



Highlights

**Certainty
at every turn™**



HOLEMAKING	High-speed steel drills	4-5
	Carbide drills	6-7
	Versatile solid carbide drills	8-9
	Hydra drills	10-11
	Indexable drills	12
	Roughing and finishing tools	13
TURNING	External ISO turning	14-15
	Internal ISO turning	16-17
	Grooving and parting-off	18-19
	Thread turning	20
	Broaching	21
THREADING	Threading sets	22
	Threading	23
	Shank taps	24-25
	Carbide taps	26
	Thread milling cutters	27
MILLING	Solid carbide milling cutters	28-29
	HSS end mills	30-31
	Shoulder mills	32-34
	Face mills	35
	High-feed milling cutters	36-37
	Slot and chamfer milling cutters	38
	Copy milling cutters	39
	Rotary burrs	40-41
TOOLING	Tooling systems and accessories	42
SPECIALIST SECTORS	Our industry expertise	43
	Cabinet vending solutions	44-45

Over 100 years of experience

**A leading global supplier of metal cutting tools
and related services.**

We have more than 100 years' experience, specializing in the manufacture of industrial cutting tools. Our range extends to around 30,000 standard product lines. Our products solve many engineering challenges across a wide range of industry sectors.

This experience and expertise gives our customers confidence in our ability to deliver.

Find out more about us on our website:



3

Global
manufacturing
centres



100

Countries



2K+

Employees



21

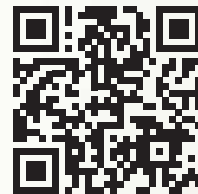
Sales offices



100+

Years
of experience

High-speed steel drills



Dormer Pramet's famous HSS and HSS-E drills are available in a range of types to suit every requirement and application.

These drills are available separately, or in sets. The most popular sets are A095201 and A095204, but we have many more to choose from. For example A095209, which includes 1 – 10 mm with drills in 0.1 mm increments.

The PFX series is the obvious choice for the most demanding drilling applications, such as deep holes.

These are some of our best known items, but we offer more HSS and HSS-E products too; step drills, countersinks, reamers, centre drills, etc.

Features and benefits:

- Made of high-grade or cobalt-alloyed high-speed steel.
- Versatile for use in most materials.
- TiN, TiAlN or Alcrona coating depending on the drill type.



A095201-A095204

HSS jobber drill set with A002 drills, TiN-tip coated.



A095209

HSS jobber drill set with A002 drills, TiN-tip coated.

The unique tip design allows the drill to remove far more material per unit of time and with greater precision than a standard drill.

The ADX is the obvious choice for your CNC machine when you need a robust drill that can handle slightly unstable conditions where carbide drills are not viable.



A553
ADX HSS-E
(5% cobalt)
jobber drill, TiAlN
Top coated with
coolant feed.



A321
HSS, Steam and
Bronze Tempered
Surface Finish.
Heavy duty design
drill with three-flat
shanks for medium
depth holes.



A002
Our popular
standard drill with
TiN-coated tip.
These drills can
be used on most
materials and cut
smoothly, which
enhances tool
performance and
allows them to
work faster than
conventional drills.



A777
HSS-E Jobber
length drill with
straight shank
with bronze finish
for 4xD drilling.



A920
PFX HSS-E
(5% cobalt)
stub drill, bright
finish. Used
for drilling
long chipping
materials.



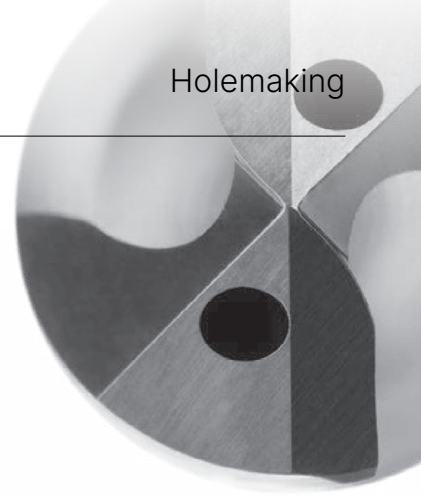
Carbide drills

Our Force series of drills are our most productive drills, designed for production drilling in controlled machines where efficient and reliable cutting and long tool life are required.

Force X Generation 2 – the perfect solution for demanding drilling applications. Available in both through-coolant and solid versions, this series includes 3xD, 5xD and 8xD for different drilling depths.

Force Deep Hole Drills (DHD) - designed for high-performance deep hole drilling up to 12xD, 16xD, and 20xD. These solid carbide drills feature a 140° point angle and optimized web design for rapid penetration and superior positional accuracy without pecking.

Force Micro drills deliver exceptional performance for micro applications with diameters ranging from 0.7 to 2.95 mm.



RC305
FORCE Micro
solid carbide
5XD drill with
coolant feed,
AlCrN coated.



RC403
FORCE X solid
carbide 3XD
drill with coolant
feed, TiAlN-Top
coated.



