



Leading Through Innovation

HSS-PM

SYNCHRO TAPS

SYNCHRO TAPS

- For High Speed Tapping on Rigid CNC Machine
- Für Hochgeschwindigkeits-Gewindebohren auf starren CNC-Maschinen



HSS-PM SYNCHRO TAPS

For High Speed Tapping on Rigid CNC Machine

Please visit globalyg1.com/mat for material search
 ◎ : Excellent ○ : Good
 Recommended cutting conditions : P.69

| ISO | VDI 3323 | Material Description | Composition / Structure / Heat Treatment | HB | HRc | TIN | TIN | TiCN | TIN |
|-----|---------------------|---|--|--|-----|-----|-----|------|-----|
| P | 1 | Non-alloy steel | About 0.15% C Annealed | 125 | | ◎ | ◎ | ○ | ◎ |
| | 2 | | About 0.45% C Annealed | 190 | 13 | ◎ | ◎ | ○ | ◎ |
| | 3 | | About 0.45% C Quenched & Tempered | 250 | 25 | ◎ | ◎ | ○ | ◎ |
| | 4 | | About 0.75% C Annealed | 270 | 28 | ◎ | ◎ | ○ | ◎ |
| | 5 | About 0.75% C Quenched & Tempered | 300 | 32 | ◎ | ◎ | ○ | ◎ | |
| | 6 | Low alloy steel | Annealed | 180 | 10 | ◎ | ◎ | ○ | ◎ |
| | 7 | | Quenched & Tempered | 275 | 29 | ◎ | ◎ | ○ | ◎ |
| | 8 | | Quenched & Tempered | 300 | 32 | ◎ | ◎ | ○ | ◎ |
| | 9 | | Quenched & Tempered | 350 | 38 | ◎ | ◎ | ○ | ◎ |
| | 10 | | High alloyed steel, and tool steel | Annealed | 200 | 15 | ◎ | ◎ | ○ |
| | 11 | Quenched & Tempered | 325 | 35 | ◎ | ◎ | ○ | ◎ | |
| M | 12 | Stainless steel | Ferritic / Martensitic Annealed | 200 | 15 | ◎ | ◎ | ○ | ◎ |
| | 13 | | Martensitic Quenched & Tempered | 240 | 23 | ◎ | ◎ | ○ | ◎ |
| | 14 | | Austenitic | 180 | 10 | ○ | ○ | ◎ | ◎ |
| K | 15 | Grey cast iron | Pearlitic / ferritic | 180 | 10 | ○ | ○ | ◎ | ◎ |
| | 16 | | Pearlitic (Martensitic) | 260 | 26 | ○ | ○ | ◎ | ◎ |
| | 17 | Nodular cast iron | Ferritic | 160 | 3 | ◎ | ◎ | ○ | ◎ |
| | 18 | | Pearlitic | 250 | 25 | ◎ | ◎ | ○ | ◎ |
| | 19 | | Ferritic | 130 | | ◎ | ◎ | ○ | ◎ |
| 20 | Malleable cast iron | Pearlitic | 230 | 21 | ◎ | ◎ | ○ | ◎ | |
| N | 21 | Aluminum-wrought alloy | Not Curable | 60 | | ◎ | ◎ | ○ | ◎ |
| | 22 | | Curable Hardened | 100 | | ◎ | ◎ | ○ | ◎ |
| | 23 | Aluminum-cast, alloyed | ≤ 12% Si, Not Curable | 75 | | ◎ | ◎ | ○ | ◎ |
| | 24 | | ≤ 12% Si, Curable Hardened | 90 | | ◎ | ◎ | ○ | ◎ |
| | 25 | | > 12% Si, Not Curable | 130 | | ◎ | ◎ | ○ | ◎ |
| | 26 | | Cutting Alloys, PB>1% | 110 | | ◎ | ◎ | ○ | ◎ |
| | 27 | Copper and Copper Alloys (Bronze / Brass) | CuZn, CuSnZn (Brass) | 90 | | ◎ | ◎ | ○ | ◎ |
| | 28 | | CuSn, lead-free copper and electrolytic copper | 100 | | ○ | ○ | ◎ | ◎ |
| | 29 | | Non Metallic Materials | Duroplastic, Fiber Reinforced Plastic Rubber, Wood, etc. | | | | | |
| | 30 | | | | | | | | |
| S | 31 | Heat Resistant Super Alloys | Fe Based Annealed | 200 | 15 | | | | |
| | 32 | | Cured | 280 | 30 | | | | |
| | 33 | | Annealed | 250 | 25 | | | | |
| | 34 | | Ni or Co Based Cured | 350 | 38 | | | | |
| | 35 | Cast | 320 | 34 | | | | | |
| 36 | Titanium Alloys | Pure Titanium | 400 Rm | | | | | | |
| 37 | | Alpha + Beta Alloys Hardened | 1050 Rm | | | | | | |
| H | 38 | Hardened steel | Hardened | 550 | 55 | | | | |
| | 39 | | Hardened | 630 | 60 | | | | |
| | 40 | Hardened Cast Iron | Cast | 400 | 42 | | | | |
| | 41 | | Hardened | 550 | 55 | | | | |

