DORMER > PRAMET

SELECTED MILLING PRODUCTS OVERVIEW

2023

CUSTOMISED MILLING OFFER

Get to know our **Simply Reliable** range of milling assortment



To consult the range of milling products suitable for your application, contact your local Dormer Pramet sales representative.





DORMER) PRAMET



HAVE YOU TRIED OUR E-SHOP?

www.dormerpramet.com



DORMER DPRAMET

OVERVIEW OF THE SELECTED RANGE OF MILLING PRODUCTS

□ 4	90° CUTTERS	SAD11E	Universal milling cutters with positive inserts AD.X 11T3
<u> </u>		SAD16E	Universal milling cutters with positive inserts AD.X 1606.
<u> </u>		STN10	Economic milling cutters with double-sided inserts TNGX 1004.
🛱 7		STN16	Economic milling cutters with double-sided inserts TNGX 1606.
B		SLN12X	NEW! Tangential milling cutters with double-sided inserts LNEX 1210
û 9		SLN12	Economical milling cutters with double-sided inserts LNGX 1205
🛄 10	ACE MILL CUTTERS	SSE09	Universal face mill cutters with positive inserts SE.T 09T3
📖 11		SSD13F	NEW! Universal face mill cutters with positive inserts SD.T 13T3
iii 12		SON06C	NEW! Economic milling cutters with double-sided ONMX and SNMX
🛄 13		SOE06Z	Universal and economical milling cutters with positive inserts OEHT 0604
🛄 14	Ľ	SHN06C	Economic milling cutters with double-sided inserts HNGX 0604
iii 15		SHN09C	Economic milling cutters with double-sided inserts HNGX 0906.
🛄 16	VILLS	SBN10	Economical high-speed milling cutters with BNGX 10T3
<u> </u>	HFC N	SSN11	NEW Economical high-speed milling cutters with SNGX 1104
18	STIIW	SRC	Copy milling cutters with round inserts RCMT 10T3 to RCMT 2006
iii 19	TOROID	SRD	Copy milling cutters with round inserts RDHX 0501 to RDHX 1604

SAD11E







Universal option – suitable for a wide range of technological operations and machined materials. The first choice for machining corrosion-resistant materials.

Pramet SAD11E are 90° cutters available in cylindrical/weldon shank, modular and shell mill style for use of positive inserts AD.. 11 and max. depth of cut 9 mm. The recommended average chip thickness is 0.06 mm for endmills to 0.16 mm for shell

mills. The milling cutters are suitable for face/shoulder milling, helical interpolation, plunge milling and ramping. The cutters are made with differential tooth pitch. All offered milling cutters have an internal cooling.





Cylindrical milling cutters

DC = 16 - 35 mm

3

Weldon cutters DC = 16 – 32 mm

F



Modular milling cutters DC = 16 - 40 mm



Shell mill cutters DC = 40 – 125 mm

AD.X 1113
CALL STREET
000

BASIC GEOMETRY OF ADMX 11T3..

- Light and finishing operations in steels, from structural to tool steels, in martensitic steels and in well machinable non-ferrous materials
- M First choice for medium milling, especially steel, cast iron and super alloys materials
- **R >** The optimal option for unstable cutting conditions

BASIC GEOMETRY OF ADEX 11T3..

MF		Insert for light and finishing operations in mild stainless and low carbon steels
мм	►	The first choice for medium milling of austenitic and ferritic stainless steels and low carbon steels
FA	►	First choice for soft non-ferrous materials, especially aluminium and its alloys
HF	•	HFC geometry, especially suitable for steels in natural condition

HF2 • HFC geometry optimized for stainless steels





SAD16E

Universal milling cutters with positive inserts AD.X 1606..



Versatile and powerful for machining without compromise.

For maximize the potential of the cutters, medium power milling machines with ISO 50 or HSK 100 are optimal.

Pramet SAD16E are 90° cutters available in cylindrical/weldon shank, modular and shell mill style for use of positive inserts AD.. 16 and max. depth of cut 13 mm. The recommended average chip

thickness is 0.06 mm for endmills and 0.22 mm for shell mills. The milling cutters are suitable for face/shoulder milling, helical interpolation, plunge milling and ramping. Cutters from diameter 50 with 5 teeth are made with differential tooth pitch. All offered cutters have an internal cooling.