RC405
FORCE X solid
carbide 5XD
drill with coolant
feed, TiAlN-Top
coated.



RC408
FORCE X solid
carbide 8XD
drill with coolant
feed, TiAlN-Top
coated.



RC412
FORCE Deep
Hole solid
carbide 12XD
drill with coolant
feed, Nano-Tip
coated.



RC4P
FORCE Pilot
solid carbide drill
2xD with coolant
feed, Multi TiAlN
coated.

Versatile solid carbide drills

Our versatile solid carbide drills with TiN tip coating – is general purpose, versatile solid carbide jobber and stub drills with a TiN tip coating.

New design features result in excellent tool life, low cost per hole and high tool life consistency.

The R003 and R023 also offer low thrust force making them versatile for both CNC and conventional machines operations.





R023

- Solid carbide jobber drill
- Versatile, cost-effective
- Metric range: 1–14 mm
- Imperial range: N60–1/2"



R003

- Solid carbide stub drill
- Versatile, cost-effective
- Metric range: 1–12mm

HYDRA drills

Combining high precision with versatility, our Hydra drills are the ideal solution for series production with short stoppages, as the drill head can be swapped easily.

The Hydra's hardened steel drill bodies are made for 1.5D, 3xD, 5xD, 8xD and 12xD depths.

The carbide heads are available in diameters from 11.91 to 42 mm.

Features and benefits:

- Consistent high performance after a large number of head swaps.
- Reduced inventory costs.
- Versatile



H851, H853, H855, H858

HYDRA body, 1.5xD-8xD, with coolant feed, nickel plated.



R950, R960

R950 is designed for steel.
R960 is designed for stainless steel.



H8512

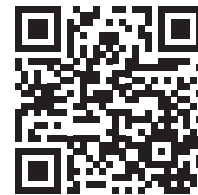
HYDRA body
12XD, with coolant
feed, nickel plated.



Holemaking



Indexable drills



Indexable drills are a type of drill that can cope with drilling operations that are impossible for regular drill types, such as drilling on convex and inclined surfaces, cross hole drilling, enlarging existing holes, etc.

Our indexable drills are available with indexable inserts for steel, stainless steel and cast iron.

Features and benefits:

- Universal tools that can cope with lots of different drilling operations.
- Efficient, with high cutting capacity.
- Inserts are available for steel, stainless steel and cast iron.
- Inserts have 4 cutting edges providing greater economy.

XPET

SD geometry with positive and negative design for central inserts.



SCET

UD geometry with positive and negative design for periphery inserts.



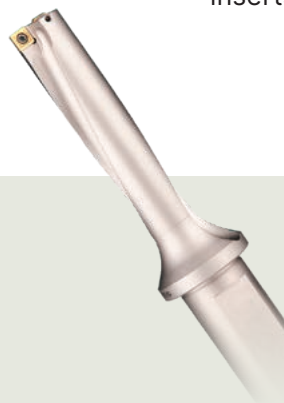
802D

2xD 802D indexable insert drill body with internal coolant feed.



803D

3xD 803D indexable insert drill body with internal coolant feed.



804D

4xD 804D indexable insert drill body with internal coolant feed.



805D

5xD 805D indexable insert drill body with internal coolant feed.

Roughing and finishing boring heads



Dormer Pramet offers a wide range of boring heads, both roughing tools and finishing tools, for producing diameters from 8 mm to 500 mm.

Tool shanks and extenders are also available, of course, in addition to the boring heads. Moreover, all these tools are available in complete sets.

Features and benefits:

- Wide range of boring heads and accessories.
- Diameters from 8 to 500 mm.
- 75° entry angle for through holes.
- 90° angle for blind holes.



F75 / F90

75° finishing boring head, small bore – Ø24 up to Ø82 mm.



D75-C / D90-C

75° roughing boring head, medium bore – Ø80 up to Ø220 mm.



D75-BB / D90-BB

75° roughing boring head, large bore – Ø220 up to Ø500 mm.



BORING HEAD SETS

External ISO turning

The Dormer Pramet turning range includes inserts and tool holders for all types of external turning applications.

Our indexable inserts are designed using state-of-the-art technology, in terms of both geometry and grade.

Our chipbreakers are designed for and adapted to the materials they will be used to machine. The best inserts for your turning operations can all be found here.

Features and benefits:

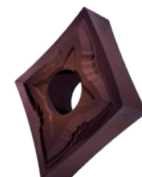
- Wide range of tool holders and indexable inserts.
- Varieties developed using state-of-the-art technology.
- Efficient chipbreakers suitable for all types of workpiece materials.



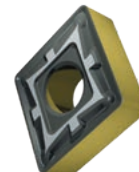
**CNMG
190616E-NMR:
T8430**



**CNGG
120402E-SF:
T8415**



**CNMG
120408E-M:
T9425**



DDJNR 2525 M 15

External double clamp turning holder with 93° cutting angle for DN.. insert



PCLNR

External lever lock turning holder with 95° cutting angle for CN.. insert.

