# Nuova C.U.M.E.T.

## Threading power program

Precision in *movement!*

# Prodotti Standard Fornibili a Richiesta

## Standard Products Available on Request

**Maschi a Macchina-**Machine Taps

### DIN 371-L DIN 357 DIN 13 Hex ISO 529

M-MF

### DIN 371 DIN 376

UNC-UNF-UN-UNS-UNEF-BSW-BSF

### DIN 5156 DIN 374

G-RC-NPT-NPTF-NPS-NPSF

### DIN 40433 DIN 371 DIN 374

TR-BA-VG

**Maschi a Mano-**Hand Taps

### DIN 352 / 2181

M-MF-BSW-BSF-G-UNC-UNF-UN-RC-UNEF-BA-NPT-NPTF-NPS-NPSF

### DIN 5157

G-RC

### DIN 40432

PG

**Filiere-**Dies

### DIN EN22568 DIN EN24231

M-MF-BSW-BSF-G-UNC-UNF-UNEF-UN-PG-BA-NPT-NPTF-NPS-NPSF

**Calibri-**Gauges

### ISO 1502 ISO 228-2

CTP-CTPNP-CAP-CANP-M-MF-G

**Accessori**-Accessories

# I n d e x


LA NOSTRA TECNOLOGIA
Our Technology 2

VELOCITA' DI TAGLIO
Cutting data 3

008 SERIES GENERAL — SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL <800N/mm | STEEL >800N/mm — 8

011 SERIES HARD — ALLOY STEEL | TREATED STEEL | STEEL < 1100N/mm (38HRC) — 14

014 SERIES HARD PLUS — ALLOY STEEL | TREATED STEEL | STEEL < 1400N/mm (44HRC) — 16

015 SERIES INOX — SULPHUR TREATED STAINLESS | AUSTENITIC STAINLESS | FERROUS STEEL | MARTENSITIC STEEL — 18

016 SERIES ALU — ALUMINIUM | AL ALLOY Si<10% | MAGNESIUM ALLOY — 20

017 SERIES CAST IRON — GREY CAST IRON | Sphero Cast Iron | IRON CASTING — 24

018 SERIES HYPER — STEEL < 1100N/mm (38HRC) | INOX >1100N/mm | CAST IRON | TI-Alloy <1100N/mm | NE NON FERROUS — 26

019 SERIES POWER CNC MACHINING — STEEL < 1100N/mm (38HRC) | INOX <1100N/mm | CAST IRON | TI-Alloy <1100N/mm | NE NON FERROUS | CAST IRON | NE NON FERROUS | CNC MACHINES — 28

020 SERIES ROLLS — A>12% — 30

021 SERIES COPPER — COPPER | BRASS | BRONZE — 34

# La nostra Micro Finitura
# Our Micro Finishing

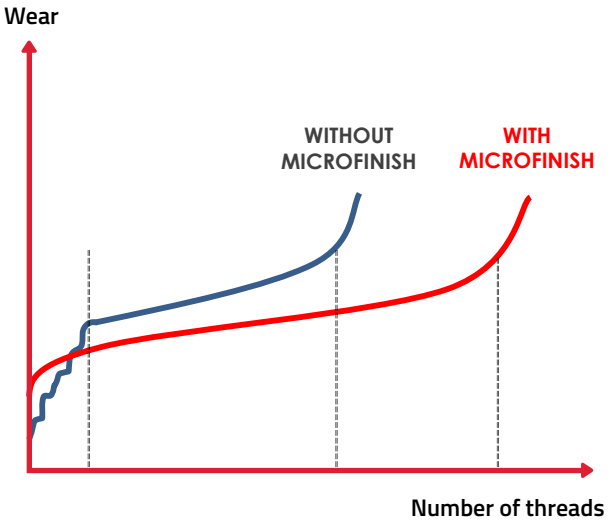
- Taglienti arrotondati e puliti da sbavature
  Rounded cutting edges and cleaned flutes from burrs
- Maggiore controllo e stabilità dell'usura utensile
  Greater control and stability of the tool wear
- Notevole aumento delle prestazioni
  Significant increase in performance
- Migliore finitura del filetto
  Improves the thread finishes

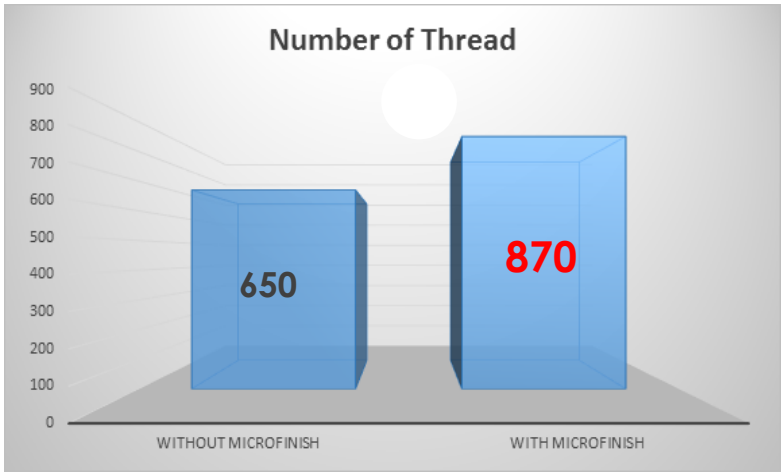
**Thread:** M6 6H

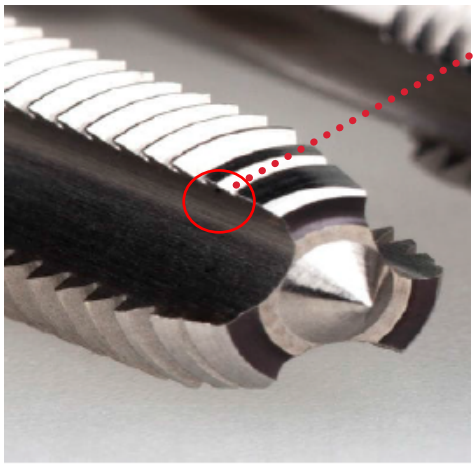
**Material:** F114 (C45)

**Depth:** 12 mm

**Speed:** 10 m/min



**OUR FINISH**

STANDARD

| SERIES | APPLICATION |
|---|---|
| 008 GENERAL | Soft magnetic steels, construction and cementation steels, and non-alloy and alloy carbon steels up to a resistance of 800 N/mm² |
| 011 HARD | Alloy and treated steels up to a resistance of 1,100 N/mm² (38 HRC) |
| 014 HARD PLUS | Alloy and treated steels up to a resistance of 1,400 N/mm² (44 HRC) |
| 015 INOX | Sulphur treated stainless, austenitic, ferrous and martensitic steel. |
| 016 ALU | Aluminium and aluminium alloys with Si<10%. Magnesium alloys |
| 017 CAST IRON | Grey cast-iron, spheroidal graphite iron castings |
| 021 COPPER | Copper, brass and bronze |
| 018 HYPER | Steels up to 1,100 N/mm², Stainless steels up to 1,100 N/mm², cast iron, Titanium alloys up to 1,100 N/mm², nonferrous materials. |
| 019 POWER CNC MACHINING | Steels up to 1,100 N/mm², Stainless steels up to 1,100 N/mm², cast iron, Titanium alloys up to 1,100 N/mm², nonferrous materials. CNC machines |
| 020 ROLLS | Lamination threading on materials with an elongation higher than 12% (A>12%) |

| TREATMENTS AND COATINGS | |
|---|---|
| VAP | Vaporization treatment |
| NIT | Nitride Hardening treatment |
| TIN | Titanium nitride coating |
| TICN | Titanium carbonitride coating |
| CrN | Aluminium carbonitride coating |
| HL | Hard Lube (WC+TiALN) |

**MANUFACTURING MATERIALS**

| Name | Description | C | Cr | Mo | W | Co | V | Nb |
|---|---|---|---|---|---|---|---|---|
| HSSE | Cobalt high speed steel | 0,93 | 4,2 | 5 | 6,4 | 4,8 | 1,8 | - |
| HSSE-PM | Powder/ metallurgy steel | 1,69 | 4 | 4,6 | 6,3 | 9 | 3,2 | 2,1 |

| | | Material | (N/mm²) | Kp/mm² | HB | HRC |
|---|---|---|---|---|---|---|
| 1.STEELS | 008 | 1.1 Soft magnetic | <400 | <40 | <120 | |
| | | 1.2 Construction and cement | <700 | <70 | <200 | |
| | | 1.3 Non-alloy carbon | <750 | <75 | <225 | |
| | | 1.4 Alloys | <1000 | <100 | <300 | <31 |
| | 011 | 1.5 Treated alloys (38 HRC) | <1.200 | <120 | <350 | <36 |
| | 014 | 1.6 High resistant alloys (44 HRC) | <1.400 | <140 | <410 | <44 |
| | 55HRC | 1.7 High resistant alloys (55 HRC) | | | | <55 |
| | 65HRC | 1.8 High resistant alloys (65 HRC) | | | | <65 |
| 2.STAINLLESS STEEL | INOX | 2.1 Sulphureous | <850 | <85 | <250 | <23 |
| | | 2.2 Austenitic | <850 | <85 | <250 | <23 |
| | | 2.3 Ferritic and martensitic | <850 | <85 | <250 | <23 |
| | | 2.4 Ferritic and martensitic | <1.200 | <120 | <350 | <36 |
| 3.CAST IRON | C | 3.1 Grey | <500 | <50 | <150 | |
| | | 3.2 Grey | <1.000 | <100 | <300 | |
| | | 3.3 Grey with spheroidal graphite | <700 | <70 | <200 | |
| | | 3.4 Grey with spheroidal graphite | <1.000 | <100 | <300 | |
| 4.TITANIUM | TI | 4.1 Pure | <700 | <70 | <200 | |
| | | 4.2 Titanium alloys | <850 | <85 | <250 | <23 |
| | | 4.3 Titanium alloys | <1.250 | <125 | <350 | <39 |
| 5.NICKEL | NI | 5.1 Pure | <500 | <50 | <150 | |
| | | 5.2 Nickel alloys | <850 | <85 | <270 | <23 |
| | | 5.3 Nickel alloys | <1.200 | <120 | <350 | <36 |
| 6.COPPER | CU | 6.1 Pure | <350 | <35 | <100 | |
| | | 6.2 Short chipping brass | <700 | <70 | <200 | |
| | | 6.3 Long chipping brass | <700 | <70 | <200 | |
| | | 6.4 Short chipping bronze | <400 | <40 | <120 | |
| | | 6.5 Long chipping bronze | <700 | <70 | <200 | |
| 7.ALUMINIUM | AL | 7.1 Non-alloys | <400 | <40 | <120 | |
| | | 7.2 Alloys Si<10% | <600 | <60 | <180 | |
| | | 7.3 Alloys Si>10% | <600 | <60 | <180 | |
| | | 7.4 Magnesium alloys | <400 | <40 | <120 | |
| 8.PLASTICS | PL | 8.1 Thermoplastic | <50 | | | |
| | | 8.2 Duroplastics | <80 | | | |

