

New Products



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HIGH FEED

SPLX 07/10/13



- 4 corner proprietary positive high feed insert
3 sizes
- SPLX07 Dia range from 16-32 mm
endmill type
- SPLX10 Dia range from 25-32 mm (endmill
type), Dia 40-63 mm (facemil type)
- SPLX13 Dia 50-125 mm (facemill type)
- Available 2 grades:
(a) XT840 → steels and CI
(b) XT930 → Stainless Steels and exotic materials

Benefits & Features

- With feed rates up to 2 mm / tooth, very high chip removal rates are achieved.
- Maximum tool life on exotic material thanks to special substrate of XT 930.
- Maximised economy thanks to 4 cutting edges.
- Reduced machining noise and vibration. light cutting geometries.
- First choice for all production application !!



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- 4 corner rectangular highfeed insert
- Dia range from 16 to 32mm endmill type.
- Available 3 grades :
(a) XT830 → 1st choice for general machining
(b) XT110 → Economical entry point grade
(c) XT930-C → 1st choice for stainless steel &
Hardned materials
(d) XT840 → For steel & Cast Iron



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ZNMU 1003



Benefits & Features

- Effective for high feed milling
- Anti-chatter properties, Extremely powerfull for sloting.
- Excellent machine efficiency

SDKW 1304



4 corner square insert for high feed machining.

Dia range from 32 to 125mm Shoulder Milling.

1 grade XT830 for all materials.

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Benefits & Features

- Decreased cost with 4 cutting edges.
- It can take ap upto 2mm.
- Cutting force is reduced due to positive rake angle.
- Special geometry SDKT for low power machine.

- **Double-Sided insert: 4 cutting edges.**
- **Dia range from 16 to 32mm endmill type.**
- **Available in 3 grades**
 - (a) XT830 for all general application
 - (b) XT930-C for Stainless steel & superalloys and Die mould
 - (c) XT840 for steel & Cast Iron



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XOGU 1103



Benefits & Features

- ap max. = 1 mm.
- The convex cutting edge reduces impact while entering the workpiece.
- Good chip evacuation prevents chip-biting enabling trouble free operation.
- Multi-edge design allows for cost economy.
- Fully ground inserts help for high efficiency machining.

ZOMW 06



Dia range from 08 to 14 mm endmill type.

2 Corner insert with Corner Radius 1

XT930 → 1 grade for all materials, including
Stainless Steels and superalloys

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Benefits & Features

- Can easily replace solid carbide on semi-finishing areas on account of
 - a) Higher productivity on account of higher feed speeds!
 - b) Economy on account of indexable solution v/s Solid Carbide!

SHOULDER MILLING

LNKX 09/12/17



4 corner 90° shoulder milling insert 3 sizes

LNKX090408 Dia range from 16-32mm endmill type

LNKX120508 Dia range from 25-32mm (endmill type) and Dia 40-63 (facemill type)

LNKX170608 Dia range from 50-250mm (facemill type)

1 Grade → XT480 for all materials

Benefits & Features

- High Positive rake allows for smooth cutting and chip operation
- Extremely powerful product for roughing in cast Iron materials

4 corner 90° shoulder milling insert

Dia range 25/32 mm endmill type and
Dia 40-160mm facemill type

2 High performance grades
a.XT840 (Steel/Cast iron)
b.XT930 (Stainless Steel/Hard materials)



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LNKU1206



Benefits & Features

- High precision 90° milling.
- Low power consumption, maximum chip removal rate.
- Chipbreaker optimised by FEM.
- Soft cutting providing quiet machining & maximum spindle protection. Highly suitable for low power machines.

SNMU 1206



Double sided 8 corner 88° milling insert

Dia range from 50-200mm

1 Grade → XT430 for all materials!

New grades in development for Stainless Steel and cast iron

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Benefits & Features

- Double Sided 8 Corner negative insert
- 88° insert design enables low cutting force while machining to reduce chattering

6 corner 90° shoulder milling insert

Dia range from 50-250mm in facemill type

Multiple high performance grades

- a. XT840, XT820 for Steel
- b. XT125/XT930-C for Stainless Steel
- c. XK3121/XT430 for cast iron
- d. XT930-C for Superalloys and Hard materials (52HrC)
- e. WNGX for Finishing also available.