Turning grades

PVD

T8415

A top-performance grade with a wide range of applications for machining steels, including heat-treated steels, stainless steels, and heat-resistant super alloys (HRSA). It is the ideal choice for both stable and unstable machining conditions and a wide range of feed rates.

T8430

An exceptionally tough variant for a wide range of machined materials. Thanks to its durability, it is the most suitable choice for demanding conditions with a risk of vibrations or interrupted cuts.

MT-CVD

T9415

A grade designed for steel turning, representing the first choice for maximum productivity and the highest cutting speeds. It delivers improved stability in unstable conditions and during minor cut interruptions-especially when operating at high cutting speeds that sustain high temperatures.

T9425

The new generation of MT-CVD coatings. It is the first choice for universal turning. Suitable for machining both steels and stainless steels in continuous and interrupted cuts. Designed for medium to high cutting speeds.

MT-CVD

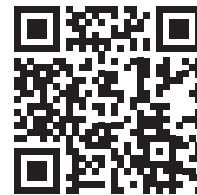
T7325

A turning grade offering an optimal balance between wear resistance and toughness. It is specially developed for machining stainless steels. Thanks to the applied geometries, it is also suitable for machining low-carbon steels and superalloys.

T7335

Is grade with functionally graded substrate, featuring very high operational reliability and very good wear-resistance. It is best suited to use in the machining of very tough M20 – M40 materials.

Internal ISO turning



Internal turning often places greater demands on the tool than external turning.

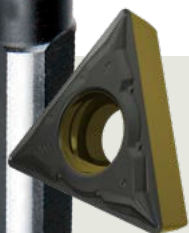
Chipbreaking and chip evacuation have to be as efficient as possible.

Dormer Pramet offers boring bars for almost all internal turning applications.

Features and benefits:

- Tool holders are available for most turning applications.
- Smooth cutting geometries that reduce the risk of vibration.
- Innovative chipbreakers reduce the risk of chip “nesting”.
- Boring bars available with internal coolant to help with cooling and chip evacuation.

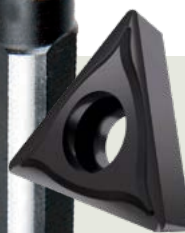
TCMT 110204E-FM: T9415



FM geometry for finish to semi-rough machining of steel, stainless steel and cast iron, and in continuous to slightly interrupted cuts.

A16R-STFCR 11

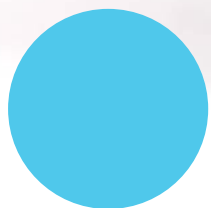
TCGT 110204E-NF1: T6310



NF1 geometry with positive design for fine-finish to semi-rough machining in stainless steel and superalloys, also suitable for steel, hardened materials and non ferritic materials. For continuous machining.

A20S-STFCR 11

Internal screw lock boring bar with 91° cutting angle for TC.. insert.



Grooving and parting-off



All kinds of inserts and tool holders for parting-off can be found here, including both solid holders and blade type tools for mounting on tool blocks.

Our tools can be used for both internal and external grooving.

Features and benefits:

- Wide range of inserts with one or more edges for better economy.
- Insert types that can also be used for forming and longitudinal turning.



**X610602-100R:
G8330**

P61.SFR-2020K-06

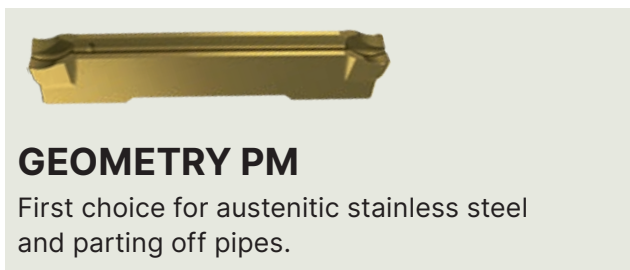
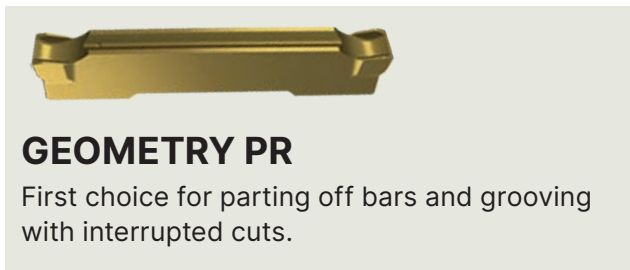
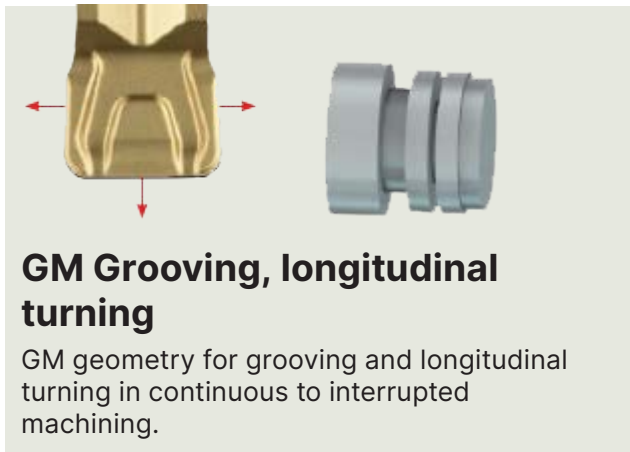
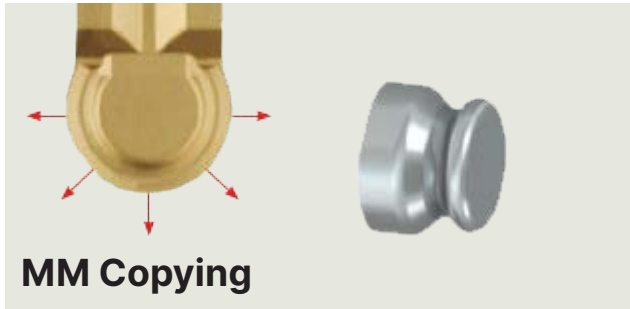
External grooving tool holder
for X61 circlips
and O-ring inserts.