Cylindrical milling cutters DC = 23 - 32 mm



Weldon cutters DC = 24 – 40 mm



Shell mill cutters DC = 40 – 140 mm



Modular milling cutters DC = 32 - 40 mm

AD.X 1606	BASIC GEOMETRY OF ADMX 1606
	F Medium and finishing operations in steels, from structural to tool steels, in martensitic steels and in well machinable non-ferrous materials
	M First choice for medium milling, especially steel, cast iron and super alloys materials
	R > Optimal for roughing operations and unstable cutting conditions
	BASIC GEOMETRY OF ADEX 1606
	FM > Geometry that is at the front between light and medium milling
	MF Insert for light and finishing operations in mild stainless and low carbon steels
	MM The first choice for medium milling of austenitic and ferritic stainless steels and low carbon steels
	FA Alternative for adhesive non-ferrous materials, especially aluminium and its soft alloys
	HF HFC geometry, especially suitable for steels in natural condition
	HF2 HFC geometry optimized for stainless steels





Economical inserts with 6 cutting edges.

Designed especially for milling steel and non-ferrous materials, ideal for slot and shoulder milling. Suitable for milling machines with ISO 40 and HSK 63.

Pramet STN10 are 90° cutters available in cylindrical shank and shell mill for use of double-sided TNGX 10 inserts with 6 cutting edges and max. depth of cut 5 mm. The recommended average chip thickness is 0.03 mm for endmils and 0.08 mm for shell mills. Cutters from diameter 25 with 4 teeth are made with differential tooth pitch. All offered cutters have an internal cooling.





Cylindrical milling cutters DC = 18 - 35 mm



Weldon cutters DC = 20 – 32 mm

BASIC GEOMETRY OF TNGX 1004..



Modular milling cutters DC = 20 - 32 mm



Shell mill cutters DC = 40 - 80 mm

TNGX 1004..







STN16



<image>

Economical inserts with 6 cutting edges.

Designed especially for milling steel and non-ferrous materials, first choice for machining T-slots and shoulder milling. Suitable for milling machines with taper ISO 40, ISO 50 and HSK63, HSK100. Pramet STN16 are 90° cutters available in cylindrical/weldon shank, modular or shell mill for use of double-sided TNGX 16 inserts with 6 cutting edges and max. depth of cut 10 mm. The recommended average chip thickness is 0.03 mm for endmills and 0.15 mm for shell mills. Cutters from diameter 50 onwards are made with differential tooth pitch. All offered cutters have an internal cooling.





Cylindrical milling cutters DC = 25 - 35 mm

TNGX 1606..



Weldon cutters DC = 25 – 40 mm

F

Μ

FA

in steel

alloys

BASIC GEOMETRY OF TNGX 1606..

Medium and finishing operations in steels,

First choice for medium milling, especially

from structural to tool steels and well

machinable non-ferrous materials

Alternative for adhesive non-ferrous

materials, especially alumin



Modular milling cutters DC = 25 - 40 mm



Shell mill cutters DC = 40 – 175 mm





SLN12X



Tangential 90° milling cutters with doublesided 4 cutting edges inserts.

Designed especially for milling of steels and cast irons, first choice for machining T-slots and shoulder milling. Suitable for larger depths (> 4 mm).



Pramet SLN12X are 90° productive shoulder milling cutters using the LNEX 12 tangential insert with 4 cutting edges and a maximum APMX cutting depth of 10 mm. The recommended average chip thickness is 0.06 mm for endmills and 0.20 mm for shell mills. The cutters are suitable for a wide range of applications. Multi-tooth versions of the cutters are made with differential tooth pitch. All cutters offered have an internal cooling.









Shell mill cutters DC = 40 – 125 mm

Cylindrical milling cutters DC = 25 - 40 mm

LNEX 1210..

BASIC GEOMETRY OF LNEX 1210..

F

М

 Very positive geometry for medium and finishing operations in steels, from structural to tool steels and well machinable non-ferrous materials

Very positive geometry, first choice for medium machining of steel irons at greater depths







Economical variant of durable milling cutters with 4 cutting edges on the insert.