# 008
## GENERAL

# 011
## HARD

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Application | 008 | 008 | 008 | 008 | 008 | 008 | 008 | 008 | **011** | **011** | **011** | **011** |
| Material | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM |
| Coating | VAP | VAP | VAP | VAP | TIN | TIN | TIN | TIN | TICN | TICN | TICN | TICN |
| Entry | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) |
| Geometry | GUN | GUN | R35° | R35° | GUN | GUN | R35° | R35° | GUN | GUN | R35° | R35° |
| Tolerance | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) |
| Depth | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd |
| Reference | **250** | **251** | **252** | **253** | **116** | **115** | **118** | **117** | **126** | **125** | **124** | **123** |
| Page | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 |
| Advance | Vc(m/min) | | | | | | | | | | | |
| 1.1 | 15-25 | 15-25 | 15-25 | 15-25 | 20-30 | 20-30 | 20-30 | 20-30 | | | | |
| 1.2 | 10-20 | 10-20 | 10-20 | 10-20 | 15-25 | 15-25 | 15-25 | 15-25 | | | | |
| 1.3 | 12-18 | 12-18 | 12-18 | 12-18 | 15-25 | 15-25 | 15-25 | 15-25 | | | | |
| 1.4 | 10-15 | 10-15 | 10-15 | 10-15 | 12-18 | 12-18 | 12-18 | 12-18 | 10-15 | 10-15 | 10-15 | 10-15 |
| 1.5 | | | | | | | | | 6-10 | 6-10 | 6-10 | 6-10 |
| 1.6 | | | | | | | | | 4-6 | 4-6 | 4-6 | 4-6 |
| 1.7 | | | | | | | | | | | | |
| 1.8 | | | | | | | | | | | | |
| 2.1 | 7-10 | 7-10 | 7-10 | 7-10 | 9-12 | 9-12 | 9-12 | 9-12 | | | | |
| 2.2 | 5-8 | 5-8 | 5-8 | 5-8 | 6-10 | 6-10 | 6-10 | 6-10 | | | | |
| 2.3 | | | | | | | | | | | | |
| 2.4 | | | | | | | | | 6-12 | 6-12 | 6-12 | 6-12 |
| 3.1 | | | | | | | | | | | | |
| 3.2 | | | | | | | | | | | | |
| 3.3 | 10-15 | 10-15 | 10-15 | 10-15 | 15-20 | 15-20 | 15-20 | 15-20 | | | | |
| 3.4 | | | | | | | | | 10-20 | 10-20 | 10-20 | 10-20 |
| 4.1 | | | | | | | | | | | | |
| 4.2 | | | | | | | | | 6-8 | 6-8 | 6-8 | 6-8 |
| 4.3 | | | | | | | | | 4-6 | 4-6 | 4-6 | 4-6 |
| 5.1 | | | | | | | | | | | | |
| 5.2 | | | | | | | | | | | | |
| 5.3 | | | | | | | | | | | | |
| 6.1 | | | | | | | | | | | | |
| 6.2 | | | | | | | | | | | | |
| 6.3 | 15-20 | 15-20 | 15-20 | 15-20 | 20-25 | 20-25 | 20-25 | 20-25 | | | | |
| 6.4 | | | | | | | | | | | | |
| 6.5 | 10-15 | 10-15 | 10-15 | 10-15 | 15-20 | 15-20 | 15-20 | 15-20 | | | | |
| 7.1 | | | | | | | | | | | | |
| 7.2 | 10-15 | 10-15 | 10-15 | 10-15 | 12-18 | 12-18 | 12-18 | 12-18 | | | | |
| 7.3 | | | | | | | | | | | | |
| 7.4 | | | | | | | | | | | | |
| 8.1 | 10-15 | 10-15 | 10-15 | 10-15 | 12-18 | 12-18 | 12-18 | 12-18 | | | | |
| 8.2 | | | | | | | | | 10-15 | 10-15 | 10-15 | 10-15 |

**BEST CHOICE** Alternative

# 014
## HARD PLUS

# 015
## INOX

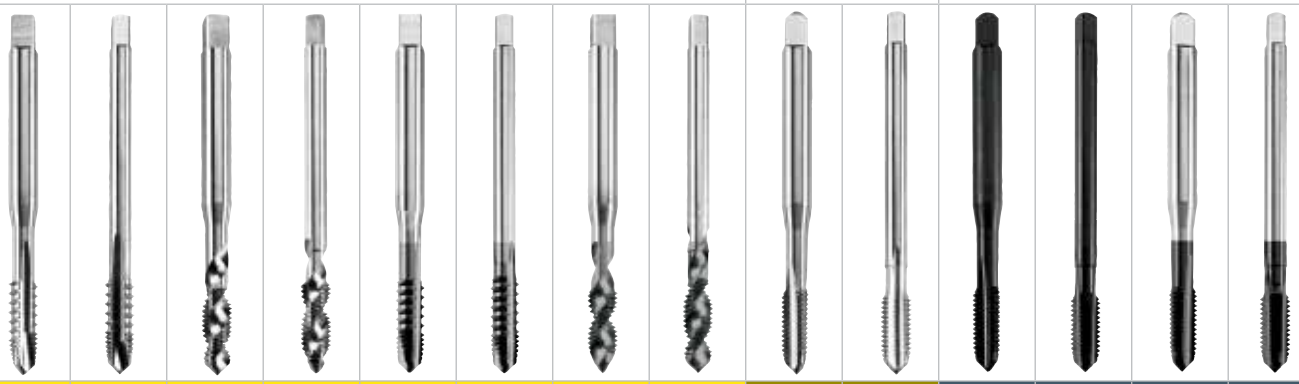
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Application | 014 | 014 | 014 | 014 | 015 | 015 | 015 | 015 | | | | |
| Material | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE | HSSE | HSSE | HSSE | | | | |
| Coating | TICN | TICN | TICN | TICN | VAP | VAP | VAP | VAP | | | | |
| Entry | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) | | | | |
| Geometry | GUN | GUN | R15° | R15° | GUN | GUN | R35° | R35° | | | | |
| Tolerance | ISO2(6HX) | ISO2(6HX) | ISO2(6HX) | ISO2(6HX) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | | | | |
| Depth | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | | | | |
| Reference | **176** | **175** | **178** | **177** | **122** | **121** | **120** | **119** | | | | |
| Page | 16 | 16 | 17 | 17 | 18 | 18 | 19 | 19 | | | | |
| Advance | Vc(m/min) | | | | | | | | | | | |
| 1.1 | | | | | 15-25 | 15-25 | 15-25 | 15-25 | | | | |
| 1.2 | | | | | 10-20 | 10-20 | 10-20 | 10-20 | | | | |
| 1.3 | | | | | 12-18 | 12-18 | 12-18 | 12-18 | | | | |
| 1.4 | | | | | | | | | | | | |
| 1.5 | 6-10 | 6-10 | 6-10 | 6-10 | | | | | | | | |
| 1.6 | 4-6 | 4-6 | 4-6 | 4-6 | | | | | | | | |
| 1.7 | | | | | | | | | | | | |
| 1.8 | | | | | | | | | | | | |
| 2.1 | | | | | 7-10 | 7-10 | 7-10 | 7-10 | | | | |
| 2.2 | | | | | 5-8 | 5-8 | 5-8 | 5-8 | | | | |
| 2.3 | | | | | 5-8 | 5-8 | 5-8 | 5-8 | | | | |
| 2.4 | | | | | | | | | | | | |
| 3.1 | | | | | | | | | | | | |
| 3.2 | | | | | | | | | | | | |
| 3.3 | | | | | | | | | | | | |
| 3.4 | 10-20 | 10-20 | 10-20 | 10-20 | | | | | | | | |
| 4.1 | | | | | 10-15 | 10-15 | 10-15 | 10-15 | | | | |
| 4.2 | 6-8 | 6-8 | 6-8 | 6-8 | | | | | | | | |
| 4.3 | 4-6 | 4-6 | 4-6 | 4-6 | | | | | | | | |
| 5.1 | | | | | | | | | | | | |
| 5.2 | 2-6 | 2-6 | 2-6 | 2-6 | | | | | | | | |
| 5.3 | 1-5 | 1-5 | 1-5 | 1-5 | | | | | | | | |
| 6.1 | | | | | 6-8 | 6-8 | 6-8 | 6-8 | | | | |
| 6.2 | | | | | | | | | | | | |
| 6.3 | | | | | | | | | | | | |
| 6.4 | | | | | | | | | | | | |
| 6.5 | | | | | | | | | | | | |
| 7.1 | | | | | | | | | | | | |
| 7.2 | | | | | | | | | | | | |
| 7.3 | | | | | | | | | | | | |
| 7.4 | | | | | | | | | | | | |
| 8.1 | | | | | | | | | | | | |
| 8.2 | 10-15 | 10-15 | 10-15 | 10-15 | | | | | | | | |