**X610602-080R1:
6640**

P61(RL)-1 INT

Internal circlip grooving
boring bar for X61-1
insert.



Thread turning

The Dormer Pramet range includes indexable inserts and tool holders for both internal and external turning of the most common thread forms.

Features and benefits:

- Wide range of insert types.
- Full and partial profile inserts.



TN16NL100M:T8030

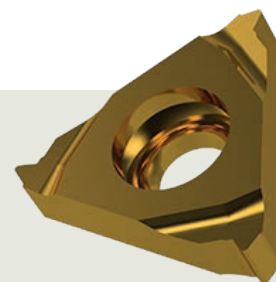
SIR 2325 Q 16

Internal screw clamped threading holder for TN 11, 16 or 22 insert.



SER 2525 M 16

External screw clamped threading holder for TN 16 or 22 inserts.



TN16ER100M:T8030

Broaching

The Dormer Pramet turning catalogue also includes tools for broaching keyways.

These can be found under Broaching.

Features and benefits:

- Single or double-edged indexable inserts.
- Several insert widths to choose from.
- Suitable insert holders are available as part of the programme.



HZ1006-60 C11



HZ-2



PHZ 1512-10



Threading sets

As with the drills, Dormer Pramet also has a number of different variants of threading sets.

The smaller ones also come with suitable drills, making life easier for machinists and skilled workers – you always have all the tools you need to hand.

The more extensive sets also include tap wrenches and dies with associated die stocks.

Features and benefits:

- Wide range of combinations and thread forms.
- Choose from straight flute universal hand taps, spiral point or spiral flute machine taps or straight flute serial taps.



Drill and tap set

Set of EP/EX or Shark line taps with A002 or A108 drills.



Threading sets for hand tapping

Set of taps, dies and tap wrenches, various sizes.



Threading



Dormer Pramet is famous for offering an enormous range of machine taps for almost all available tapping systems.

Here you can choose from the traditional HSS taps, such as the straight fluted E500 (which can also be used for manual tapping), to more advanced EX-type spiral flute taps or EP-type spiral point taps.

The latter are made of cobalt-alloyed high-speed powder steel, HSS-E PM, which combines high wear resistance and heat resistance with outstanding toughness.

Features and benefits:

- Wide range of tap types and dimensions.
- Made of high-grade HSS, HSS-E or HSS-E PM high-speed steel.
- Universal – can be used for threading most materials.



EP006H

HSS-E-PM spiral point machine tap, metric fine, DIN standard.



EX01

HSS-E-PM 45° spiral flute tap, metric, DIN standard, steam tempered.



E398

HSS-E-PM spiral flute tap, DIN standard, TiCN coated.



E500

HSS straight flute hand taps, Metric, ISO standard.



EX00

HSS-E-PM 45° spiral flute tap, metric, DIN standard, with bright finish.

SHARK taps

Our material-specific DIN taps, known as SHARK LINE, are renowned for their high performance and are easy to recognise thanks to the colour rings indicating the material type(s) for which they are designed.

Features and benefits:

- The colour ring on the shank indicates suitability for specific materials and makes tool selection quick and easy.
- The edges of the machine taps with spiral flute are specially treated in order to enhance edge strength and reduce the risk of chipping. This significantly increases the service life of the taps.
- Designed to control chip evacuation - reduces the risk of chips "bird nesting".





E412
Structural,
plain carbon
& low alloy
steels



E261
Alloy
steels



E335
High
strength
steels



E414
Stainless
steels



E390
Cast
irons



E474
Non-ferrous
materials



Carbide taps



Dormer Pramet carbide taps are available in straight flute, spiral flute and forming tap styles.