These are shoulder milling cutters with a maximum depth of cut of 9 mm. To maximize the potential of the milling cutters, medium power milling machines with ISO 50 or HSK 100 are optimal. Pramet SLN12 are 90° cutters available with cylindrical shank and shell mill style for use of double-sided inserts LN.. 12 and

max. depth of cut 9 mm. The recommended average chip thickness is 0.06 mm for endmills and 0.15 mm for modular/shell mills. The cutters are suitable for a wide range of applications. Cutters from \emptyset 40 onwards are made with differential tooth pitch. All offered cutters have an internal cooling.





Contraction of the second seco

Cylindrical milling cutters DC = 25 - 32 mm



Weldon cutters DC = 25 – 40 mm



Shell mill cutters DC = 40 – 125 mm



Modular milling cutters DC = 25 - 40 mm

LNGX 1205..

BASIC GEOMETRY OF LNGX 1205..

	-			
	F	For fin machi	ishing operations especially in steels, from structural to tool steels nable non-ferrous materials	s and well
	М	First c	hoice for medium milling, especially steel and cast iron	
	R	The op and hi	otimal option for roughing operations, unstable cutting conditions gh-strength steels	
Ten	MF	Light a	and finishing operations in mild stainless and low carbon steel	N% 390
	мм	For me ferritic	edium milling of low carbon steels and also stainless steels, c rather than austenitic	
	FA	First cl especi	hoice for soft non-ferrous materials, ally aluminium and its alloys	



US 300-109 /

45° Universal Face Milling Cutters.

Due to their low cutting forces and small diameters, they are suitable for smaller workpieces or low power milling machines.

Pramet SSE09 are highly productive 45° face milling cutters for the use of single-sided inserts SE..09 and max. depth of cut 4.5 mm. The recommended average chip thickness is 0.06 mm for endmills and 0.20 mm for shell mills. The cutters are particularly suitable for face milling and chamfer milling. Shell mill cutters are made with differential tooth pitch. Cutters up to Ø 125 (included) have an internal cooling.







Shell mill cutters DC = 32 - 160 mm



SE.T 09T3..

BASIC GEOMETRY OF SE.T 09T3..

SEET For and low-carbon steels and non-ferrous materials



SEMT > Directly pressed insert is an economical alternative suitable for roughing operations





SSD13F

Universal face mill cutters with positive inserts SD.T 13T3..



Highly versatile 45° face milling cutter - for positive inserts type SD.. 13 and max. depth of cut 6.4 mm. The recommended average chip thickness is 0.04 mm for endmills and 0.32 mm for shell mills. The cutters are particularly suitable for face and chamfer milling. Most of the cutters from Ø 50 onwards are made with differential tooth pitch. Exceptions are the Ø 100 cutters with 10 teeth and the Ø 125 mm cutters with 12 teeth. All offered cutters have an internal cooling.



Shell mill cutters DC = 40 – 250 mm

SSD13F FEATURES AND BENEFITS

- Universal 45° cutters without compromise, suitable for a wide range of materials and cutter sizes
- For cutters from Ø 100 onwards we offer variant with two teeth density. Medium for light machining and unstable conditions and higher for more productive milling The carbide shim provides additional protection and high resistance of the cutter
- body, which at the same time provides stability of the insert and safety of the process
- Complemented by a wide range of ground and directly-pressed inserts in PVD and CVD coated materials, including an uncoated polished version of the aluminium geometry



SD.T 13T3.. **BASIC GEOMETRY OF SDMT 13T3..** М Universal geometry for milling a wide range of materials including stainless steels Geometry suitable for unstable cutting conditions as well as for roughing operations, R also suitable for cast irons and stainless steels BASIC GEOMETRY OF GRINDED INSERTS SDET 13T3. The choice for light milling and finishing milling, geometry also suitable for soft materials F Alternative for adhesive non-ferrous materials, especially aluminium and its soft alloys FA **INSERTS TO IMPROVE SURFACE QUALITY** Wiper geometry for better surface finish when milling with XDET 13T3.. 🕨 bigger diameter cutters and higher feeds

SON06C

Economic milling cutters with double-sided ONMX a SNMX





F

R

Economical and versatile milling cutters with bed for octagonal and square double-sided inserts with 16 and 8 cutting edges respectively.

Pramet SON06C are 43° milling cutters for the use of double-sided ONMX 06 inserts with max. depth of cut 4 or SNMX 17 with

max. depth of cut 7 mm. The recommended average chip thickness is from 0.04 to 0.22 mm. The cutters are particularly suitable for face and chamfer milling. Most multi-tooth varint milling cutters have regular tooth spacing, low and medium tooth milling cutters are made with differential tooth pitch. All offered cutters have an internal cooling.