BEST CHOICE  Alternative

# 016 ALU

# 021 CU

# 017 CAST IRON



| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Application | **016** | **016** | **016** | **016** | **016** | **016** | **016** | **016** | **021** | **021** | **017** | **017** | **017** | **017** |
| Material | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE | HSSE |
| Coating | | | | | CrN | CrN | CrN | CrN | | | NIT | NIT | TICN | TICN |
| Entry | B(3,5-5)-AZ | B(3,5-5)-AZ | C(2-3) | C(2-3) | B(3,5-5)-AZ | B(3,5-5)-AZ | C(2-3) | C(2-3) | E(1,2-2) | E(1,2-2) | C(2-3) | C(2-3) | C(2-3) | C(2-3) |
| Geometry | GUN | GUN | R45° | R45° | GUN | GUN | R45° | R45° | | | | | | |
| Tolerance | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6HX) | ISO2(6HX) | ISO2(6HX) | ISO2(6HX) |
| Depth | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 1,5xd | 1,5xd | 1,5xd | 1,5xd | 1,5xd | 1,5xd |
| Reference | **133** | **132** | **182** | **181** | **184** | **183** | **186** | **185** | **190** | **191** | **129** | **128** | **180** | **179** |
| Page | 20 | 20 | 21 | 21 | 22 | 22 | 23 | 23 | 34 | 34 | 24 | 24 | 25 | 25 |
| Advance | Vc(m/min) | | | | | | | | | | | | | |
| 1.1 | | | | | | | | | | | | | | |
| 1.2 | | | | | | | | | | | | | | |
| 1.3 | | | | | | | | | | | | | | |
| 1.4 | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | |
| 1.6 | | | | | | | | | | | | | | |
| 1.7 | | | | | | | | | | | | | | |
| 1.8 | | | | | | | | | | | | | | |
| 2.1 | | | | | | | | | | | | | | |
| 2.2 | | | | | | | | | | | | | | |
| 2.3 | | | | | | | | | | | | | | |
| 2.4 | | | | | | | | | | | | | | |
| 3.1 | | | | | | | | | | | 10-15 | 10-15 | 15-30 | 15-30 |
| 3.2 | | | | | | | | | | | 6-12 | 6-12 | 10-20 | 10-20 |
| 3.3 | | | | | | | | | | | | | | |
| 3.4 | | | | | | | | | | | | | | |
| 4.1 | | | | | | | | | | | | | | |
| 4.2 | | | | | | | | | | | | | | |
| 4.3 | | | | | | | | | | | | | | |
| 5.1 | | | | | | | | | | | | | | |
| 5.2 | | | | | | | | | | | | | | |
| 5.3 | | | | | | | | | | | | | | |
| 6.1 | 6-8 | 6-8 | 6-8 | 6-8 | 8-12 | 8-12 | 8-12 | 8-12 | | | | | | |
| 6.2 | | | | | | | | | 25-35 | 25-35 | 25-35 | 25-35 | 35-50 | 35-50 |
| 6.3 | | | | | | | | | | | | | | |
| 6.4 | | | | | | | | | 25-35 | 25-35 | 25-35 | 25-35 | 35-50 | 35-50 |
| 6.5 | | | | | | | | | | | | | | |
| 7.1 | 10-20 | 10-20 | 10-20 | 10-20 | 12-18 | 12-18 | 12-18 | 12-18 | | | | | | |
| 7.2 | 10-15 | 10-15 | 10-15 | 10-15 | 12-18 | 12-18 | 12-18 | 12-18 | | | | | | |
| 7.3 | | | | | | | | | | | | | | |
| 7.4 | 10-20 | 10-20 | 10-20 | 10-20 | 12-18 | 12-18 | 12-18 | 12-18 | | | | | | |
| 8.1 | 10-15 | 10-15 | 10-15 | 10-15 | 12-18 | 12-18 | 12-18 | 12-18 | | | | | | |
| 8.2 | | | | | | | | | | | | | | |

**BEST CHOICE** Alternative

# 018 HYPER

# 019 POWER

## CNC MACHINING

# 020 ROLLS

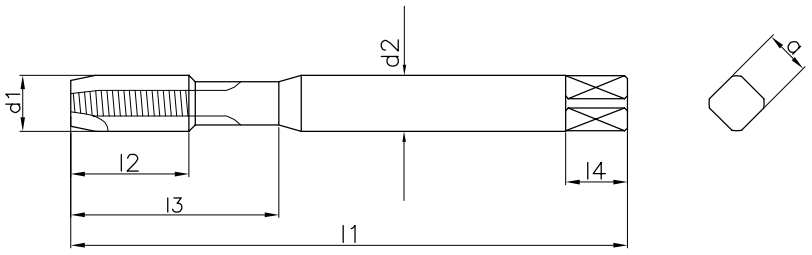
| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Application | 018 | 018 | 018 | 018 | 019 | 019 | 019 | 019 | 020 | 020 | 020 | 020 | 020 | 020 | 020 | 020 |
| Material | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM | HSSE-PM |
| Coating | HL | HL | HL | HL | HL | HL | HL | HL | TIN | TIN | TIN | TIN | TIN | TIN | TIN | TIN |
| Entry | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) | B(3,5-5) | B(3,5-5) | C(2-3) | C(2-3) | C(2-3) | C(2-3) | C(2-3) | C(2-3) | C(2-3) | C(2-3) | C(2-3) | C(2-3) |
| Geometry | GUN | GUN | R45° | R45° | GUN | GUN | R45° | R45° | | | SR | SR | | | SR | SR |
| Tolerance | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | ISO2(6H) | 6HX | 6HX | 6HX | 6HX | 6GX | 6GX | 6GX | 6GX |
| Depth | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 3xd | 1,5xd | 1,5xd | 3Xd | 3Xd | 1,5xd | 1,5xd | 3Xd | 3Xd |
| Reference | **254** | **255** | **256** | **257** | **258** | **259** | **260** | **261** | **188** | **187** | **214** | **213** | **216** | **215** | **218** | **217** |
| Page | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 |
| Advance | Vc(m/min) | | | | | | | | | | | | | | | |
| 1.1 | 20-40 | 20-40 | 20-40 | 20-40 | 20-50 | 20-50 | 20-50 | 20-50 | 25-45 | 25-45 | 25-45 | 25-45 | 25-45 | 25-45 | 25-45 | 25-45 |
| 1.2 | 20-40 | 20-40 | 20-40 | 20-40 | 20-50 | 20-50 | 20-50 | 20-50 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 |
| 1.3 | 15-40 | 15-40 | 15-40 | 15-40 | 15-40 | 15-40 | 15-40 | 15-40 | 15-35 | 15-35 | 15-35 | 15-35 | 15-35 | 15-35 | 15-35 | 15-35 |
| 1.4 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 |
| 1.5 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | | | | | | | | |
| 1.6 | 5-10 | 5-10 | 5-10 | 5-10 | | | | | | | | | | | | |
| 1.7 | | | | | | | | | | | | | | | | |
| 1.8 | | | | | | | | | | | | | | | | |
| 2.1 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 |
| 2.2 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 5-15 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 |
| 2.3 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 |
| 2.4 | 5-10 | 5-10 | 5-10 | 5-10 | | | | | | | | | | | | |
| 3.1 | 15-25 | 15-25 | 15-25 | 15-25 | | | | | | | | | | | | |
| 3.2 | 10-20 | 10-20 | 10-20 | 10-20 | | | | | | | | | | | | |
| 3.3 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | | | | | | | | |
| 3.4 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | | | | | | | | |
| 4.1 | 5-15 | 5-15 | 5-15 | 5-15 | | | | | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 |
| 4.2 | 5-15 | 5-15 | 5-15 | 5-15 | | | | | | | | | | | | |
| 4.3 | 4-6 | 4-6 | | | | | | | | | | | | | | |
| 5.1 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | 6-8 | | | | | | | | |
| 5.2 | 2-6 | 2-6 | | | 2-6 | 2-6 | | | | | | | | | | |
| 5.3 | 1-5 | 1-5 | | | 1-5 | 1-5 | | | | | | | | | | |
| 6.1 | 10-30 | 10-30 | 10-30 | 10-30 | 20-30 | 20-30 | 20-30 | 20-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 |
| 6.2 | 10-30 | 10-30 | 10-30 | 10-30 | | | | | | | | | | | | |
| 6.3 | 10-30 | 10-30 | 10-30 | 10-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 | 20-30 |
| 6.4 | 10-30 | 10-30 | 10-30 | 10-30 | | | | | | | | | | | | |
| 6.5 | 10-30 | 10-30 | 10-30 | 10-30 | 20-30 | 20-30 | 20-30 | 20-30 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 | 15-25 |
| 7.1 | 10-30 | 10-30 | 10-30 | 10-30 | | | | | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 |
| 7.2 | 10-30 | 10-30 | 10-30 | 10-30 | 20-30 | 20-30 | 20-30 | 20-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 | 15-30 |
| 7.3 | 10-30 | 10-30 | 10-30 | 10-30 | | | | | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 | 10-20 |
| 7.4 | 10-30 | 10-30 | 10-30 | 10-30 | | | | | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 | 20-40 |
| 8.1 | | | | | | | | | | | | | | | | |
| 8.2 | | | | | | | | | | | | | | | | |

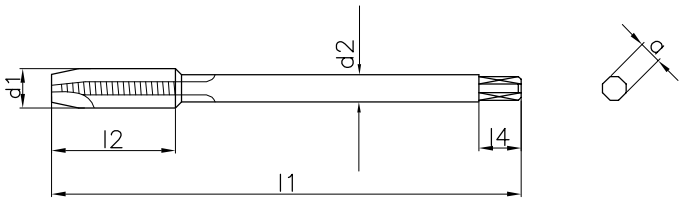
**BEST CHOICE** Alternative

# 008 GENERAL

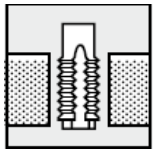
SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL <800N/mm