Our forming taps are suitable for most types of material with sufficient flow properties.

These taps offer outstanding abrasion resistance and are suitable for CNC machines.

Features and benefits:

- Robust design and high abrasion resistance.
- Superior performance.
- Suitable for hard and abrasive materials.
- Also available as a thread forming tap for malleable materials.

T205

Carbide 15° spiral flute machine tap, metric, DIN standard. The 15° spiral flute makes it great for threading blind holes.



T210

Carbide straight flute machine tap, with TiCN coating, metric, DIN standard. TiCN-coated for superior performance.



T215

Carbide thread forming tap, metric, DIN standard. The carbide provides superior performance.



Thread milling cutters



Thread milling is a useful alternative where the material can cause problems when creating threads with taps.

The milling cutters can be used to produce the preferred thread tolerance, and in the event of a breakage, the pieces can be picked out of the hole without destroying the workpiece.

These thread milling cutters are available for common thread forms M, MF, UNF/UNC, G and NPT.

Features and benefits:

- Superior performance.
- Can produce right or left-handed threads.
- Full thread form all the way down to the bottom of the hole.
- Multiple thread dimensions with the same pitch are possible with the same milling cutter.
- Economical alternative to large tap sizes.

J200

Solid carbide thread milling cutter with countersink, metric. Alcrona Pro-coated for best results in a variety of materials.



J215

Solid carbide thread milling cutter with high helix and through coolant, metric. Through coolant for better chip evacuation and with 27° helix for smoother operation.



J260

Solid carbide thread milling cutter, NPT. Alcrona Pro-coated for best results in a variety of materials.



Solid carbide milling cutters

Our solid carbide milling range includes end mills for the most common operations and material types.

This range includes everything from economical options when you don't need specific application tools, to top quality, high performance tools for when function and quality are crucial.

Features and benefits:

- Wide selection of cutting lengths depending on application.
- Milling cutters are available for dynamic milling.
- Unequal flute designs reduce vibration and improve surface finish.

**S216**

For stainless steels,
superalloys.

**S521**

End mills for
hardened tool steels.

**S654**

High-performance
end mills for
aluminium alloys.



S768

Suitable for most material groups.



S802HA

A range of versatile end mills that can handle most material types.



S933

An economical option with 2-, 3- and 4-cut end mills, also available in sets.

HSS end mills



Premium Carbide material - carbide provides superior performance and extends tool life

Smart choice - an economical range for general milling of slots on most types of machines

2 Flute / 3 Flute / 4 Flute

Versatile product - can be used for plunging, ramping and profile milling in steel, stainless steel and cast irons



C110

Bright finish - prevents work piece material from sticking to the cutting edge.



C126

Titanium Carbo Nitride Coating - increases service life of the tap, improved performance when threading hard and abrasive materials.



C353

Alcrona Coating - increases service life of the milling cutter, improved performance when milling difficult to machine materials.



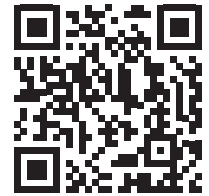
Shoulder mills

Dormer Pramet has always offered a very wide range of indexable cutting tools.

These include shoulder mills, which come in a range of types - from smaller, double edge end mills such as the SAD07D with ADMX inserts to the impressively deep shoulder mills such as the J(T)-SSAP.

Features and benefits:

- Wide range of true 90° shoulder mills.
- Several mounting options, e.g. cylindrical, modular and arbor style.
- Wide range of inserts that can be used to machine most materials.
- Wide range of nose radii, 0.4-5.0 mm.
- Economical double-sided insert types are available, e.g. LNGX.



ADMX inserts

Available in sizes 16, 11 and 07.



J(T)-SSAP

Long edge end mill for AP.15 and SP.12 inserts. Suitable for a variety of applications, including shoulder, face, slot and plunge milling.



SAD11E

FORCE AD11 square shoulder mill with internal coolant. Treated for long tool life.

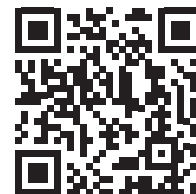


STN16

ECON TN16 square shoulder mill with internal coolant. Treated for long tool life.



Shoulder mills



SAD07D

FORCE AD07 square shoulder mill with internal coolant.



SLN12

ECON LN12 square shoulder mill with internal coolant.

SAD16

FORCE AD16 square shoulder mill with internal coolant.



SLN12X

90° Tangential square shoulder mill with internal coolant.

STD17

90° square shoulder mill with positive design and internal coolant.



Face mills



Our range of face mills also offers a variety of choices based on your needs.

Our face milling range includes everything from smaller 45° end mills to arbor style face mills 315 mm in diameter.

Features and benefits:

- Wide range of positive and negative milling cutter combinations.
- Wide range of indexable inserts that can be used to machine most work materials.
- Economical double-sided insert types are available, e.g. HNGX.

