - 0.79 | 1.5 | 4.2 | 30 | 240.023.32-... | 240.023.32G-... |
| 0.8 - 0.85 | 1.5 | 4.4 | 30 | 240.023.32-... | 240.023.32G-... |
| 0.86 - 0.89 | 1.5 | 4.8 | 30 | 240.023.32-... | 240.023.32G-... |
| 0.9 - 0.99 | 1.5 | 4.8 | 30 | 240.023.32-... | 240.023.32G-... |
| 1 - 1.09 | 1.5 | 4.8 | 30 | 240.023.32-... | 240.023.32G-... |
| 1.1 - 1.19 | 1.5 | 5.4 | 30 | 240.023.32-... | 240.023.32G-... |
| 1.2 - 1.29 | 1.5 | 6 | 30 | 240.023.32-... | 240.023.32G-... |
| 1.3 - 1.39 | 1.5 | 6.7 | 30 | 240.023.32-... | 240.023.32G-... |
| 1.4 - 1.49 | 1.5 | 6.7 | 30 | 240.023.32-... | 240.023.32G-... |
| 1.5 - 1.59 | 2 | 7.2 | 38 | 240.023.32-... | 240.023.32G-... |
| 1.6 - 1.69 | 2 | 7.2 | 38 | 240.023.32-... | 240.023.32G-... |
| 1.7 - 1.79 | 2 | 7.2 | 38 | 240.023.32-... | 240.023.32G-... |
| 1.8 - 1.89 | 2 | 8.4 | 38 | 240.023.32-... | 240.023.32G-... |

Pour foret jusqu'au $\varnothing 1.99$ conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای مته های تا $\varnothing 1.09$ آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت



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MICRO forets

میکرو متہ ہا

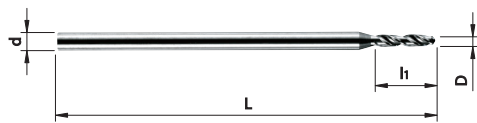
میکرو متہ ہا

Mikro-Bohrer

Micro drills

Micro punte

| | | | | | | | | | | |
|------------------------|--|---|-------------|---------|---|-----------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 3 | 3 | 2 | G | 240.023.32 | 240.023.32G |
| MD HM/SC MG KX10 | میکرو متہ ہا MIKRO Bohrer MICRO drills MICRO punte | | D < d | Z2 ↓ | | λ 35° 120° | | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|-----------------|---|-------|----|-------------------------|--------------------------------|
| 2 - 2.09 | 3 | 12 | 38 | 240.023.32-.... | 240.023.32G-... |
| 2.1 - 2.19 | 3 | 12 | 38 | 240.023.32-.... | 240.023.32G-... |
| 2.2 - 2.29 | 3 | 12 | 38 | 240.023.32-... | 240.023.32G-... |
| 2.3 - 2.39 | 3 | 12 | 38 | 240.023.32-... | 240.023.32G-... |
| 2.4 - 2.49 | 3 | 12 | 38 | 240.023.32-... | 240.023.32G-... |
| 2.5 | 3 | 14 | 38 | 240.023.32-2.5 | 240.023.32G-2.5 |
| 2.55 | 3 | 14 | 38 | 240.023.32-2.55 | 240.023.32G-2.55 |
| 2.6 | 3 | 14 | 38 | 240.023.32-2.6 | 240.023.32G-2.6 |
| 2.65 | 3 | 14 | 38 | 240.023.32-2.65 | 240.023.32G-2.65 |
| 2.7 | 3 | 14 | 38 | 240.023.32-2.7 | 240.023.32G-2.7 |
| 2.75 | 3 | 14 | 38 | 240.023.32-2.75 | 240.023.32G-2.75 |
| 2.8 | 3 | 14 | 38 | 240.023.32-2.8 | 240.023.32G-2.8 |
| 2.85 | 3 | 14 | 38 | 240.023.32-2.85 | 240.023.32G-2.85 |
| 2.9 | 3 | 14 | 38 | 240.023.32-2.9 | 240.023.32G-2.9 |
| 2.95 | 3 | 14 | 38 | 240.023.32-2.95 | 240.023.32G-2.95 |



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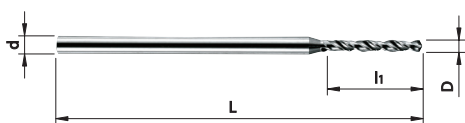
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MICRO forets

میکرو مته ها

میکرو مته ها
Mikro-Bohrer
Micro drills
Micro punte

| | | | | | | | | | | |
|------------------------|--|---|-------------|---------|---|-----------------------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 5 | 3 | 2 | G | 240.025.32 | 240.025.32G |
| MD HM/SC MG KX10 | میکرو مته ها MIKRO Bohrer MICRO drills MICRO punte | | D < d | Z2 ↓ | | $\lambda 35^\circ$ 120° | | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|-----------------|-----|-------|----|-------------------------|--------------------------------|
| 0.1 - 0.11 | 1 | 0.5 | 25 | 240.025.32-... | |
| 0.12 | 1 | 0.5 | 25 | 240.025.32-0.12 | |
| 0.13 | 1 | 0.5 | 25 | 240.025.32-0.13 | |
| 0.14 | 1 | 0.7 | 25 | 240.025.32-0.14 | |
| 0.15 - 0.19 | 1 | 1 | 25 | 240.025.32-... | |
| 0.2 - 0.24 | 1 | 1.8 | 25 | 240.025.32-... | |
| 0.25 - 0.29 | 1 | 2.2 | 25 | 240.025.32-0.25-... | |
| 0.3 | 1 | 2.2 | 25 | 240.025.32-0.3 | |
| 0.31 - 0.34 | 1 | 2.8 | 25 | 240.025.32-... | |
| 0.35 | 1 | 2.8 | 25 | 240.025.32-0.35 | |
| 0.36 - 0.39 | 1 | 2.8 | 25 | 240.025.32-... | |
| 0.4 | 1 | 3.6 | 25 | 240.025.32-0.4 | 240.025.32G-0.4 |
| 0.41 - 0.44 | 1 | 3.6 | 25 | 240.025.32-... | 240.025.32G-... |
| 0.45 | 1 | 3.6 | 25 | 240.025.32-0.45 | 240.025.32G-0.45 |
| 0.46 - 0.49 | 1 | 3.6 | 25 | 240.025.32-... | 240.025.32G-... |
| 0.5 | 1 | 4 | 25 | 240.025.32-0.5 | 240.025.32G-0.5 |
| 0.51 - 0.54 | 1 | 4 | 25 | 240.025.32-... | 240.025.32G-... |
| 0.55 | 1 | 4.5 | 25 | 240.025.32-0.55 | 240.025.32G-0.55 |
| 0.56 - 0.59 | 1 | 4.5 | 25 | 240.025.32-... | 240.025.32G-... |
| 0.6 | 1.5 | 4.5 | 30 | 240.025.32-0.6 | 240.025.32G-0.6 |
| 0.61 - 0.64 | 1.5 | 5 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.65 | 1.5 | 5 | 30 | 240.025.32-0.65 | 240.025.32G-0.65 |
| 0.66 - 0.69 | 1.5 | 5 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.7 | 1.5 | 5.6 | 30 | 240.025.32-0.7 | 240.025.32G-0.7 |
| 0.71 - 0.74 | 1.5 | 5.6 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.75 | 1.5 | 5.6 | 30 | 240.025.32-0.75 | 240.025.32G-0.75 |
| 0.76 - 0.79 | 1.5 | 6.3 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.8 | 1.5 | 6.3 | 30 | 240.025.32-0.8 | 240.025.32G-0.8 |
| 0.81 - 0.84 | 1.5 | 6.3 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.85 | 1.5 | 6.3 | 30 | 240.025.32-0.85 | 240.025.32G-0.85 |

Conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای مته های تا ۱۰۹ Ø آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

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مشخصات فنی

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MICRO forets

میکرو منته ها

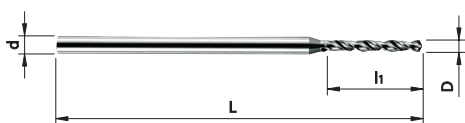
میکرو منته ها

Mikro-Bohrer

Micro drills

Micro punte

| | | | | | | | | | | |
|------------------------|---|---|-------------|---------|---|-----------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 5 | 3 | 2 | G | 240.025.32 | 240.025.32G |
| MD HM/SC MG KX10 | میکرو منته ها MIKRO Bohrer MICRO drills MICRO punte | | D < d | Z2 ↓ | | λ 35° 120° | | AlCrON | | |



SATIS
cut



Type N
Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AlCrON AICrON باروکش |
|-----------------|-----|-------|----|-------------------------|--------------------------------|
| 0.86 - 0.89 | 1.5 | 7.1 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.9 | 1.5 | 7.1 | 30 | 240.025.32-0.9 | 240.025.32G-0.9 |
| 0.91 - 0.94 | 1.5 | 7.1 | 30 | 240.025.32-... | 240.025.32G-... |
| 0.95 | 1.5 | 7.1 | 30 | 240.025.32-0.95 | 240.025.32G-0.95 |
| 0.96 - 0.99 | 1.5 | 8 | 30 | 240.025.32-... | 240.025.32G-... |
| 1 | 1.5 | 8 | 30 | 240.025.32-1 | 240.025.32G-1 |
| 1.01 - 1.04 | 1.5 | 8 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.05 | 1.5 | 8 | 30 | 240.025.32-1.05 | 240.025.32G-1.05 |
| 1.06 - 1.09 | 1.5 | 9 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.1 | 1.5 | 9 | 30 | 240.025.32-1.1 | 240.025.32G-1.1 |
| 1.11 - 1.14 | 1.5 | 9 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.15 | 1.5 | 9 | 30 | 240.025.32-1.15 | 240.025.32G-1.15 |
| 1.16 - 1.19 | 1.5 | 10 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.2 | 1.5 | 10 | 30 | 240.025.32-1.2 | 240.025.32G-1.2 |
| 1.21 - 1.24 | 1.5 | 10 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.25 | 1.5 | 10 | 30 | 240.025.32-1.25 | 240.025.32G-1.25 |
| 1.26 - 1.29 | 1.5 | 10 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.3 | 1.5 | 10 | 30 | 240.025.32-1.3 | 240.025.32G-1.3 |
| 1.31 - 1.34 | 1.5 | 11.2 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.35 | 1.5 | 11.2 | 30 | 240.025.32-1.35 | 240.025.32G-1.35 |
| 1.36 - 1.39 | 1.5 | 11.2 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.4 | 1.5 | 11.2 | 30 | 240.025.32-1.4 | 240.025.32G-1.4 |
| 1.41 - 1.44 | 1.5 | 11.2 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.45 | 1.5 | 11.2 | 30 | 240.025.32-1.45 | 240.025.32G-1.45 |
| 1.46 - 1.49 | 1.5 | 11.2 | 30 | 240.025.32-... | 240.025.32G-... |
| 1.5 - 1.59 | 2 | 12 | 38 | 240.025.32-... | 240.025.32G-... |
| 1.6 - 1.69 | 2 | 12 | 38 | 240.025.32-... | 240.025.32G-... |
| 1.7 - 1.79 | 2 | 12 | 38 | 240.025.32-... | 240.025.32G-... |
| 1.8 - 1.89 | 2 | 12 | 38 | 240.025.32-... | 240.025.32G-... |
| 1.9 - 1.99 | 2 | 12 | 38 | 240.025.32-... | 240.025.32G-... |



Conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%.
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای منته های تا ۱۰۹ Ø آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

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A partir de Ø2, voir référence 240.023.32

از Ø2 رجوع شود به ۲۴۰۰۲۳.۳۲ >>> p 149

MICRO forets

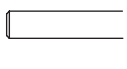
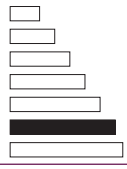

میکرو منته ها

میکرو منته ها

Mikro-Bohrer

Micro drills

Micro punte

| | | | | | | | | | | |
|------------------------|---|---|-------------|---------|---|-----------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 7 | 3 | 2 | G | 240.027.32 | 240.027.32G |
| MD HM/SC MG KX10 | میکرو منته ها MIKRO Bohrer MICRO drills MICRO punte |  | D < d | Z2 ↓ |  | λ 35° 120° |  | AICRON | | |



SATIS
cut



gamme élargie

دارای مدل های مختلف

Type N

Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|-----------------|-----|-------|----|-------------------------|--------------------------------|
| 0.3 | 1.5 | 3.3 | 30 | 240.027.32-0.3 | |
| 0.35 | 1.5 | 4.2 | 30 | 240.027.32-0.35 | |
| 0.4 | 1.5 | 5.4 | 30 | 240.027.32-0.4 | 240.027.32G-0.4 |
| 0.45 | 1.5 | 5.4 | 30 | 240.027.32-0.45 | 240.027.32G-0.45 |
| 0.5 | 1.5 | 6 | 30 | 240.027.32-0.5 | 240.027.32G-0.5 |
| 0.55 | 1.5 | 6.5 | 30 | 240.027.32-0.55 | 240.027.32G-0.55 |
| 0.6 | 1.5 | 6.5 | 30 | 240.027.32-0.6 | 240.027.32G-0.6 |
| 0.65 | 1.5 | 7.5 | 30 | 240.027.32-0.65 | 240.027.32G-0.65 |
| 0.7 | 1.5 | 8.5 | 30 | 240.027.32-0.7 | 240.027.32G-0.7 |
| 0.75 | 1.5 | 8.5 | 30 | 240.027.32-0.75 | 240.027.32G-0.75 |
| 0.8 | 1.5 | 9.5 | 30 | 240.027.32-0.8 | 240.027.32G-0.8 |
| 0.85 | 1.5 | 9.5 | 30 | 240.027.32-0.85 | 240.027.32G-0.85 |
| 0.9 | 1.5 | 10.5 | 30 | 240.027.32-0.9 | 240.027.32G-0.9 |
| 0.95 | 1.5 | 10.5 | 30 | 240.027.32-0.95 | 240.027.32G-0.95 |
| 1 | 1.5 | 12 | 38 | 240.027.32-1 | 240.027.32G-1 |
| 1.05 | 1.5 | 12 | 38 | 240.027.32-1.05 | 240.027.32G-1.05 |
| 1.1 | 1.5 | 13.5 | 38 | 240.027.32-1.1 | 240.027.32G-1.1 |
| 1.15 | 1.5 | 13.5 | 38 | 240.027.32-1.15 | 240.027.32G-1.15 |
| 1.2 | 1.5 | 15 | 38 | 240.027.32-1.2 | 240.027.32G-1.2 |
| 1.25 | 1.5 | 15 | 38 | 240.027.32-1.25 | 240.027.32G-1.25 |
| 1.3 | 1.5 | 17 | 38 | 240.027.32-1.3 | 240.027.32G-1.3 |
| 1.35 | 1.5 | 17 | 38 | 240.027.32-1.35 | 240.027.32G-1.35 |
| 1.4 | 1.5 | 17 | 38 | 240.027.32-1.4 | 240.027.32G-1.4 |
| 1.45 | 1.5 | 17 | 38 | 240.027.32-1.45 | 240.027.32G-1.45 |
| 1.5 | 2 | 18 | 38 | 240.027.32-1.5 | 240.027.32G-1.5 |
| 1.55 | 2 | 18 | 38 | 240.027.32-1.55 | 240.027.32G-1.55 |
| 1.6 | 2 | 18 | 38 | 240.027.32-1.6 | 240.027.32G-1.6 |

Pour foret jusqu'au Ø 1.95 conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای منته های تا Ø 1.95 آماده برای فروش 10 عددی

- سفارش 1 تا 2 عددی 30٪ افزایش قیمت
- سفارش 3 تا 4 عددی 15٪ افزایش قیمت

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مشخصات فنی

>>> p 149

MICRO forets

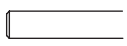
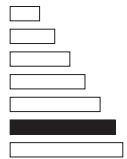

میکرو منته ها

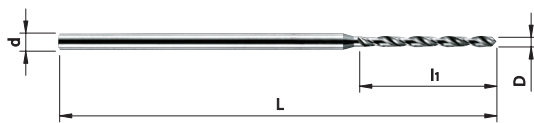
میکرو منته ها

Mikro-Bohrer

Micro drills

Micro punte

| | | | | | | | | | | |
|------------------------|---|---|-------------|---------|---|-----------------------|---|--------|------------|-------------|
| 2 | 4 | 0 | 0 | 2 | 7 | 3 | 2 | G | 240.027.32 | 240.027.32G |
| MD HM/SC MG KX10 | میکرو منته ها MIKRO Bohrer MICRO drills MICRO punte |  | D < d | Z2 ↓ |  | λ 35° 120° |  | AICRON | | |



SATIS
cut



gamme élargie

دازای مدل های مختلف

Type N

Norme SATIS

| $D_{+0/-0.004}$ | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON AICRON باروکش |
|-----------------|---|-------|----|-------------------------|--------------------------------|
| 1.65 | 2 | 18 | 38 | 240.027.32-1.65 | 240.027.32G-1.65 |
| 1.7 | 2 | 18 | 38 | 240.027.32-1.7 | 240.027.32G-1.7 |
| 1.75 | 2 | 18 | 38 | 240.027.32-1.75 | 240.027.32G-1.75 |
| 1.8 | 2 | 18 | 38 | 240.027.32-1.8 | 240.027.32G-1.8 |
| 1.85 | 2 | 18 | 38 | 240.027.32-1.85 | 240.027.32G-1.85 |
| 1.9 | 2 | 18 | 38 | 240.027.32-1.9 | 240.027.32G-1.9 |
| 1.95 | 2 | 18 | 38 | 240.027.32-1.95 | 240.027.32G-1.95 |
| 2 | 3 | 19 | 50 | 240.027.32-2 | 240.027.32G-2 |
| 2.05 | 3 | 19 | 50 | 240.027.32-2.05 | 240.027.32G-2.05 |
| 2.1 | 3 | 19 | 50 | 240.027.32-2.1 | 240.027.32G-2.1 |
| 2.15 | 3 | 19 | 50 | 240.027.32-2.15 | 240.027.32G-2.15 |
| 2.2 | 3 | 19 | 50 | 240.027.32-2.2 | 240.027.32G-2.2 |
| 2.25 | 3 | 20 | 50 | 240.027.32-2.25 | 240.027.32G-2.25 |
| 2.3 | 3 | 20 | 50 | 240.027.32-2.3 | 240.027.32G-2.3 |
| 2.35 | 3 | 20 | 50 | 240.027.32-2.35 | 240.027.32G-2.35 |
| 2.4 | 3 | 20 | 50 | 240.027.32-2.4 | 240.027.32G-2.4 |
| 2.45 | 3 | 20 | 50 | 240.027.32-2.45 | 240.027.32G-2.45 |
| 2.5 | 3 | 21 | 50 | 240.027.32-2.5 | 240.027.32G-2.5 |
| 2.55 | 3 | 21 | 50 | 240.027.32-2.55 | 240.027.32G-2.55 |
| 2.6 | 3 | 21 | 50 | 240.027.32-2.6 | 240.027.32G-2.6 |
| 2.65 | 3 | 21 | 50 | 240.027.32-2.65 | 240.027.32G-2.65 |
| 2.7 | 3 | 21 | 50 | 240.027.32-2.7 | 240.027.32G-2.7 |
| 2.75 | 3 | 22 | 50 | 240.027.32-2.75 | 240.027.32G-2.75 |
| 2.8 | 3 | 22 | 50 | 240.027.32-2.8 | 240.027.32G-2.8 |
| 2.85 | 3 | 22 | 50 | 240.027.32-2.85 | 240.027.32G-2.85 |
| 2.9 | 3 | 22 | 50 | 240.027.32-2.9 | 240.027.32G-2.9 |
| 2.95 | 3 | 22 | 50 | 240.027.32-2.95 | 240.027.32G-2.95 |



Pour foret jusqu'au Ø 1.95 conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای منته های تا Ø 1.95 آماده برای فروش 10 عددی

- سفارش 1 تا 2 عددی 30٪ افزایش قیمت
- سفارش 3 تا 4 عددی 15٪ افزایش قیمت

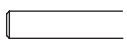
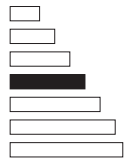

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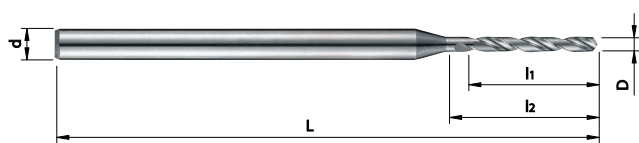
>>> p 149

MICRO forets

میکرو مته ها

میکرو مته ها
Mikro-Bohrer
Micro drills
Micro punte

| | | | | | | | | | | |
|------------------------|--|---|-------------|---------|---|-----------------------|---|--------|------------|-------------|
| 1 | 4 | 0 | 0 | 2 | 5 | 5 | 2 | G | 140.025.52 | 140.025.52G |
| MD HM/SC MG KX10 | میکرو مته ها MIKRO Bohrer MICRO drills MICRO punte |  | D < d | Z2 ↓ |  | λ 30° 120° |  | AlCrON | | |



SATIS
star



جدید **nouveau**

queue d. 3
l1 = 8 x D
Type N

| $D_{+0/-0.004}$ | d | l ₁ | l ₂ | L | Non revêtu بدون روکش | Revêtu AlCrON باروکش AlCrON |
|-----------------|---|----------------|----------------|----|-------------------------|--------------------------------|
| 0.5 - 0.54 | 3 | 4 | 4.8 | 38 | 140.025.52-... | 140.025.52G-... |
| 0.55 - 0.59 | 3 | 4.5 | 5.3 | 38 | 140.025.52-... | 140.025.52G-... |
| 0.6 - 0.69 | 3 | 5 | 5.8 | 38 | 140.025.52-... | 140.025.52G-... |
| 0.7 - 0.75 | 3 | 5.6 | 6.4 | 38 | 140.025.52-... | 140.025.52G-... |
| 0.76 - 0.85 | 3 | 6.3 | 7.1 | 38 | 140.025.52-... | 140.025.52G-... |
| 0.86 - 0.95 | 3 | 7.1 | 7.9 | 38 | 140.025.52-... | 140.025.52G-... |
| 0.96 - 1.05 | 3 | 8 | 8.8 | 38 | 140.025.52-... | 140.025.52G-... |
| 1.06 - 1.15 | 3 | 9 | 9.8 | 38 | 140.025.52-... | 140.025.52G-... |
| 1.16 - 1.3 | 3 | 10 | 10.8 | 38 | 140.025.52-... | 140.025.52G-... |
| 1.31 - 1.49 | 3 | 11.2 | 12 | 38 | 140.025.52-... | 140.025.52G-... |
| 1.5 - 1.75 | 3 | 12 | 13 | 38 | 140.025.52-... | 140.025.52G-... |
| 1.76 - 1.99 | 3 | 14 | 15 | 38 | 140.025.52-... | 140.025.52G-... |

Conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

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مشخصات فنی

>>> p 149

MICRO forets

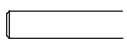
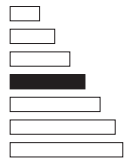
میکرو مته ها

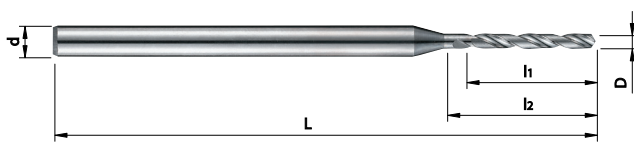
HP میکرو مته های

HP Mikro-Bohrer

Micro drills HP

Micro punte HP

| | | | | | | | | | | |
|-------------------|--|---|-------------|---------|---|-----------------------|---|---|---------|-------------|
| 1 | 4 | 0 | 0 | 2 | 5 | 6 | 6 | N | TiAlN T | 140.025.66N |
| MD HM/SC MG | میکرو مته ها MIKRO Bohrer MICRO drills MICRO punte |  | D < d | Z2 ↓ |  | λ 30° 140° | | | | |