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## THROUGH HOLE



| Application | 008 | 008 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | BRIGHT | BRIGHT |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **104** | **103** |

Code Example Ref. 103 M12

008.103LUM12175

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 34 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 38 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 22 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 20 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 24 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 22 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 22 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 22 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 22 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 22 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 30 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 25 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 25 | - | 16,00 | 12,00 | 18,50 | - | |

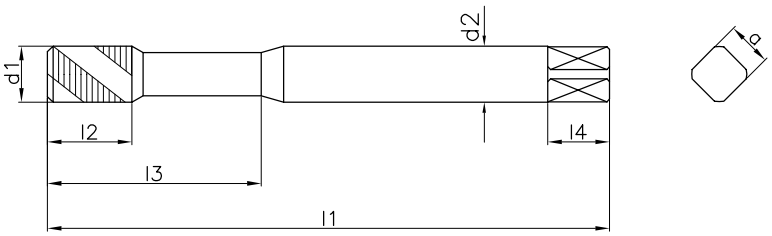
*For other measurements and threads please consult price and delivery time

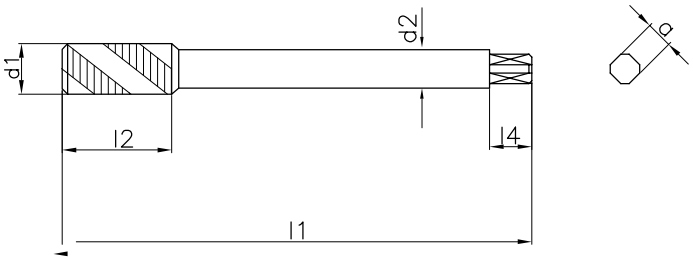
# 008

## GENERAL

SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL <800N/mm

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




Code Example Ref. 106 M3

008.106LUM30005

## BLIND THREAD

| Application | 008 | 008 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | BRIGHT | BRIGHT |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **106** | **105** |

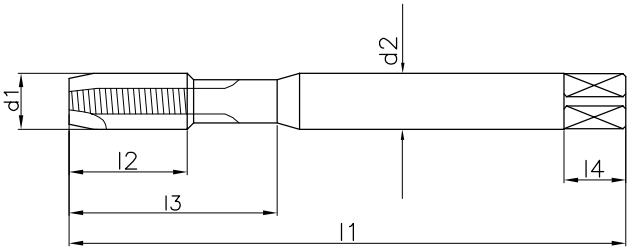
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 25 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 30 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 14 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 10 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 16 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 15 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 15 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 15 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 15 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 15 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 15 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 22 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 22 | - | 16,00 | 12,00 | 18,50 | - | |

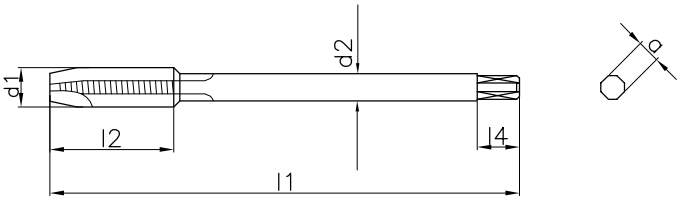
*For other measurements and threads please consult price and delivery time

# 008 GENERAL

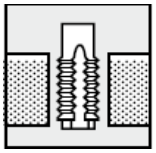
SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL >800N/mm

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## THROUGH HOLE



| Application | 008 | 008 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | VAP | VAP |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **250** | **251** |

Code Example Ref. 251 M12

008.250VPM12175

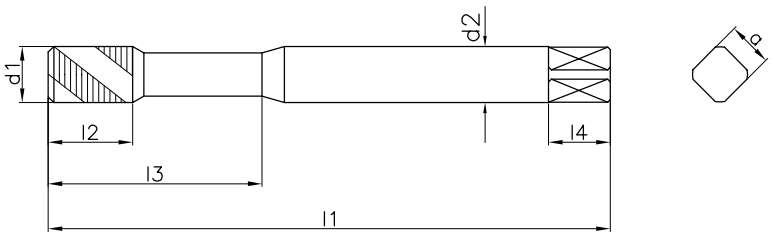
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 34 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 38 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 22 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 20 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 24 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 22 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 22 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 22 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 22 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 22 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 30 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 25 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 25 | - | 16,00 | 12,00 | 18,50 | - | |

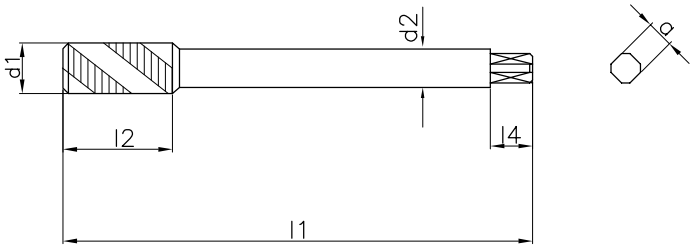
*For other measurements and threads please consult price and delivery time

# 008 GENERAL

SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL >800N/mm

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## BLIND THREAD

| Application | 008 | 008 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | VAP | VAP |
| Entry | C(2-3) | C(2-3) |
| Geometry | R35° | R35° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **252** | **253** |

Code Example Ref. 253 M12

008.253VPMF12150

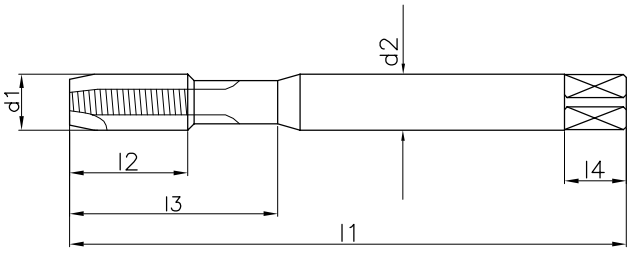
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 25 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 30 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 14 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 10 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 16 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 15 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 15 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 15 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 15 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 15 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 15 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 22 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 22 | - | 16,00 | 12,00 | 18,50 | - | |

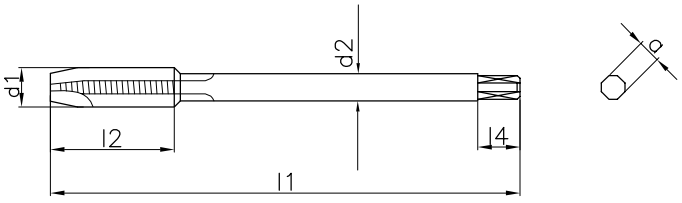
*For other measurements and threads please consult price and delivery time

# 008 GENERAL

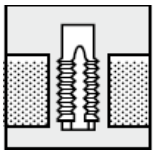
SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL >800N/mm

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## THROUGH HOLE



| Application | 008 | 008 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | TIN | TIN |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **116** | **115** |

Code Example Ref. 116 M6

008.116TIM60010

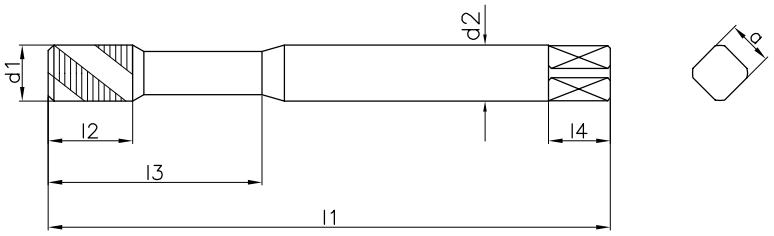
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 34 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 38 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 22 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 20 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 24 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 22 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 22 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 22 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 22 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 22 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 30 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 25 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 25 | - | 16,00 | 12,00 | 18,50 | - | |

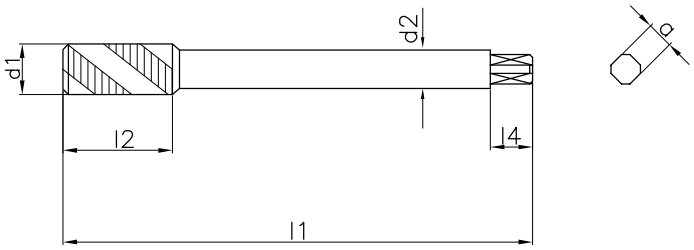
*For other measurements and threads please consult price and delivery time

# 008 GENERAL

SOFT STEEL | CONSTRUCTION STEEL | CEMENTED STEEL | NON ALLOY STEEL | CARBON STEEL | STEEL >800N/mm

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## BLIND THREAD

| Application | 008 | 008 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | TIN | TIN |
| Entry | C(2-3) | C(2-3) |
| Geometry | R35° | R35° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **118** | **117** |

Code Example Ref. 118 M10

008.118TIM10150

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 25 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 30 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 14 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 10 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 16 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 15 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 15 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 15 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 15 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 15 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 15 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 22 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 22 | - | 16,00 | 12,00 | 18,50 | - | |

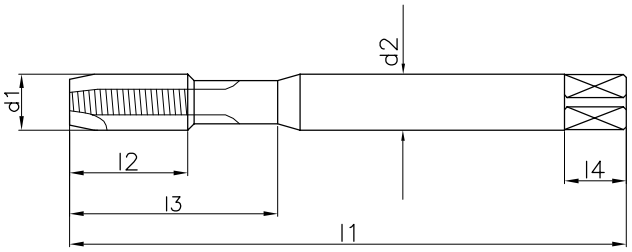
*For other measurements and threads please consult price and delivery time