SSD13F

VER SD13 45° face mill with positive design and internal coolant.



SON06C

ECON ON06 43° face mill with double negative design and internal coolant.



SPN13

PENTA HD 57° face mill with double negative design for heavy face milling.



SOE06Z

Universal face mill with positive design and internal coolant.



SHN06C

45° face mill with double negative geometry.



High-feed milling cutters

High-feed milling is a method that is increasingly being used to make machining more efficient.

Dormer Pramet's smooth cutting high-feed milling cutters are available in a range of types, such as modular, cylindrical or arbor style.

Features and benefits:

- Efficient method for productive milling.
- Several mill types to choose from.
- Feed up to 2.5 mm / z.
- Cutting depth up to 2.0 mm.



SSN11

Next generation, high-feed milling cutter for SN.. 11 inserts with internal coolant. Treated for long tool life.



SSO12

Highly versatile 12° high feed mill utilising single sided SO.. 12 style inserts



SBN10

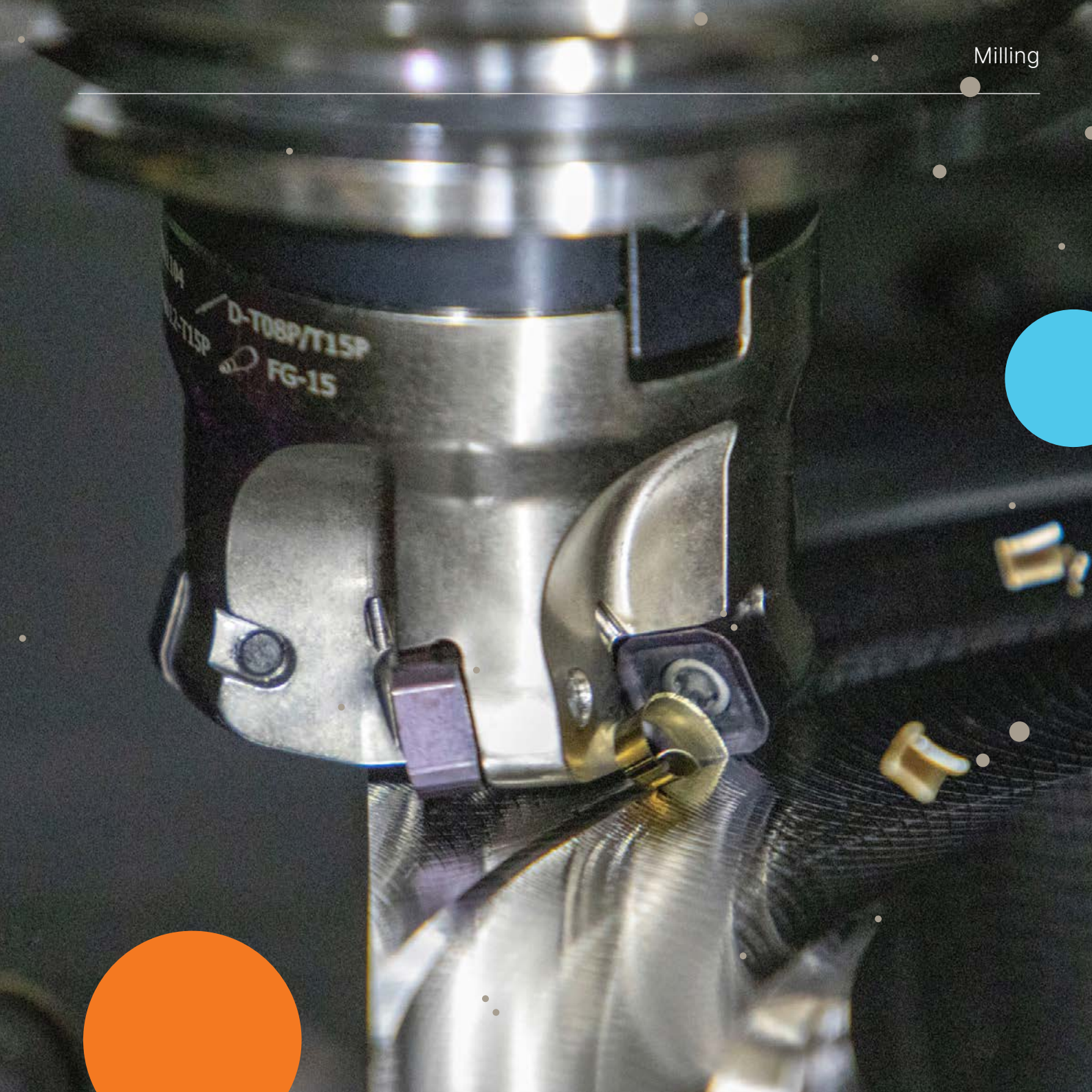
Next generation, high-feed milling cutter for BN.. 10 inserts with internal coolant. Useful for a variety of applications.