SATIS
méga



$l_1 = 7 \times D$

Type HP

Norme SATIS

| $D_{0/+0.004}$ | d_{h6} | l_1 | l_2 | L | Revêtu TiAlN N با روکش TiAlN N | $D_{0/+0.004}$ | d_{h6} | l_1 | l_2 | L | Revêtu TiAlN N با روکش TiAlN N |
|----------------|----------|-------|-------|----|-----------------------------------|----------------|----------|-------|-------|----|-----------------------------------|
| 0.8 | 3 | 5.6 | 7.2 | 50 | 140.025.66N-0.8 | 2.05 | 3 | 14.5 | 18.5 | 50 | 140.025.66N-0.8 |
| 0.85 | 3 | 6 | 7.6 | 50 | 140.025.66N-0.85 | 2.1 | 3 | 15 | 19 | 50 | 140.025.66N-0.85 |
| 0.9 | 3 | 6.5 | 8.1 | 50 | 140.025.66N-0.9 | 2.15 | 3 | 15 | 19 | 50 | 140.025.66N-0.9 |
| 0.95 | 3 | 6.7 | 8.5 | 50 | 140.025.66N-0.95 | 2.2 | 3 | 16 | 20 | 50 | 140.025.66N-0.95 |
| 1.05 | 3 | 7.5 | 9.4 | 50 | 140.025.66N-1.05 | 2.25 | 3 | 16 | 20 | 50 | 140.025.66N-1.05 |
| 1.15 | 3 | 8.1 | 10.4 | 50 | 140.025.66N-1.15 | 2.3 | 3 | 16.5 | 21 | 50 | 140.025.66N-1.15 |
| 1.2 | 3 | 8.5 | 11 | 50 | 140.025.66N-1.2 | 2.35 | 3 | 16.5 | 21 | 50 | 140.025.66N-1.2 |
| 1.25 | 3 | 8.9 | 11.3 | 50 | 140.025.66N-1.25 | 2.4 | 3 | 17 | 22 | 50 | 140.025.66N-1.25 |
| 1.3 | 3 | 9.2 | 11.7 | 50 | 140.025.66N-1.3 | 2.45 | 3 | 17.5 | 22.5 | 50 | 140.025.66N-1.3 |
| 1.4 | 3 | 10 | 12.5 | 50 | 140.025.66N-1.4 | 2.55 | 3 | 18 | 23 | 50 | 140.025.66N-1.4 |
| 1.45 | 3 | 10.5 | 13 | 50 | 140.025.66N-1.45 | 2.6 | 3 | 18.5 | 23.5 | 50 | 140.025.66N-1.45 |
| 1.5 | 3 | 10.5 | 13 | 50 | 140.025.66N-1.5 | 2.65 | 3 | 18.5 | 23.5 | 50 | 140.025.66N-1.5 |
| 1.55 | 3 | 11 | 13.5 | 50 | 140.025.66N-1.55 | 2.7 | 3 | 19 | 24 | 50 | 140.025.66N-1.55 |
| 1.6 | 3 | 11.5 | 14 | 50 | 140.025.66N-1.6 | 2.75 | 3 | 19 | 24 | 50 | 140.025.66N-1.6 |
| 1.65 | 3 | 12 | 15 | 50 | 140.025.66N-1.65 | 2.9 | 3 | 21 | 26 | 50 | 140.025.66N-1.65 |
| 1.7 | 3 | 12 | 15 | 50 | 140.025.66N-1.7 | 2.95 | 3 | 21 | 26 | 50 | 140.025.66N-1.7 |
| 1.75 | 3 | 12.5 | 15.5 | 50 | 140.025.66N-1.75 | | | | | | |
| 1.8 | 3 | 13 | 16 | 50 | 140.025.66N-1.8 | | | | | | |
| 1.85 | 3 | 13 | 16 | 50 | 140.025.66N-1.85 | | | | | | |
| 1.9 | 3 | 13.5 | 17.5 | 50 | 140.025.66N-1.9 | | | | | | |
| 1.95 | 3 | 14 | 18 | 50 | 140.025.66N-1.95 | | | | | | |

Gamme livrable jusqu'à épuisement du stock

قابل تحویل تا اتمام موجودی انبار.

INFO
Tech
مشخصات فنی

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FORETS

مته ها

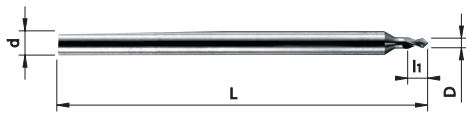
مته های علامت زدن

Anbohrer

Spot drills

Punte centratrici

| | | | | | | | | | |
|------------------------|--|---|---|---------|---|----------------------|---|-------------|--------------|
| 2 | 4 | 0 | 7 | 5 | 5 | 090 | G | 240.755-090 | 240.755G-090 |
| MD HM/SC MG KX10 | مته ها MIKRO Bohrer MICRO drills MICRO punte | | | Z2 ↓ | | λ 30° 90° | | AICRON | |



SATIS
cut



Type N
Norme SATIS

| D_{h6} | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON با روکش AICRON |
|-------------|---|-------|----|-------------------------|---------------------------------|
| 0.5 - 0.59 | 2 | 2 | 30 | 240.755-090-... | 240.755G-090-... |
| 0.6 - 0.69 | 2 | 2 | 30 | 240.755-090-... | 240.755G-090-... |
| 0.7 - 0.79 | 2 | 2 | 30 | 240.755-090-... | 240.755G-090-... |
| 0.8 - 0.89 | 2 | 2.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 0.9 - 0.99 | 2 | 2.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 1 - 1.09 | 2 | 2.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.1 - 1.19 | 2 | 2.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.2 - 1.29 | 2 | 3 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.3 - 1.39 | 2 | 3 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.4 - 1.49 | 2 | 3 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.5 - 1.59 | 2 | 3.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.6 - 1.69 | 2 | 3.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.7 - 1.79 | 2 | 3.5 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.8 - 1.89 | 2 | 4 | 30 | 240.755-090-... | 240.755G-090-... |
| 1.9 - 1.99 | 2 | 4 | 30 | 240.755-090-... | 240.755G-090-... |
| 2 | 2 | 4 | 30 | 240.755-090-2 | 240.755G-090-2 |
| 2.01 - 2.09 | 3 | 4.5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.1 - 2.19 | 3 | 4.5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.2 - 2.29 | 3 | 4.5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.3 - 2.39 | 3 | 4.5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.4 - 2.49 | 3 | 4.5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.5 - 2.59 | 3 | 5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.6 - 2.69 | 3 | 5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.7 - 2.79 | 3 | 5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.8 - 2.89 | 3 | 5 | 38 | 240.755-090-... | 240.755G-090-... |
| 2.9 - 2.99 | 3 | 5 | 38 | 240.755-090-... | 240.755G-090-... |
| 3 | 3 | 9 | 38 | 240.755-090-3 | 240.755G-090-3 |

Pour foret jusqu'à Ø 2 conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای مته های تا ۲ Ø آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

INEO
Tech
مشخصات فنی

>>> p 149

FORETS

مته ها

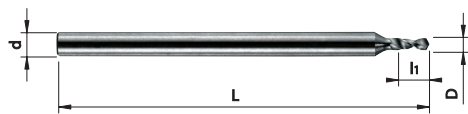
مته های علامت زدنی

Anbohrer

Spot drills

Punte centratrici

| | | | | | | | | | |
|------------------------|--|---|---|---------|---|-----------------------|---|-------------|--------------|
| 2 | 4 | 0 | 7 | 5 | 5 | 120 | G | 240.755-120 | 240.755G-120 |
| MD HM/SC MG KX10 | مته ها MIKRO Bohrer MICRO drills MICRO punte | | | Z2 ↓ | | λ 30° 120° | | AICRON | |



SATIS
cut



Type N
Norme SATIS

| D_{h6} | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON باروکش AICRON |
|----------|---|-------|----|-------------------------|--------------------------------|
| 0.8 | 2 | 2.5 | 30 | 240.755-120-0.8 | 240.755G-120-0.8 |
| 0.9 | 2 | 2.5 | 30 | 240.755-120-0.9 | 240.755G-120-0.9 |
| 1 | 2 | 2.5 | 30 | 240.755-120-1 | 240.755G-120-1 |
| 1.1 | 2 | 2.5 | 30 | 240.755-120-1.1 | 240.755G-120-1.1 |
| 1.2 | 2 | 2.5 | 30 | 240.755-120-1.2 | 240.755G-120-1.2 |
| 1.3 | 2 | 2.5 | 30 | 240.755-120-1.3 | 240.755G-120-1.3 |
| 1.4 | 2 | 2.5 | 30 | 240.755-120-1.4 | 240.755G-120-1.4 |
| 1.5 | 2 | 4 | 30 | 240.755-120-1.5 | 240.755G-120-1.5 |
| 1.6 | 2 | 4 | 30 | 240.755-120-1.6 | 240.755G-120-1.6 |
| 1.7 | 2 | 4 | 30 | 240.755-120-1.7 | 240.755G-120-1.7 |
| 1.8 | 2 | 5 | 30 | 240.755-120-1.8 | 240.755G-120-1.8 |
| 1.9 | 2 | 5 | 30 | 240.755-120-1.9 | 240.755G-120-1.9 |
| 2 | 2 | 5 | 30 | 240.755-120-2 | 240.755G-120-2 |

Conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

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FORETS

مته ها

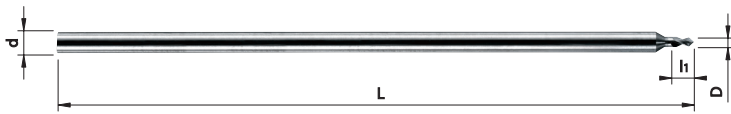
مته های علامت زدنی

Anbohrer

Spot drills

Punte centratrici

| | | | | | | | | | |
|------------------------|--|---|---------|---|----------------------------------|-----|--------|-------------|--------------|
| 2 | 4 | 0 | 7 | 5 | 7 | 090 | G | 240.757-090 | 240.757G-090 |
| MD HM/SC MG KX10 | مته ها MIKRO Bohrer MICRO drills MICRO punte | | Z2 ↓ | | $\lambda 30^\circ$ 90° | | AICRON | | |



SATIS
cut



Type N
Norme SATIS

| D_{h6} | d | l_1 | L | Non revêtu بدون روکش | Revêtu AICRON با روکش AICRON |
|----------|---|-------|----|-------------------------|---------------------------------|
| 0.5 | 2 | 2 | 60 | 240.757-090-0.5 | 240.757G-090-0.5 |
| 0.55 | 2 | 2 | 60 | 240.757-090-0.55 | 240.757G-090-0.55 |
| 0.6 | 2 | 2 | 60 | 240.757-090-0.6 | 240.757G-090-0.6 |
| 0.65 | 2 | 2 | 60 | 240.757-090-0.65 | 240.757G-090-0.65 |
| 0.7 | 2 | 2 | 60 | 240.757-090-0.7 | 240.757G-090-0.7 |
| 0.75 | 2 | 2 | 60 | 240.757-090-0.75 | 240.757G-090-0.75 |
| 0.8 | 2 | 2.5 | 60 | 240.757-090-0.8 | 240.757G-090-0.8 |
| 0.85 | 2 | 2.5 | 60 | 240.757-090-0.85 | 240.757G-090-0.85 |
| 0.9 | 2 | 2.5 | 60 | 240.757-090-0.9 | 240.757G-090-0.9 |
| 0.95 | 2 | 2.5 | 60 | 240.757-090-0.95 | 240.757G-090-0.95 |
| 1 | 2 | 2.5 | 60 | 240.757-090-1 | 240.757G-090-1 |
| 1.05 | 2 | 2.5 | 60 | 240.757-090-1.05 | 240.757G-090-1.05 |
| 1.1 | 2 | 2.5 | 60 | 240.757-090-1.1 | 240.757G-090-1.1 |
| 1.15 | 2 | 2.5 | 60 | 240.757-090-1.15 | 240.757G-090-1.15 |
| 1.2 | 2 | 3 | 60 | 240.757-090-1.2 | 240.757G-090-1.2 |
| 1.25 | 2 | 3 | 60 | 240.757-090-1.25 | 240.757G-090-1.25 |
| 1.3 | 2 | 3 | 60 | 240.757-090-1.3 | 240.757G-090-1.3 |
| 1.35 | 2 | 3 | 60 | 240.757-090-1.35 | 240.757G-090-1.35 |
| 1.4 | 2 | 3 | 60 | 240.757-090-1.4 | 240.757G-090-1.4 |
| 1.45 | 2 | 3 | 60 | 240.757-090-1.45 | 240.757G-090-1.45 |
| 1.5 | 2 | 4 | 60 | 240.757-090-1.5 | 240.757G-090-1.5 |
| 1.55 | 2 | 4 | 60 | 240.757-090-1.55 | 240.757G-090-1.55 |
| 1.6 | 2 | 4 | 60 | 240.757-090-1.6 | 240.757G-090-1.6 |
| 1.65 | 2 | 4 | 60 | 240.757-090-1.65 | 240.757G-090-1.65 |
| 1.7 | 2 | 4 | 60 | 240.757-090-1.7 | 240.757G-090-1.7 |
| 1.75 | 2 | 4 | 60 | 240.757-090-1.75 | 240.757G-090-1.75 |
| 1.8 | 2 | 5 | 60 | 240.757-090-1.8 | 240.757G-090-1.8 |
| 1.85 | 2 | 5 | 60 | 240.757-090-1.85 | 240.757G-090-1.85 |
| 1.9 | 2 | 5 | 60 | 240.757-090-1.9 | 240.757G-090-1.9 |
| 1.95 | 2 | 5 | 60 | 240.757-090-1.95 | 240.757G-090-1.95 |
| 2 | 2 | 5 | 60 | 240.757-090-2 | 240.757G-090-2 |

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Tech
مشخصات فنی

>>> p 149

FORETS

مته ها

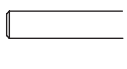
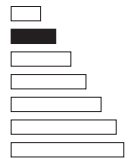

مته ها

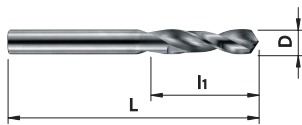
Bohrer

Drills

Punte

240.221.22

| | | | | | | | |
|-------------------|-------------------------------------|---|-------------|---------|---|-----------------------|---|
| 2 | 4 | 0 | 2 | 2 | 1 | 2 | 2 |
| MD HM/SC MG | مته ها Bohrer Drills Punte |  | D = d | Z2 ↓ |  | λ 30° 118° |  |



SATIS
cut



Type N
DIN 6539

| D_{h7} | l_1 | L | Non revêtu بدون روکش | D_{h7} | l_1 | L | Non revêtu بدون روکش |
|----------|-------|----|-------------------------|----------|-------|----|-------------------------|
| 0.5 | 3 | 20 | 240.221.22-0.5 | 3.3 | 18 | 49 | 240.221.22-3.3 |
| 0.6 | 3.5 | 21 | 240.221.22-0.6 | 3.4 | 20 | 52 | 240.221.22-3.4 |
| 0.7 | 4.5 | 23 | 240.221.22-0.7 | 3.5 | 20 | 52 | 240.221.22-3.5 |
| 0.8 | 5 | 24 | 240.221.22-0.8 | 3.6 | 20 | 52 | 240.221.22-3.6 |
| 0.9 | 5.5 | 25 | 240.221.22-0.9 | 3.7 | 20 | 52 | 240.221.22-3.7 |
| 1 | 6 | 26 | 240.221.22-1 | 3.8 | 22 | 55 | 240.221.22-3.8 |
| 1.1 | 7 | 28 | 240.221.22-1.1 | 3.9 | 22 | 55 | 240.221.22-3.9 |
| 1.2 | 8 | 30 | 240.221.22-1.2 | 4 | 22 | 55 | 240.221.22-4 |
| 1.3 | 8 | 30 | 240.221.22-1.3 | 4.1 | 22 | 55 | 240.221.22-4.1 |
| 1.4 | 9 | 32 | 240.221.22-1.4 | 4.2 | 22 | 55 | 240.221.22-4.2 |
| 1.5 | 9 | 32 | 240.221.22-1.5 | 4.3 | 24 | 58 | 240.221.22-4.3 |
| 1.6 | 10 | 34 | 240.221.22-1.6 | 4.4 | 24 | 58 | 240.221.22-4.4 |
| 1.7 | 10 | 34 | 240.221.22-1.7 | 4.5 | 24 | 58 | 240.221.22-4.5 |
| 1.8 | 11 | 36 | 240.221.22-1.8 | 4.6 | 24 | 58 | 240.221.22-4.6 |
| 1.9 | 11 | 36 | 240.221.22-1.9 | 4.7 | 24 | 58 | 240.221.22-4.7 |
| 2 | 12 | 38 | 240.221.22-2 | 4.8 | 26 | 62 | 240.221.22-4.8 |
| 2.1 | 12 | 38 | 240.221.22-2.1 | 4.9 | 26 | 62 | 240.221.22-4.9 |
| 2.2 | 13 | 40 | 240.221.22-2.2 | 5 | 26 | 62 | 240.221.22-5 |
| 2.3 | 13 | 40 | 240.221.22-2.3 | 5.1 | 26 | 62 | 240.221.22-5.1 |
| 2.4 | 14 | 43 | 240.221.22-2.4 | 5.2 | 26 | 62 | 240.221.22-5.2 |
| 2.5 | 14 | 43 | 240.221.22-2.5 | 5.3 | 26 | 62 | 240.221.22-5.3 |
| 2.6 | 14 | 43 | 240.221.22-2.6 | 5.4 | 28 | 66 | 240.221.22-5.4 |
| 2.7 | 16 | 46 | 240.221.22-2.7 | 5.5 | 28 | 66 | 240.221.22-5.5 |
| 2.8 | 16 | 46 | 240.221.22-2.8 | 5.6 | 28 | 66 | 240.221.22-5.6 |
| 2.9 | 16 | 46 | 240.221.22-2.9 | 5.7 | 28 | 66 | 240.221.22-5.7 |
| 3 | 16 | 46 | 240.221.22-3 | 5.8 | 28 | 66 | 240.221.22-5.8 |
| 3.1 | 18 | 49 | 240.221.22-3.1 | 5.9 | 28 | 66 | 240.221.22-5.9 |
| 3.2 | 18 | 49 | 240.221.22-3.2 | 6 | 28 | 66 | 240.221.22-6 |



FORETS

مته ها

مته ها

Bohrer

Drills

Punte

2

4

0

2

2

1

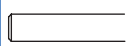
2

2

240.221.22

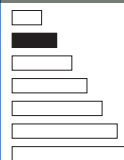
MD
HM/SC
MG

مته ها
Bohrer
Drills
Punte

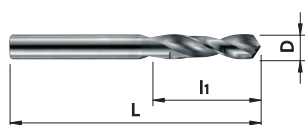


D
=
d

Z2
↓



λ 30°
118°



SATIS
cut



Type N
DIN 6539

| D_{h7} | l_1 | L | Non revêtu بدون روکش | D_{h7} | l_1 | L | Non revêtu بدون روکش |
|----------|-------|----|-------------------------|----------|-------|-----|-------------------------|
| 6.1 | 31 | 70 | 240.221.22-6.1 | 8.7 | 40 | 84 | 240.221.22-8.7 |
| 6.2 | 31 | 70 | 240.221.22-6.2 | 8.8 | 40 | 84 | 240.221.22-8.8 |
| 6.3 | 31 | 70 | 240.221.22-6.3 | 8.9 | 40 | 84 | 240.221.22-8.9 |
| 6.4 | 31 | 70 | 240.221.22-6.4 | 9 | 40 | 84 | 240.221.22-9 |
| 6.5 | 31 | 70 | 240.221.22-6.5 | 9.2 * | 40 | 84 | 240.221.22-9.2 |
| 6.6 | 31 | 70 | 240.221.22-6.6 | 9.3 * | 40 | 84 | 240.221.22-9.3 |
| 6.7 | 31 | 70 | 240.221.22-6.7 | 9.4 * | 40 | 84 | 240.221.22-9.4 |
| 6.8 | 34 | 74 | 240.221.22-6.8 | 9.5 * | 40 | 84 | 240.221.22-9.5 |
| 6.9 | 34 | 74 | 240.221.22-6.9 | 9.6 * | 43 | 89 | 240.221.22-9.6 |
| 7 | 34 | 74 | 240.221.22-7 | 9.7 * | 43 | 89 | 240.221.22-9.7 |
| 7.1 | 34 | 74 | 240.221.22-7.1 | 13 * | 51 | 102 | 240.221.22-13 |
| 7.2 | 34 | 74 | 240.221.22-7.2 | | | | |
| 7.3 | 34 | 74 | 240.221.22-7.3 | | | | |
| 7.4 | 34 | 74 | 240.221.22-7.4 | | | | |
| 7.5 | 34 | 74 | 240.221.22-7.5 | | | | |
| 7.6 | 37 | 79 | 240.221.22-7.6 | | | | |
| 7.7 | 37 | 79 | 240.221.22-7.7 | | | | |
| 7.8 | 37 | 79 | 240.221.22-7.8 | | | | |
| 7.9 | 37 | 79 | 240.221.22-7.9 | | | | |
| 8 | 37 | 79 | 240.221.22-8 | | | | |
| 8.1 | 37 | 79 | 240.221.22-8.1 | | | | |
| 8.2 | 37 | 79 | 240.221.22-8.2 | | | | |
| 8.3 | 37 | 79 | 240.221.22-8.3 | | | | |
| 8.4 | 37 | 79 | 240.221.22-8.4 | | | | |
| 8.5 | 37 | 79 | 240.221.22-8.5 | | | | |
| 8.6 | 40 | 84 | 240.221.22-8.6 | | | | |

* Dimensions livrables jusqu'à épuisement du
* ابعاد قابل تحویل تا اتمام موجودی انبار.

stock,
voir référence 140.321.77N

رجوع شود به ۱۴۰.۳۲۱.۷۷N



FORETS HP

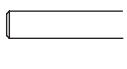

HP متنه های

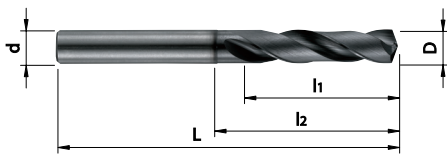
متنه های HP

HP Bohrer

Drills HP

Punte HP

| | | | | | | | | | | |
|-------------------|--------------------------------------|---|-------------|---------|---|-----------------------|---|---|---------|-------------|
| 1 | 4 | 0 | 3 | 2 | 1 | 7 | 7 | N | TiAlN N | 140.321.77N |
| MD HM/SC MG | متنه ها Bohrer Drills Punte |  | D < d | Z2 ↓ |  | λ 30° 140° | | | | |



SATIS
méga



$l_1 = 3 \times D$
HP
DIN 6537K

| D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N | D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N |
|-----------------|---|----------------|----------------|----|-----------------------------------|-----------------|----|----------------|----------------|----|-----------------------------------|
| 3 | 6 | 14 | 20 | 62 | 140.321.77N-3 | 5.7 | 6 | 20 | 28 | 66 | 140.321.77N-5.7 |
| 3.1 | 6 | 14 | 20 | 62 | 140.321.77N-3.1 | 5.8 | 6 | 20 | 28 | 66 | 140.321.77N-5.8 |
| 3.2 | 6 | 14 | 20 | 62 | 140.321.77N-3.2 | 5.9 | 6 | 20 | 28 | 66 | 140.321.77N-5.9 |
| 3.3 | 6 | 14 | 20 | 62 | 140.321.77N-3.3 | 6 | 6 | 20 | 28 | 66 | 140.321.77N-6 |
| 3.4 | 6 | 14 | 20 | 62 | 140.321.77N-3.4 | 6.1 | 8 | 24 | 34 | 79 | 140.321.77N-6.1 |
| 3.5 | 6 | 14 | 20 | 62 | 140.321.77N-3.5 | 6.2 | 8 | 24 | 34 | 79 | 140.321.77N-6.2 |
| 3.6 | 6 | 14 | 20 | 62 | 140.321.77N-3.6 | 6.3 | 8 | 24 | 34 | 79 | 140.321.77N-6.3 |
| 3.7 | 6 | 14 | 20 | 62 | 140.321.77N-3.7 | 6.4 | 8 | 24 | 34 | 79 | 140.321.77N-6.4 |
| 3.8 | 6 | 17 | 24 | 66 | 140.321.77N-3.8 | 6.5 | 8 | 24 | 34 | 79 | 140.321.77N-6.5 |
| 3.9 | 6 | 17 | 24 | 66 | 140.321.77N-3.9 | 6.6 | 8 | 24 | 34 | 79 | 140.321.77N-6.6 |
| 4 | 6 | 17 | 24 | 66 | 140.321.77N-4 | 6.7 | 8 | 24 | 34 | 79 | 140.321.77N-6.7 |
| 4.1 | 6 | 17 | 24 | 66 | 140.321.77N-4.1 | 6.8 | 8 | 24 | 34 | 79 | 140.321.77N-6.8 |
| 4.2 | 6 | 17 | 24 | 66 | 140.321.77N-4.2 | 6.9 | 8 | 24 | 34 | 79 | 140.321.77N-6.9 |
| 4.3 | 6 | 17 | 24 | 66 | 140.321.77N-4.3 | 7 | 8 | 24 | 34 | 79 | 140.321.77N-7 |
| 4.4 | 6 | 17 | 24 | 66 | 140.321.77N-4.4 | 7.1 | 8 | 29 | 41 | 79 | 140.321.77N-7.1 |
| 4.5 | 6 | 17 | 24 | 66 | 140.321.77N-4.5 | 7.2 | 8 | 29 | 41 | 79 | 140.321.77N-7.2 |
| 4.6 | 6 | 17 | 24 | 66 | 140.321.77N-4.6 | 7.3 | 8 | 29 | 41 | 79 | 140.321.77N-7.3 |
| 4.7 | 6 | 17 | 24 | 66 | 140.321.77N-4.7 | 7.4 | 8 | 29 | 41 | 79 | 140.321.77N-7.4 |
| 4.8 | 6 | 20 | 28 | 66 | 140.321.77N-4.8 | 7.5 | 8 | 29 | 41 | 79 | 140.321.77N-7.5 |
| 4.9 | 6 | 20 | 28 | 66 | 140.321.77N-4.9 | 7.6 | 8 | 29 | 41 | 79 | 140.321.77N-7.6 |
| 5 | 6 | 20 | 28 | 66 | 140.321.77N-5 | 7.7 | 8 | 29 | 41 | 79 | 140.321.77N-7.7 |
| 5.1 | 6 | 20 | 28 | 66 | 140.321.77N-5.1 | 7.8 | 8 | 29 | 41 | 79 | 140.321.77N-7.8 |
| 5.2 | 6 | 20 | 28 | 66 | 140.321.77N-5.2 | 7.9 | 8 | 29 | 41 | 79 | 140.321.77N-7.9 |
| 5.3 | 6 | 20 | 28 | 66 | 140.321.77N-5.3 | 8 | 8 | 29 | 41 | 79 | 140.321.77N-8 |
| 5.4 | 6 | 20 | 28 | 66 | 140.321.77N-5.4 | 8.1 | 10 | 35 | 47 | 89 | 140.321.77N-8.1 |
| 5.5 | 6 | 20 | 28 | 66 | 140.321.77N-5.5 | 8.2 | 10 | 35 | 47 | 89 | 140.321.77N-8.2 |
| 5.6 | 6 | 20 | 28 | 66 | 140.321.77N-5.6 | 8.3 | 10 | 35 | 47 | 89 | 140.321.77N-8.3 |

Livable en 140.321.88N jusqu'à épuisement du stock

قابل تحویل به صورت ۱۴۰.۳۲۱.۸۸N تا اتمام موجودی انبار.