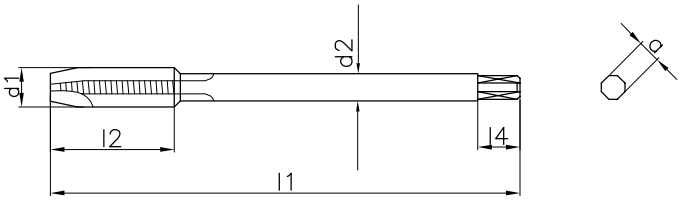
# 011

## HARD

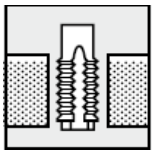
ALLOY STEEL | TREATED STEEL | STEEL < 1100N/mm (38HRC)

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




**THROUGH HOLE**



| Application | 011 | 011 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TICN | TICN |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **126** | **125** |

Code Example Ref. 125 M20

011.125TCM20250

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 34 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 38 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 22 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 20 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 24 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 22 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 22 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 22 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 22 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 22 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 30 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 25 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 25 | - | 16,00 | 12,00 | 18,50 | - | |

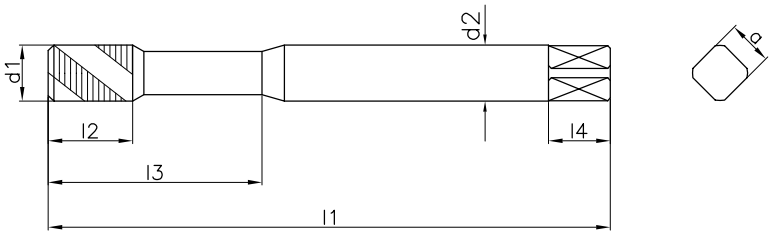
*For other measurements and threads please consult price and delivery time

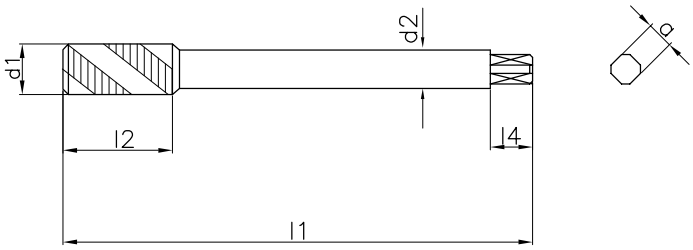
# 011

## HARD

ALLOY STEEL | TREATED STEEL | STEEL < 1100N/mm (38HRC)

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## BLIND THREAD

| Application | 011 | 011 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TICN | TICN |
| Entry | C(2-3) | C(2-3) |
| Geometry | R35° | R35° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **124** | **123** |

Code Example Ref. 123 MF8

011.123TCMF80010

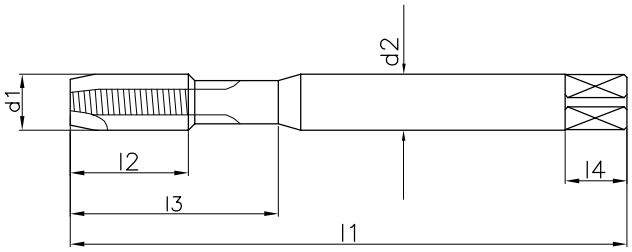
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 25 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 30 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 14 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 10 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 16 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 15 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 15 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 15 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 15 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 15 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 15 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 22 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 22 | - | 16,00 | 12,00 | 18,50 | - | |

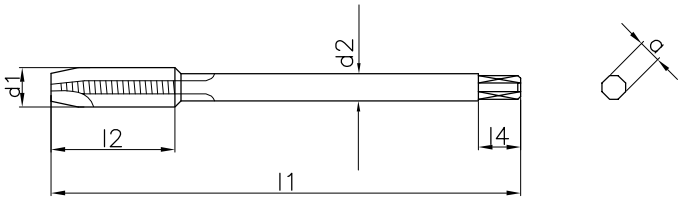
*For other measurements and threads please consult price and delivery time

# 014 HARD PLUS

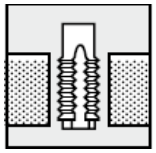
ALLOY STEEL | TREATED STEEL | STEEL < 1400N/mm (44HRC)

DIN 371 | DIN 376 | 60° M




## THROUGH HOLE



| Application | 014 | 014 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TICN | TICN |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6HX) | ISO2(6HX) |
| Deep | 3xd | 3xd |
| Reference | **176** | **175** |

Code Example Ref. 175 M12

014.175TCM12175

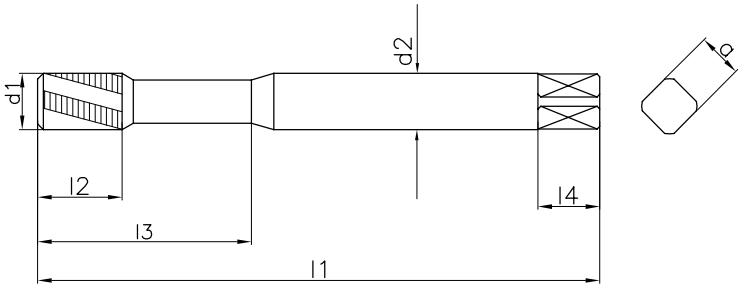
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |

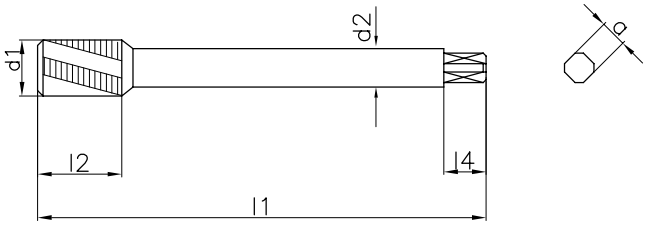
* For other measurements and threads please consult price and delivery time

# 014 HARD PLUS

ALLOY STEEL | TREATED STEEL | STEEL < 1400N/mm (44HRC)

DIN 371 | DIN 376 | 60° M




## BLIND THREAD

| Application | 014 | 014 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TICN | TICN |
| Entry | C(2-3) | C(2-3) |
| Geometry | R15° | R15° |
| Tolerance | ISO2(6HX) | ISO2(6HX) |
| Deep | 3xd | 3xd |
| Reference | **178** | **177** |

Code Example Ref. 178 M6

014.178TCM60010

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |

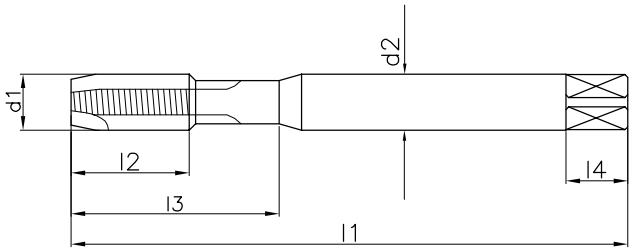
*For other measurements and threads please consult price and delivery time

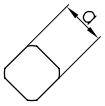
# 015

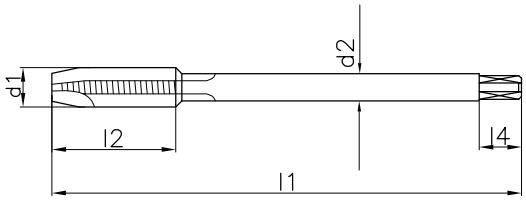
# INOX

SULPHUR TREATED STAINLESS | AUSTENITIC STAINLESS | FERROUS STEEL | MARTENSITIC STEEL

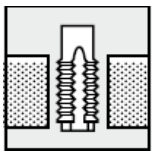
DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF



**THROUGH HOLE**



| Application | 015 | 015 |
|---|---|---|
| Material | | HSSE |
| Coating | VAP | VAP |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **122** | **121** |

Code Example Ref. 121 M12

015.121VPM12175

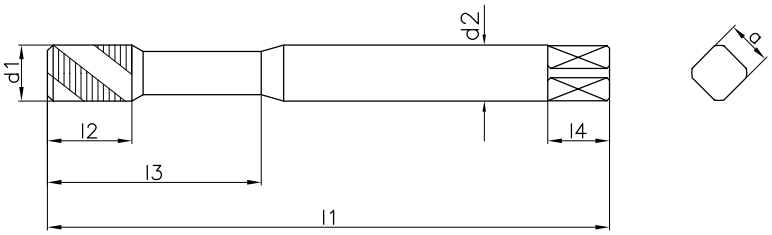
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 34 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 38 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 22 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 20 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 24 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 22 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 22 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 22 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 22 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 22 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 30 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 25 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 25 | - | 16,00 | 12,00 | 18,50 | - | |

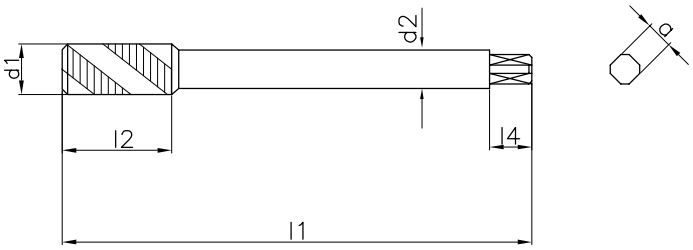
*For other measurements and threads please consult price and delivery time

# 015 INOX

SULPHUR TREATED STAINLESS | AUSTENITIC STAINLESS | FERROUS STEEL | MARTENSITIC STEEL

DIN 371 | DIN 376 | DIN 374 | 60° M | 60° MF




## BLIND THREAD

| Application | 015 | 015 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | VAP | VAP |
| Entry | C(2-3) | C(2-3) |
| Geometry | R35° | R35° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **120** | **119** |