SZD09

FEED ZD09 high-feed milling cutter with internal coolant. Treated for long tool life.





Slot and chamfer milling cutters



Dormer Pramet offers a wide range of slot milling cutters and chamfer milling cutters made of HSS or HSS-E, and with indexable inserts.

This range also includes T-slot milling cutters, dove tail and inverted dove tail cutters and profile milling cutters.

Features and benefits:

- Wide range of both HSS and indexable milling cutters.
- Available with adjustable angle.
- Standard angles 15°-75° are also available.

2516

45° chamfer milling cutter for TCMT 16 insert with internal coolant.



SXP16

Long edge chamfer milling cutter for XPHT 16 insert with internal coolant.



C810

HSS T-slot milling cutter. The bright finish prevents workpiece material from sticking to the cutting edges of the tool.



F-SCC

T-slot milling cutter for CCMX insert with internal coolant.



Copy milling cutters



Copy milling is often used to produce mould tools, usually made of tough tool steels.

This places stringent demands on tool geometry and coating so as to achieve the best results and tool life.

Dormer Pramet has a tried and tested range of HSS-E and solid carbide copy milling cutters, as well as indexable milling cutters.

Features and benefits:

- Solid profile milling cutters are available in several lengths in order to reach into complicated moulds.
- Indexable milling cutters offer superior performance.
- Available to accommodate insert sizes 05, 07, 10, 12, 16, 20.

SRD12

Copy milling cutter for round RD.. 12 inserts with internal coolant. Treated for long tool life.



SVC22C

Indexable milling cutters for machining non ferrous materials, with internal coolant.



K2 SRC

Copy and profile end mills, available in cylindrical and modular style, in diameters from Ø8 to Ø32 mm. Treated for long tool life.



SRN 10/12

Copy face mill with double negative geometry which utilises 3 of RN.. 10/12... double-sided inserts

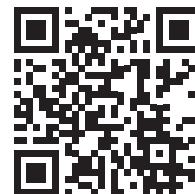
Rotary burrs

Solid carbide burrs are very useful tools for finishing component edges and welded joints, for example.

Our range includes carbide burrs for most applications.

Features and benefits:

- Wide range of burrs for different materials.
- Uncoated and coated variants.
- Unique overlapping cutting geometry.
- Many different shapes to cope with most applications.



P880

Set of rotary burrs in various shapes and sizes.



Rotary burrs for bolt removal

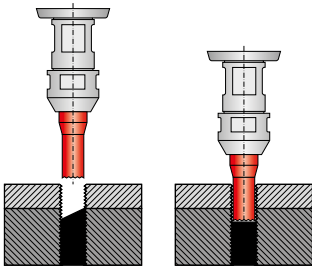
1st stage rotary burr

for broken bolt removal, cylinder with end cut. Used to flatten the surface of the broken bolt. Then use P101 to provide a centre for the subsequent drill. Designed with plain sides to ensure no damage to the thread.



USE

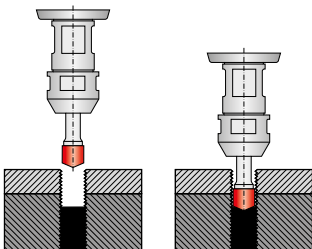
①



STRAIGHT CYLINDRICAL WITH ENDCUT



②

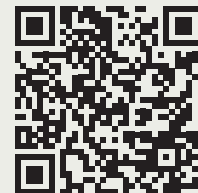


150° COUNTERSINK



HOW TO USE THE TOOL

- Select an appropriate burr size for the bolt
- Use a right-hand rotary sander
- Make sure the burr is aligned with the bolt
- File the fracture surface flat – Operation ①
- Create a centring – Operation ②



Video tutorial
here

Tooling systems and accessories



Find suitable holders for your tools in our comprehensive range of tool holders.

This range includes tool holders for solid and indexable rotary tools, turning tools and all related accessories.

We offer a very extensive range of accessories for our chucks and tool holders, such as collets of various kinds, available individually and in sets.

DIN 69871**MAS 403 BT****PSC**

(Polygonal Shank Coupling)

**DIN 69893 HSK****DIN 2080****MORSE**
(DIN 228-1A)**Adaptors****SIN 69880 VDI****BMT 65****Accessories**

Our industry expertise

Combining product reliability with unrivalled insight



Specialist areas:



Aerospace



Automotive



Die & Mold



Oil & gas

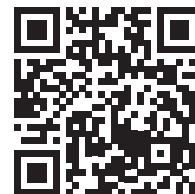


Power generation



Railway

Cabinet VENDING solutions



Managing procurement and checking stock in your warehouse can be time-consuming and complicated, and does not always provide an accurate snapshot of what you actually have - or do not have - in stock.

Dormer Pramet storage cabinets provide a solution that allows you to keep track of what you have in stock and when you need to reorder items.