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Tech
مشخصات فنی
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FORETS HP

HP متنه های

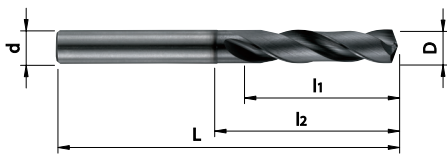
متنه های HP

HP Bohrer

Drills HP

Punte HP

| | | | | | | | | | | |
|-------------------|--------------------------------------|---|-------------|---------|---|-----------------------|---|---|---------|-------------|
| 1 | 4 | 0 | 3 | 2 | 1 | 7 | 7 | N | TiAlN N | 140.321.77N |
| MD HM/SC MG | متنه ها Bohrer Drills Punte | | D < d | Z2 ↓ | | λ 30° 140° | | | | |



SATIS
méga



$l_1 = 3 \times D$
HP
DIN 6537K

| D_{h6} | d | l_1 | l_2 | L | Revêtu TiAlN N با روکش TiAlN N | D_{h6} | d | l_1 | l_2 | L | Revêtu TiAlN N با روکش TiAlN N |
|----------|----|-------|-------|-----|-----------------------------------|----------|----|-------|-------|-----|-----------------------------------|
| 8.4 | 10 | 35 | 47 | 89 | 140.321.77N-8.4 | 11.4 | 12 | 40 | 55 | 102 | 140.321.77N-11.4 |
| 8.5 | 10 | 35 | 47 | 89 | 140.321.77N-8.5 | 11.5 | 12 | 40 | 55 | 102 | 140.321.77N-11.5 |
| 8.6 | 10 | 35 | 47 | 89 | 140.321.77N-8.6 | 11.6 | 12 | 40 | 55 | 102 | 140.321.77N-11.6 |
| 8.7 | 10 | 35 | 47 | 89 | 140.321.77N-8.7 | 11.7 | 12 | 40 | 55 | 102 | 140.321.77N-11.7 |
| 8.8 | 10 | 35 | 47 | 89 | 140.321.77N-8.8 | 11.8 | 12 | 40 | 55 | 102 | 140.321.77N-11.8 |
| 8.9 | 10 | 35 | 47 | 89 | 140.321.77N-8.9 | 11.9 | 12 | 40 | 55 | 102 | 140.321.77N-11.9 |
| 9 | 10 | 35 | 47 | 89 | 140.321.77N-9 | 12 | 12 | 40 | 55 | 102 | 140.321.77N-12 |
| 9.1 | 10 | 35 | 47 | 89 | 140.321.77N-9.1 | 12.5 | 14 | 43 | 60 | 107 | 140.321.77N-12.5 |
| 9.2 | 10 | 35 | 47 | 89 | 140.321.77N-9.2 | 12.8 | 14 | 43 | 60 | 107 | 140.321.77N-12.8 |
| 9.3 | 10 | 35 | 47 | 89 | 140.321.77N-9.3 | 13 | 14 | 43 | 60 | 107 | 140.321.77N-13 |
| 9.4 | 10 | 35 | 47 | 89 | 140.321.77N-9.4 | 13.5 | 14 | 43 | 60 | 107 | 140.321.77N-13.5 |
| 9.5 | 10 | 35 | 47 | 89 | 140.321.77N-9.5 | 13.8 | 14 | 43 | 60 | 107 | 140.321.77N-13.8 |
| 9.6 | 10 | 35 | 47 | 89 | 140.321.77N-9.6 | 14 | 14 | 43 | 60 | 107 | 140.321.77N-14 |
| 9.7 | 10 | 35 | 47 | 89 | 140.321.77N-9.7 | 14.5 | 16 | 45 | 65 | 115 | 140.321.77N-14.5 |
| 9.8 | 10 | 35 | 47 | 89 | 140.321.77N-9.8 | 14.8 | 16 | 45 | 65 | 115 | 140.321.77N-14.8 |
| 9.9 | 10 | 35 | 47 | 89 | 140.321.77N-9.9 | 15 | 16 | 45 | 65 | 115 | 140.321.77N-15 |
| 10 | 10 | 35 | 47 | 89 | 140.321.77N-10 | 15.5 | 16 | 45 | 65 | 115 | 140.321.77N-15.5 |
| 10.1 | 12 | 40 | 55 | 102 | 140.321.77N-10.1 | 15.8 | 16 | 45 | 65 | 115 | 140.321.77N-15.8 |
| 10.2 | 12 | 40 | 55 | 102 | 140.321.77N-10.2 | 16 | 16 | 45 | 65 | 115 | 140.321.77N-16 |
| 10.3 | 12 | 40 | 55 | 102 | 140.321.77N-10.3 | 16.5 | 18 | 51 | 73 | 123 | 140.321.77N-16.5 |
| 10.4 | 12 | 40 | 55 | 102 | 140.321.77N-10.4 | 17 | 18 | 51 | 73 | 123 | 140.321.77N-17 |
| 10.5 | 12 | 40 | 55 | 102 | 140.321.77N-10.5 | 17.5 | 18 | 51 | 73 | 123 | 140.321.77N-17.5 |
| 10.6 | 12 | 40 | 55 | 102 | 140.321.77N-10.6 | 18 | 18 | 51 | 73 | 123 | 140.321.77N-18 |
| 10.7 | 12 | 40 | 55 | 102 | 140.321.77N-10.7 | 18.5 | 20 | 55 | 79 | 131 | 140.321.77N-18.5 |
| 10.8 | 12 | 40 | 55 | 102 | 140.321.77N-10.8 | 19 | 20 | 55 | 79 | 131 | 140.321.77N-19 |
| 10.9 | 12 | 40 | 55 | 102 | 140.321.77N-10.9 | 19.5 | 20 | 55 | 79 | 131 | 140.321.77N-19.5 |
| 11 | 12 | 40 | 55 | 102 | 140.321.77N-11 | 20 | 20 | 55 | 79 | 131 | 140.321.77N-20 |
| 11.1 | 12 | 40 | 55 | 102 | 140.321.77N-11.1 | | | | | | |
| 11.2 | 12 | 40 | 55 | 102 | 140.321.77N-11.2 | | | | | | |
| 11.3 | 12 | 40 | 55 | 102 | 140.321.77N-11.3 | | | | | | |

Livrabable en 140.321.88N jusqu'à épuisement du stock

قابل تحویل به صورت ۱۴۰.۳۲۱.۸۸N تا اتمام موجودی انبار.



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FORETS HP

HP متنه های

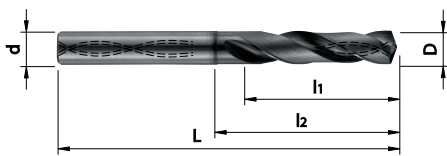
متنه های HP

HP Bohrer

Drills HP

Punte HP

| | | | | | | | | | | |
|-------------------|--------------------------------------|---|-------------|---------|---|-----------------------|---|---|---------|-------------|
| 1 | 4 | 2 | 3 | 2 | 1 | 7 | 7 | N | TiAlN N | 142.321.77N |
| MD HM/SC MG | متنه ها Bohrer Drills Punte | | D < d | Z2 ↓ | | λ 30° 140° | | | | |



SATIS
méga



$l_1 = 3 \times D$
HP
DIN 6537K

| D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N | D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N |
|-----------------|---|----------------|----------------|----|-----------------------------------|-----------------|----|----------------|----------------|----|-----------------------------------|
| 3 | 6 | 14 | 20 | 62 | 142.321.77N-3 | 5.7 | 6 | 20 | 28 | 66 | 142.321.77N-5.7 |
| 3.1 | 6 | 14 | 20 | 62 | 142.321.77N-3.1 | 5.8 | 6 | 20 | 28 | 66 | 142.321.77N-5.8 |
| 3.2 | 6 | 14 | 20 | 62 | 142.321.77N-3.2 | 5.9 | 6 | 20 | 28 | 66 | 142.321.77N-5.9 |
| 3.3 | 6 | 14 | 20 | 62 | 142.321.77N-3.3 | 6 | 6 | 20 | 28 | 66 | 142.321.77N-6 |
| 3.4 | 6 | 14 | 20 | 62 | 142.321.77N-3.4 | 6.1 | 8 | 24 | 34 | 79 | 142.321.77N-6.1 |
| 3.5 | 6 | 14 | 20 | 62 | 142.321.77N-3.5 | 6.2 | 8 | 24 | 34 | 79 | 142.321.77N-6.2 |
| 3.6 | 6 | 14 | 20 | 62 | 142.321.77N-3.6 | 6.3 | 8 | 24 | 34 | 79 | 142.321.77N-6.3 |
| 3.7 | 6 | 14 | 20 | 62 | 142.321.77N-3.7 | 6.4 | 8 | 24 | 34 | 79 | 142.321.77N-6.4 |
| 3.8 | 6 | 17 | 24 | 66 | 142.321.77N-3.8 | 6.5 | 8 | 24 | 34 | 79 | 142.321.77N-6.5 |
| 3.9 | 6 | 17 | 24 | 66 | 142.321.77N-3.9 | 6.6 | 8 | 24 | 34 | 79 | 142.321.77N-6.6 |
| 4 | 6 | 17 | 24 | 66 | 142.321.77N-4 | 6.7 | 8 | 24 | 34 | 79 | 142.321.77N-6.7 |
| 4.1 | 6 | 17 | 24 | 66 | 142.321.77N-4.1 | 6.8 | 8 | 24 | 34 | 79 | 142.321.77N-6.8 |
| 4.2 | 6 | 17 | 24 | 66 | 142.321.77N-4.2 | 6.9 | 8 | 24 | 34 | 79 | 142.321.77N-6.9 |
| 4.3 | 6 | 17 | 24 | 66 | 142.321.77N-4.3 | 7 | 8 | 24 | 34 | 79 | 142.321.77N-7 |
| 4.4 | 6 | 17 | 24 | 66 | 142.321.77N-4.4 | 7.1 | 8 | 29 | 41 | 79 | 142.321.77N-7.1 |
| 4.5 | 6 | 17 | 24 | 66 | 142.321.77N-4.5 | 7.2 | 8 | 29 | 41 | 79 | 142.321.77N-7.2 |
| 4.6 | 6 | 17 | 24 | 66 | 142.321.77N-4.6 | 7.3 | 8 | 29 | 41 | 79 | 142.321.77N-7.3 |
| 4.7 | 6 | 17 | 24 | 66 | 142.321.77N-4.7 | 7.4 | 8 | 29 | 41 | 79 | 142.321.77N-7.4 |
| 4.8 | 6 | 20 | 28 | 66 | 142.321.77N-4.8 | 7.5 | 8 | 29 | 41 | 79 | 142.321.77N-7.5 |
| 4.9 | 6 | 20 | 28 | 66 | 142.321.77N-4.9 | 7.6 | 8 | 29 | 41 | 79 | 142.321.77N-7.6 |
| 5 | 6 | 20 | 28 | 66 | 142.321.77N-5 | 7.7 | 8 | 29 | 41 | 79 | 142.321.77N-7.7 |
| 5.1 | 6 | 20 | 28 | 66 | 142.321.77N-5.1 | 7.8 | 8 | 29 | 41 | 79 | 142.321.77N-7.8 |
| 5.2 | 6 | 20 | 28 | 66 | 142.321.77N-5.2 | 7.9 | 8 | 29 | 41 | 79 | 142.321.77N-7.9 |
| 5.3 | 6 | 20 | 28 | 66 | 142.321.77N-5.3 | 8 | 8 | 29 | 41 | 79 | 142.321.77N-8 |
| 5.4 | 6 | 20 | 28 | 66 | 142.321.77N-5.4 | 8.1 | 10 | 35 | 47 | 89 | 142.321.77N-8.1 |
| 5.5 | 6 | 20 | 28 | 66 | 142.321.77N-5.5 | 8.2 | 10 | 35 | 47 | 89 | 142.321.77N-8.2 |
| 5.6 | 6 | 20 | 28 | 66 | 142.321.77N-5.6 | 8.3 | 10 | 35 | 47 | 89 | 142.321.77N-8.3 |

Livable en 142.321.88N jusqu'à épuisement du stock

قابل تحویل به صورت ۱۴۲.۳۲۱.۸۸N تا اتمام موجودی انبار.



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FORETS HP

HP متنه های

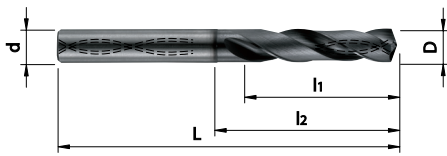
متنه های HP

HP Bohrer

Drills HP

Punte HP

| | | | | | | | | | | |
|-------------------|--------------------------------------|---|-------------|---------|---|-----------------------|---|---|---------|-------------|
| 1 | 4 | 2 | 3 | 2 | 1 | 7 | 7 | N | TiAlN N | 142.321.77N |
| MD HM/SC MG | متنه ها Bohrer Drills Punte | | D < d | Z2 ↓ | | λ 30° 140° | | | | |



SATIS
méga



l1 = 3 x D
HP
DIN 6537K

| D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N | D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N |
|-----------------|----|----------------|----------------|-----|-----------------------------------|-----------------|----|----------------|----------------|-----|-----------------------------------|
| 8.4 | 10 | 35 | 47 | 89 | 142.321.77N-8.4 | 11.4 | 12 | 40 | 55 | 102 | 142.321.77N-11.4 |
| 8.5 | 10 | 35 | 47 | 89 | 142.321.77N-8.5 | 11.5 | 12 | 40 | 55 | 102 | 142.321.77N-11.5 |
| 8.6 | 10 | 35 | 47 | 89 | 142.321.77N-8.6 | 11.6 | 12 | 40 | 55 | 102 | 142.321.77N-11.6 |
| 8.7 | 10 | 35 | 47 | 89 | 142.321.77N-8.7 | 11.7 | 12 | 40 | 55 | 102 | 142.321.77N-11.7 |
| 8.8 | 10 | 35 | 47 | 89 | 142.321.77N-8.8 | 11.8 | 12 | 40 | 55 | 102 | 142.321.77N-11.8 |
| 8.9 | 10 | 35 | 47 | 89 | 142.321.77N-8.9 | 11.9 | 12 | 40 | 55 | 102 | 142.321.77N-11.9 |
| 9 | 10 | 35 | 47 | 89 | 142.321.77N-9 | 12 | 12 | 40 | 55 | 102 | 142.321.77N-12 |
| 9.1 | 10 | 35 | 47 | 89 | 142.321.77N-9.1 | 12.5 | 14 | 43 | 60 | 107 | 142.321.77N-12.5 |
| 9.2 | 10 | 35 | 47 | 89 | 142.321.77N-9.2 | 13 | 14 | 43 | 60 | 107 | 142.321.77N-13 |
| 9.3 | 10 | 35 | 47 | 89 | 142.321.77N-9.3 | 13.5 | 14 | 43 | 60 | 107 | 142.321.77N-13.5 |
| 9.4 | 10 | 35 | 47 | 89 | 142.321.77N-9.4 | 14 | 14 | 43 | 60 | 107 | 142.321.77N-14 |
| 9.5 | 10 | 35 | 47 | 89 | 142.321.77N-9.5 | 14.5 | 16 | 45 | 65 | 115 | 142.321.77N-14.5 |
| 9.6 | 10 | 35 | 47 | 89 | 142.321.77N-9.6 | 15 | 16 | 45 | 65 | 115 | 142.321.77N-15 |
| 9.7 | 10 | 35 | 47 | 89 | 142.321.77N-9.7 | 15.5 | 16 | 45 | 65 | 115 | 142.321.77N-15.5 |
| 9.8 | 10 | 35 | 47 | 89 | 142.321.77N-9.8 | 16 | 16 | 45 | 65 | 115 | 142.321.77N-16 |
| 9.9 | 10 | 35 | 47 | 89 | 142.321.77N-9.9 | 16.5 | 18 | 51 | 73 | 123 | 142.321.77N-16.5 |
| 10 | 10 | 35 | 47 | 89 | 142.321.77N-10 | 17 | 18 | 51 | 73 | 123 | 142.321.77N-17 |
| 10.1 | 12 | 40 | 55 | 102 | 142.321.77N-10.1 | 17.5 | 18 | 51 | 73 | 123 | 142.321.77N-17.5 |
| 10.2 | 12 | 40 | 55 | 102 | 142.321.77N-10.2 | 18 | 18 | 51 | 73 | 123 | 142.321.77N-18 |
| 10.3 | 12 | 40 | 55 | 102 | 142.321.77N-10.3 | 18.5 | 20 | 55 | 79 | 131 | 142.321.77N-18.5 |
| 10.4 | 12 | 40 | 55 | 102 | 142.321.77N-10.4 | 19 | 20 | 55 | 79 | 131 | 142.321.77N-19 |
| 10.5 | 12 | 40 | 55 | 102 | 142.321.77N-10.5 | 19.5 | 20 | 55 | 79 | 131 | 142.321.77N-19.5 |
| 10.6 | 12 | 40 | 55 | 102 | 142.321.77N-10.6 | 20 | 20 | 55 | 79 | 131 | 142.321.77N-20 |
| 10.7 | 12 | 40 | 55 | 102 | 142.321.77N-10.7 | | | | | | |
| 10.8 | 12 | 40 | 55 | 102 | 142.321.77N-10.8 | | | | | | |
| 10.9 | 12 | 40 | 55 | 102 | 142.321.77N-10.9 | | | | | | |
| 11 | 12 | 40 | 55 | 102 | 142.321.77N-11 | | | | | | |
| 11.1 | 12 | 40 | 55 | 102 | 142.321.77N-11.1 | | | | | | |
| 11.2 | 12 | 40 | 55 | 102 | 142.321.77N-11.2 | | | | | | |
| 11.3 | 12 | 40 | 55 | 102 | 142.321.77N-11.3 | | | | | | |

Livable en 142.321.88N jusqu'à épuisement du stock

قابل تحویل به صورت ۱۴۲.۳۲۱.۸۸N تا اتمام موجودی انبار.

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Tech
مشخصات فنی

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FORETS HP

مته های HP

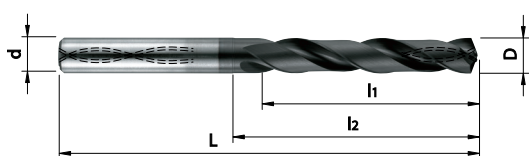
مته های HP

HP Bohrer

Drills HP

Punte HP

| | | | | | | | | | |
|-------------------|-------------------------------------|---|-------------|---------|---|-----------------------|---|---------|-------------|
| 1 | 4 | 2 | 3 | 2 | 4 | 7 | 7 | N | 142.324.77N |
| MD HM/SC MG | مته ها Bohrer Drills Punte | | D < d | Z2 ↓ | | λ 30° 140° | | TiAIN N | |



SATIS
méga



l1 = 5 x D
HP
DIN 6537L

| D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAIN N با روکش TiAIN N | D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAIN N با روکش TiAIN N |
|-----------------|---|----------------|----------------|----|-----------------------------------|-----------------|----|----------------|----------------|-----|-----------------------------------|
| 3 | 6 | 23 | 28 | 66 | 142.324.77N-3 | 5.7 | 6 | 35 | 44 | 82 | 142.324.77N-5.7 |
| 3.1 | 6 | 23 | 28 | 66 | 142.324.77N-3.1 | 5.8 | 6 | 35 | 44 | 82 | 142.324.77N-5.8 |
| 3.2 | 6 | 23 | 28 | 66 | 142.324.77N-3.2 | 5.9 | 6 | 35 | 44 | 82 | 142.324.77N-5.9 |
| 3.3 | 6 | 23 | 28 | 66 | 142.324.77N-3.3 | 6 | 6 | 35 | 44 | 82 | 142.324.77N-6 |
| 3.4 | 6 | 23 | 28 | 66 | 142.324.77N-3.4 | 6.1 | 8 | 43 | 53 | 91 | 142.324.77N-6.1 |
| 3.5 | 6 | 23 | 28 | 66 | 142.324.77N-3.5 | 6.2 | 8 | 43 | 53 | 91 | 142.324.77N-6.2 |
| 3.6 | 6 | 23 | 28 | 66 | 142.324.77N-3.6 | 6.3 | 8 | 43 | 53 | 91 | 142.324.77N-6.3 |
| 3.7 | 6 | 23 | 28 | 66 | 142.324.77N-3.7 | 6.4 | 8 | 43 | 53 | 91 | 142.324.77N-6.4 |
| 3.8 | 6 | 29 | 36 | 74 | 142.324.77N-3.8 | 6.5 | 8 | 43 | 53 | 91 | 142.324.77N-6.5 |
| 3.9 | 6 | 29 | 36 | 74 | 142.324.77N-3.9 | 6.6 | 8 | 43 | 53 | 91 | 142.324.77N-6.6 |
| 4 | 6 | 29 | 36 | 74 | 142.324.77N-4 | 6.7 | 8 | 43 | 53 | 91 | 142.324.77N-6.7 |
| 4.1 | 6 | 29 | 36 | 74 | 142.324.77N-4.1 | 6.8 | 8 | 43 | 53 | 91 | 142.324.77N-6.8 |
| 4.2 | 6 | 29 | 36 | 74 | 142.324.77N-4.2 | 6.9 | 8 | 43 | 53 | 91 | 142.324.77N-6.9 |
| 4.3 | 6 | 29 | 36 | 74 | 142.324.77N-4.3 | 7 | 8 | 43 | 53 | 91 | 142.324.77N-7 |
| 4.4 | 6 | 29 | 36 | 74 | 142.324.77N-4.4 | 7.1 | 8 | 43 | 53 | 91 | 142.324.77N-7.1 |
| 4.5 | 6 | 29 | 36 | 74 | 142.324.77N-4.5 | 7.2 | 8 | 43 | 53 | 91 | 142.324.77N-7.2 |
| 4.6 | 6 | 29 | 36 | 74 | 142.324.77N-4.6 | 7.3 | 8 | 43 | 53 | 91 | 142.324.77N-7.3 |
| 4.7 | 6 | 29 | 36 | 74 | 142.324.77N-4.7 | 7.4 | 8 | 43 | 53 | 91 | 142.324.77N-7.4 |
| 4.8 | 6 | 35 | 44 | 82 | 142.324.77N-4.8 | 7.5 | 8 | 43 | 53 | 91 | 142.324.77N-7.5 |
| 4.9 | 6 | 35 | 44 | 82 | 142.324.77N-4.9 | 7.6 | 8 | 43 | 53 | 91 | 142.324.77N-7.6 |
| 5 | 6 | 35 | 44 | 82 | 142.324.77N-5 | 7.7 | 8 | 43 | 53 | 91 | 142.324.77N-7.7 |
| 5.1 | 6 | 35 | 44 | 82 | 142.324.77N-5.1 | 7.8 | 8 | 43 | 53 | 91 | 142.324.77N-7.8 |
| 5.2 | 6 | 35 | 44 | 82 | 142.324.77N-5.2 | 7.9 | 8 | 43 | 53 | 91 | 142.324.77N-7.9 |
| 5.3 | 6 | 35 | 44 | 82 | 142.324.77N-5.3 | 8 | 8 | 43 | 53 | 91 | 142.324.77N-8 |
| 5.4 | 6 | 35 | 44 | 82 | 142.324.77N-5.4 | 8.1 | 10 | 49 | 61 | 103 | 142.324.77N-8.1 |
| 5.5 | 6 | 35 | 44 | 82 | 142.324.77N-5.5 | 8.2 | 10 | 49 | 61 | 103 | 142.324.77N-8.2 |
| 5.6 | 6 | 35 | 44 | 82 | 142.324.77N-5.6 | 8.3 | 10 | 49 | 61 | 103 | 142.324.77N-8.3 |

Livable en 142.324.88N jusqu'à épuisement du stock

قابل تحویل به صورت ۱۴۲.۳۲۴.۸۸N تا اتمام موجودی انبار.