Code Example Ref. 119 M12

015.119VPM12175

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |
| M22 | 2,50 | 140 | 25 | - | 18,00 | 14,50 | 19,50 | - | |
| M24 | 3,00 | 160 | 30 | - | 18,00 | 14,50 | 21,00 | - | |
| **DIN 374 \| Thin Shank** | | | | | | | | | |
| MF8 | 1,00 | 90 | 14 | - | 6,00 | 4,90 | 7,00 | - | |
| MF10 | 1,00 | 90 | 10 | - | 7,00 | 5,50 | 9,00 | - | |
| MF10 | 1,25 | 100 | 16 | - | 7,00 | 5,50 | 8,80 | - | |
| MF12 | 1,00 | 100 | 15 | - | 9,00 | 7,00 | 11,00 | - | |
| MF12 | 1,25 | 100 | 15 | - | 9,00 | 7,00 | 10,80 | - | |
| MF12 | 1,50 | 100 | 15 | - | 9,00 | 7,00 | 10,50 | - | |
| MF14 | 1,25 | 100 | 15 | - | 11,00 | 9,00 | 12,80 | - | |
| MF14 | 1,50 | 100 | 15 | - | 11,00 | 9,00 | 12,50 | - | |
| MF16 | 1,50 | 100 | 15 | - | 12,00 | 9,00 | 14,50 | - | |
| MF18 | 1,50 | 110 | 22 | - | 14,00 | 11,00 | 16,50 | - | |
| MF20 | 1,50 | 125 | 22 | - | 16,00 | 12,00 | 18,50 | - | |

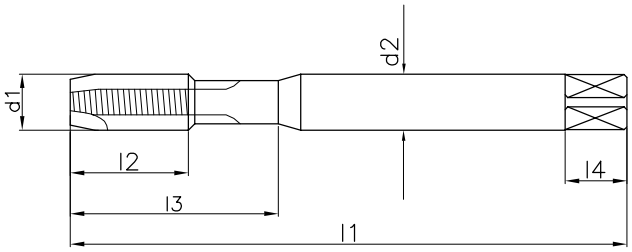
*For other measurements and threads please consult price and delivery time

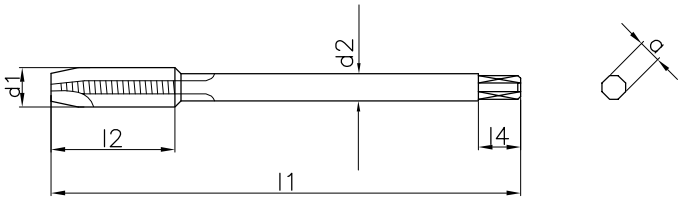
# 016

## ALU

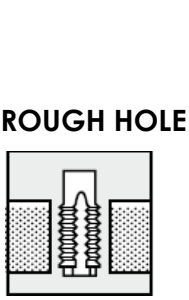
ALUMINIUM | AL ALLOY Si<10% | MAGNESIUM ALLOY

DIN 371 | DIN 376 | 60° M




**THROUGH HOLE**



| Application | 016 | 016 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | - | - |
| Entry | B(3,5-5)-AZ | B(3,5-5)-AZ |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **133** | **132** |

Code Example Ref. 133 M3

016.133LUM30005

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |

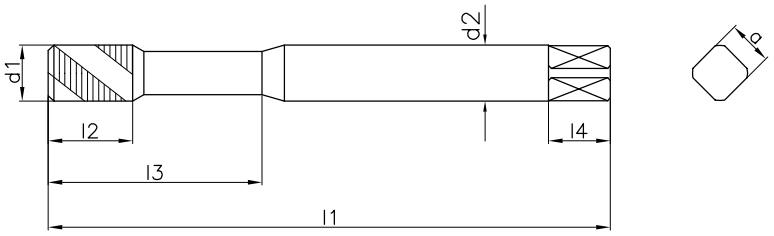
*For other measurements and threads please consult price and delivery time

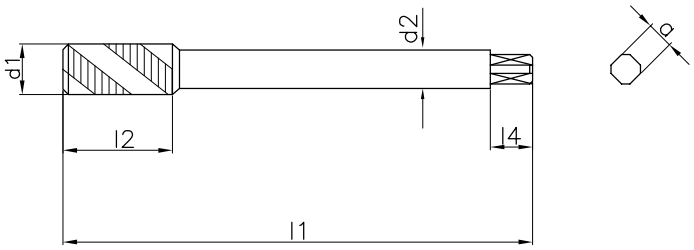
# 016

## ALU

ALUMINIUM | AL ALLOY Si<10% | MAGNESIUM ALLOY

DIN 371 | DIN 376 | 60° M




**BLIND THREAD**

| Application | 016 | 016 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | - | - |
| Entry | C(2-3) | C(2-3) |
| Geometry | R45° | R45° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **182** | **181** |

Code Example Ref. 181 M12

016.181LUM12175

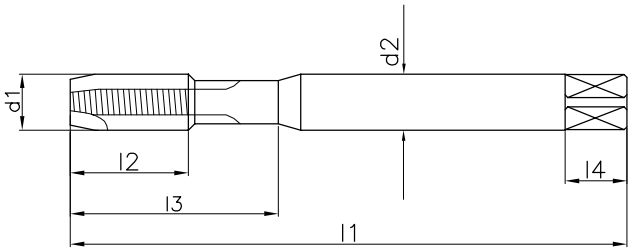
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |

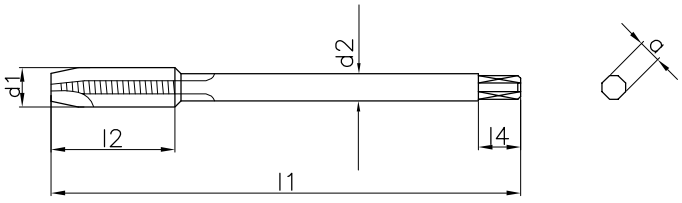
*For other measurements and threads please consult price and delivery time

# 016 ALU

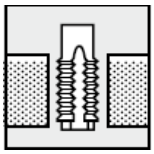
ALUMINIUM | AL ALLOY Si<10% | MAGNESIUM ALLOY

DIN 371 | DIN 376 | 60° M




## THROUGH HOLE



| Application | 016 | 016 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | CrN | CrN |
| Entry | B(3,5-5)-AZ | B(3,5-5)-AZ |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **184** | **183** |

Code Example Ref. 184 M8

016.184CRM80125

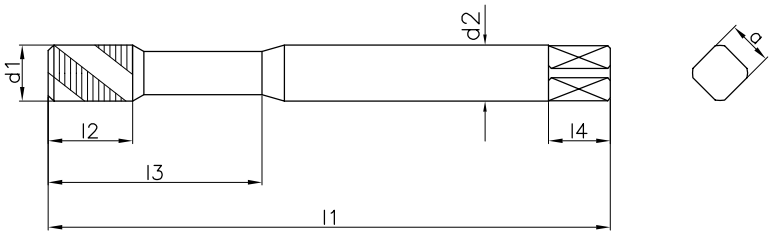
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |

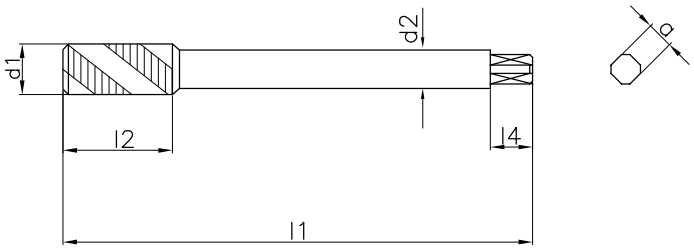
*For other measurements and threads please consult price and delivery time

# 016 ALU

ALUMINIUM | AL ALLOY Si<10% | MAGNESIUM ALLOY

DIN 371 | DIN 376 | 60° M




## BLIND THREAD

| Application | 016 | 016 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | CrN | CrN |
| Entry | C(2-3) | C(2-3) |
| Geometry | R45° | R45° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **186** | **185** |

Code Example Ref. 185 M12

016.185CRM12175

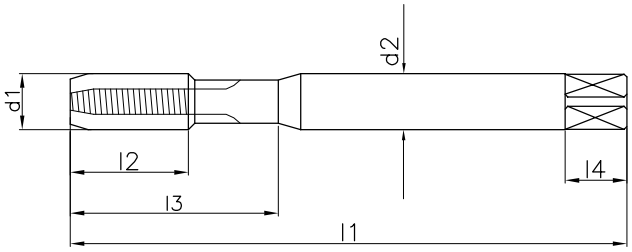
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |

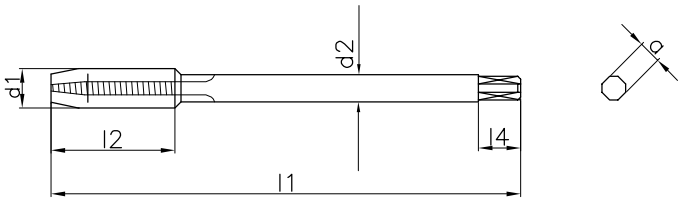
*For other measurements and threads please consult price and delivery time

# 017 CAST IRON

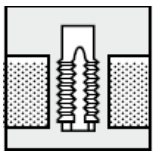
GREY CAST IRON | Sphero Cast Iron | IRON CASTING

DIN 371 | DIN 376 | 60° M




**THROUGH HOLE**



**BLIND THREAD**

| Application | 017 | 017 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | NIT | NIT |
| Entry | C(2-3) | C(2-3) |
| Geometry | - | - |
| Tolerance | ISO2(6HX) | ISO2(6HX) |
| Deep | 1,5xd | 1,5xd |
| Reference | **129** | **128** |

Code Example Ref. 129 M6

017.129NTM60010

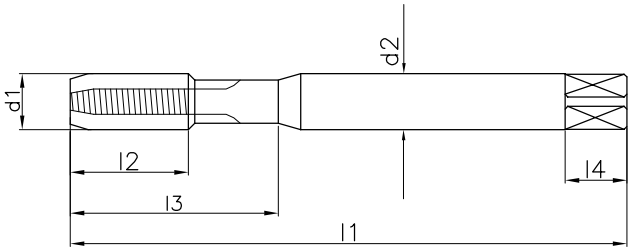
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 34 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 34 | - | 16,00 | 12,00 | 17,50 | - | |