SYNCHRO TAPS

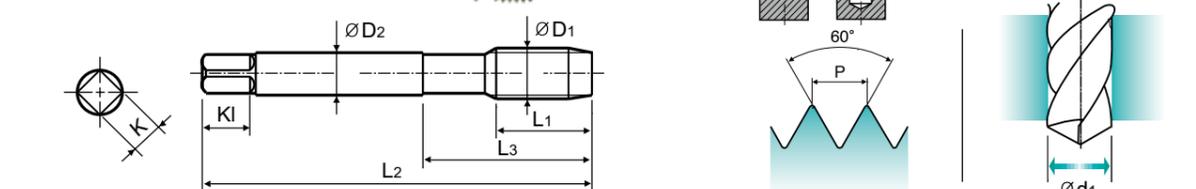
TTS31 SERIES

ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

- Coated HSS-PM(Powder Metallurgy) Taps for high-speed tapping on rigid CNC machines or equivalent machines
- Up to 3 times faster in tapping compared to conventional taps
- For high-speed synchro tapping, synchro holder for increasing tool life and thread quality is recommended
- High precision threads

- Beschichtete HSS-PM-Gewindebohrer zum Hochgeschwindigkeitsgewindebohren auf starren CNC-Maschinen oder gleichwertige Maschinen
- Bis zu dreimal schnelleres Gewindeschneiden als bei herkömmlichen Gewindebohrern
- Beim Hochgeschwindigkeits-Gewindebohren wird die Verwendung eines Synchrofutters zur Erhöhung der Werkzeugstandzeit und der Gewindequalität empfohlen
- Hoch präzise Gewinde



Material groups: **GS** HSS-PM DIN 371/376 6H 60° C TiN R45

Machine taps Maschinengewindebohrer

Recommended Cutting Page : P.69 Unit : mm

| SIZE | Pitch | EDP No. | Thread Length | Overall Length | Neck Length | Shank Diameter | Square Size | Square Length | No. of Flute | Tapping Drill Diameter |
|------------|-------|----------|---------------|----------------|-------------|----------------|-------------|---------------|--------------|------------------------|
| ØD1 | P | TiN | L1 | L2 | L3 | ØD2 | K | K1 | Z | Ød1 |
| M3 × 0.5 | | TTS31206 | 6 | 56 | 18 | 3.5 | 2.7 | 6 | 3 | 2.5 |
| M4 × 0.7 | | TTS31246 | 7 | 63 | 21 | 4.5 | 3.4 | 6 | 3 | 3.3 |
| M5 × 0.8 | | TTS31286 | 8 | 70 | 25 | 6 | 4.9 | 8 | 3 | 4.2 |
| M6 × 1 | | TTS31316 | 10 | 80 | 30 | 6 | 4.9 | 8 | 3 | 5 |
| M8 × 1.25 | | TTS31366 | 13 | 90 | 35 | 8 | 6.2 | 9 | 3 | 6.8 |
| M10 × 1.5 | | TTS31426 | 15 | 100 | 39 | 10 | 8 | 11 | 3 | 8.5 |
| M12 × 1.75 | | TTS31506 | 18 | 110 | 44 | 9 | 7 | 10 | 3 | 10.2 |
| M14 × 2 | | TTS31546 | 20 | 110 | 44 | 11 | 9 | 12 | 3 | 12 |
| M16 × 2 | | TTS31606 | 20 | 110 | 44 | 12 | 9 | 12 | 3 | 14 |
| M18 × 2.5 | | TTS31656 | 25 | 125 | 50 | 14 | 11 | 14 | 4 | 15.5 |
| M20 × 2.5 | | TTS31706 | 25 | 140 | 54 | 16 | 12 | 15 | 4 | 17.5 |

