



**Cutting Tools**



**STOCK RANGE**

## HISTORY

**Established: 1918**

### Historical Background

The French Engineering Works is a family business which was established in 1918 to manufacture Rock Drill spares for the mining industry in Johannesburg. The founder, Herman Moser, soon expanded into precision tools, including HSS cutting tools for the metal industry. His Swiss origins instilled a pride in quality and precision which persists to the present day.

Recognising the positive impact of specialisation on quality, Herman's sons restructured the diverse business in mid-century. The sharp focus on threading and decades of technical and market development, led to the recognition of FEW Taps and Dies in over forty countries. Distribution depots were strategically located to service major industrial regions in both domestic and international markets.

Customer demand for a wider range of FEW quality cutting tools led to an ongoing search for focused manufacturers of complementary products. Today, over twenty specialists on five continents manufacture complementary products specified by FEW.

The appointment of exclusive agents, together with the technical and commercial support of FEW have led to FEW Cutting Tools being specified worldwide by discriminating end-users who insist on quality and value for money.



1920's



1940's



Present Day



Head Office

## HAND TAPS

### Standard Set

General purpose hand tapping. Available in most threadforms, also in LH and long reach.

ISO 529  
JIS B4430  
DIN 371/6/4  
ISO 2284

### Serial Sets

The progressive truncated threadform is especially suited for tough materials such as stainless or high tensile steels.

ISO 529

### Pilot Serial Sets

Precision tapping in tough materials. The Pilot Serial Set has a pilot to help start the thread concentrically, thus allowing accurate hand tapping.

ISO 529

0420 / 0720 / 0720P



0220 and 0320



1220 - BF SP



1221 - ST SP



1223 - TiN SP



4220 - BF SF



4221 - ST SF



4223 - TiN SF



3220 - BF SF 15°



3223 - TiN SF 15°



## GENERAL PURPOSE MACHINE TAPS

### Straight Flute Taps

For machine tapping in long or short chipping materials. Available in most threadforms, also in LH and long reach.

ALL NORMS

### Spiral Point Taps for Through Holes

General purpose especially non - ferrous.

ALL NORMS

General purpose steels.

ALL NORMS

Abrasive materials and high speed tapping.

ISO/DIN/JIS

### Spiral Flute Taps for Blind Holes

General purpose especially non - ferrous materials.

ALL NORMS

General purpose steels.

ALL NORMS

For abrasive materials or higher speeds.

ISO/DIN/JIS

For tougher non - ferrous materials.

DIN 371/376

For tough abrasive materials or higher speeds.

DIN 371/376

## SPECIAL APPLICATION TAPS FOR THROUGH HOLES

For soft steels, < 450 N/mm<sup>2</sup>.

DIN 371/376

For alloyed and unalloyed steels, 450 - 1000 N/mm<sup>2</sup>.

DIN 371/6/4  
DIN 5156

For very tough materials over 1000 N/mm<sup>2</sup>.

DIN 371/376

For stainless steels.

DIN 371/376

For soft aluminium, magnesium, copper etc.

DIN 371/376

For tough non - ferrous metals.

DIN 371/376

YELLOW RING SP ST 1221SO



ORANGE RING SP 1221OR



RED RING SP 1224HR



BLUE RING SP 1221IN



YELLOW RING SP BF 1220AL



GREEN RING SP 1220AS



YELLOW RING SF ST 4221SO



ORANGE RING SF 4221OR



ORANGE RING SF15° 3221OR



RED RING SF 5224HR



BLUE RING SF 5221IN



YELLOW RING SF BF 5220AL



GREEN RING SF 5220AS



WHITE RING STR FL NI 0222GG



WHITE RING STR FL TIN 0223GG



6220 / 6220G



0924R / 0924H / 0924S



## SPECIAL APPLICATION TAPS FOR BLIND HOLES

For soft steels, <math> < 450 \text{ N/mm}^2 </math>.

DIN 371/376

For alloyed and unalloyed steels, 450 - 750 N/mm<sup>2</sup>.

DIN 371/6/4  
DIN 5156

For alloyed and unalloyed steels, 450 - 1000 N/mm<sup>2</sup>.

DIN 371/376

For very tough materials over 1000 N/mm<sup>2</sup>.