>>> p 150

FORETS HP

مته های HP

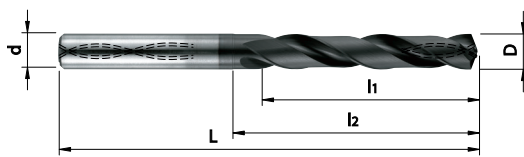
مته های HP

HP Bohrer

Drills HP

Punte HP

| | | | | | | | | | | |
|-------------------|-------------------------------------|---|-------------|---------|---|---------------|---|---|---------|-------------|
| 1 | 4 | 2 | 3 | 2 | 4 | 7 | 7 | N | TiAlN N | 142.324.77N |
| MD HM/SC MG | مته ها Bohrer Drills Punte | | D < d | Z2 ↓ | | λ 30° 140° | | | | |



SATIS
méga



l1 = 5 x D
HP
DIN 6537L

| D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N | D _{h6} | d | l ₁ | l ₂ | L | Revêtu TiAlN N با روکش TiAlN N |
|-----------------|----|----------------|----------------|-----|-----------------------------------|-----------------|----|----------------|----------------|-----|-----------------------------------|
| 8.4 | 10 | 49 | 61 | 103 | 142.324.77N-8.4 | 11.4 | 12 | 56 | 71 | 118 | 142.324.77N-11.4 |
| 8.5 | 10 | 49 | 61 | 103 | 142.324.77N-8.5 | 11.5 | 12 | 56 | 71 | 118 | 142.324.77N-11.5 |
| 8.6 | 10 | 49 | 61 | 103 | 142.324.77N-8.6 | 11.6 | 12 | 56 | 71 | 118 | 142.324.77N-11.6 |
| 8.7 | 10 | 49 | 61 | 103 | 142.324.77N-8.7 | 11.7 | 12 | 56 | 71 | 118 | 142.324.77N-11.7 |
| 8.8 | 10 | 49 | 61 | 103 | 142.324.77N-8.8 | 11.8 | 12 | 56 | 71 | 118 | 142.324.77N-11.8 |
| 8.9 | 10 | 49 | 61 | 103 | 142.324.77N-8.9 | 11.9 | 12 | 56 | 71 | 118 | 142.324.77N-11.9 |
| 9 | 10 | 49 | 61 | 103 | 142.324.77N-9 | 12 | 12 | 56 | 71 | 118 | 142.324.77N-12 |
| 9.1 | 10 | 49 | 61 | 103 | 142.324.77N-9.1 | 12.5 | 14 | 60 | 77 | 124 | 142.324.77N-12.5 |
| 9.2 | 10 | 49 | 61 | 103 | 142.324.77N-9.2 | 13 | 14 | 60 | 77 | 124 | 142.324.77N-13 |
| 9.3 | 10 | 49 | 61 | 103 | 142.324.77N-9.3 | 13.5 | 14 | 60 | 77 | 124 | 142.324.77N-13.5 |
| 9.4 | 10 | 49 | 61 | 103 | 142.324.77N-9.4 | 14 | 14 | 60 | 77 | 124 | 142.324.77N-14 |
| 9.5 | 10 | 49 | 61 | 103 | 142.324.77N-9.5 | 14.5 | 16 | 63 | 83 | 133 | 142.324.77N-14.5 |
| 9.6 | 10 | 49 | 61 | 103 | 142.324.77N-9.6 | 15 | 16 | 63 | 83 | 133 | 142.324.77N-15 |
| 9.7 | 10 | 49 | 61 | 103 | 142.324.77N-9.7 | 15.5 | 16 | 63 | 83 | 133 | 142.324.77N-15.5 |
| 9.8 | 10 | 49 | 61 | 103 | 142.324.77N-9.8 | 16 | 16 | 63 | 83 | 133 | 142.324.77N-16 |
| 9.9 | 10 | 49 | 61 | 103 | 142.324.77N-9.9 | 16.5 | 18 | 71 | 93 | 143 | 142.324.77N-16.5 |
| 10 | 10 | 49 | 61 | 103 | 142.324.77N-10 | 17 | 18 | 71 | 93 | 143 | 142.324.77N-17 |
| 10.1 | 12 | 56 | 71 | 118 | 142.324.77N-10.1 | 17.5 | 18 | 71 | 93 | 143 | 142.324.77N-17.5 |
| 10.2 | 12 | 56 | 71 | 118 | 142.324.77N-10.2 | 18 | 18 | 71 | 93 | 143 | 142.324.77N-18 |
| 10.3 | 12 | 56 | 71 | 118 | 142.324.77N-10.3 | 18.5 | 20 | 77 | 101 | 153 | 142.324.77N-18.5 |
| 10.4 | 12 | 56 | 71 | 118 | 142.324.77N-10.4 | 19 | 20 | 77 | 101 | 153 | 142.324.77N-19 |
| 10.5 | 12 | 56 | 71 | 118 | 142.324.77N-10.5 | 19.5 | 20 | 77 | 101 | 153 | 142.324.77N-19.5 |
| 10.6 | 12 | 56 | 71 | 118 | 142.324.77N-10.6 | 20 | 20 | 77 | 101 | 153 | 142.324.77N-20 |
| 10.7 | 12 | 56 | 71 | 118 | 142.324.77N-10.7 | | | | | | |
| 10.8 | 12 | 56 | 71 | 118 | 142.324.77N-10.8 | | | | | | |
| 10.9 | 12 | 56 | 71 | 118 | 142.324.77N-10.9 | | | | | | |
| 11 | 12 | 56 | 71 | 118 | 142.324.77N-11 | | | | | | |
| 11.1 | 12 | 56 | 71 | 118 | 142.324.77N-11.1 | | | | | | |
| 11.2 | 12 | 56 | 71 | 118 | 142.324.77N-11.2 | | | | | | |
| 11.3 | 12 | 56 | 71 | 118 | 142.324.77N-11.3 | | | | | | |

Livrabable en 142.324.88N jusqu'à épuisement du stock

قابل تحویل به صورت ۱۴۲.۳۲۴.۸۸N تا اتمام موجودی انبار.

INEO
Tech
مشخصات فنی

>>> p 150



FORETS

مته ها

مته های مرغک

NC-Anbohrer

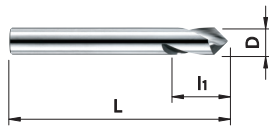
NC spot drills

Punte centratrici CN

| | | | | | | | | | |
|------------------------|-------------------------------------|---|---|---|---|--------------------|---------------|----------------|-----------------|
| 2 | 4 | 0 | 7 | 6 | 5 | | G | 240.765 | 240.765G |
| MD HM/SC MG KX10 | مته ها Bohrer Drills Punte | | | | | 60° 90° 120° | AlCrON | | |

gamme élargie

دارای مدل های مختلف



SATIS
cut



Type N

Norme SATIS

| Angle | D _{h6} | d | l ₁ | L | Non revêtu بدون روکش | Revêtu AlCrON AlCrON باروکش |
|-------|-----------------|-----|----------------|----|-------------------------|--------------------------------|
| 60° | 2 | 2 | 8 | 39 | 240.765-60-2 | 240.765G-60-2 |
| | 3 | 3 | 10 | 39 | 240.765-60-3 | 240.765G-60-3 |
| | 4 | 4 | 12 | 50 | 240.765-60-4 | 240.765G-60-4 |
| | 6 | 6 | 16 | 50 | 240.765-60-6 | 240.765G-60-6 |
| 90° | 1 | 2 | 3.5 | 39 | 240.765-90-1 | 240.765G-90-1 |
| | 1.5 | 2 | 5 | 39 | 240.765-90-1.5 | 240.765G-90-1.5 |
| | 2 | 2 | 8 | 39 | 240.765-90-2 | 240.765G-90-2 |
| | 2.5 | 2.5 | 8 | 39 | 240.765-90-2.5 | 240.765G-90-2.5 |
| | 3 | 3 | 10 | 39 | 240.765-90-3 | 240.765G-90-3 |
| | 4 | 4 | 12 | 50 | 240.765-90-4 | 240.765G-90-4 |
| | 5 | 5 | 15 | 50 | 240.765-90-5 | 240.765G-90-5 |
| | 6 | 6 | 16 | 57 | 240.765-90-6 | 240.765G-90-6 |
| | 8 | 8 | 20 | 63 | 240.765-90-8 | 240.765G-90-8 |
| | 10 | 10 | 22 | 72 | 240.765-90-10 | 240.765G-90-10 |
| 120° | 12 | 12 | 24 | 73 | 240.765-90-12 | 240.765G-90-12 |
| | 16 | 16 | 26 | 82 | 240.765-90-16 | 240.765G-90-16 |
| | 20 | 20 | 30 | 92 | 240.765-90-20 | 240.765G-90-20 |
| | 2 | 2 | 8 | 39 | 240.765-120-2 | 240.765G-120-2 |
| | 3 | 3 | 10 | 39 | 240.765-120-3 | 240.765G-120-3 |
| | 4 | 4 | 12 | 50 | 240.765-120-4 | 240.765G-120-4 |
| | 6 | 6 | 16 | 50 | 240.765-120-6 | 240.765G-120-6 |
| | 8 | 8 | 20 | 63 | 240.765-120-8 | 240.765G-120-8 |
| | 10 | 10 | 22 | 72 | 240.765-120-10 | 240.765G-120-10 |
| | 12 | 12 | 24 | 73 | 240.765-120-12 | 240.765G-120-12 |

Livable avec revêtement TiAlN N jusqu'à épuisement du stock

قابل تحویل با پوشش TiAlN N تا اتمام موجودی انبار.

FORETS

مته ها

مته های مرغک

Zentrierbohrer

Center drills

Punte a centrare

2

4

0

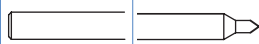
8

5

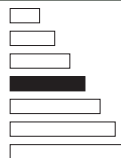
5

MD
HM/SC
MG

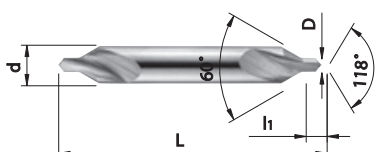
مته ها
Bohrer
Drills
Punte



60°
Forme A



240.855



SATIS
cut



DIN 333A

| D_{h5} | d_{k12} | l_1 | L | Non revêtu بدون روکش |
|----------|-----------|-------|----|-------------------------|
| 0.5 | 3.15 | 0.7 | 25 | 240.855-0.5-3.15 |
| 0.8 | 3.15 | 1.1 | 25 | 240.855-0.8-3.15 |
| 1 | 3.15 | 1.45 | 31 | 240.855-1-3.15 |
| 1 | 4 | 1.45 | 35 | 240.855-1-4 |
| 1.25 | 3.15 | 1.75 | 31 | 240.855-1.25-3.15 |
| 1.5 | 5 | 2.2 | 40 | 240.855-1.5-5 |
| 1.6 | 4 | 2.2 | 35 | 240.855-1.6-4 |
| 2 | 5 | 2.7 | 40 | 240.855-2-5 |
| 2 | 6 | 2.7 | 45 | 240.855-2-6 |
| 2.5 | 6.3 | 3.35 | 45 | 240.855-2.5-6.3 |
| 2.5 | 8 | 3.35 | 50 | 240.855-2.5-8 |
| 3 | 10 | 4.15 | 55 | 240.855-3-10 |
| 3.15 | 8 | 4.15 | 50 | 240.855-3.15-8 |
| 4 | 10 | 5.3 | 55 | 240.855-4-10 |

MICRO alésoirs

میکرو بُرقوها

میکرو بُرقوها

Mikro-Reibahlen

Micro reamers

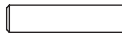
Micro alesatori

2 5 0 0 4 2 1 0

250.042.10

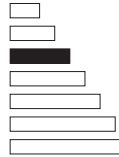
MD
HM/SC
MG

بُرقوها
Reibahlen
Reamers
Alesatori



D
<
d

Z4
↓



$\lambda -10^\circ$



جدید **nouveau**

Livrable de stock tous

les 5 microns

Norme SATIS

SATIS
cut

| $D_{\pm 0.001}$ | d_{h5} | l_1 | l_2 | L | Z | Non revêtu بدون روکش |
|-----------------|----------|-------|-------|----|---|-------------------------|
| 0.2 - 0.245 | 3 | 0.9 | 2 | 39 | 4 | 250.042.10-... |
| 0.25 - 0.295 | 3 | 1.1 | 2.5 | 39 | 4 | 250.042.10-... |
| 0.3 - 0.345 | 3 | 1.4 | 3 | 39 | 4 | 250.042.10-... |
| 0.35 - 0.395 | 3 | 1.7 | 3.5 | 39 | 4 | 250.042.10-... |
| 0.4 - 0.445 | 3 | 2 | 4 | 39 | 4 | 250.042.10-... |
| 0.45 - 0.495 | 3 | 2 | 4 | 39 | 4 | 250.042.10-... |
| 0.5 - 0.595 | 3 | 2.3 | 5 | 39 | 4 | 250.042.10-... |

MICRO alésoirs

برقوها

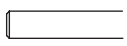

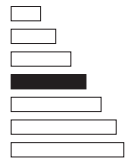
برقوهای ماشینی

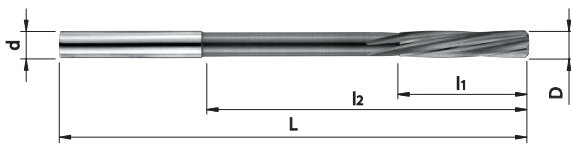
Maschinen-Reibahlen

Machine reamers

Alesatori macchina

250.154.10

| | | | | | | | |
|-------------------|---|---|---|--------------|---|--|---|
| 2 | 5 | 0 | 1 | 5 | 4 | 1 | 0 |
| MD HM/SC MG | برقوها Reibahlen Reamers Alesatori |  |  | Z 4 - 6 ↓ |  | $\lambda -10^\circ$ $\gamma \sim 5^\circ$ | |



Autres dimensions et tolérances spéciales jusqu'au Ø 20 mm sur demande.

MD monobloc jusqu'au Ø 7.55 mm, Tête MD monobloc brasée à partir de Ø 7.56 mm.

SATIS cut

DIN 212B

ابعاد دیگر و تolerانس های مخصوص تا Ø 20 میلیمتر طبق درخواست .
منو بلوک MD تا Ø 7.55 میلیمتر .
سر (نوک) منو بلوک MD ضخیم شده از Ø 7.56 میلیمتر.

DIMENSIONS INTERMEDIAIRE PAR 1/100

ابعاد متوسط 1/100

Délai : 3/4 jours

تحويل: 3 الی 4 روزه

| D* | d | l ₁ | l ₂ | L | Z | Non revêtu بدون روکش |
|---------------|-----|----------------|----------------|-----|---|-------------------------|
| 0.6 - 0.69 | D | 7 | 17 | 33 | 4 | 250.154.10-... |
| 0.7 - 0.79 | D | 7 | 17 | 33 | 4 | 250.154.10-... |
| 0.8 - 0.94 | D | 7 | 22 | 38 | 4 | 250.154.10-... |
| 0.95 - 1.05 | D | 7 | 22 | 38 | 4 | 250.154.10-... |
| 1.06 - 1.55 | D | 10 | 24 | 40 | 4 | 250.154.10-... |
| 1.56 - 1.79 | D | 11 | 26 | 43 | 4 | 250.154.10-... |
| 1.80 - 1.96 | D | 12 | 31 | 49 | 4 | 250.154.10-... |
| 1.97 - 2.05 | D | 12 | 31 | 49 | 4 | 250.154.10-... |
| 2.06 - 2.36 | D | 12 | 31 | 49 | 4 | 250.154.10-... |
| 2.37 - 2.96 | D | 18 | 38 | 57 | 6 | 250.154.10-... |
| 2.97 - 3.05 | D | 18 | 38 | 57 | 6 | 250.154.10-... |
| 3 H7 | D | 18 | 38 | 57 | 6 | 250.154.10-3-H7 |
| 3.06 - 3.75 | D | 18 | 38 | 57 | 6 | 250.154.10-... |
| 3.5 H7 | D | 18 | 38 | 57 | 6 | 250.154.10-3.5-H7 |
| 3.97 - 4.05 | 4 | 19 | 51 | 75 | 6 | 250.154.10-... |
| 4 H7 | 4 | 19 | 51 | 75 | 6 | 250.154.10-4-H7 |
| 4.47 - 4.55 | 4.5 | 21 | 55 | 80 | 6 | 250.154.10-... |
| 4.5 H7 | 4.5 | 21 | 55 | 80 | 6 | 250.154.10-4.5-H7 |
| 4.97 - 5.05 | 5 | 23 | 60 | 86 | 6 | 250.154.10-... |
| 5 H7 | 5 | 23 | 60 | 86 | 6 | 250.154.10-5-H7 |
| 5.47 - 5.55 | 5.5 | 26 | 66 | 93 | 6 | 250.154.10-... |
| 5.5 H7 | 5.5 | 26 | 66 | 93 | 6 | 250.154.10-5.5-H7 |
| 5.97 - 6.05 | 6 | 28 | 73 | 101 | 6 | 250.154.10-... |
| 6 H7 | 6 | 28 | 73 | 101 | 6 | 250.154.10-6-H7 |
| 6.97 - 7.05 | 7 | 31 | 80 | 109 | 6 | 250.154.10-... |
| 7.97 - 8.05 | 8 | 33 | 86 | 117 | 6 | 250.154.10-... |
| 8 H7 | 8 | 33 | 86 | 117 | 6 | 250.154.10-8-H7 |
| 8.97 - 9.05 | 9 | 36 | 91 | 125 | 6 | 250.154.10-... |
| 9.97 - 10.05 | 10 | 38 | 99 | 133 | 6 | 250.154.10-... |
| 10 H7 | 10 | 38 | 99 | 133 | 6 | 250.154.10-10-H7 |
| 10.97 - 11.05 | 10 | 38 | 99 | 133 | 6 | 250.154.10-... |
| 11.97 - 12.05 | 12 | 44 | 106 | 151 | 6 | 250.154.10-... |
| 12 H7 | 12 | 44 | 106 | 151 | 6 | 250.154.10-12-H7 |

| D* | d | l ₁ | l ₂ | L | Z | Non revêtu بدون روکش |
|---------------|-----|----------------|----------------|-----|---|-------------------------|
| 3.76 - 3.96 | 4 | 19 | 51 | 75 | 6 | 250.154.10-... |
| 4.06 - 4.25 | 4 | 19 | 51 | 75 | 6 | 250.154.10-... |
| 4.26 - 4.46 | 4.5 | 21 | 55 | 80 | 6 | 250.154.10-... |
| 4.56 - 4.75 | 4.5 | 21 | 55 | 80 | 6 | 250.154.10-... |
| 4.76 - 4.96 | 5 | 23 | 60 | 86 | 6 | 250.154.10-... |
| 5.06 - 5.3 | 5 | 23 | 60 | 86 | 6 | 250.154.10-... |
| 5.31 - 5.46 | 5.5 | 26 | 66 | 93 | 6 | 250.154.10-... |
| 5.56 - 5.8 | 5.5 | 26 | 66 | 93 | 6 | 250.154.10-... |
| 5.81 - 5.96 | 6 | 28 | 73 | 101 | 6 | 250.154.10-... |
| 6.06 - 6.7 | 6 | 28 | 73 | 101 | 6 | 250.154.10-... |
| 6.71 - 6.96 | 7 | 31 | 80 | 109 | 6 | 250.154.10-... |
| 7.06 - 7.55 | 7 | 31 | 80 | 109 | 6 | 250.154.10-... |
| 7.56 - 7.96 | 8 | 33 | 86 | 117 | 6 | 250.154.10-... |
| 8.06 - 8.55 | 8 | 33 | 86 | 117 | 6 | 250.154.10-... |
| 8.56 - 8.96 | 9 | 36 | 91 | 125 | 6 | 250.154.10-... |
| 9.06 - 9.55 | 9 | 36 | 91 | 125 | 6 | 250.154.10-... |
| 9.56 - 9.96 | 10 | 38 | 99 | 133 | 6 | 250.154.10-... |
| 10.06 - 10.96 | 10 | 38 | 99 | 133 | 6 | 250.154.10-... |
| 11.06 - 11.96 | 12 | 44 | 106 | 151 | 6 | 250.154.10-... |
| 12.06 - 13.05 | 12 | 44 | 106 | 151 | 6 | 250.154.10-... |

*Tolérances pour Ø ≤ 6 : 0/+0.003, pour Ø > 6 : 0/+0.005
* تolerانس ≤ 6 Ø

Outils HSS

ابزارهای HSS




**SATIS
TOOL**

FRAISES

فِرِزِهَا

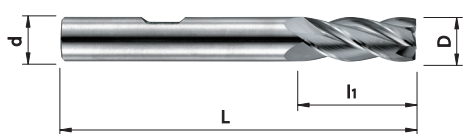
فِرِزِهَا

Fräser

End mills

Frese

| | | | | | | | | | | |
|---------|---|-----------|---|--------|---|--|---|--------|------------|-------------|
| 5 | 2 | 1 | 1 | 5 | 5 | 3 | 0 | G | 521.155.30 | 521.155.30G |
| HSS Co8 | فِرِزِهَا Fräser End mills Frese | DIN 1835B | | Z3 - 5 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | AlCrON | | |



SATIS
hss



Type N
ISO 1641/I

| D | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu AlCrON باروکش |
|-----|-----------------|----------------|-----|---|-------------------------|-------------------------|
| 2 | 6 | 7 | 51 | 3 | 521.155.30-2 | 521.155.30G-2 |
| 2.5 | 6 | 8 | 52 | 3 | 521.155.30-2.5 | 521.155.30G-2.5 |
| 3 | 6 | 8 | 52 | 3 | 521.155.30-3 | 521.155.30G-3 |
| 3.5 | 6 | 10 | 54 | 3 | 521.155.30-3.5 | 521.155.30G-3.5 |
| 4 | 6 | 11 | 55 | 3 | 521.155.30-4 | 521.155.30G-4 |
| 4.5 | 6 | 11 | 55 | 3 | 521.155.30-4.5 | 521.155.30G-4.5 |
| 5 | 6 | 13 | 57 | 3 | 521.155.30-5 | 521.155.30G-5 |
| 5.5 | 6 | 13 | 57 | 3 | 521.155.30-5.5 | 521.155.30G-5.5 |
| 6 | 6 | 13 | 57 | 3 | 521.155.30-6 | 521.155.30G-6 |
| 7 | 8 | 16 | 60 | 4 | 521.155.30-7 | 521.155.30G-7 |
| 8 | 8 | 19 | 63 | 4 | 521.155.30-8 | 521.155.30G-8 |
| 9 | 10 | 19 | 69 | 4 | 521.155.30-9 | 521.155.30G-9 |
| 10 | 10 | 22 | 72 | 4 | 521.155.30-10 | 521.155.30G-10 |
| 11 | 12 | 22 | 79 | 4 | 521.155.30-11 | 521.155.30G-11 |
| 12 | 12 | 26 | 83 | 4 | 521.155.30-12 | 521.155.30G-12 |
| 13 | 12 | 26 | 83 | 4 | 521.155.30-13 | 521.155.30G-13 |
| 14 | 12 | 26 | 83 | 4 | 521.155.30-14 | 521.155.30G-14 |
| 15 | 12 | 26 | 83 | 4 | 521.155.30-15 | 521.155.30G-15 |
| 16 | 16 | 32 | 92 | 4 | 521.155.30-16 | 521.155.30G-16 |
| 18 | 16 | 32 | 92 | 4 | 521.155.30-18 | 521.155.30G-18 |
| 20 | 20 | 38 | 104 | 4 | 521.155.30-20 | 521.155.30G-20 |
| 22 | 20 | 38 | 104 | 4 | 521.155.30-22 | 521.155.30G-22 |
| 25 | 25 | 45 | 121 | 5 | 521.155.30-25 | 521.155.30G-25 |

Livrabable avec revêtement TiCN jusqu'à épousément du stock

قابل تحویل با پوشش TiCN تا اتمام موجودی انبار.