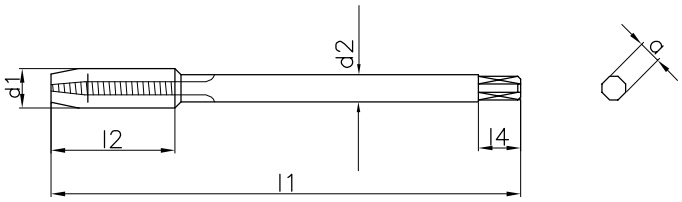
*For other measurements and threads please consult price and delivery time

# 017 CAST IRON

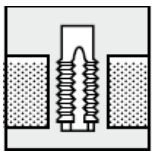
GREY CAST IRON | Sphero Cast Iron | IRON CASTING

DIN 371 | DIN 376 | 60° M




THROUGH HOLE



BLIND THREAD

| Application | 017 | 017 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | TICN | TICN |
| Entry | C(2-3) | C(2-3) |
| Geometry | - | - |
| Tolerance | ISO2(6HX) | ISO2(6HX) |
| Deep | 1,5xd | 1,5xd |
| Reference | **180** | **179** |

Code Example Ref. 180 M6

017.180TCM60010

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 6 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 14 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 16 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 14 | - | 6,00 | 4,90 | 6,80 | - | |
| M10 | 1,50 | 100 | 16 | - | 7,00 | 5,50 | 8,50 | - | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |
| M18 | 2,50 | 125 | 25 | - | 14,00 | 11,00 | 15,50 | - | |
| M20 | 2,50 | 140 | 25 | - | 16,00 | 12,00 | 17,50 | - | |

*For other measurements and threads please consult price and delivery time

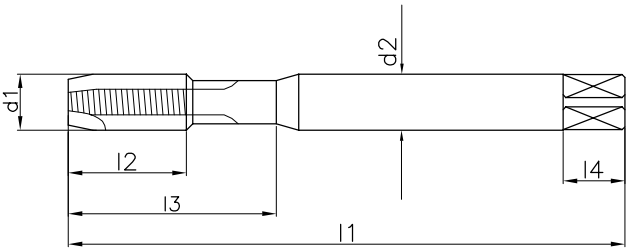
# 018 HYPER

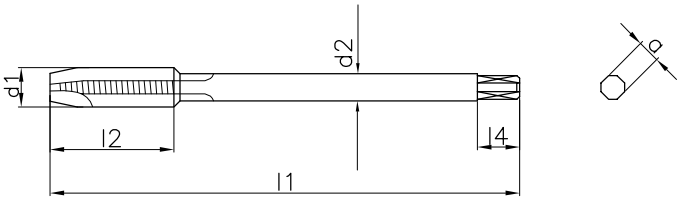
STEEL < 1100N/mm (38HRC) | INOX <1100N/mm | CAST IRON | TI-Alloy <1100N/mm | NE NON FERROUS

DIN 371 | DIN 376 | 60° M

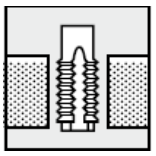
Per filettature su macchine tradizionali utilizzabile per tutti i tipi di materiali

For conventional threading machines and thread a wide range of materials




**THROUGH HOLE**



| Application | 018 | 018 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | HL | HL |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **254** | **255** |

Code Example Ref. 254 M6

018.254HLM60010

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 5 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |

*For other measurements and threads please consult price and delivery time

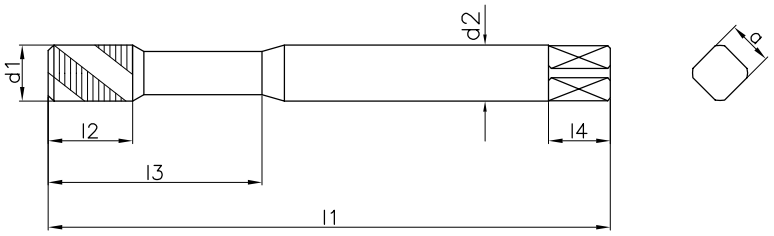
# 018 HYPER

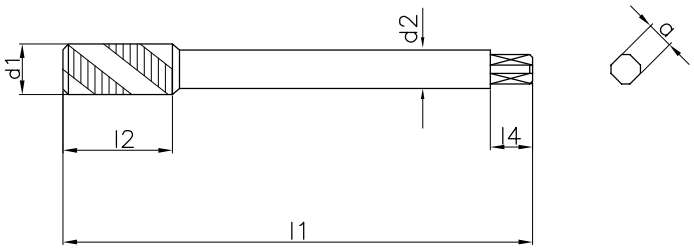
STEEL < 1100N/mm (38HRC) | INOX <1100N/mm | CAST IRON | TI-Alloy <1100N/mm | NE NON FERROUS

DIN 371 | DIN 376 | 60° M

Per filettature su macchine tradizionali utilizzabile per tutti i tipi di materiali

For conventional threading machines and thread a wide range of materials




**BLIND THREAD**

| Application | 018 | 018 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | HL | HL |
| Entry | C(2-3) | C(2-3) |
| Geometry | R45° | R45° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **256** | **257** |

Code Example Ref. 256 M6

018.256HLM60010

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 5 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |

*For other measurements and threads please consult price and delivery time

# 019

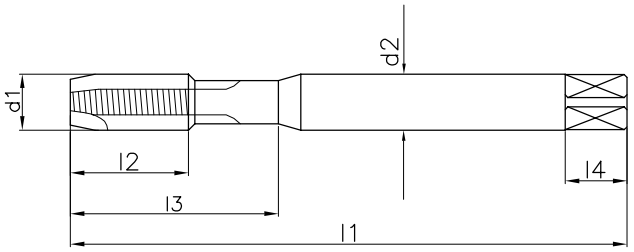
## POWER CNC MACHINING

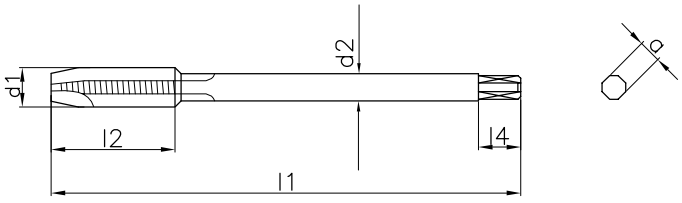
STEEL < 1100N/mm (38HRC) | INOX <1100N/mm | CAST IRON | TI-Alloy <1100N/mm | NE NON FERROUS | CAST IRON | NE NON FERROUS | CNC MACHINES

DIN 371 | DIN 376 | 60° M

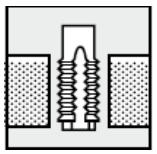
Per filettature di alta precisione su macchine CNC

For tapping in CNC machines that require high precision




**THROUGH HOLE**



| Application | 019 | 019 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | HL | HL |
| Entry | B(3,5-5) | B(3,5-5) |
| Geometry | GUN | GUN |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **258** | **259** |

Code Example Ref. 258 M6

019.258HLM60010

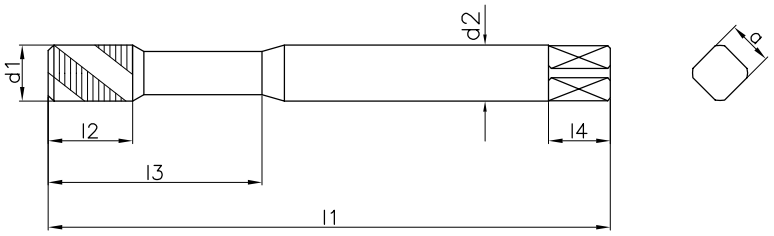
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 5 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |

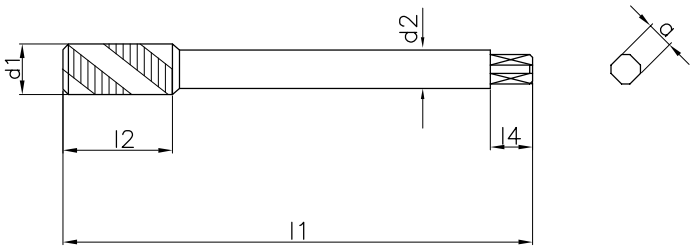
*For other measurements and threads please consult price and delivery time

DIN 371 | DIN 376 | 60° M

Per filettature di alta precisione su macchine CNC

For tapping in CNC machines that require high precision




## BLIND THREAD

| Application | 019 | 019 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | HL | HL |
| Entry | C(2-3) | C(2-3) |
| Geometry | R45° | R45° |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 3xd | 3xd |
| Reference | **260** | **261** |

Code Example Ref. 260 M6

019.260HLM60010

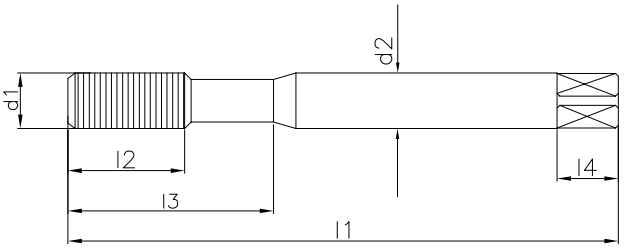
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 5 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 20 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 20 | - | 12,00 | 9,00 | 14,00 | - | |

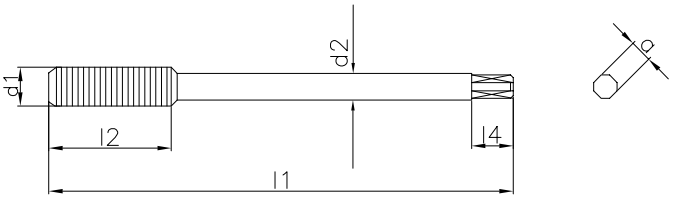
*For other measurements and threads please consult price and delivery time