- DIN 371(M3~M10) and DIN 376(M11~M20)
- Coating(TiAlN) is available on your request.

◎ : Excellent ○ : Good

| ISO | P | | | | | | | | | | M | | | | K | | | | | |
|----------------------|-----------------|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|------------------------------------|-----|-----------------|-----|----------------|-----|-------------------|-----|---------------------|-----|
| | Non-alloy steel | | | | | Low alloy steel | | | | | High alloyed steel, and tool steel | | Stainless steel | | Grey cast iron | | Nodular cast iron | | Malleable cast iron | |
| Material Description | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| VDI 3323 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| HRc | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 |
| HB | 125 | 190 | 250 | 270 | 300 | 180 | 275 | 300 | 350 | 200 | 325 | 200 | 240 | 180 | 180 | 260 | 160 | 250 | 130 | 230 |
| Recommended | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |

| ISO | N | | | | | | | | | S | | | | | | H | | | | | |
|----------------------|------------------------|-----|----|------------------------|-----|-----|---|-----|----|------------------------|-----|-----|-----------------------------|-----|-----|-----------------|--------|-----|----------------|-------------------|--------------------|
| | Aluminum-wrought alloy | | | Aluminum-cast, alloyed | | | Copper and Copper Alloys (Bronze / Brass) | | | Non Metallic Materials | | | Heat Resistant Super Alloys | | | Titanium Alloys | | | Hardened steel | Chilled Cast Iron | Hardened Cast Iron |
| Material Description | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| VDI 3323 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| HRc | 60 | 100 | 75 | 90 | 130 | 110 | 90 | 100 | | | 200 | 280 | 250 | 350 | 320 | 400Rm | 1050Rm | 550 | 630 | 400 | 550 |
| HB | 60 | 100 | 75 | 90 | 130 | 110 | 90 | 100 | | | 200 | 280 | 250 | 350 | 320 | 400Rm | 1050Rm | 550 | 630 | 400 | 550 |
| Recommended | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |

Y/G SYNCHRO TAPS

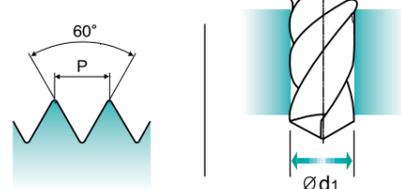
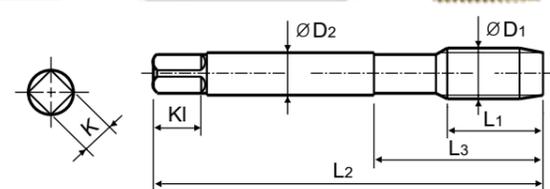
TTS33 SERIES

M ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

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- Beim Hochgeschwindigkeits-Gewindebohren wird die Verwendung eines Synchrofutters zur Erhöhung der Werkzeugstandzeit und der Gewindequalität empfohlen
- Hoch präzise Gewinde