FRAISES


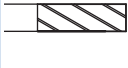

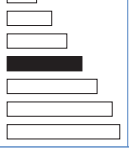
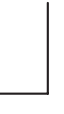
فرزها

فرزها

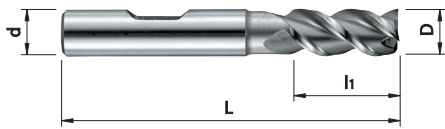
Fräser

End mills

Frese

| | | | | | | | |
|---------|---------------------------------------|---|---|---|---|--|---|
| 5 | 2 | 1 | 1 | 5 | 5 | 8 | 0 |
| HSS Co8 | فرزها Fräser End mills Frese |  |  | Z2 - 3  |  | $\lambda 45^\circ$ $\gamma \sim 20^\circ$ |  |

521.155.80



SATIS
hss



Type W
ISO 1641/I

| D | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش |
|-----|-----------------|----------------|-----|---|-------------------------|
| 2 | 6 | 7 | 51 | 2 | 521.155.80-2 |
| 2.5 | 6 | 8 | 52 | 2 | 521.155.80-2.5 |
| 3 | 6 | 8 | 52 | 2 | 521.155.80-3 |
| 4 | 6 | 11 | 55 | 2 | 521.155.80-4 |
| 5 | 6 | 13 | 57 | 2 | 521.155.80-5 |
| 6 | 6 | 13 | 57 | 2 | 521.155.80-6 |
| 8 | 8 | 19 | 63 | 2 | 521.155.80-8 |
| 10 | 10 | 22 | 72 | 2 | 521.155.80-10 |
| 12 | 12 | 26 | 83 | 3 | 521.155.80-12 |
| 14 | 12 | 26 | 83 | 3 | 521.155.80-14 |
| 16 | 16 | 32 | 92 | 3 | 521.155.80-16 |
| 18 | 16 | 32 | 92 | 3 | 521.155.80-18 |
| 20 | 20 | 38 | 104 | 3 | 521.155.80-20 |
| 25 | 25 | 45 | 121 | 3 | 521.155.80-25 |

FRAISES


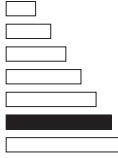

فرزها

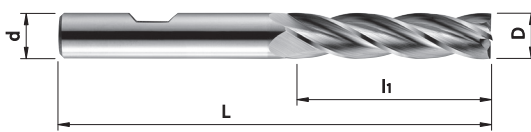
فرزها

Fräser

End mills

Frese

| | | | | | | | | | | |
|---------|---------------------------------------|-----------|---|--------|---|--|---|--------|------------|-------------|
| 5 | 2 | 1 | 1 | 5 | 7 | 3 | 0 | G | 521.157.30 | 521.157.30G |
| HSS Co8 | فرزها Fräser End mills Frese | DIN 1835B |  | Z3 - 5 |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | AlCrON | | |



SATIS
hss



Type N
ISO 1641/I

| D | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش | Revêtu AlCrON باروکش |
|----|-----------------|----------------|-----|---|-------------------------|-------------------------|
| 3 | 6 | 12 | 56 | 3 | 521.157.30-3 | 521.157.30G-3 |
| 4 | 6 | 19 | 63 | 3 | 521.157.30-4 | 521.157.30G-4 |
| 5 | 6 | 24 | 68 | 3 | 521.157.30-5 | 521.157.30G-5 |
| 6 | 6 | 24 | 68 | 3 | 521.157.30-6 | 521.157.30G-6 |
| 7 | 8 | 30 | 74 | 4 | 521.157.30-7 | 521.157.30G-7 |
| 8 | 8 | 38 | 82 | 4 | 521.157.30-8 | 521.157.30G-8 |
| 9 | 10 | 38 | 88 | 4 | 521.157.30-9 | 521.157.30G-9 |
| 10 | 10 | 45 | 95 | 4 | 521.157.30-10 | 521.157.30G-10 |
| 12 | 12 | 53 | 110 | 4 | 521.157.30-12 | 521.157.30G-12 |
| 14 | 12 | 53 | 110 | 4 | 521.157.30-14 | 521.157.30G-14 |
| 16 | 16 | 63 | 123 | 4 | 521.157.30-16 | 521.157.30G-16 |
| 18 | 16 | 63 | 123 | 4 | 521.157.30-18 | 521.157.30G-18 |
| 20 | 20 | 75 | 141 | 4 | 521.157.30-20 | 521.157.30G-20 |
| 22 | 20 | 75 | 141 | 4 | 521.157.30-22 | 521.157.30G-22 |
| 25 | 25 | 90 | 166 | 5 | 521.157.30-25 | 521.157.30G-25 |
| 28 | 25 | 90 | 166 | 5 | 521.157.30-28 | 521.157.30G-28 |
| 32 | 32 | 106 | 186 | 5 | 521.157.30-32 | 521.157.30G-32 |

Livable avec revêtement TiCN jusqu'à épauement du stock

قابل تحویل با پوشش TiCN تا اتمام موجودی انبار.

FRAISES


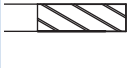

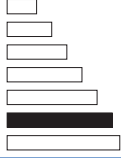

فرزها

فرزها

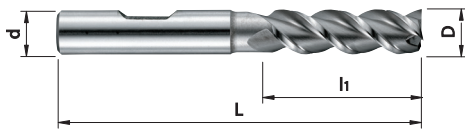
Fräser

End mills

Frese

| | | | | | | | |
|---------|---------------------------------------|---|---|---|---|--|---|
| 5 | 2 | 1 | 1 | 5 | 7 | 8 | 0 |
| HSS Co8 | فرزها Fräser End mills Frese |  |  | Z2 - 3  |  | $\lambda 45^\circ$ $\gamma \sim 20^\circ$ |  |

521.157.80



SATIS
hss



Type W
ISO 1641/I

| D | d _{h6} | l ₁ | L | Z | Non revêtu بدون روکش |
|----|-----------------|----------------|-----|---|-------------------------|
| 6 | 6 | 24 | 68 | 2 | 521.157.80-6 |
| 8 | 8 | 38 | 82 | 2 | 521.157.80-8 |
| 10 | 10 | 45 | 95 | 2 | 521.157.80-10 |
| 12 | 12 | 53 | 110 | 3 | 521.157.80-12 |
| 14 | 12 | 53 | 110 | 3 | 521.157.80-14 |
| 16 | 16 | 63 | 123 | 3 | 521.157.80-16 |
| 18 | 16 | 63 | 123 | 3 | 521.157.80-18 |
| 20 | 20 | 75 | 141 | 3 | 521.157.80-20 |
| 25 | 25 | 90 | 166 | 3 | 521.157.80-25 |
| 32 | 32 | 106 | 186 | 3 | 521.157.80-32 |

FRAISES

فرزها

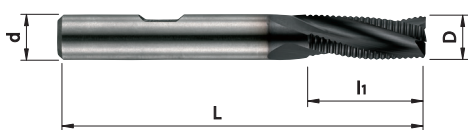
فرزهای خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | | |
|---------|---------------------------------------|-----------|--------|--|---|---|----|---|--------|--------------|
| 5 | 2 | 1 | 1 | 5 | 5 | 3 | 72 | G | AICRON | 521.155.372G |
| HSS Co8 | فرزها Fräser End mills Frese | DIN 1835B | Z3 - 6 | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | | | | | |



SATIS
hss



Type HR
ISO 1641/I

| D | d _{h6} | l ₁ | L | Z | Revêtu AICRON AICRON باروکش |
|------|-----------------|----------------|-----|---|--------------------------------|
| 4 * | 6 | 11 | 55 | 3 | 521.155.372G-4 |
| 5 * | 6 | 13 | 57 | 3 | 521.155.372G-5 |
| 6 * | 6 | 13 | 57 | 3 | 521.155.372G-6 |
| 7 * | 10 | 16 | 66 | 3 | 521.155.372G-7 |
| 8 | 10 | 19 | 69 | 3 | 521.155.372G-8 |
| 9 * | 10 | 19 | 69 | 3 | 521.155.372G-9 |
| 10 | 10 | 22 | 72 | 4 | 521.155.372G-10 |
| 11 * | 12 | 22 | 79 | 4 | 521.155.372G-11 |
| 12 | 12 | 26 | 83 | 4 | 521.155.372G-12 |
| 13 * | 12 | 26 | 83 | 4 | 521.155.372G-13 |
| 14 | 12 | 26 | 83 | 4 | 521.155.372G-14 |
| 15 * | 12 | 26 | 83 | 4 | 521.155.372G-15 |
| 16 | 16 | 32 | 92 | 4 | 521.155.372G-16 |
| 18 | 16 | 32 | 92 | 4 | 521.155.372G-18 |
| 20 | 20 | 38 | 104 | 4 | 521.155.372G-20 |
| 22 * | 20 | 38 | 104 | 5 | 521.155.372G-22 |
| 25 | 25 | 45 | 121 | 5 | 521.155.372G-25 |
| 30 * | 25 | 45 | 121 | 6 | 521.155.372G-30 |
| 40 * | 32 | 63 | 143 | 6 | 521.155.372G 40 |

* Dimensions livrables jusqu'à épauement du stock

Livable avec revêtement TiCN jusqu'à épauement du stock

* ابعاد قابل تحویل تا اتمام موجودی انبار.

قابل تحویل با پوشش TiCN تا اتمام موجودی انبار.

FRAISES

فرزها

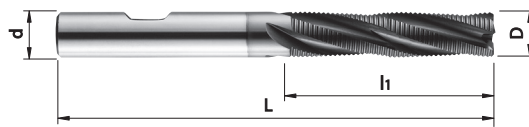
فرزهای خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | | |
|---------|---------------------------------------|-----------|--------|--|---|---|----|---|--------|--------------|
| 5 | 2 | 1 | 1 | 5 | 7 | 3 | 72 | G | AICRON | 521.157.372G |
| HSS Co8 | فرزها Fräser End mills Frese | DIN 1835B | Z3 - 6 | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | | | | | |



SATIS
hss



Type HR
ISO 1641/I

| D | d _{h6} | l ₁ | L | Z | Revêtu AICRON AICRON باروکش |
|------|-----------------|----------------|-----|---|--------------------------------|
| 6 * | 6 | 24 | 68 | 3 | 521.157.372G-6 |
| 8 | 10 | 38 | 88 | 3 | 521.157.372G-8 |
| 10 | 10 | 45 | 95 | 4 | 521.157.372G-10 |
| 12 | 12 | 53 | 110 | 4 | 521.157.372G-12 |
| 14 | 12 | 53 | 110 | 4 | 521.157.372G-14 |
| 16 | 16 | 63 | 123 | 4 | 521.157.372G-16 |
| 18 | 16 | 63 | 123 | 4 | 521.157.372G-18 |
| 20 | 20 | 75 | 141 | 4 | 521.157.372G-20 |
| 22 * | 20 | 75 | 141 | 5 | 521.157.372G-22 |
| 25 | 25 | 90 | 166 | 5 | 521.157.372G-25 |
| 30 * | 25 | 90 | 166 | 6 | 521.157.372G-30 |

* Dimensions livrables jusqu'à épuisement du stock

Livable avec revêtement TiCN jusqu'à épuisement du stock

* ابعاد قابل تحویل تا اتمام موجودی انبار.

قابل تحویل با پوشش TiCN تا اتمام موجودی انبار.

FRAISES

فرزها

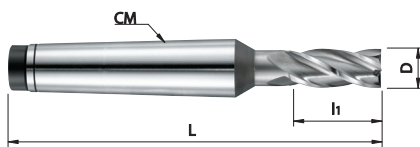
فرزهای

Fräser

End mills

Frese

| | | | | | | | | | | |
|---------|---------------------------------------|----------|---|--------|---|--|---|------|------------|-------------|
| 5 | 2 | 4 | 1 | 6 | 5 | 3 | 0 | B | 524.165.30 | 524.165.30B |
| HSS Co8 | فرزها Fräser End mills Frese | DIN 228A | | Z4 - 6 | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ | | TiCN | | |



SATIS
hss



Type N
ISO 1641/II

| D | CM | l_1 | L | Z | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN |
|----|----|-------|-----|---|-------------------------|-----------------------------|
| 12 | 2 | 26 | 111 | 4 | 524.165.30-12 | 524.165.30B-12 |
| 14 | 2 | 26 | 111 | 4 | 524.165.30-14 | 524.165.30B-14 |
| 16 | 2 | 32 | 117 | 4 | 524.165.30-16 | 524.165.30B-16 |
| 18 | 2 | 32 | 117 | 4 | 524.165.30-18 | 524.165.30B-18 |
| 20 | 2 | 38 | 123 | 4 | 524.165.30-20 | 524.165.30B-20 |
| 22 | 2 | 38 | 123 | 4 | 524.165.30-22 | 524.165.30B-22 |
| 25 | 3 | 45 | 147 | 5 | 524.165.30-25 | 524.165.30B-25 |
| 28 | 3 | 45 | 147 | 5 | 524.165.30-28 | 524.165.30B-28 |
| 30 | 3 | 45 | 147 | 5 | 524.165.30-30 | 524.165.30B-30 |
| 32 | 3 | 53 | 155 | 5 | 524.165.30-32 | 524.165.30B-32 |
| 36 | 4 | 53 | 178 | 5 | 524.165.30-36 | 524.165.30B-36 |
| 40 | 4 | 63 | 188 | 6 | 524.165.30-40 | 524.165.30B-40 |
| 45 | 4 | 63 | 188 | 6 | 524.165.30-45 | 524.165.30B-45 |
| 50 | 4 | 75 | 200 | 6 | 524.165.30-50 | 524.165.30B-50 |

Gamme livrable jusqu'à épuisement du stock
avec remise supplémentaire exceptionnelle de 25%

قابل تحویل تا اتمام موجودی انبار.
با تخفیف استثنایی ۲۵ درصدی

FRAISES




فرزها

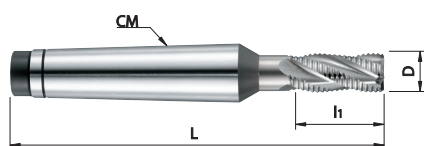
فرزهای خشن کاری

Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | | | |
|---------|---------------------------------------|----------|---|--------|---|--|---|---|------|--------------|
| 5 | 2 | 4 | 1 | 6 | 5 | 3 | 72 | B | TiCN | 524.165.372B |
| HSS Co8 | فرزها Fräser End mills Frese | DIN 228A |  | Z4 - 6 |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | | | |



SATIS
hss



Type HR
ISO 1641/II

| D | CM | l_1 | L | Z | Revêtu TiCN TiCN باروکش |
|----|----|-------|-----|---|----------------------------|
| 12 | 2 | 26 | 111 | 4 | 524.165.372B-12-2 |
| 14 | 2 | 26 | 111 | 4 | 524.165.372B-14-2 |
| 16 | 2 | 32 | 117 | 4 | 524.165.372B-16-2 |
| 18 | 2 | 32 | 117 | 4 | 524.165.372B-18-2 |
| 20 | 2 | 38 | 123 | 4 | 524.165.372B-20-2 |
| 22 | 3 | 38 | 140 | 4 | 524.165.372B-22-3 |
| 25 | 3 | 45 | 147 | 4 | 524.165.372B-25-3 |
| 28 | 3 | 45 | 147 | 5 | 524.165.372B-28-3 |
| 30 | 3 | 45 | 147 | 5 | 524.165.372B-30-3 |
| 32 | 3 | 53 | 155 | 5 | 524.165.372B-32-3 |
| 32 | 4 | 53 | 178 | 5 | 524.165.372B-32-4 |
| 36 | 4 | 53 | 178 | 5 | 524.165.372B-36-4 |
| 40 | 4 | 63 | 188 | 6 | 524.165.372B-40-4 |
| 45 | 4 | 63 | 188 | 6 | 524.165.372B-45-4 |
| 50 | 4 | 75 | 200 | 6 | 524.165.372B-50-4 |

Gamme livrable jusqu'à épuisement du stock
avec remise supplémentaire exceptionnelle de 25%

قابل تحویل تا اتمام موجودی انبار.
با تخفیف استثنایی ۲۵ درصدی

FRAISES


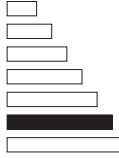

فرزها

فرزهای خشن کاری

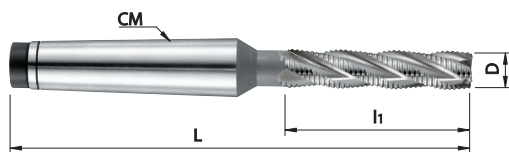
Schrupfräser

Roughing Cutters

Frese a Sgrossare

| | | | | | | | | |
|---------|---------------------------------------|----------|---|--------|---|--|---|------|
| 5 | 2 | 4 | 1 | 6 | 7 | 3 | 72 | B |
| HSS Co8 | فرزها Fräser End mills Frese | DIN 228A |  | Z4 - 6 |  | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | TiCN |

524.167.372B



Type HR
ISO 1641/II

| D | CM | l ₁ | L | Z | Revêtu TiCN TiCN با روکش |
|----|----|----------------|-----|---|-----------------------------|
| 12 | 2 | 53 | 138 | 4 | 524.167.372B-12 |
| 14 | 2 | 53 | 138 | 4 | 524.167.372B-14 |
| 16 | 2 | 63 | 148 | 4 | 524.167.372B-16 |
| 18 | 2 | 63 | 148 | 4 | 524.167.372B-18 |
| 20 | 2 | 75 | 160 | 4 | 524.167.372B-20 |
| 22 | 3 | 75 | 177 | 4 | 524.167.372B-22 |
| 25 | 3 | 90 | 192 | 5 | 524.167.372B-25 |
| 28 | 3 | 90 | 192 | 5 | 524.167.372B-28 |
| 30 | 3 | 90 | 192 | 5 | 524.167.372B-30 |
| 32 | 4 | 106 | 231 | 5 | 524.167.372B-32 |
| 36 | 4 | 106 | 231 | 5 | 524.167.372B-36 |
| 40 | 4 | 125 | 250 | 6 | 524.167.372B-40 |
| 45 | 4 | 125 | 250 | 6 | 524.167.372B-45 |
| 50 | 4 | 150 | 275 | 6 | 524.167.372B-50 |

Gamme livrable jusqu'à épuisement du stock
avec remise supplémentaire exceptionnelle de 25%

قابل تحویل تا اتمام موجودی انبار.
با تخفیف استثنایی ۲۵ درصدی

FRAISES

فرزها

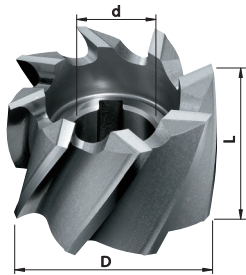
فرزهای غلطکی

Walzenstirnfräser

Shell End mills

Frese Frontali

| | | | | | | | | | | |
|---------|---------------------------------------|---|---|-------------|---|--|---|------|------------|-------------|
| 5 | 2 | 7 | 1 | 5 | 1 | 3 | 0 | B | 527.151.30 | 527.151.30B |
| HSS Co8 | فرزها Fräser End mills Frese | | | Z6 - 12 | | $\lambda 30^\circ$ $\gamma \sim 15^\circ$ | | TiCN | | |



SATIS
hss

Type N
DIN 1880

| D_{js16} | D_{H7} | L | Z | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN |
|------------|----------|----|----|-------------------------|-----------------------------|
| 40 | 16 | 32 | 6 | 527.151.30-40 | 527.151.30B-40 |
| 50 | 22 | 36 | 8 | 527.151.30-50 | 527.151.30B-50 |
| 63 | 27 | 40 | 8 | 527.151.30-63 | 527.151.30B-63 |
| 80 | 27 | 45 | 10 | 527.151.30-80 | 527.151.30B-80 |
| 100 | 32 | 50 | 12 | 527.151.30-100 | 527.151.30B-100 |

FRAISES

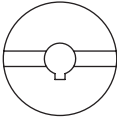


فرزها

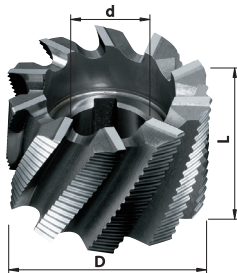
فرزهای غلطکی

Walzenstirnfräser

Shell End mills

Frese Frontali

| | | | | | | | | | | |
|---------|---------------------------------------|---|---|--|---|--|---|------|-------------|--------------|
| 5 | 2 | 7 | 1 | 5 | 1 | 3 | 72 | B | 527.151.372 | 527.151.372B |
| HSS Co8 | فرزها Fräser End mills Frese |  | | Z8 - 12  | | $\lambda 30^\circ$ $\gamma \sim 10^\circ$ |  | TiCN | | |



SATIS
hss

Type HR
DIN 1880

| D | d_{H7} | L | Z | Non revêtu بدون روکش | Revêtu TiCN با روکش TiCN |
|-----|----------|----|----|-------------------------|-----------------------------|
| 40 | 16 | 32 | 8 | 527.151.372-40 | 527.151.372B-40 |
| 50 | 22 | 36 | 8 | 527.151.372-50 | 527.151.372B-50 |
| 63 | 27 | 40 | 10 | 527.151.372-63 | 527.151.372B-63 |
| 80 | 27 | 45 | 10 | 527.151.372-80 | 527.151.372B-80 |
| 100 | 32 | 50 | 12 | 527.151.372-100 | 527.151.372B-100 |