Shell mill cutters DC = 50 – 200 mm

SON06C FEATURES AND BENEFITS

- Two insert shapes can be used in one bed
- Economical ONMX inserts for depth of cut and 4 mm and more productive SNMX inserts for depth of cut and 7 mm
 - ONMX-W wiper inserts are also available to improve the
- surface quality of milling cutters with higher diameters and at higher feeds.
 - For cutters from Ø 125 and 160 we offer two/three variants
- of teeth density. Small and medium for light machining and unstable conditions and higher for productive milling



ONMX / SNMX

BASIC GEOMETRY OF ONMX 0604



- Optimized F geometry for finishing operations, the first choice for milling mild stainless steels
- M
 Universal geometry for medium machining
- **R b** Durable geometry for medium milling, also suitable for hardened materials
- W > Wiper geometry with 8 bits for better surface finish

BASIC GEOMETRY OF SNMX 1704

M > The first choice for medium machining of steels and stainless materials

More resistant geometries for roughing operations, unstable conditions and stronger materials and cast irons





SOE06Z



Economical version of the universal face milling cutter – with 8cutting edges inserts. Optimized for mild stainless steels. Also suitable for less stable workpieces.

SO SOE06Z CUTTERS S-ON THE WEB

Pramet SOE06Z are highly productive 43° universal milling cutters for the use of positive inserts and a maximum depth of cut

of 4 mm. The recommended average chip thickness is from 0.06 to 0.22 mm. The cutters are suitable for face/chamfer milling and copy milling operations (only with REHT 1604 inserts). All cutters are made with differential tooth pitch and have an internal cooling





Shell mill cutters DC = 50 – 200 mm

OEHT 0604.. BASIC GEOMETRY OF OEHT 0604..



INSERTS TO IMPROVE SURFACE QUALITY AND ROUND INSERTS

XEHT 0604		Wiper geometry for better surface finish	1.20 Landaria	
REHT 1604	•	Round inserts R8 for copy or face milling with M and MM geometries	01	



SHN06C



Milling cutters with double-sided inserts with 12 bits.

The range is from small diameters for face milling of steels and harder materials.

Pramet SHN06C are economical 45° face milling cutters for use with double-sided HN.. 06 inserts and max. depth of cut 3 mm. The recommended average chip thickness is from 0.06 to 0.22 mm. The cutters are suitable for light roughing and finishing operations, for face/chamfer milling. Cutters from Ø 40 onwards are made with differential tooth pitch. All offered cutters have an internal cooling.





Weldon cutters DC = 25 - 32 mm

Shell mill cutters DC = 40 – 125 mm

 HNGX 0604..
 BASIC GEOMETRY OF HNGX 0604..

 Image: Comparison of the state of the s



Modular milling cutters DC = 25 - 40 mm



PRAMET

SHN09C

Economic milling cutters with double-sided inserts HNGX 0906..





Shell mill cutters DC = 50 - 315 mm Economical double-sided inserts with 12 cutting edges. Face milling cutters suitable for machining steel and harder materials.

Pramet SHN09C are 45° highly productive and economical milling cutters for the use of double-sided HNGX 09 inserts with a maximum depth of cut of 5 mm. The recommended average chip thickness is from 0.08 to 0.25 mm. The cutters are particularly suitable for face and chamfer milling. Most of the cutters are made with differential tooth pitch, with the exception of the Ø 100 10-tooth and Ø 125 12-tooth cutters. All cutters offered have an internal cooling.





HNGX 0906..

BASIC GEOMETRY OF HNGX 0906



Light and finishing operations in steels, also applicable for stainless steels Optimised F geometry for finishing operations, higher surface finish FF and reduced burr formation Μ Positive geometry for the medium machining. Durable geometry for medium and heavy machining, R also suitable for hardened materials

INSERTS TO IMPROVE SURFACE QUALITY

XNGX 0906

F

Wiper geometry for better surface finish when milling with bigger cutters and higher feeds



SBN10



Productive milling cutters for high feed machining. Milling from mild stainless to hardened tool steels. Newly extended with 0° 50 – 0° 66 mm.