# 020 ROLLS

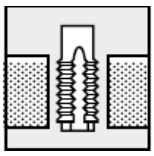
A>12%

DIN 371 | DIN 376 | 60° M




**THROUGH HOLE**



**BLIND THREAD**

| Application | 020 | 020 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TIN | TIN |
| Entry | C(2-3) | C(2-3) |
| Geometry | - | - |
| Tolerance | 6HX | 6HX |
| Deep | 1,5xd | 1,5xd |
| Reference | **188** | **187** |

Code Example Ref. 188 M6

020.188TIM60010

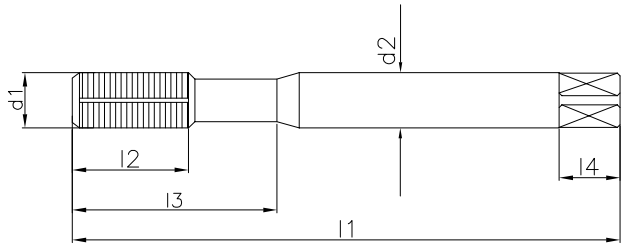
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 10 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 26 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 27 | - | 12,00 | 9,00 | 14,00 | - | |

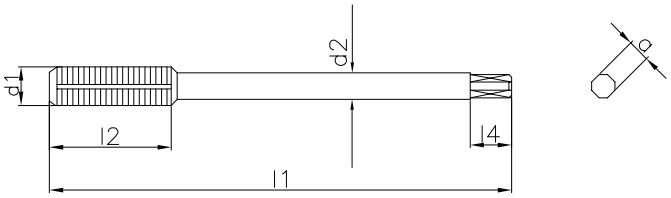
*For other measurements and threads please consult price and delivery time

# 020 ROLLS

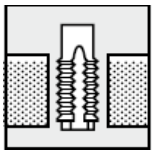
A>12%

DIN 371 | DIN 376 | 60° M




**THROUGH HOLE**



**BLIND THREAD**

| Application | 020 | 020 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TIN | TIN |
| Entry | C(2-3) | C(2-3) |
| Geometry | SR | SR |
| Tolerance | 6HX | 6HX |
| Deep | 3Xd | 3Xd |
| Reference | **214** | **213** |

Code Example Ref. 214 M6

020.214TIM60010

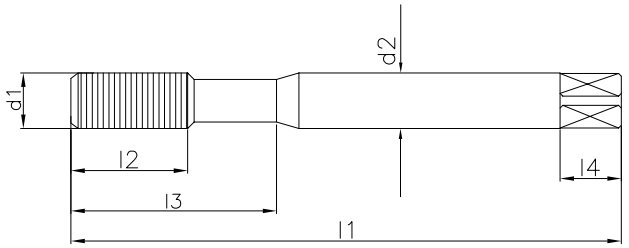
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 10 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |
| M14 | 2,00 | 110 | 26 | - | 11,00 | 9,00 | 12,00 | - | |
| M16 | 2,00 | 110 | 27 | - | 12,00 | 9,00 | 14,00 | - | |

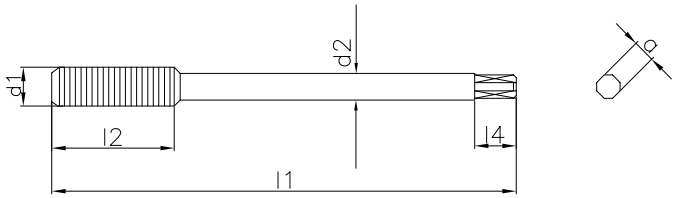
*For other measurements and threads please consult price and delivery time

# 020 ROLLS

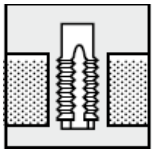
A>12%

DIN 371 | DIN 376 | 60° M




**THROUGH HOLE**



**BLIND THREAD**

| Application | 020 | 020 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TIN | TIN |
| Entry | C(2-3) | C(2-3) |
| Geometry | - | - |
| Tolerance | 6GX | 6GX |
| Deep | 1,5xd | 1,5xd |
| Reference | **216** | **215** |

Code Example Ref. 216 M6

020.216TIM60010

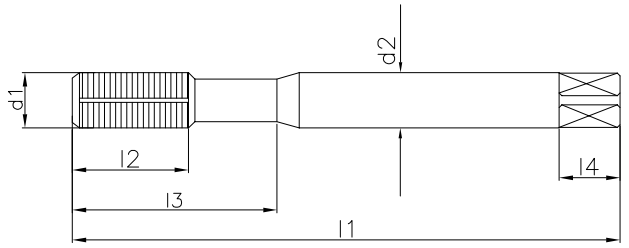
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 10 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | | |

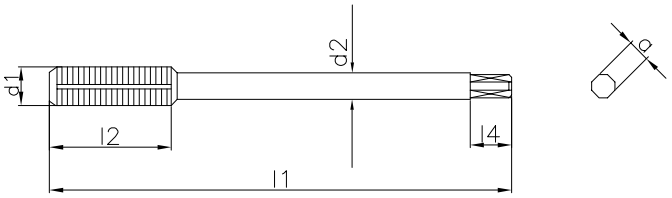
*For other measurements and threads please consult price and delivery time

# 020 ROLLS

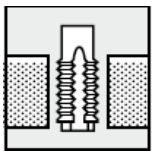
A>12%

DIN 371 | DIN 376 | 60° M




**THROUGH HOLE**



**BLIND THREAD**

| Application | 020 | 020 |
|---|---|---|
| Material | HSSE-PM | HSSE-PM |
| Coating | TIN | TIN |
| Entry | C(2-3) | C(2-3) |
| Geometry | SR | SR |
| Tolerance | 6GX | 6GX |
| Deep | 3Xd | 3Xd |
| Reference | **218** | **217** |

Code Example Ref. 218 M6

020.218TIM60010

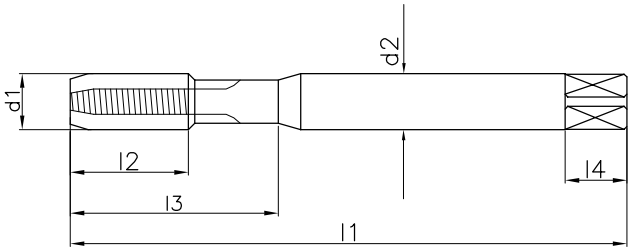
| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 10 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 7 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 8 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 10 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 13 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 15 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M12 | 1,75 | 100 | 18 | - | 9,00 | 7,00 | 10,20 | - | |

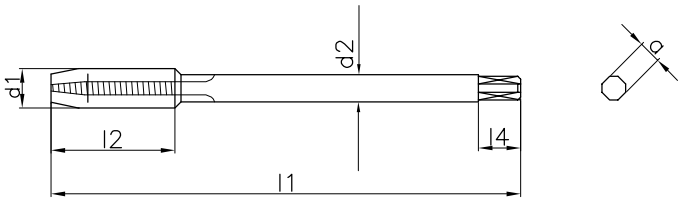
*For other measurements and threads please consult price and delivery time

# 021 COPPER

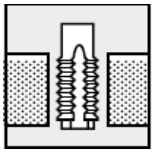
COPPER | BRASS | BRONZE

DIN 371 | DIN 376 | 60° M




## THROUGH HOLE



| Application | 021 | 021 |
|---|---|---|
| Material | HSSE | HSSE |
| Coating | - | - |
| Entry | E(1,2-2) | E(1,2-2) |
| Geometry | - | - |
| Tolerance | ISO2(6H) | ISO2(6H) |
| Deep | 1,5xd | 1,5xd |
| Reference | **190** | **191** |

Code Example Ref. 190 M6

021.190LUM60010

| d1 mm. | P mm. | l1 mm. | l2 mm. | l3 mm. | d2 mm. | a mm. | Ø HOLE mm. | € | € |
|---|---|---|---|---|---|---|---|---|---|
| **DIN 371 \| Reinforced shank** | | | | | | | | | |
| M3 | 0,50 | 56 | 11 | 18 | 3,50 | 2,70 | 2,50 | | - |
| M4 | 0,70 | 63 | 13 | 21 | 4,50 | 3,40 | 3,30 | | - |
| M5 | 0,80 | 70 | 16 | 25 | 6,00 | 4,90 | 4,20 | | - |
| M6 | 1,00 | 80 | 19 | 30 | 6,00 | 4,90 | 5,00 | | - |
| M8 | 1,25 | 90 | 22 | 35 | 8,00 | 6,20 | 6,80 | | - |
| M10 | 1,50 | 100 | 24 | 39 | 10,00 | 8,00 | 8,50 | | - |
| **DIN 376 \| Thin Shank** | | | | | | | | | |
| M8 | 1,25 | 90 | 22 | - | 6,00 | 4,90 | 6,80 | | |
| M10 | 1,50 | 100 | 24 | - | 7,00 | 5,50 | 8,50 | | |
| M12 | 1,75 | 100 | 22 | - | 9,00 | 7,00 | 10,20 | | |
| M14 | 2,00 | 110 | 30 | - | 11,00 | 9,00 | 12,00 | | |
| M16 | 2,00 | 110 | 30 | - | 12,00 | 9,00 | 14,00 | | |

*For other measurements and threads please consult price and delivery time

**Nuova C.U.M.E.T. Srl** - Via Torino, 502
10032 Brandizzo (TO) ITALY
Tel: +39 011 917 95 14/15
Telefax: +39 011 917 95 55/02
www.nuovacumet.it • info@nuovacumet.it

**B.A. Machinery**
Beijing
Tel: (86)-10-63777466/76
Telefax: (86)-10-63377486
www.nuovacumet.cn • info@nuovacumet.cn

**CUMET Tools s.r.o.**
Vilovà 298/17
46010 – Liberec 10 Czech Republic
Tel: (420) 602232383
www.cumet.cz • cumet@cumet.cz