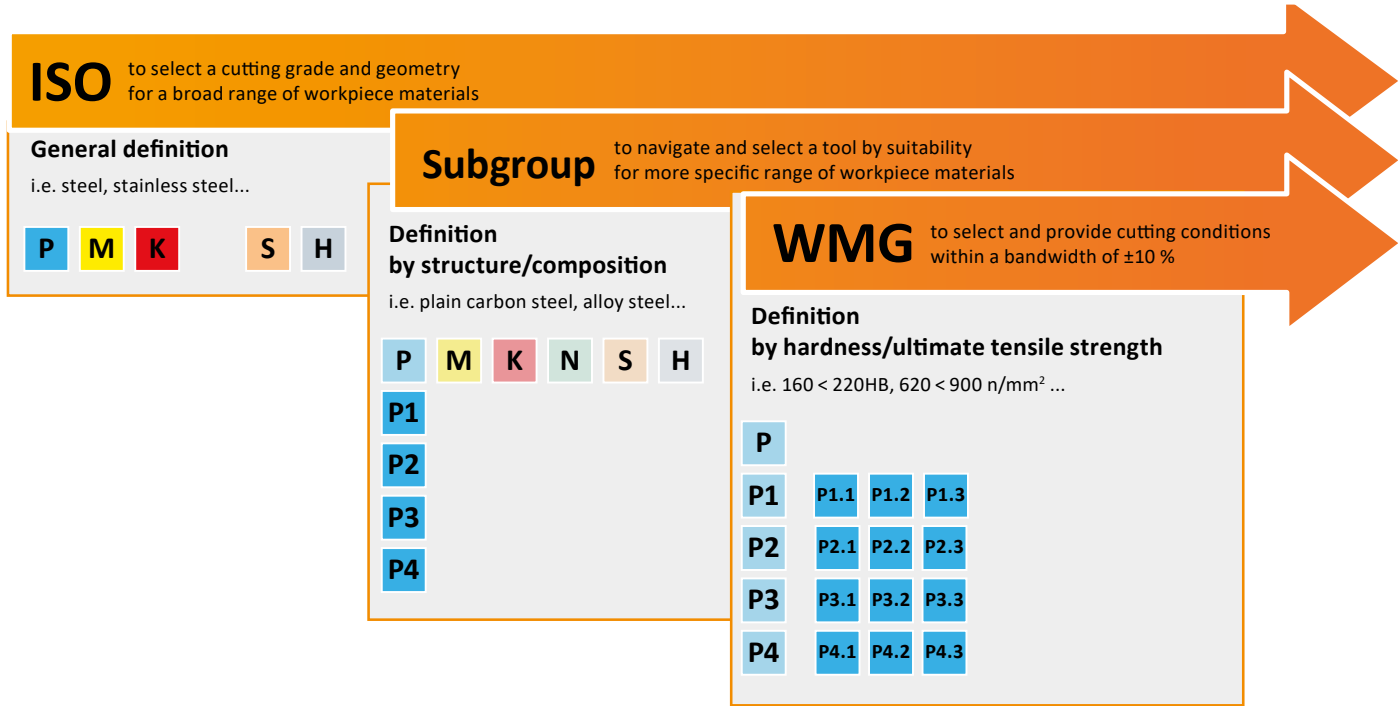
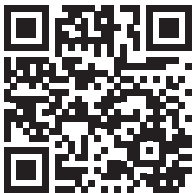
These storage cabinets are available in a number of variants.

Choose the one that best suits your needs.





Workpiece material groups (WMG)



About Dormer Pramet's workpiece material classification

Workpiece material groups ("WMG") are used to support easy and reliable selection of the right cutting tool and starting values for machining conditions in particular applications. Dormer Pramet classifies workpiece materials into six differently coloured ISO groups;

- Blue: Steel and cast steel (P-group)
- Yellow: Stainless steel (M-group)
- Red: Cast iron (K-group)
- Green: Non-ferrous metals (N-group)
- Orange: High-temperature alloys (S-group)
- Grey: Hardened materials (H-group)

Each of these are divided into sub-groups on the basis of their structure and/or composition. For example, P-group steel and cast steel is split into four sub-groups, namely;

- P1 – Free machining steel
- P2 – Plain carbon steel
- P3 – Alloy steel
- P4 – Tool steel

A final division includes material properties, such as hardness and ultimate tensile strength. This is to provide our customers with a complete tool recommendation, including starting values for cutting speed and feed.

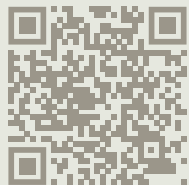


Certainty at every turn



Together we will keep our world turning, now and into the future. We want to help our community feel confident they can get the job done with simplified access to the right advice, tools and training whenever and wherever they need it. Delivering certainty to help our customers achieve their goals today – and be ready for tomorrow.

**Need some help?
Contact sales support**



**Certainty
at every turn™**

Download our apps



Library
app



Calculator
app