MICRO forets

میکرو مته ها

میکرو مته ها
Mikro-Bohrer
Micro drills
Micro punte

5 4 0 0 2 1 1 0

540.021.10

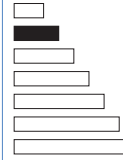
HSS Co5

میکرو مته ها
MIKRO Bohrer
MICRO drills
MICRO punte

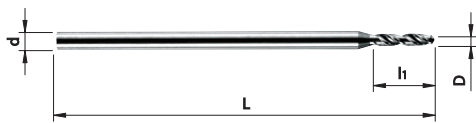


D
<
d

Z2
↓



λ 24°
118°



SATIS
hss



Type N
DIN 1899

| D_{h6} | d | l_1 | L | Non revêtu بدون روکش |
|-------------|-----|-------|----|-------------------------|
| 0.1 - 0.12 | 1 | 0.7 | 25 | 540.021.10-... |
| 0.13 - 0.15 | 1 | 1 | 25 | 540.021.10-... |
| 0.16 - 0.19 | 1 | 1.4 | 25 | 540.021.10-... |
| 0.2 - 0.24 | 1 | 1.8 | 25 | 540.021.10-... |
| 0.25 - 0.3 | 1 | 2.2 | 25 | 540.021.10-... |
| 0.31 - 0.39 | 1 | 2.8 | 25 | 540.021.10-... |
| 0.4 - 0.45 | 1 | 3.2 | 25 | 540.021.10-... |
| 0.46 - 0.5 | 1 | 3.6 | 25 | 540.021.10-... |
| 0.51 - 0.55 | 1.5 | 4 | 25 | 540.021.10-... |
| 0.56 - 0.6 | 1.5 | 4.5 | 25 | 540.021.10-... |
| 0.61 - 0.67 | 1.5 | 4.7 | 25 | 540.021.10-... |
| 0.68 - 0.75 | 1.5 | 5.2 | 25 | 540.021.10-... |
| 0.76 - 0.85 | 1.5 | 5.5 | 25 | 540.021.10-... |
| 0.86 - 0.95 | 1.5 | 6 | 25 | 540.021.10-... |
| 0.96 - 1.05 | 1.5 | 6.5 | 25 | 540.021.10-... |
| 1.06 - 1.15 | 1.5 | 7 | 25 | 540.021.10-... |
| 1.16 - 1.3 | 1.5 | 7.5 | 25 | 540.021.10-... |
| 1.31 - 1.49 | 1.5 | 8.5 | 25 | 540.021.10-... |
| 1.5 | 2 | 10 | 35 | 540.021.10-1.5 |

Conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%.
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت

FORETS

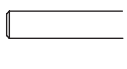
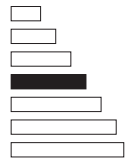
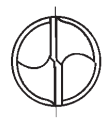
مته ها

مته ها

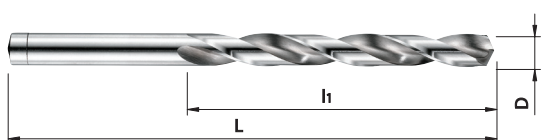
Bohrer

Drills

Punte

| | | | | | | | |
|---------|-------------------------------------|---|-------------|---------|---|-----------------------|---|
| 5 | 4 | 0 | 2 | 2 | 4 | 6 | 5 |
| HSS Co5 | مته ها Bohrer Drills Punte |  | D = d | Z2 ↓ |  | λ 24° 130° |  |

540.224.65



Type N
DIN 338

| D_{h8} | l_1 | L | Non revêtu بدون روکش | D_{h8} | l_1 | L | Non revêtu بدون روکش |
|----------|-------|----|-------------------------|----------|-------|----|-------------------------|
| 0.4 | 5 | 20 | 540.224.65-0.4 | 2.6 | 30 | 57 | 540.224.65-2.6 |
| 0.45 | 5 | 20 | 540.224.65-0.45 | 2.7 | 33 | 61 | 540.224.65-2.7 |
| 0.5 | 6 | 22 | 540.224.65-0.5 | 2.8 | 33 | 61 | 540.224.65-2.8 |
| 0.55 | 7 | 24 | 540.224.65-0.55 | 2.9 | 33 | 61 | 540.224.65-2.9 |
| 0.6 | 7 | 24 | 540.224.65-0.6 | 3 | 33 | 61 | 540.224.65-3 |
| 0.65 | 8 | 26 | 540.224.65-0.65 | 3.1 | 36 | 65 | 540.224.65-3.1 |
| 0.7 | 9 | 28 | 540.224.65-0.7 | 3.2 | 36 | 65 | 540.224.65-3.2 |
| 0.75 | 9 | 28 | 540.224.65-0.75 | 3.3 | 36 | 65 | 540.224.65-3.3 |
| 0.8 | 10 | 30 | 540.224.65-0.8 | 3.4 | 39 | 70 | 540.224.65-3.4 |
| 0.85 | 10 | 30 | 540.224.65-0.85 | 3.5 | 39 | 70 | 540.224.65-3.5 |
| 0.9 | 11 | 32 | 540.224.65-0.9 | 3.6 | 39 | 70 | 540.224.65-3.6 |
| 0.95 | 11 | 32 | 540.224.65-0.95 | 3.7 | 39 | 70 | 540.224.65-3.7 |
| 1 | 12 | 34 | 540.224.65-1 | 3.8 | 43 | 75 | 540.224.65-3.8 |
| 1.1 | 14 | 36 | 540.224.65-1.1 | 3.9 | 43 | 75 | 540.224.65-3.9 |
| 1.2 | 16 | 38 | 540.224.65-1.2 | 4 | 43 | 75 | 540.224.65-4 |
| 1.3 | 16 | 38 | 540.224.65-1.3 | 4.1 | 43 | 75 | 540.224.65-4.1 |
| 1.4 | 18 | 40 | 540.224.65-1.4 | 4.2 | 43 | 75 | 540.224.65-4.2 |
| 1.5 | 18 | 40 | 540.224.65-1.5 | 4.3 | 47 | 80 | 540.224.65-4.3 |
| 1.6 | 20 | 43 | 540.224.65-1.6 | 4.4 | 47 | 80 | 540.224.65-4.4 |
| 1.7 | 20 | 43 | 540.224.65-1.7 | 4.5 | 47 | 80 | 540.224.65-4.5 |
| 1.8 | 22 | 46 | 540.224.65-1.8 | 4.6 | 47 | 80 | 540.224.65-4.6 |
| 1.9 | 22 | 46 | 540.224.65-1.9 | 4.7 | 47 | 80 | 540.224.65-4.7 |
| 2 | 24 | 49 | 540.224.65-2 | 4.8 | 52 | 86 | 540.224.65-4.8 |
| 2.1 | 24 | 49 | 540.224.65-2.1 | 4.9 | 52 | 86 | 540.224.65-4.9 |
| 2.2 | 27 | 53 | 540.224.65-2.2 | 5 | 52 | 86 | 540.224.65-5 |
| 2.3 | 27 | 53 | 540.224.65-2.3 | 5.1 | 52 | 86 | 540.224.65-5.1 |
| 2.4 | 30 | 57 | 540.224.65-2.4 | 5.2 | 52 | 86 | 540.224.65-5.2 |
| 2.5 | 30 | 57 | 540.224.65-2.5 | 5.3 | 52 | 86 | 540.224.65-5.3 |

Pour foret jusqu'à Ø 4 conditionnement par 10 pièces.

- Commande par 1 ou 2 pièces, majoration du prix de 30%,
- Commande par 3 ou 4 pièces, majoration du prix de 15%.

برای مته های تا Ø 4 آماده برای فروش ۱۰ عددی

- سفارش ۱ تا ۲ عددی ۳۰٪ افزایش قیمت
- سفارش ۳ تا ۴ عددی ۱۵٪ افزایش قیمت



FORETS

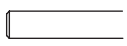
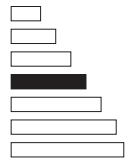

مته ها

مته ها

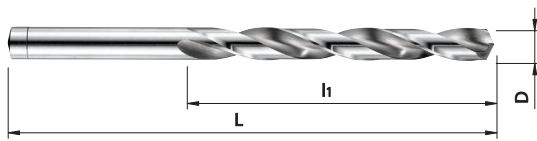
Bohrer

Drills

Punte

| | | | | | | | |
|---------|-------------------------------------|---|-------------|---------|---|-----------------------|---|
| 5 | 4 | 0 | 2 | 2 | 4 | 6 | 5 |
| HSS Co8 | مته ها Bohrer Drills Punte |  | D = d | Z2 ↓ |  | λ 24° 130° |  |

540.224.65



Type N
DIN 338

| D_{h8} | l_1 | L | Non revêtu بدون روکش | D_{h8} | l_1 | L | Non revêtu بدون روکش |
|----------|-------|-----|-------------------------|----------|-------|-----|-------------------------|
| 5.4 | 57 | 93 | 540.224.65-5.4 | 8.4 | 75 | 117 | 540.224.65-8.4 |
| 5.5 | 57 | 93 | 540.224.65-5.5 | 8.5 | 75 | 117 | 540.224.65-8.5 |
| 5.6 | 57 | 93 | 540.224.65-5.6 | 8.6 | 81 | 125 | 540.224.65-8.6 |
| 5.7 | 57 | 93 | 540.224.65-5.7 | 8.7 | 81 | 125 | 540.224.65-8.7 |
| 5.8 | 57 | 93 | 540.224.65-5.8 | 8.8 | 81 | 125 | 540.224.65-8.8 |
| 5.9 | 57 | 93 | 540.224.65-5.9 | 8.9 | 81 | 125 | 540.224.65-8.9 |
| 6 | 57 | 93 | 540.224.65-6 | 9 | 81 | 125 | 540.224.65-9 |
| 6.1 | 63 | 101 | 540.224.65-6.1 | 9.1 | 81 | 125 | 540.224.65-9.1 |
| 6.2 | 63 | 101 | 540.224.65-6.2 | 9.2 | 81 | 125 | 540.224.65-9.2 |
| 6.3 | 63 | 101 | 540.224.65-6.3 | 9.3 | 81 | 125 | 540.224.65-9.3 |
| 6.4 | 63 | 101 | 540.224.65-6.4 | 9.4 | 81 | 125 | 540.224.65-9.4 |
| 6.5 | 63 | 101 | 540.224.65-6.5 | 9.5 | 81 | 125 | 540.224.65-9.5 |
| 6.6 | 63 | 101 | 540.224.65-6.6 | 9.6 | 87 | 133 | 540.224.65-9.6 |
| 6.7 | 63 | 101 | 540.224.65-6.7 | 9.7 | 87 | 133 | 540.224.65-9.7 |
| 6.8 | 69 | 109 | 540.224.65-6.8 | 9.8 | 87 | 133 | 540.224.65-9.8 |
| 6.9 | 69 | 109 | 540.224.65-6.9 | 9.9 | 87 | 133 | 540.224.65-9.9 |
| 7 | 69 | 109 | 540.224.65-7 | 10 | 87 | 133 | 540.224.65-10 |
| 7.1 | 69 | 109 | 540.224.65-7.1 | 10.2 | 87 | 133 | 540.224.65-10.2 |
| 7.2 | 69 | 109 | 540.224.65-7.2 | 10.5 | 87 | 133 | 540.224.65-10.5 |
| 7.3 | 69 | 109 | 540.224.65-7.3 | 11 | 94 | 142 | 540.224.65-11 |
| 7.4 | 69 | 109 | 540.224.65-7.4 | 11.5 | 94 | 142 | 540.224.65-11.5 |
| 7.5 | 69 | 109 | 540.224.65-7.5 | 12 | 101 | 151 | 540.224.65-12 |
| 7.6 | 75 | 117 | 540.224.65-7.6 | 12.5 | 101 | 151 | 540.224.65-12.5 |
| 7.7 | 75 | 117 | 540.224.65-7.7 | 13 | 101 | 151 | 540.224.65-13 |
| 7.8 | 75 | 117 | 540.224.65-7.8 | 13.5 | 108 | 160 | 540.224.65-13.5 |
| 7.9 | 75 | 117 | 540.224.65-7.9 | 14 | 108 | 160 | 540.224.65-14 |
| 8 | 75 | 117 | 540.224.65-8 | 14.5 | 114 | 169 | 540.224.65-14.5 |
| 8.1 | 75 | 117 | 540.224.65-8.1 | 15 | 114 | 169 | 540.224.65-15 |
| 8.2 | 75 | 117 | 540.224.65-8.2 | 16 | 120 | 178 | 540.224.65-16 |
| 8.3 | 75 | 117 | 540.224.65-8.3 | | | | |



FORETS

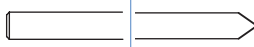

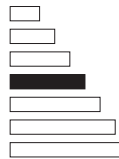
مته ها

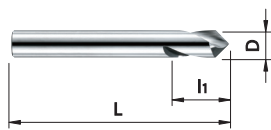
مته های مرغک

NC-Anbohrer

NC spot drills

Punte centratrici CN

| | | | | | | | | | |
|---------|-------------------------------------|---|---|---|---|-------------|--|--|---------|
| 5 | 4 | 0 | 7 | 6 | 5 | | | | |
| HSS Co5 | مته ها Bohrer Drills Punte |  |  | |  | 90° 120° | | | 540.765 |



Type NC
Norme SATIS

| Angle | D _{h6} | l ₁ | L | Non revêtu بدون روکش | Non revêtu بدون روکش |
|-------|-----------------|----------------|-----|-------------------------|-------------------------|
| 90° | 2 | 8 | 49 | 540.765-090-2 | |
| | 3 | 10 | 50 | 540.765-090-3 | |
| | 4 | 12 | 52 | 540.765-090-4 | |
| | 5 | 15 | 60 | 540.765-090-5 | |
| | 6 | 20 | 66 | 540.765-090-6 | |
| | 8 | 25 | 79 | 540.765-090-8 | |
| | 10 | 25 | 89 | 540.765-090-10 | |
| | 12 | 30 | 102 | 540.765-090-12 | |
| | 16 | 35 | 115 | 540.765-090-16 | |
| | 20 | 40 | 131 | 540.765-090-20 | |
| 120° | 2 | 8 | 49 | | 540.765-120-2 |
| | 3 | 10 | 50 | | 540.765-120-3 |
| | 4 | 12 | 52 | | 540.765-120-4 |
| | 5 | 15 | 60 | | 540.765-120-5 |
| | 6 | 20 | 66 | | 540.765-120-6 |
| | 8 | 25 | 79 | | 540.765-120-8 |
| | 10 | 25 | 89 | | 540.765-120-10 |
| | 12 | 30 | 102 | | 540.765-120-12 |

FORETS

مته ها

مته های مرغک

Zentrierbohrer

Center drills

Punte a centrare

5

4

0

8

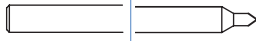
5

5

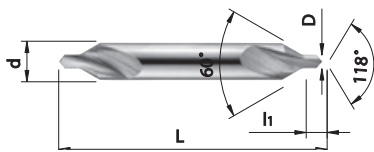
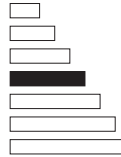
540.855

HSS Co5

مته ها
Bohrer
Drills
Punte



60°
Forme A



SATIS
hss



DIN 333A

| D_{h7} | d_{k12} | l_1 | L | Non revêtu بدون روکش |
|----------|-----------|-------|----|-------------------------|
| 0.5 | 3.15 | 0.6 | 25 | 540.855-0.5-3.15 |
| 0.8 | 3.15 | 1 | 25 | 540.855-0.8-3.15 |
| 1 | 3.15 | 1.3 | 31 | 540.855-1-015 |
| 1 | 4 | 1.3 | 35 | 540.855-1-4 |
| 1.25 | 3.15 | 1.6 | 31 | 540.855-1.25-4 |
| 1.5 | 5 | 2 | 40 | 540.855-1.5-5 |
| 1.6 | 4 | 2 | 35 | 540.855-1.6-4 |
| 2 | 5 | 2.5 | 40 | 540.855-2-5 |
| 2 | 6 | 2.5 | 45 | 540.855-2-6 |
| 2.5 | 8 | 3.1 | 50 | 540.855-2.5-8 |
| 3 | 8 | 3.9 | 50 | 540.855-3-8 |
| 3 | 10 | 3.9 | 55 | 540.855-3-10 |
| 3.15 | 8 | 3.9 | 50 | 540.855-3.15-8 |
| 4 | 10 | 5 | 55 | 540.855-4-10 |
| 5 | 12 | 6.3 | 63 | 540.855-5-12 |
| 6 | 18 | 8 | 77 | 540.855-6-18 |

FORETS

مته ها

مته های مرغک

Zentrierbohrer

Center drills

Punte a centrare

5

4

0

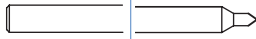
8

5

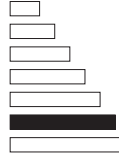
7

HSS Co5

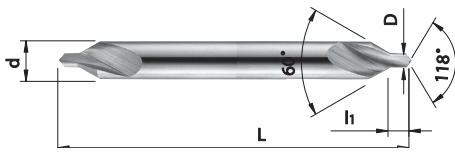
مته ها
Bohrer
Drills
Punte



60°
Forme A



540.857



SATIS
hss

Norme SATIS

| D_{h7} | d_{k12} | l_1 | L | Non revêtu بدون روکش |
|----------|-----------|-------|-----|-------------------------|
| 1 | 4 | 1.3 | 60 | 540.857-1-4-60 |
| 1 | 4 | 1.3 | 100 | 540.857-1-4-100 |
| 1.5 | 5 | 2 | 60 | 540.857-1.5-5-60 |
| 1.5 | 5 | 2 | 100 | 540.857-1.5-5-100 |
| 2 | 6 | 2.5 | 80 | 540.857-2-6-80 |
| 2 | 6 | 2.5 | 120 | 540.857-2-6-120 |
| 3 | 8 | 3.9 | 80 | 540.857-3-8-80 |
| 3 | 8 | 3.9 | 120 | 540.857-3-8-120 |

Gamme livrable jusqu'à épuisement du stock

قابل تحویل تا اتمام موجودی انبار.

MICRO alésoirs

برقوها

برقوهای ماشینی

Maschinen-Reibahlen

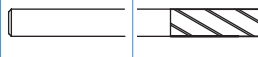
Machine reamers

Alesatori macchina

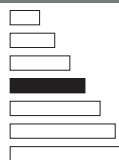
5 5 0 1 5 4 1 0

HSS Co5

برقوها
Reibahlen
Reamers
Alesatori



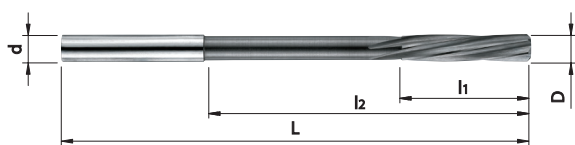
Z 4 - 8



$\lambda -15^\circ$

$\gamma \sim 5^\circ$

550.154.10



SATIS
hss

DIN 212B

| D_{H7} | d | l_1 | L | Z | Non revêtu بدون روکش |
|----------|----|-------|-----|---|-------------------------|
| 2 | 2 | 11 | 49 | 4 | 550.154.10-2-H7 |
| 3 | 3 | 15 | 61 | 4 | 550.154.10-3-H7 |
| 4 | 4 | 19 | 75 | 6 | 550.154.10-4-H7 |
| 5 | 5 | 23 | 86 | 6 | 550.154.10-5-H7 |
| 6 | 6 | 26 | 93 | 6 | 550.154.10-6-H7 |
| 8 | 8 | 33 | 117 | 6 | 550.154.10-8-H7 |
| 10 | 10 | 38 | 133 | 6 | 550.154.10-10-H7 |
| 12 | 12 | 44 | 151 | 6 | 550.154.10-12-H7 |
| 14 | 12 | 47 | 160 | 8 | 550.154.10-14-H7 |
| 16 | 12 | 52 | 170 | 8 | 550.154.10-16-H7 |
| 18 | 14 | 56 | 182 | 8 | 550.154.10-18-H7 |
| 20 | 16 | 60 | 195 | 8 | 550.154.10-20-H7 |

مشخصات فنی

INFO
Tech




SATIS
TOOL

فرمول ها FORMULES

| | | |
|----------------|---------------------|--------------|
| D (mm) | Diamètre outil | قطر |
| z | Nombre de dents | تعداد دندانه |
| ap (mm) | Profondeur de coupe | عمق برش |
| ae (mm) | Largeur de coupe | عرض برش |

Vitesse de coupe (m/min) سرعت برش

$$V_c = \frac{D \times \pi \times n}{1000}$$

Nombre de tours (min-1)

تعداد دورها

$$n = \frac{1000 \times V_c}{\pi \times D}$$

Avance par dent (mm)

جلو رفتن بر حسب دندانه

$$f_z = \frac{V_f}{n \times z}$$

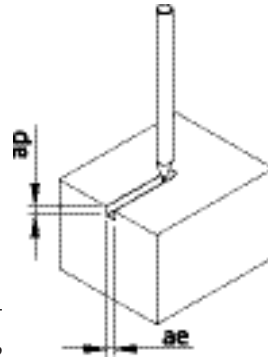
Vitesse d'avance (mm/min)

سرعت پیشروی

$$V_f = f_z \times z \times n$$

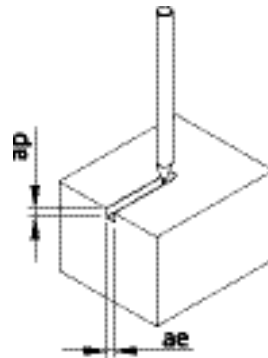
Débit d'enlèvement de copeaux (mm³/min) خروجی برداشتن تراشه (براده برداری)

$$Q = a_p \times a_e \times V_f$$



> **MICRO fraises MD Z1** pages 11 - 14
 < میکروفِرزهای Z1 نوع تنگستن صفحات ۱۱ - ۱۴

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | ap | ae |
|------------------------|------------|--|---------|------|-------|-------|-------|------|-------|----|----|
| | MD/HM | | Ø0.8 | Ø1 | Ø1.2 | Ø1.5 | Ø2 | Ø3 | Ø4 | | |
| Acier < 25HRC فولاد | 80 | | 0.008 | 0.01 | 0.012 | 0.015 | 0.018 | 0.02 | 0.025 | Ø | Ø |
| Laiton برنج | 140 | | 0.008 | 0.01 | 0.012 | 0.015 | 0.018 | 0.02 | 0.025 | Ø | Ø |
| Or طلا | 120 | | 0.008 | 0.01 | 0.012 | 0.015 | 0.018 | 0.02 | 0.025 | Ø | Ø |

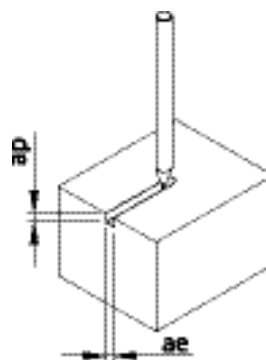


> **MICRO fraises MD Z2** pages 15 - 21
 < میکروفِرزهای MS Z2 صفحات ۱۵ - ۲۱

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | ap | ae |
|----------------------------|------------|------|---------|-------|-------|-------|-------|-------|-------|----|
| | MD/HM | PSNM | Ø0.2 | Ø0.5 | Ø1 | Ø1.5 | Ø2 | Ø3 | | |
| Acier < 25HRC فولاد | 70 | 100 | 0.001 | 0.002 | 0.004 | 0.005 | 0.006 | 0.008 | 0.4xØ | Ø |
| Acier < 40HRC فولاد | 50 | 80 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.3xØ | Ø |
| Inox اینوکس | | 75 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.2xØ | Ø |
| Aluminium آلومینیوم | 200 | | 0.002 | 0.005 | 0.006 | 0.015 | 0.02 | 0.03 | 0.4xØ | Ø |
| Cuivre/Bronze برنز / مس | 100 | | 0.002 | 0.004 | 0.006 | 0.015 | 0.02 | 0.03 | 0.4xØ | Ø |
| Laiton برنج | 130 | | 0.002 | 0.004 | 0.006 | 0.015 | 0.02 | 0.03 | 0.4xØ | Ø |
| Or طلا | 130 | | 0.002 | 0.004 | 0.006 | 0.015 | 0.02 | 0.03 | 0.4xØ | Ø |