Material groups: **GS** HSS-PM DIN 371/376 6HX 60° B TiN

Machine taps Maschinengewindebohrer

Recommended Cutting Page : P.69 Unit : mm

| SIZE | Pitch | EDP No. | Thread Length | Overall Length | Neck Length | Shank Diameter | Square Size | Square Length | No. of Flute | Tapping Drill Diameter |
|------|--------|----------|---------------|----------------|-------------|----------------|-------------|---------------|--------------|------------------------|
| ØD1 | P | TiN | L1 | L2 | L3 | ØD2 | K | Kl | Z | Ød1 |
| M3 | × 0.5 | TTS33206 | 5 | 56 | 18 | 3.5 | 2.7 | 6 | 3 | 2.5 |
| M4 | × 0.7 | TTS33246 | 7 | 63 | 21 | 4.5 | 3.4 | 6 | 3 | 3.3 |
| M5 | × 0.8 | TTS33286 | 8 | 70 | 25 | 6 | 4.9 | 8 | 3 | 4.2 |
| M6 | × 1 | TTS33316 | 10 | 80 | 30 | 6 | 4.9 | 8 | 3 | 5 |
| M8 | × 1.25 | TTS33366 | 13 | 90 | 35 | 8 | 6.2 | 9 | 3 | 6.8 |
| M10 | × 1.5 | TTS33426 | 15 | 100 | 39 | 10 | 8 | 11 | 3 | 8.5 |
| M12 | × 1.75 | TTS33506 | 18 | 110 | 44 | 9 | 7 | 10 | 4 | 10.2 |
| M14 | × 2 | TTS33546 | 20 | 110 | 44 | 11 | 9 | 12 | 4 | 12 |
| M16 | × 2 | TTS33606 | 20 | 110 | 44 | 12 | 9 | 12 | 4 | 14 |
| M18 | × 2.5 | TTS33656 | 25 | 125 | 50 | 14 | 11 | 14 | 4 | 15.5 |
| M20 | × 2.5 | TTS33706 | 25 | 140 | 54 | 16 | 12 | 15 | 4 | 17.5 |

- DIN 371(M3~M10) and DIN 376(M11~M20)
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◎ : Excellent ○ : Good

| ISO | P | | | | | | | | | M | | | | K | | | | | | |
|-------------|-----------------|-----|-----|-----------------|-----|-----|------------------------------------|-----|-----|-----------------|-----|----------------|-------------------|-----|---------------------|-----|-----|-----|-----|-----|
| | Non-alloy steel | | | Low alloy steel | | | High alloyed steel, and tool steel | | | Stainless steel | | Grey cast iron | Nodular cast iron | | Malleable cast iron | | | | | |
| VDI 3323 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| HRc | 13 | 25 | 28 | 32 | 30 | 10 | 29 | 32 | 38 | 15 | 35 | 15 | 23 | 10 | 10 | 26 | 3 | 25 | 21 | |
| HB | 125 | 190 | 250 | 270 | 300 | 180 | 275 | 300 | 350 | 200 | 325 | 200 | 240 | 180 | 180 | 260 | 160 | 250 | 130 | 230 |
| Recommended | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |

| ISO | N | | | | S | | | | | H | | | | | | | | | | | |
|-------------|------------------------|-----|------------------------|----|---|-----|----|------------------------|----|-----------------------------|-----|-----|-----------------|----------------|-------------------|--------------------|--------|-----|-----|-----|-----|
| | Aluminum-wrought alloy | | Aluminum-cast, alloyed | | Copper and Copper Alloys (Bronze / Brass) | | | Non Metallic Materials | | Heat Resistant Super Alloys | | | Titanium Alloys | Hardened steel | Chilled Cast Iron | Hardened Cast Iron | | | | | |
| VDI 3323 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| HRc | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| HB | 60 | 100 | 75 | 90 | 130 | 110 | 90 | 100 | | | 200 | 280 | 250 | 350 | 320 | 400Rm | 1050Rm | 550 | 630 | 400 | 550 |
| Recommended | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |

Y/G SYNCHRO TAPS

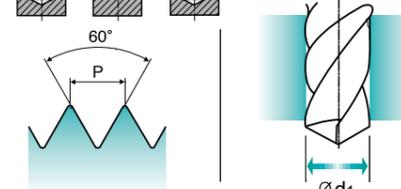
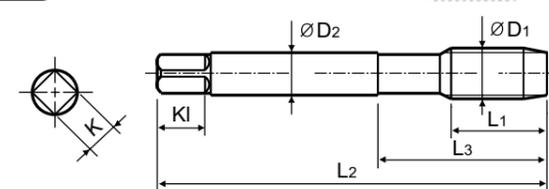
TKS35 SERIES

M ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

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- Hoch präzise Gewinde



Material groups: **GS** HSS-PM DIN 371/376 6HX 60° C TiCN

Machine taps Maschinengewindebohrer

Recommended Cutting Page : P.69 Unit : mm

| SIZE | Pitch | EDP No. | Thread Length | Overall Length | Neck Length | Shank Diameter | Square Size | Square Length | No. of Flute | Tapping Drill Diameter |
|------|--------|----------|---------------|----------------|-------------|----------------|-------------|---------------|--------------|------------------------|
| ØD1 | P | TiCN | L1 | L2 | L3 | ØD2 | K | Kl | Z | Ød1 |
| M3 | × 0.5 | TKS35206 | 5 | 56 | 18 | 3.5 | 2.7 | 6 | 3 | 2.5 |
| M4 | × 0.7 | TKS35246 | 7 | 63 | 21 | 4.5 | 3.4 | 6 | 3 | 3.3 |
| M5 | × 0.8 | TKS35286 | 8 | 70 | 25 | 6 | 4.9 | 8 | 3 | 4.2 |
| M6 | × 1 | TKS35316 | 10 | 80 | 30 | 6 | 4.9 | 8 | 3 | 5 |
| M8 | × 1.25 | TKS35366 | 13 | 90 | 35 | 8 | 6.2 | 9 | 3 | 6.8 |
| M10 | × 1.5 | TKS35426 | 15 | 100 | 39 | 10 | 8 | 11 | 4 | 8.5 |
| M12 | × 1.75 | TKS35506 | 18 | 110 | 44 | 9 | 7 | 10 | 4 | 10.2 |
| M14 | × 2 | TKS35546 | 20 | 110 | 44 | 11 | 9 | 12 | 4 | 12 |
| M16 | × 2 | TKS35606 | 20 | 110 | 44 | 12 | 9 | 12 | 4 | 14 |
| M18 | × 2.5 | TKS35656 | 25 | 125 | 50 | 14 | 11 | 14 | 4 | 15.5 |
| M20 | × 2.5 | TKS35706 | 25 | 140 | 54 | 16 | 12 | 15 | 4 | 17.5 |

- DIN 371(M3~M10) and DIN 376(M11~M20)
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| ISO | P | | | | | | | | | M | | | | K | | | | | | |
|-------------|-----------------|-----|-----|-----------------|-----|-----|------------------------------------|-----|-----|-----------------|-----|----------------|-------------------|-----|---------------------|-----|-----|-----|-----|-----|
| | Non-alloy steel | | | Low alloy steel | | | High alloyed steel, and tool steel | | | Stainless steel | | Grey cast iron | Nodular cast iron | | Malleable cast iron | | | | | |
| VDI 3323 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| HRc | 13 | 25 | 28 | 32 | 30 | 10 | 29 | 32 | 38 | 15 | 35 | 15 | 23 | 10 | 10 | 26 | 3 | 25 | 21 | |
| HB | 125 | 190 | 250 | 270 | 300 | 180 | 275 | 300 | 350 | 200 | 325 | 200 | 240 | 180 | 180 | 260 | 160 | 250 | 130 | 230 |
| Recommended | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |

| ISO | N | | | | S | | | | | H | | | | | | | | | | | |
|-------------|------------------------|-----|------------------------|----|---|-----|----|------------------------|----|-----------------------------|-----|-----|-----------------|----------------|-------------------|--------------------|--------|-----|-----|-----|-----|
| | Aluminum-wrought alloy | | Aluminum-cast, alloyed | | Copper and Copper Alloys (Bronze / Brass) | | | Non Metallic Materials | | Heat Resistant Super Alloys | | | Titanium Alloys | Hardened steel | Chilled Cast Iron | Hardened Cast Iron | | | | | |
| VDI 3323 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| HRc | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| HB | 60 | 100 | 75 | 90 | 130 | 110 | 90 | 100 | | | 200 | 280 | 250 | 350 | 320 | 400Rm | 1050Rm | 550 | 630 | 400 | 550 |
| Recommended | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ |

| | | | | | TTS31 | TTS33 | TKS35 | TTS37 |
|----------|----------|---|---------|-----|------------|-------|-------|-------|
| ISO | VDI 3323 | Material Description | HB | HRc | Vc (m/min) | | | |
| P | 1 | Non-alloy steel | 125 | | 41-46 | 41-46 | 41-46 | 41-46 |
| | 2 | | 190 | 13 | 41-46 | 41-46 | 41-46 | 41-46 |
| | 3 | | 250 | 25 | 35-40 | 35-40 | 35-40 | 35-40 |
| | 4 | | 270 | 28 | 28-33 | 28-33 | 28-33 | 28-33 |
| | 5 | | 300 | 32 | | | | |
| | 6 | Low alloy steel | 180 | 10 | 28-33 | 28-33 | 28-33 | 28-33 |
| | 7 | | 275 | 29 | 28-33 | 28-33 | 28-33 | 28-33 |
| | 8 | | 300 | 32 | | | | |
| | 9 | | 350 | 38 | | | | |
| | 10 | High alloyed steel, and tool steel | 200 | 15 | | | | |
| | 11 | | 325 | 35 | | | | |
| M | 12 | Stainless steel | 200 | 15 | 18-23 | 18-23 | | 18-23 |
| | 13 | | 240 | 23 | 13-18 | 13-18 | | 13-18 |
| | 14 | | 180 | 10 | 10-14 | 10-14 | | 10-14 |
| K | 15 | Grey cast iron | 180 | 10 | 28-33 | 28-33 | 28-33 | |
| | 16 | | 260 | 26 | | | 13-18 | |
| | 17 | Nodular cast iron | 160 | 3 | 28-33 | 28-33 | 28-33 | |
| | 18 | | 250 | 25 | | | 13-18 | |
| | 19 | Malleable cast iron | 130 | | | | 28-33 | |
| | 20 | | 230 | 21 | | | 13-18 | |
| N | 21 | Aluminum-wrought alloy | 60 | | | | | 28-33 |
| | 22 | | 100 | | | | | 28-33 |
| | 23 | Aluminum-cast, alloyed | 75 | | 41-46 | 41-46 | 41-46 | 41-46 |
| | 24 | | 90 | | 41-46 | 41-46 | 41-46 | 41-46 |
| | 25 | | 130 | | 30-35 | 30-35 | 30-35 | 30-35 |
| | 26 | | 110 | | 45-50 | 45-50 | | |
| | 27 | Copper and Copper Alloys (Bronze / Brass) | 90 | | | | | |
| | 28 | | 100 | | 25-30 | 25-30 | | 25-30 |
| | 29 | | | | | | | |
| | 30 | Non Metallic Materials | | | | | | |
| S | 31 | Heat Resistant Super Alloys | 200 | 15 | | | | |
| | 32 | | 280 | 30 | | | | |
| | 33 | | 250 | 25 | | | | |
| | 34 | | 350 | 38 | | | | |
| | 35 | | 320 | 34 | | | | |
| | 36 | Titanium Alloys | 400 Rm | | | | | |
| | 37 | | 1050 Rm | | | | | |
| H | 38 | Hardened steel | 550 | 55 | | | | |
| | 39 | | 630 | 60 | | | | |
| | 40 | Chilled Cast Iron | 400 | 42 | | | | |
| | 41 | Hardened Cast Iron | 550 | 55 | | | | |

THREAD MILLS

SYNCHRO TAPS

COMBO TAPS

YG TAP GENERAL

YG TAP STEEL

YG TAP HARDENED

YG TAP INOX

YG TAP CAST IRON

YG TAP ALU

YG TAP Ti Ni

YG TAP FORMING

NUT TAPS

STI TAPS

PIPE TAPS

TECHNICAL DATA