DIN 371/376

For stainless steels.

DIN 371/376

For soft aluminium, magnesium, copper etc.

DIN 371/376

For tough non - ferrous metals.

DIN 371/376

## FOR THROUGH AND BLIND HOLES

For use in abrasive short chipping applications, such as cast iron.

DIN 371/6/4  
DIN 5156

For higher speed tapping in abrasive short chipping applications.

DIN 371/376

### Polygon Taps (Roll Taps)

Roll threading of ductile materials.  
With oil grooves for deep or blind holes.

ISO/DIN

### Nut Taps

R - Nib. For soldering onto bentshank.  
H - Nib. For butt welding onto bentshank.  
S - Nib. For joining with metal collar onto bentshank.

FEW NORM  
FEW NORM  
FEW NORM

### Special Taps

Taps made to customer Specifications.  
(from blanks or special)

ISO  
DIN  
JIS  
SPEC

### Flat Thread Rolling Dies

A wide range of ground thread Flat and Huck Rolling Dies made to order.

TO CUSTOMER  
DRAWING

### Circular Thread Rolling Dies

Ground thread plunge (helical) or through feed (annular and helical) dies made to order.

TO CUSTOMER  
SPECIFICATIONS

### HSS Standard Circular Dies

Solid dies for general purpose threading of most threadforms. Ground chamfer with lapped threads. Also available in LH, Split and Spiral Entry.

DIN EN22568  
DIN EN24231  
DIN EN24230  
BS 1127

### HSS Standard Hex Die Nuts

For general purpose repairing or cleaning of threads. Also available in LH.

DIN 382 /  
IMPERIAL



**Die Stocks**

To suit circular dies for hand threading.

**DIN 225  
IMPERIAL**

**Tap Wrenches**

Heavy duty forged steel for high torque applications.

**DIN 1814**

**Ratchet Wrenches**

For general purpose tapping.

**2 - 6mm  
6 - 12mm**

**FEW Cutting Compound and Aerosol**

Reduce tool wear, improve tool life.

**300ml  
½ ltr  
2½ ltr  
20 ltr**

**Thread Restorers**

Restores damaged threads, right or left hand

**METRIC AND  
IMPERIAL**

**Screw Pitch Gauges**

For gauging of pitch, other thread gauges available.

**METRIC AND  
IMPERIAL**

**Screw Plug Gauges**

Available in most popular threadforms, or against special request.

**DOUBLE ENDED**

**Screw Ring Gauges**

Available in most popular threadforms, or against special request.

**GO or  
NO GO**

**HSS / HSSE - Co8 Toolbits**

Available in square, round and rectangular for standard and tougher applications.

**ISO 5421**

**HSSE - Co8 Parting Blades**

Double bevel parting blades for parting applications.

**DOUBLE BEVEL**

**HSSE - Countersinks 90°**

Used in the execution of counter-sinking. Available in Hollow Type, Single Flute and Three Flute

**STRAIGHT SHANK  
AND MTS**

**Keyway Broaches**

Available individually or in sets, as well as bushings. Metric or Imperial

**AMERICAN  
STANDARDS**

**Recoil Thread Repair Kits**

Consists of HSS Tap, Tang breakoff / Inserting tool, Inserts and instructions. Available in most popular threadforms.

**METRIC  
AND  
IMPERIAL**

**Wire Thread Inserts**

Available in most popular threadforms. In 1D, 1.5D, and 2D length

**METRIC  
AND  
IMPERIAL**

**Drill Re-Sharpening Machines**

3 - 13mm (118° ~ 135°)  
12mm - 26mm (90° ~ 140°)  
Complete with metal collets and CBN grinding wheels

**YD-313  
YD-1226**





**HSS Jobber Drills - 277**  
Bright finish ground flute for general purpose drilling. (118°) **DIN 338**



**HSS Jobber Drills - 278**  
Steam tempered black finish for drilling in steel where cold welding is a problem. **DIN 338**



**Cobalt Heavy Duty Drills - 287**  
HSS - Co drill with Gold Oxide finish and 135° Split Point for heavy duty applications in tough materials. **DIN 338**