HFC cutters of smaller diameters for use of double-sided inserts BNGX 10 with 4 bits. Max. depth of cut 1 mm. The recommended average chip thickness is from 0.17 to 0.41 mm. The cutters have a wide application range. Shell mill cutters and the majority of endmills style cutters from \emptyset 25 have variable tooth pitch. All offered cutters have an internal cooling.

The range of SBN10 milling cutters has been supplemented by shell mill cutters from Ø 50 to 66 mm. Similar to the new cutters, they are offered in two variants of tooth pitch. The new cutters from Ø 50 have an adjustment angle of 29°, the new cutters up to Ø 42 mm have an adjustment angle of 20°. This change ensures optimum chip evacuation when milling with all diameters along the wall. They are ideal for productive material removal.





Shell mill cutters DCX = 40 - 66 mm

SBN10 FEATURES AND BENEFITS

BNGX 10T3..

- Comprehensive range of high feed milling cutters in sizes from Ø 16 to 66 mm
- Large selection of cutters. Cylindrical shank cutters in different lengths, multiple tooth density variations throughout the range
- Long tool life of the inserts thanks to optimised setting angle preventing excessive cutting of the inserts
- The new cutters with a 29° setting angle are compatible with BNGX 10 inserts. ANHX 10 cannot be used!



Cylindrical milling cutters DCX = 16 – 35 mm



Modular milling cutters DCX = 16 - 40 mm

M Universal geometry for milling mild steel and cast iron	
MM Optimised geometry for mild stainless and low carbon steels and non-ferrous may	aterials
HM • Optimized geometry for stainless steels, tool steels in natural condition, cast irons and unstable conditions	
ANOTHER INSERTS	
ANHX 10T3 Inserts for conventional 90° milling up of material along the wall. Only for DCX = 16 and 42 mm cutters.	NGX INSERTS ON THE WEB

BASIC GEOMETRY OF BNGX 10T3..

PRAMET

SSN11



Productive milling cutters for high feed machining. They are suitable for milling from mild stainless to hardened tool steels. Newly added with HM geometry.

HFC cutters of larger diameters for use of double-sided inserts SNGX 11 with 8 bits. Max. depth of cut 1.7 mm. The recommended average chip thickness is from 0.20 to 0.46 mm. The cutters are suitable for a wide range of applications. From Ø 40 onwards, the cutters have variable tooth pitch. All offered cutters have an internal cooling.





FEATURES AND BENEFITS OF NEW GEOMETRY HM

- Optimised geometry for milling cast irons, hardened and tempered materials
- In stable conditions, it allows the use of more abrasion-resistant materials and longer cutting edge durability
- Provides increased durability and milling safety in unstable conditions





Cylindrical milling cutters DCX = 32 - 35 mm











DCX = 40 – 125 mm



SRC



Universal cutter for copy milling operations suitable for working at low depth and high feed as well as in reverse settings. The range of geometries covers most machined materials.



Copying cutters for the use of RCMT positive inserts in size 10 and 20 and

max. depth of cut from 5 to 10 mm. Suitable for copy and face milling, helical interpolation, ramping and progresive plunging. The inserts are fixed in the bed against rotation. The cutters have a regular tooth pitch. All offered cutters have an internal cooling.



Cutters (range according to the insert) from DCX = 40 – 66 mm to DCX = 80 – 160 mm



Cutters for RCMT10 only





Cylindrical milling cutters DCX = 25 - 32 mm



Modular milling cutters DCX = 25 - 42 mm



SRD



The universal standard for copy milling. Optimal for use with varying depths and feed rates. The range focuses on materials typical for mould making.



Copy milling cutters for the use of positive inserts RD.. in size 05 and

16 and max. depth of cut from 1.5 to 4 mm. Suitable for copy and face milling, helical interpolation, ramping and progressive plunging. The cutters have a regular tooth pitch. All offered milling cutters have an internal cooling.



Cutters (range according to the insert) from DCX = 42 - 52 mm to DCX = 52 - 100 mm



Only for RDHX 07 and RDHX 10



Weldon cutters DCX = 20 mm



Modular milling cutters (range according to the insert) from DCX = 10 – 15 mm to DCX = 24 – 42 mm





As a professional you can judge the quality of work by just looking at the chip. Our chip is a clean and uncomplicated shape that in itself tells a story. It is a clear and consistent signal and that's why we use it as a symbol for being **Simply Reliable**.

DORMER **PRAMET**

www.dormerpramet.com



FOLLOW US..