Pour longueur de coupe > 5 x Ø : ap = 0.1 x Ø
 Vc = 60 % Vc tableau
 برای طول برش

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است



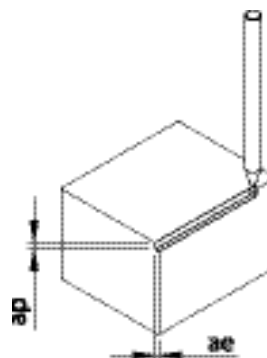
> MICRO fraises MD Z3 pages 22 - 26

صفحات ۲۲ - ۲۶ < میکروفِرزهای Z3 نوع تنگستن

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | ap | ae |
|----------------------------|------------|------|---------|--------|--------|--------|--------|--------|-------|----|
| | MD/HM | PSNM | Ø0.4 | Ø0.5 | Ø1 | Ø1.5 | Ø2 | Ø2.5 | | |
| Acier < 25HRC فولاد | 70 | 100 | 0.0014 | 0.0016 | 0.0032 | 0.004 | 0.0048 | 0.0054 | 0.5xØ | Ø |
| Acier < 40HRC فولاد | 50 | 80 | 0.0012 | 0.0014 | 0.0024 | 0.0032 | 0.004 | 0.0047 | 0.5xØ | Ø |
| Inox اینوکس | | 75 | 0.0012 | 0.0014 | 0.0024 | 0.0032 | 0.004 | 0.0048 | 0.3xØ | Ø |
| Aluminium آلومینیوم | 200 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |
| Cuivre/Bronze برنز / مس | 100 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |
| Laiton برنج | 130 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |
| Or طلا | 130 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |

Pour longueur de coupe > 5 x Ø :
 برای طول برش

ap = 0.1 x Ø
 Vc = 60% Vc tableau



> MICRO fraises MD Z3 / Z4 pages 22 - 27 / 62

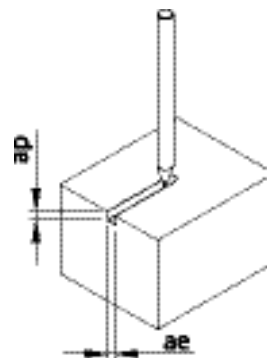
صفحات ۲۲ - ۶۲/۲۷ < میکروفِرزهای Z3/Z4 نوع تنگستن

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | ap | ae |
|----------------------------|------------|------|---------|--------|--------|--------|--------|--------|-------|----|
| | MD/HM | PSNM | Ø0.4 | Ø0.5 | Ø1 | Ø1.5 | Ø2 | Ø2.5 | | |
| Acier < 25HRC فولاد | 80 | 120 | 0.0014 | 0.0016 | 0.0032 | 0.004 | 0.0048 | 0.0054 | 0.5xØ | Ø |
| Acier < 40HRC فولاد | 60 | 90 | 0.0012 | 0.0014 | 0.0024 | 0.0032 | 0.004 | 0.0047 | 0.5xØ | Ø |
| Inox اینوکس | | 80 | 0.0012 | 0.0014 | 0.0024 | 0.0032 | 0.004 | 0.0048 | 0.3xØ | Ø |
| Aluminium آلومینیوم | 240 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |
| Cuivre/Bronze برنز / مس | 130 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |
| Laiton برنج | 160 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |
| Or طلا | 160 | | 0.003 | 0.004 | 0.005 | 0.012 | 0.016 | 0.02 | 0.5xØ | Ø |

Pour longueur de coupe > 5 x Ø :
 برای طول برش

ap = 0.1 x Ø
 Vc = 60% Vc tableau

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است



> MICRO fraises MD hémisphérique Z2 pages 28 - 32

صفحات ۲۸ - ۳۲ < میکرو فرزهای نوع تنگستن نیم کروی Z2

| MATIERE جنس | Vc (m/min) | | | fz (mm) | | | | | | ap | ae |
|----------------------------|------------|------|-------|---------|-------|-------|-------|-------|-------|-------|----|
| | MD/HM | PSNM | AlTiN | Ø0.2 | Ø0.5 | Ø1 | Ø1.5 | Ø2 | Ø2.5 | | |
| Acier <25HRC فولاد | 70 | 100 | 100 | 0.001 | 0.002 | 0.004 | 0.005 | 0.006 | 0.008 | 0.2xØ | Ø |
| Acier <40HRC فولاد | 50 | 80 | 80 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.1xØ | Ø |
| Inox اینوکس | | 75 | 75 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.1xØ | Ø |
| Aluminium آلومینیوم | 200 | | | 0.002 | 0.005 | 0.006 | 0.015 | 0.02 | 0.03 | 0.3xØ | Ø |
| Cuivre/Bronze مس / برنز | 100 | | | 0.002 | 0.006 | 0.006 | 0.015 | 0.02 | 0.03 | 0.2xØ | Ø |

Pour longueur de coupe > 5 x Ø :
 برای طول برش $ap = 0.1 \times \varnothing$
 $Vc = 60\% Vc \text{ tableau}$

> FRAISES à graver MD pages 33 - 35

صفحات ۳۳ - ۳۵ < فرزهای حکاکی نوع تنگستن

| MATIERE جنس | n (tr/min) | | | Vf (mm/min) |
|----------------------------|------------|-------|-------|-------------|
| | MD/HM | TiCN | DLC | |
| Acier < 25HRC فولاد | 30000 | | | 100 - 180 |
| Acier < 40HRC فولاد | | 25000 | | 120 - 150 |
| Inox اینوکس | | 25000 | | 120 - 150 |
| Aluminium آلومینیوم | 30000 | | | 100 - 250 |
| Cuivre/Bronze مس / برنز | | | 25000 | 50 - 130 |
| Laiton برنج | 30000 | | 30000 | 100 - 200 |
| Or طلا | 30000 | | 30000 | 100 - 200 |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است

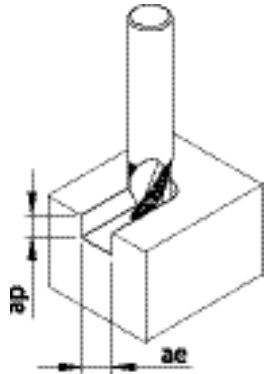


Fig. 1 (شکل ۱)

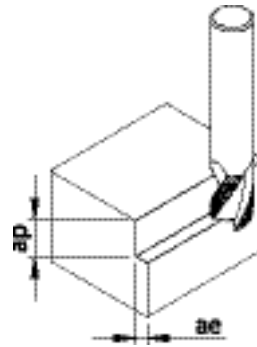


Fig. 2 (شکل ۲)

➤ **220.153.272S / 221.155.272S / 221.255.272S** pages 37 - 39 (Fig. 1)
صفحات ۳۷ - ۳۹ (شکل ۱)

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|----|----------------|-------|
| | MD/HM | AlTiN | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | Ø25 | ap | ae | ap | ae |
| Acier < 25HRC فولاد | | 140 | 0.015 | 0.02 | 0.025 | 0.03 | 0.04 | 0.045 | 0.06 | 0.08 | 0.09 | 0.75xØ | Ø | Ø | 0.4xØ |
| Acier < 40HRC فولاد | | 100 | 0.01 | 0.012 | 0.017 | 0.022 | 0.027 | 0.032 | 0.042 | 0.047 | 0.052 | 0.6xØ | Ø | Ø | 0.4xØ |
| Acier < 50HRC فولاد | | 80 | 0.01 | 0.012 | 0.015 | 0.019 | 0.023 | 0.027 | 0.035 | 0.039 | 0.043 | 0.4xØ | Ø | Ø | 0.3xØ |
| Fonte چدن | | 150 | 0.02 | 0.025 | 0.03 | 0.036 | 0.048 | 0.054 | 0.07 | 0.09 | 0.1 | Ø | Ø | Ø | 0.5xØ |

➤ **220.153.232S / 220.155.232S / 220.156.232S** pages 40 - 42
صفحات ۴۰ - ۴۲

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|----|----------------|--------|
| | MD/HM | AlTiN | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø14 | Ø16 | Ø20 | Ø25 | ap | ae | ap | ae |
| Acier < 25HRC فولاد | | 160 | 0.025 | 0.03 | 0.035 | 0.045 | 0.05 | 0.052 | 0.055 | 0.08 | 0.1 | 0.8xØ | Ø | Ø | 0.5xØ |
| Acier < 40HRC فولاد | | 120 | 0.02 | 0.025 | 0.03 | 0.04 | 0.045 | 0.048 | 0.052 | 0.065 | 0.07 | 0.8xØ | Ø | Ø | 0.3xØ |
| Acier < 50HRC فولاد | | 100 | 0.015 | 0.02 | 0.025 | 0.03 | 0.04 | 0.042 | 0.045 | 0.05 | 0.055 | 0.5xØ | Ø | Ø | 0.25xØ |
| Inox (304) اینوکس | | 100 | 0.025 | 0.031 | 0.034 | 0.045 | 0.05 | 0.05 | 0.052 | 0.055 | 0.062 | 0.8xØ | Ø | Ø | 0.3xØ |
| Inox (316L) اینوکس | | 80 | 0.015 | 0.02 | 0.03 | 0.04 | 0.045 | 0.048 | 0.05 | 0.052 | 0.06 | 0.5xØ | Ø | Ø | 0.25xØ |
| Fonte چدن | | 150 | 0.03 | 0.035 | 0.04 | 0.045 | 0.05 | 0.055 | 0.075 | 0.09 | 0.1 | 0.8xØ | Ø | Ø | 0.5xØ |
| Titane تیتان | | 50 | 0.015 | 0.02 | 0.025 | 0.035 | 0.04 | 0.042 | 0.048 | 0.05 | 0.055 | 0.5xØ | Ø | Ø | 0.3xØ |
| Inconel اینکونل | | 30 | 0.01 | 0.015 | 0.02 | 0.025 | 0.03 | 0.035 | 0.04 | 0.045 | 0.05 | 0.5xØ | Ø | Ø | 0.3xØ |

➤ **231.155.242S** page 43
صفحه ۴۳

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|-------|---------|-------|-------|-------|-------|-------|-------|----------------|----|----------------|--------|
| | MD/HM | AlTiN | Ø6 | Ø8 | Ø10 | Ø12 | Ø14 | Ø16 | Ø20 | ap | ae | ap | ae |
| Acier < 45HRC فولاد | | 150 | 0.02 | 0.025 | 0.03 | 0.04 | 0.05 | 0.065 | 0.07 | 0.5xØ | Ø | 1.5xØ | 0.4xØ |
| Acier < 55HRC فولاد | | 110 | 0.015 | 0.02 | 0.025 | 0.03 | 0.04 | 0.05 | 0.055 | 0.5xØ | Ø | 1.5xØ | 0.3xØ |
| Acier < 60HRC فولاد | | 90 | 0.01 | 0.015 | 0.02 | 0.025 | 0.03 | 0.04 | 0.045 | 0.3xØ | Ø | 1.5xØ | 0.25xØ |
| Titane تیتان | | 60 | 0.025 | 0.03 | 0.035 | 0.045 | 0.06 | 0.075 | 0.08 | 0.3xØ | Ø | 1.5xØ | 0.3xØ |
| Inconel اینکونل | | 30 | 0.015 | 0.02 | 0.025 | 0.03 | 0.035 | 0.04 | 0.045 | 0.25xØ | Ø | Ø | 0.2xØ |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است

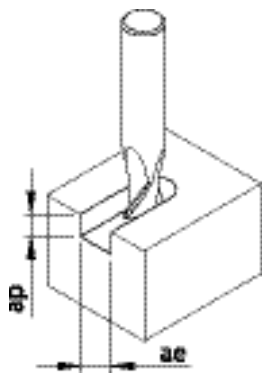


Fig. 1 (شکل ۱)

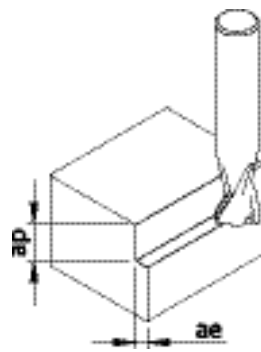


Fig. 2 (شکل ۲)

> **220.121.30** page 45
صفحه ۴۵

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|--------|---------|-------|-------|----------------|----|----------------|-------|
| | MD/HM | AlCrON | Ø2 | Ø4 | Ø6 | ap | ae | ap | ae |
| Acier < 25HRC فولاد | 80 | 120 | 0.009 | 0.022 | 0.032 | 0.5xØ | Ø | Ø | 0.1xØ |
| Acier < 40HRC فولاد | 60 | 90 | 0.007 | 0.018 | 0.03 | 0.25xØ | Ø | Ø | 0.1xØ |
| Acier < 50HRC فولاد | | 75 | 0.006 | 0.015 | 0.025 | 0.25xØ | Ø | Ø | 0.1xØ |
| Inox اینوکس | | 75 | 0.006 | 0.015 | 0.025 | 0.25xØ | Ø | Ø | 0.1xØ |
| Titane تیتان | 40 | 60 | 0.005 | 0.008 | 0.016 | 0.2xØ | Ø | Ø | 0.1xØ |
| Fonte چدن | 70 | 100 | 0.01 | 0.018 | 0.025 | 0.5xØ | Ø | Ø | 0.1xØ |
| Aluminium آلومینیوم | 250 | | 0.015 | 0.025 | 0.04 | 0.5xØ | Ø | Ø | 0.1xØ |

> **220.123.30X** page 46
صفحه ۴۶

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | Fig. 1 (شکل ۱) | |
|------------------------|------------|---------|---------|-------|-------|-------|--------|-------|--------|-------|----------------|----|
| | MD/HM | TiAlN X | Ø1 | Ø1.2 | Ø1.4 | Ø1.5 | Ø1.6 | Ø1.8 | Ø2 | Ø2.5 | ap | ae |
| Acier < 25HRC فولاد | | 90 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 | 0.01 | 0.1xØ | Ø |
| Acier < 40HRC فولاد | | 70 | 0.003 | 0.004 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 | 0.1xØ | Ø |
| Acier < 55HRC فولاد | | 50 | 0.001 | 0.002 | 0.002 | 0.003 | 0.0035 | 0.004 | 0.0045 | 0.005 | 0.1xØ | Ø |

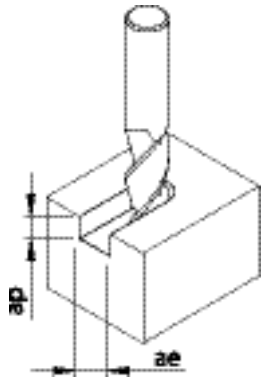


Fig. 1 (شکل ۱)

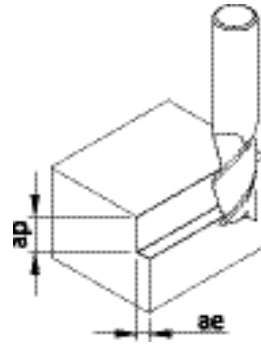


Fig. 2 (شکل ۲)

> **FRAISES MD Z3** pages 47 - 49 / 51 - 53 / 55 - 56
 صفحات ۴۷ - ۴۹ - ۵۱/۴۹ - ۵۳/۵۳ - ۵۵/۵۳ - ۵۶ < فرزهای Z3 نوع تنگستن

| MATIERE جنس | Vc (m/min) | | | fz (mm) | | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|-------|--------|---------|-------|-------|-------|-------|-------|------|-------|----------------|----|----------------|-------|
| | MD/HM | TiAlN | AlCrON | Ø1 | Ø2 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | ap | ae | ap | ae |
| Acier < 25HRC فولاد | 80 | 120 | 120 | 0.005 | 0.009 | 0.022 | 0.032 | 0.042 | 0.06 | 0.07 | 0.09 | 0.5xØ | Ø | Ø | 0.1xØ |
| Acier < 40HRC فولاد | 60 | 90 | 90 | 0.004 | 0.007 | 0.018 | 0.03 | 0.035 | 0.05 | 0.06 | 0.08 | 0.25xØ | Ø | Ø | 0.1xØ |
| Acier < 50HRC فولاد | | 75 | 75 | 0.0035 | 0.006 | 0.015 | 0.025 | 0.03 | 0.035 | 0.05 | 0.06 | 0.25xØ | Ø | Ø | 0.1xØ |
| Inox اینوکس | | 75 | 75 | 0.0035 | 0.006 | 0.015 | 0.025 | 0.03 | 0.035 | 0.04 | 0.055 | 0.25xØ | Ø | Ø | 0.1xØ |
| Titane تیتان | 40 | 60 | 60 | 0.003 | 0.005 | 0.008 | 0.016 | 0.02 | 0.03 | 0.04 | 0.05 | 0.2xØ | Ø | Ø | 0.1xØ |
| Fonte چدن | 70 | 100 | 100 | 0.006 | 0.01 | 0.018 | 0.025 | 0.034 | 0.045 | 0.05 | 0.07 | 0.5xØ | Ø | Ø | 0.1xØ |
| Aluminium آلومینیوم | 250 | | | 0.008 | 0.015 | 0.025 | 0.04 | 0.05 | 0.06 | 0.08 | 0.1 | 0.5xØ | Ø | Ø | 0.1xØ |

> **220.131.32S** page 50
 صفحه ۵۰

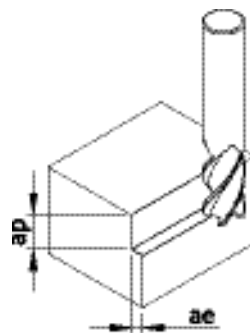
| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | Fig. 1 (شکل ۱) | |
|--------------------|------------|-------|---------|-------|-------|------|------|------|------|-------|----------------|----|
| | MD/HM | AlTiN | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | ap | ae |
| Inox (304) اینوکس | | 100 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.075 | 0.5xØ | Ø |
| Inox (316L) اینوکس | | 80 | 0.008 | 0.015 | 0.025 | 0.03 | 0.04 | 0.05 | 0.06 | 0.065 | 0.5xØ | Ø |

> **220.135.70** page 54
 صفحه ۵۴

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|--|---------|-------|------|------|-------|------|------|----------------|----|----------------|-------|
| | MD/HM | | Ø3 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | ap | ae | ap | ae |
| Aluminium آلومینیوم | 800 | | 0.03 | 0.05 | 0.07 | 0.09 | 0.1 | 0.14 | 0.18 | Ø | Ø | 1.5xØ | 0.5xØ |
| AlSi | 500 | | 0.025 | 0.045 | 0.06 | 0.08 | 0.095 | 0.13 | 0.16 | Ø | Ø | 1.5xØ | 0.5xØ |

Pour rainurage Fig.1: réduire fz de 20%

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است



> **220.145.30 / 220.146.30 / 220.147.30** pages 57 - 59
صفحات ۵۷ - ۵۹

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | ap | ae |
|------------------------|------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|----|-------|
| | MD/HM | AlCrON | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | | |
| Acier < 25HRC فولاد | 90 | 150 | 0.01 | 0.02 | 0.03 | 0.04 | 0.055 | 0.065 | 0.08 | 0.085 | Ø | 0.1xØ |
| Acier < 40HRC فولاد | 60 | 120 | 0.01 | 0.015 | 0.026 | 0.032 | 0.045 | 0.055 | 0.072 | 0.08 | Ø | 0.1xØ |
| Acier < 50HRC فولاد | | 90 | 0.007 | 0.013 | 0.02 | 0.025 | 0.035 | 0.045 | 0.055 | 0.06 | Ø | 0.1xØ |
| Inox اینوکس | | 80 | 0.005 | 0.008 | 0.018 | 0.02 | 0.03 | 0.035 | 0.045 | 0.05 | Ø | 0.1xØ |
| Titane تیتان | 40 | 60 | 0.003 | 0.006 | 0.01 | 0.015 | 0.025 | 0.03 | 0.035 | 0.04 | Ø | 0.1xØ |
| Fonte چدن | 80 | 120 | 0.012 | 0.017 | 0.03 | 0.035 | 0.042 | 0.05 | 0.06 | 0.075 | Ø | 0.1xØ |

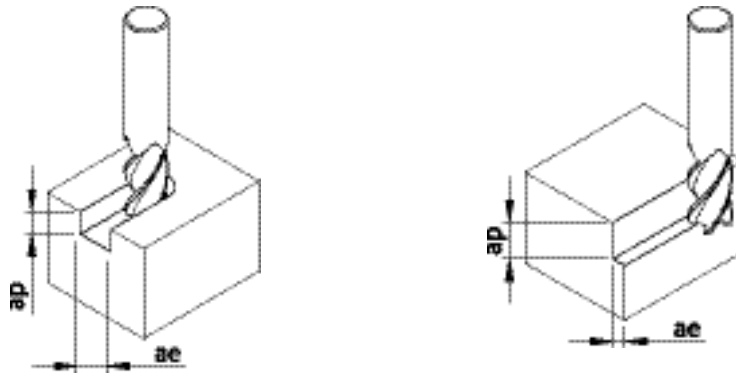
> **220.155.60X** page 60
صفحه ۶۰

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | ap | ae |
|------------------------|------------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | MD/HM | TiAlN X | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | Ø25 | | |
| Acier < 25HRC فولاد | | 150 | 0.02 | 0.025 | 0.035 | 0.045 | 0.055 | 0.065 | 0.075 | 0.085 | 1.5xØ | 0.05xØ |
| Acier < 40HRC فولاد | | 120 | 0.015 | 0.02 | 0.028 | 0.035 | 0.048 | 0.055 | 0.068 | 0.075 | 1.5xØ | 0.05xØ |
| Acier < 50HRC فولاد | | 80 | 0.013 | 0.018 | 0.023 | 0.03 | 0.035 | 0.045 | 0.055 | 0.06 | 1.5xØ | 0.05xØ |
| Fonte چدن | | 120 | 0.015 | 0.02 | 0.028 | 0.035 | 0.048 | 0.055 | 0.068 | 0.075 | 1.5xØ | 0.05xØ |

> **230.156.70X** page 61
صفحه ۶۱

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | ap | ae |
|-------------------------|------------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-----|--------|
| | MD/HM | TiAlN X | Ø3 | Ø5 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | | |
| Acier 35-45HRC فولاد | | 150 | 0.015 | 0.03 | 0.035 | 0.048 | 0.058 | 0.068 | 0.082 | 0.1 | 2xØ | 0.1xØ |
| Acier 45-55HRC فولاد | | 120 | 0.012 | 0.02 | 0.025 | 0.035 | 0.044 | 0.05 | 0.06 | 0.075 | 2xØ | 0.1xØ |
| Acier 55-60HRC فولاد | | 90 | 0.01 | 0.018 | 0.02 | 0.03 | 0.035 | 0.04 | 0.05 | 0.065 | 2xØ | 0.1xØ |
| Acier > 60HRC فولاد | | 60 | 0.006 | 0.01 | 0.014 | 0.02 | 0.022 | 0.026 | 0.032 | 0.042 | 2xØ | 0.05xØ |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است



➤ 220.142.600 / 220.145.600 / 220.145.610 / 220.145.620

pages 62 - 65
صفحات ۶۲ - ۶۵

| MATIERE جنس | Vc (m/min) | | | fz (mm) | | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|--------------------|------------|-------|------|---------|-------|-------|-------|-------|-------|-------|-------|----------------|----|----------------|-------|
| | MD/HM | AITiN | PSNM | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | ap | ae | ap | ae |
| Inox (304) اینوکس | | 100 | 100 | 0.02 | 0.025 | 0.04 | 0.05 | 0.06 | 0.065 | 0.07 | 0.075 | 0.8xØ | Ø | Ø | 0.5xØ |
| Inox (316L) اینوکس | | 80 | 80 | 0.01 | 0.015 | 0.03 | 0.04 | 0.045 | 0.05 | 0.055 | 0.06 | 0.8xØ | Ø | Ø | 0.5xØ |
| Acier فولاد | | 150 | 150 | 0.02 | 0.025 | 0.04 | 0.06 | 0.06 | 0.07 | 0.075 | 0.09 | 0.8xØ | Ø | Ø | 0.5xØ |
| Inconel اینکونل | | 30 | 30 | 0.011 | 0.011 | 0.017 | 0.027 | 0.027 | 0.038 | 0.049 | 0.055 | 0.3xØ | Ø | Ø | 0.2xØ |
| Titane تیتان | | 60 | 60 | 0.012 | 0.012 | 0.02 | 0.03 | 0.032 | 0.04 | 0.045 | 0.06 | 0.8xØ | Ø | Ø | 0.5xØ |
| Fonte چدن | | 140 | 140 | 0.02 | 0.025 | 0.04 | 0.05 | 0.06 | 0.07 | 0.075 | 0.09 | 0.8xØ | Ø | Ø | 0.5xØ |