**Parabolic Jobber Drills - 297**  
Bright Finish HSS-Co drill with parabolic ground flutes and a 130° Split Point for high production and precision applications. **DIN 338**



**Long Series Drills - 285**  
A general purpose bright finish HSS ground flute drill for long reach or deep hole applications. (118°) **DIN 340**



**Parabolic Long Series Drills - 298**  
A Bright Finish HSS - Co LS drill with parabolic ground flutes and 130° Split Point for high production and precision long reach applications. **DIN 340**



**Extra Long Series Drills - 375/376/377/378/379**  
A Bright Finish HSS ground flute drill for general purpose long reach applications. **BASED ON DIN 1869**



**Single Ended Stub Drills - 282**  
A shorter rigid HSS drill with Bright Finish ground flutes for general purpose applications. (118°) **DIN 1897**



**Parabolic Flute HSS Co Stub Drills - 296**  
A shorter rigid HSS - Co drill with Bright Finish parabolic ground flutes and 130° Split Point for high production and precision applications. **DIN 1897**



**Double Ended Stub Drills - 283**  
135° Split Point for thin material applications. **135° SPLIT POINT**



**HSS 60° Centre Drills - Type A**  
Centre Drill for general purpose centering applications. **DIN 333 / BS 328 TYPE 291 / 292**



**HSS 60° Centre Drills - Type B**  
The double angle countersink produces a 60° protected center. **DIN 333 TYPE 293**



**HSS 60° Centre Drills - Type R**  
The radius on the countersink produces a protected centre to accommodate a variety of male centre angles. **DIN 333 TYPE 294**



**HSS - Co NC Spotting Drills - 289/290**  
An alternative to centre drills. (90°/ 120°) **DIN 1897**



**Reduced Shank Drills - 295**  
For general purpose drilling. **FEW NORM**



**Morse Taper Shank Drills - 280**  
For general purpose applications. **DIN 345**



**Morse Taper Extension Sockets**  
To extend spindle length, for a variety of MTS size combinations. **TYPE 271 ES DIN 345**



**Morse Taper Reduction Sleeves**  
To reduce machine morse taper size to suit drill. **TYPE 271 DS DIN 345**



**Metal Drill Box Sets**  
Available in a variety of combinations. **METAL CASES**



### HSS Parallel Shank Hand Reamer

For general purpose hand reaming to H7 tolerance.

DIN 206  
BS 328



### HSS Parallel Shank Chucking Reamer

For general machine reaming to H7 tolerance.

DIN 212  
BS 328



### HSS MTS Shank Chucking Reamer

For general machine reaming to H7 tolerance.

DIN 208  
BS 328

## HSS / HSSE Co 8 CUTTER RANGE

### HSS / HSSE Co8 - 2 Flute End Mills

HSS For plunging in slots or keyways in general purpose applications.  
HSSE Co8 for tough materials or high production.

DIN 327  
BS 122

### HSSE - Co8 - 2 Flute Ball Nose

For plunging radiused slots and keyways in tough materials and general purpose applications.

DIN 327  
BS 122

### HSSE - Co8 - 3 Flute End Mills

These are flexible multi - purpose tools for plunging, slotting and profiling in tough materials and general purpose production applications.

DIN 844  
BS 122

### HSS / HSSE Co8 - Multi Flute End Mills

HSS for profiling in general purpose applications.  
HSSE Co8 for profiling in production applications in tough materials, yet are flexible in being able to plunge and slot due to their centre cutting characteristics.

BS 122  
BS 122

### HSSE - Co8 - Roughing Cutters

Coarse knuckle profile for high speed metal removal.

BS 122

### T - Slot Cutters

For cutting a T - slot in a previously milled slot.

FEW NORM

### Woodruff Cutters

For cutting a seat for woodruff keys.

DIN 850

### Dovetail Cutters

For cutting dovetail slides.

FEW NORM

### Inverted Dovetail Cutters

For cutting the inverse section of a dovetail slide.

FEW NORM

### Corner Rounding Cutters

For cutting a radius on a corner.

DIN 6518D

Please Note: All HSSE - Co8 and HSS Cutters are also available in Flatted Shank versions.



#### **FEW HEAD OFFICE AND FACTORY:**

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**YOUR LOCAL FEW STOCKIST**