Pour Ø 1 à Ø 2.5 voir page 139

➤ 220.155.600S / 220.156.600S pages 66 - 67
صفحات ۶۶ - ۶۷

| MATIERE جنس | Vc (m/min) | | | fz (mm) | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|----------------------|------------|--------|------|---------|------|------|-------|-------|----------------|----|----------------|-------|
| | MD/HM | AITiN | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 | ap | ae | ap | ae |
| Inox (304) اینوکس | | 90-110 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.8xØ | Ø | 1.5XØ | 0.5xØ |
| Inox (316L) اینوکس | | 60-80 | 0.03 | 0.04 | 0.05 | 0.06 | 0.065 | 0.075 | 0.8xØ | Ø | 1.5XØ | 0.5xØ |
| Acier <35HRC فولاد | | 160 | 0.04 | 0.06 | 0.06 | 0.07 | 0.075 | 0.09 | 0.8xØ | Ø | 1.5XØ | 0.5xØ |
| Acier 35-50HRC فولاد | | 150 | 0.04 | 0.06 | 0.06 | 0.07 | 0.075 | 0.09 | 0.8xØ | Ø | 1.5XØ | 0.5xØ |
| Inconel اینکونل | | 30 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.5xØ | Ø | 1.5XØ | 0.4xØ |
| Titane تیتان | | 60 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.08 | 0.8xØ | Ø | 1.5XØ | 0.5xØ |
| Fonte چدن | | 140 | 0.05 | 0.06 | 0.08 | 0.08 | 0.1 | 0.12 | 0.8xØ | Ø | 1.5XØ | 0.5xØ |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است

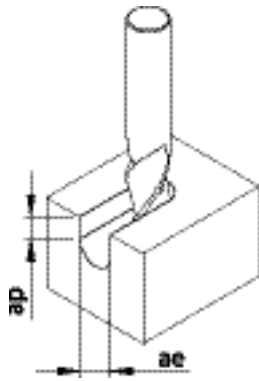


Fig. 1 (شکل ۱)

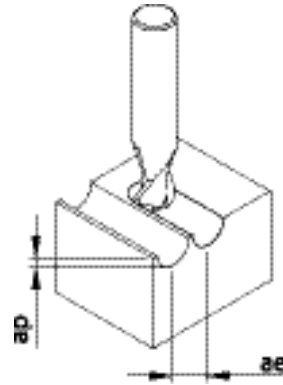


Fig. 2 (شکل ۲)

> **220.221.30** page 68
صفحه ۶۸

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | Fig. 1 (شکل ۱) | |
|--------------------------------|------------|--|---------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|
| | MD/HM | | Ø2 | Ø3 | Ø4 | Ø5 | Ø6 | Ø8 | Ø10 | Ø12 | ap | ae |
| Aluminium الومینیوم AISI | 300 | | 0.016 | 0.02 | 0.028 | 0.036 | 0.044 | 0.055 | 0.085 | 0.114 | 0.3xØ | 0.7xØ |
| | 180 | | 0.013 | 0.016 | 0.02 | 0.026 | 0.032 | 0.041 | 0.062 | 0.084 | 0.3xØ | 0.7xØ |

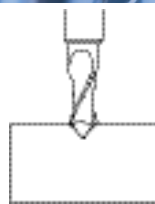
> **220.223.30X** page 69
صفحه ۶۹

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | Fig. 2 (شکل ۲) | |
|------------------------|------------|---------|---------|-------|-------|-------|-------|-------|-------|----------------|--|
| | MD/HM | TiAlN X | Ø1 | Ø1.5 | Ø2 | Ø3 | Ø4 | Ø6 | ap | ae | |
| Acier < 25HRC فولاد | | 120 | 0.015 | 0.02 | 0.025 | 0.03 | 0.035 | 0.04 | 0.2xØ | 0.05xØ | |
| Acier < 40HRC فولاد | | 80 | 0.01 | 0.015 | 0.02 | 0.025 | 0.03 | 0.035 | 0.2xØ | 0.05xØ | |
| Acier < 55HRC فولاد | | 50 | 0.005 | 0.008 | 0.01 | 0.012 | 0.015 | 0.02 | 0.2xØ | 0.05xØ | |

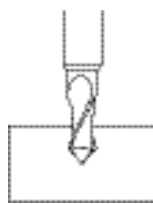
221.234.30 page 70
صفحه ۷۰

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | | Fig. 1 (شکل ۱) | | Fig. 2 (شکل ۲) | |
|------------------------|------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|----|----------------|-------|
| | MD/HM | AlCrON | Ø3 | Ø5 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø18 | Ø20 | ap | ae | ap | ae |
| Acier < 25HRC فولاد | 80 | 130 | 0.026 | 0.038 | 0.042 | 0.048 | 0.05 | 0.062 | 0.065 | 0.067 | 0.07 | 0.5xØ | Ø | Ø | 0.5xØ |
| Acier < 40HRC فولاد | 60 | 100 | 0.025 | 0.035 | 0.038 | 0.045 | 0.054 | 0.06 | 0.063 | 0.065 | 0.068 | 0.5xØ | Ø | Ø | 0.4xØ |
| Acier < 50HRC فولاد | | 80 | 0.023 | 0.032 | 0.036 | 0.041 | 0.045 | 0.05 | 0.054 | 0.056 | 0.059 | 0.4xØ | Ø | Ø | 0.4xØ |
| Inox اینوکس | | 80 | 0.01 | 0.018 | 0.02 | 0.025 | 0.027 | 0.035 | 0.04 | 0.045 | 0.052 | 0.2xØ | Ø | Ø | 0.4xØ |
| Titane تیتان | 40 | 60 | 0.01 | 0.015 | 0.016 | 0.02 | 0.025 | 0.034 | 0.04 | 0.045 | 0.05 | 0.3xØ | Ø | Ø | 0.3xØ |
| Fonte چدن | 80 | 120 | 0.024 | 0.036 | 0.042 | 0.05 | 0.054 | 0.062 | 0.065 | 0.07 | 0.075 | 0.4xØ | Ø | Ø | 0.5xØ |

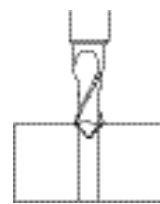
Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است



Pointage
90° - 120°
علامت گذاری



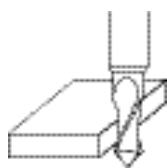
Perçage
90° - 120°
سوراخ کردن



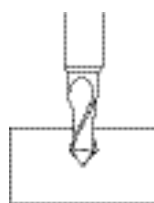
Chanfrein
60° - 90° - 120°
برقو زدن

> **220.525** pages 73 - 74
صفحات ۷۳ - ۷۴

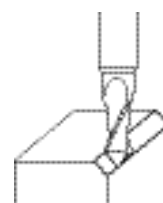
| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | |
|----------------------------|------------|--------|---------|-------|------|------|------|------|------|------|
| | MD/HM | AlCrON | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 |
| Acier < 25HRC فولاد | 40 | 60 | 0.04 | 0.05 | 0.08 | 0.1 | 0.15 | 0.2 | 0.22 | 0.25 |
| Acier < 35HRC فولاد | | | 0.03 | 0.045 | 0.07 | 0.09 | 0.12 | 0.18 | 0.2 | 0.22 |
| Inox اینوکس | | 30 | 0.03 | 0.045 | 0.07 | 0.09 | 0.12 | 0.18 | 0.02 | 0.22 |
| Fonte چدن | | 40 | 0.04 | 0.05 | 0.08 | 0.1 | 0.15 | 0.2 | 0.22 | 0.25 |
| Titane تیتان | | 30 | 0.015 | 0.04 | 0.06 | 0.08 | 0.11 | 0.16 | 0.18 | 0.2 |
| Aluminium آلومینیوم | 150 | | 0.04 | 0.05 | 0.09 | 0.12 | 0.15 | 0.2 | 0.25 | 0.3 |
| Cuivre/Bronze مس / برنز | 100 | | 0.04 | 0.05 | 0.09 | 0.12 | 0.15 | 0.2 | 0.25 | 0.3 |



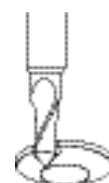
Contournage
60° - 90° - 120°
حاشیه کاری



Gravage
60° - 90° - 120°
کنده کاری



Chanfrein
60° - 90° - 120°
صاف کردن لبه



Usinage par interpolation
60° - 90° - 120°
استفاده برای
برقو زدن

> **220.525** pages 73 - 74
صفحات ۳۳ - ۳۵

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | |
|----------------------------|------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|
| | MD/HM | AlCrON | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø20 |
| Acier < 25HRC فولاد | 40 | 60 | 0.006 | 0.008 | 0.013 | 0.02 | 0.025 | 0.035 | 0.05 | 0.06 |
| Acier < 35HRC فولاد | | | 0.006 | 0.008 | 0.013 | 0.02 | 0.025 | 0.035 | 0.05 | 0.06 |
| Inox اینوکس | | 30 | 0.005 | 0.007 | 0.01 | 0.015 | 0.02 | 0.025 | 0.035 | 0.04 |
| Fonte چدن | | 40 | 0.006 | 0.008 | 0.013 | 0.02 | 0.025 | 0.035 | 0.05 | 0.06 |
| Titane تیتان | | 30 | 0.005 | 0.007 | 0.01 | 0.015 | 0.02 | 0.025 | 0.035 | 0.04 |
| Aluminium آلومینیوم | 150 | | 0.01 | 0.01 | 0.015 | 0.022 | 0.03 | 0.04 | 0.055 | 0.065 |
| Cuivre/Bronze مس / برنز | 100 | | 0.01 | 0.01 | 0.015 | 0.022 | 0.03 | 0.04 | 0.055 | 0.065 |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است



➤ **FRAISES scies** pages 85 - 94
 < فرزهای ارّه ای (دیسکی) صفحات ۸۵ - ۹۴

| MATIERE جنس | Vc (m/min) | | | | fz (mm) | | | | | | | | |
|------------------------|------------|---------|--------|------|---------|--------|--------|-------|-------|-------|-------|-------|-------|
| | MD/HM | TiAlN N | AlCrON | PSNM | Ø15 | Ø20 | Ø30 | Ø50 | Ø63 | Ø80 | Ø100 | Ø125 | Ø160 |
| Acier < 25HRC فولاد | 80 | 140 | 140 | 140 | 0.002 | 0.025 | 0.0035 | 0.005 | 0.007 | 0.008 | 0.01 | 0.012 | 0.014 |
| Acier < 40HRC فولاد | 60 | 100 | 100 | 100 | 0.001 | 0.002 | 0.003 | 0.004 | 0.006 | 0.007 | 0.009 | 0.01 | 0.012 |
| Inox اینوکس | | 120 | 120 | 120 | 0.001 | 0.002 | 0.003 | 0.004 | 0.006 | 0.007 | 0.009 | 0.01 | 0.012 |
| Fonte چدن | 60 | 100 | 100 | 100 | 0.002 | 0.0025 | 0.0035 | 0.005 | 0.007 | 0.008 | 0.01 | 0.012 | 0.014 |
| Aluminium آلومینیوم | 250 | | | | 0.002 | 0.003 | 0.004 | 0.006 | 0.008 | 0.009 | 0.011 | 0.013 | 0.015 |
| Or طلا | 180 | | | | 0.002 | 0.0025 | 0.0035 | 0.005 | 0.007 | 0.008 | 0.01 | 0.012 | 0.014 |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است

> **240.020.12 / 240.023.32 / 240.025.32 / 240.027.32**
140.025.52 / 240.755 / 240.757

pages 95 - 102 / 104 - 106
 صفحات ۹۵ - ۱۰۴/۱۰۲ - ۱۰۶

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | | | |
|------------------------|------------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | MD/HM | AlCrON | Ø0.2 | Ø0.4 | Ø0.6 | Ø0.8 | Ø1 | Ø1.2 | Ø1.5 | Ø1.8 | Ø2 | Ø2.5 | Ø3 |
| Acier < 30HRC فولاد | 50 | 70 | 0.002 | 0.004 | 0.006 | 0.007 | 0.01 | 0.012 | 0.015 | 0.016 | 0.018 | 0.02 | 0.025 |
| Inox (304) اینوکس | | 60 | | 0.003 | 0.004 | 0.006 | 0.009 | 0.01 | 0.012 | 0.014 | 0.016 | 0.018 | 0.02 |
| Inox (316L) اینوکس | | 50 | | 0.002 | 0.003 | 0.004 | 0.006 | 0.006 | 0.08 | 0.01 | 0.012 | 0.014 | 0.016 |
| Titane تیتان | | 30 | | 0.002 | 0.003 | 0.004 | 0.006 | 0.006 | 0.08 | 0.01 | 0.012 | 0.014 | 0.016 |
| Laiton برنج | 90 | | 0.002 | 0.004 | 0.006 | 0.007 | 0.01 | 0.012 | 0.015 | 0.016 | 0.018 | 0.02 | 0.025 |
| Or طلا | 80 | | 0.002 | 0.004 | 0.006 | 0.007 | 0.01 | 0.012 | 0.015 | 0.016 | 0.018 | 0.02 | 0.025 |

> **140.025.66N** page 103
 صفحه ۱۰۳

| MATIERE جنس | Vc | | fz(mm) | | | | | | | |
|---|-------|---------|--------|-------|------|-------|------|-------|------|------|
| | MD/HM | TiAlN T | Ø0.8 | Ø1 | Ø1.2 | Ø1.5 | Ø1.8 | Ø2 | Ø2.5 | Ø3 |
| Acier faiblement alliés < 30HRC فولاد ضعیف | | 80 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.1 | 0.12 | 0.14 |
| Aciers alliés 30HRC - 45HRC فولاد | | 60 | 0.01 | 0.015 | 0.02 | 0.025 | 0.03 | 0.035 | 0.04 | 0.05 |
| Acier Inox فولاد اینوکس | | 50 | 0.01 | 0.015 | 0.02 | 0.025 | 0.03 | 0.035 | 0.04 | 0.05 |
| Fonte چدن | | 130 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 | 0.1 | 0.12 | 0.14 |

> **140.321.77N** pages 109 - 110
صفحات ۱۰۹ - ۱۱۰

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | |
|------------------------|------------|---------|---------|------|------|------|------|------|------|------|------|
| | MD/HM | TiAlN N | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø18 | Ø20 |
| Acier < 25HRC فولاد | | 80 | 0.04 | 0.05 | 0.08 | 0.1 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 |
| Acier < 40HRC فولاد | | 60 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 |
| Acier < 50HRC فولاد | | 35 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 |
| Inox اینوکس | | 50 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.08 |

> **142.321.77N / 142.324.77N** pages 111 - 114
صفحات ۱۱۱ - ۱۱۴

| MATIERE جنس | Vc (m/min) | | fz (mm) | | | | | | | | |
|------------------------|------------|---------|---------|------|------|------|------|------|------|------|------|
| | MD/HM | TiAlN N | Ø3 | Ø4 | Ø6 | Ø8 | Ø10 | Ø12 | Ø16 | Ø18 | Ø20 |
| Acier < 40HRC فولاد | | 70 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 |
| Acier < 50HRC فولاد | | 40 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 |
| Acier < 55HRC فولاد | | 30 | 0.01 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 |
| Inox (304) اینوکس | | 60 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 |
| Inox (316L) اینوکس | | 50 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 |
| تیتان Titane | | 40 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 |
| اینکونل Inconel | | 15 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 |

Paramètres donnés à titre indicatif راهنمایی های ارائه شده فقط جهت اطلاع است

> CONVERSIONS de la dureté < تبدیل مدت زمان

| Dureté Vickers HV | Dureté Brinell HB | Dureté Rockwell HRC | Résistance à la traction R (N/mm ²) |
|-------------------|-------------------|---------------------|---|
| 80 | 76 | | 255 |
| 85 | 80.7 | | 270 |
| 90 | 85.5 | | 285 |
| 95 | 90.2 | | 305 |
| 100 | 95 | | 320 |
| 105 | 99.8 | | 335 |
| 110 | 105 | | 350 |
| 115 | 109 | | 370 |
| 120 | 114 | | 385 |
| 125 | 119 | | 400 |
| 130 | 124 | | 415 |
| 135 | 128 | | 430 |
| 140 | 133 | | 450 |
| 145 | 138 | | 465 |
| 150 | 143 | | 480 |
| 155 | 147 | | 495 |
| 160 | 152 | | 510 |
| 165 | 156 | | 530 |
| 170 | 162 | | 545 |
| 175 | 166 | | 560 |
| 180 | 171 | | 575 |
| 185 | 176 | | 595 |
| 190 | 181 | | 610 |
| 195 | 185 | | 625 |
| 200 | 190 | | 640 |
| 205 | 195 | | 660 |
| 210 | 199 | | 675 |
| 215 | 204 | | 690 |
| 220 | 209 | | 705 |
| 225 | 214 | | 720 |
| 230 | 219 | | 740 |
| 235 | 223 | | 755 |
| 240 | 228 | 20.3 | 770 |
| 245 | 233 | 21.3 | 785 |
| 250 | 238 | 22.2 | 800 |
| 255 | 242 | 23.1 | 820 |
| 260 | 247 | 24 | 835 |
| 265 | 252 | 24.8 | 850 |
| 270 | 257 | 25.6 | 865 |
| 275 | 261 | 26.4 | 880 |
| 280 | 266 | 27.1 | 900 |
| 285 | 271 | 27.8 | 915 |
| 290 | 276 | 28.5 | 930 |
| 295 | 280 | 29.2 | 950 |
| 300 | 285 | 29.8 | 965 |
| 310 | 295 | 31 | 995 |
| 320 | 304 | 32.2 | 1030 |
| 330 | 314 | 33.3 | 1060 |
| 340 | 323 | 34.4 | 1095 |
| 350 | 333 | 35.5 | 1125 |

| Dureté Vickers HV | Dureté Brinell HB | Dureté Rockwell HRC | Résistance à la traction R (N/mm ²) |
|-------------------|-------------------|---------------------|---|
| 360 | 342 | 36.6 | 1155 |
| 370 | 352 | 37.7 | 1190 |
| 380 | 361 | 38.8 | 1220 |
| 390 | 371 | 39.8 | 1255 |
| 400 | 380 | 40.8 | 1290 |
| 410 | 390 | 41.8 | 1320 |
| 420 | 399 | 42.7 | 1350 |
| 430 | 409 | 43.6 | 1385 |
| 440 | 418 | 44.5 | 1420 |
| 450 | 428 | 45.3 | 1455 |
| 460 | 437 | 46.1 | 1485 |
| 470 | 447 | 46.9 | 1520 |
| 480 | 456 | 47.7 | 1555 |
| 490 | 466 | 48.4 | 1595 |
| 500 | 475 | 49.1 | 1630 |
| 510 | 485 | 49.8 | 1665 |
| 520 | 494 | 50.5 | 1700 |
| 530 | 504 | 51.1 | 1740 |
| 540 | 513 | 51.7 | 1775 |
| 550 | 523 | 52.3 | 1810 |
| 560 | 532 | 53 | 1845 |
| 570 | 542 | 53.6 | 1880 |
| 580 | 551 | 54.1 | 1920 |
| 590 | 561 | 54.7 | 1955 |
| 600 | 570 | 55.2 | 1995 |
| 610 | 580 | 55.7 | 2030 |
| 620 | 589 | 56.3 | 2070 |
| 630 | 599 | 56.8 | 2105 |
| 640 | 608 | 57.3 | 2145 |
| 650 | 618 | 57.8 | 2180 |
| 660 | | 58.3 | |
| 670 | | 58.8 | |
| 680 | | 59.2 | |
| 690 | | 59.7 | |
| 700 | | 60.1 | |
| 720 | | 61 | |
| 740 | | 61.8 | |
| 760 | | 62.5 | |
| 780 | | 63.3 | |
| 800 | | 64 | |
| 820 | | 64.7 | |
| 840 | | 65.3 | |
| 860 | | 65.9 | |
| 880 | | 66.4 | |
| 900 | | 67 | |
| 920 | | 67.5 | |
| 940 | | 68 | |



- > Livraisons** **تحويل** <
- Départ de notre entreprise aux risques et périls du destinataire. Les soldes de livraison sont expédiés franco.
- با حرکت از شرکت ما، هرگونه مسئولیت بر عهده مقصد می باشد. هزینه تحويل با فرانک ارسال شود.
- > Prix** **قیمت** <
- Les prix indiqués sont unitaires en CHF hors TVA, frais d'emballage et de port en sus. En cas de nécessité, nous nous réservons le droit de modifier ces prix en raison de variations importantes de coûts de matière première et de production.
- قیمت های تمام شده تماماً بصورت فرانک سوئیس و بدون مالیات بر ارزش افزوده، هزینه بسته بندی، ارسال باکشتی و ... می باشد. در صورت لزوم، ما حق تغییر این قیمت ها را به دلیل تغییرات مهم هزینه های مواد اولیه و تولید، داریم.
- > Outils spéciaux** **ابزار ویژه** <
- Les outils spéciaux sont facturés aux conditions de nos offres ou à défaut au temps passé. Nous nous gardons la possibilité de livrer jusqu'à 10% en plus ou moins des quantités commandées.
- ابزار ویژه بر اساس شرایط تقاضا یا کمبود زمان فاکتور می شوند. امکان نگهداشتن ۱۰٪ بیشتر یا کمتر از مقدار سفارشات وجود دارد.
- > Contrôle** **کنترل** <
- Nous garantissons la qualité de nos productions. Les réclamations doivent être effectuées dans les 10 jours à dater de la réception de la marchandise. Les outils constatés défectueux seront remplacés gratuitement dans le cas d'une utilisation normale et sous réserve qu'aucune modification n'ait été effectuée. Les certificats de contrôle particuliers sont édités sur demande et facturés.
- ما کیفیت محصولات شمارا تضمین می کنیم. شکایات بایستی طی ۱۰ روز بعد از تحويل کالا انجام شود. ابزارها بطور رایگان جایگزین می شوند در صورتی که استفاده از آن ها بصورت عادی و بدون هیچ تغییری انجام گرفته باشد. گواهی های کنترل طبق درخواست فاکتور می شوند.
- > Délai de livraison** **مدت زمان تحويل** <
- Les délais de livraison peuvent être planifiés sur demande.
- تحويل کالا طبق درخواست قابل برنامه ریزی است.
- > Paiement** **پرداخت** <
- Nos factures sont payables à 30 jours net et sans escompte, sauf autres conditions écrites de notre part. Nous conservons la propriété des marchandises vendues jusqu'au paiement effectif de l'intégralité du prix.
- فاکتورهای ما تا ۳۰ روز بایستی پرداخت شوند مگر اینکه هنگام حرکت کالا شرایطی نوشته شده باشد.
- > Evolution technique** **تغییرات فنی** <
- Afin de faire bénéficier à notre clientèle de nos développements, les caractéristiques et les dimensions des outils présentés dans ce catalogue peuvent être modifiés à tout moment.
- به دلیل استفاده بهتر مشتریان، تغییرات و خصوصیات ابزارهای معرفی شده در این کاتالوگ ممکن است تغییر یابد.
- > Juridiction** **قضایی** <
- En cas de contestation, le lieu de juridiction est Genève.
- در صورت بروز موارد قضایی، محل انجام این امور شهر ژنو خواهد بود.




ساتیس تول تولید کننده ابزار برش دقیق

شرکت ساتیس تول با ۲۵ سال تجربه با بکارگیری تکنولوژی و علم روز دنیا اقدام به تولید انواع مته ، انواع مته های CNC با کیفیت بالا و مطابق با استانداردهای بین المللی است. ساتیس تول بایزیره گیری از نیروهای متخصص و آموزش دیده با استفاده از دانش فنی بالا و سال ها تجربه در زمینه تولید ابزارآلات علاوه بر تامین کلیه مته های تجاری و شناخته شده به تولید نمونه های خاص با طرح و نقشه مورد نظر مشتریان نیز می پردازد.


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