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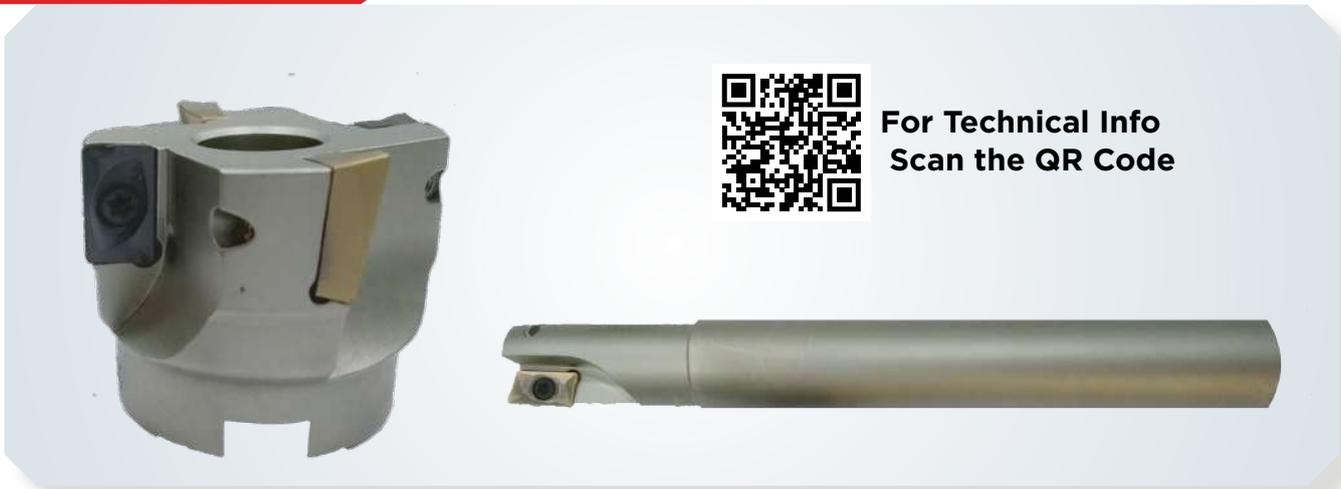
WNMX08



Benefits & Features

- New PRE bodies have Integrated cutter and Insert design which will ensure almost perfect 90°.
- This will result in negligible runout, better tool life, lower load on machine and improved finish on the workpiece.
- Ideally Suitable for Shoulder milling & wall finishing.

XPKX11/16/17



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XPKX11T3

Available in 0.4/0.8 corner radius

Dia Range

16-32 (endmill)

XT125

XT125 for all SS/Die-mould applications

XPKX11T3PDSR

Available in 0.5 corner radius

Dia Range

16-32 (endmill)

1 Grade

XT830 for all materials

XPKX16

Available in 0.8/1.2/1.6/2.4 radius

Dia Range

25-32 (endmill), Dia 40-125 (face-mill)

1 Grade

XT830 for all materials

XPKX17

Available in 0.8 corner radius

Dia Range

25-32 (endmill),
Dia 40-125 (face-mill)

1 Grade

XT125 for all SS/Die-mould applications

Benefits & Features

- 2 corner 90° shoulder milling insert
- Endmill type cutter from 16 to 32 Dia
- Extremely popular product for shoulder milling in Die & mould as well as in general engineering application.

SOLID CARBIDE

DM/DH



- Endmill & Ballnose Range**
- (a) 4 flute Endmill (Standard & Long)
 - (b) 2 flute Ballnose (Standard & Long)
 - (c) 4 flute corner radius endmil (Standard & Long)
 - (d) Rib Endmill & Ballnose (2 flute)

Benefits & Features

- Speciality for Deep Cavity Machining
- DH Works on all materials upto 55HrC
- DM for all materials upto 40HRC

- Works on materials from 50-68 HrC

- Available in
 - (a) 4 flute (standard and long lengths)
 - (b) 2 flute ballnose (standard and long lengths)
 - (c) 4 flute corner radius (standard and long lengths)

- Can compete with all competitors on performance



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DH-S



Benefits & Features

- Works on Die and mould applications as well as stainless steels with high chromium content
- Higher helix and negative rake allows for smoother operation
- Can be even used with coolant as well for certain materials

XIB



Indexable ball insert for roughing as well as finishing.

Dia range From 08-32 mm.

Carbide shank bodies available on request.

D & DH grades available.



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Benefits & Features

- Two Grades covering all materials (Soft as well as Hard)
- High Accuracy Insert Positioning and High Rigidity Clamping
- Significant reduction in Tooling Cost for semi finish and finishing applications
- Popular in Die & Mould and General engineering applications.

THREADING

XTM



Moulded Insert with Chip-breaker
(similar to TF geometry of kyocera / B type insert of carmex and chip-breaker insert of Taegutec)

Benefits & Features

- Special double layer coated insert with a combination AlCrN and TiSi
- Works especially well on various Stainless Steel and exotic materials including SS300 & 400 series
- Best for Production Applications.

XTB

Black Moulded Insert (with chip-breaker).

Special TiAlN coating for enhanced life.

**Complete Range available in 16 size (NPT/
UN/ISO/W/Partial profile)**



Benefits & Features

- Special TiAlN Coating with added toughness.
- Universal grade which works on all materials and all applications.
- Wide Variety of threads including ISO, UN, W,NPT, BSPT and Partial Profiles.
- Best Suited for continuous auto/valve batch production.

GROUND LINE



New Threading Line

- Thread turning
- Indexable Thread Milling
- Solid Carbide Thread Mills
- Tiny tools



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Thread Turning

- Completely Ground Thread Turning Inserts
- Available from 06 to 27 Size
- Circlip inserts also available.

Indexable thread Milling

- Works on all material
- Steel bodies available
- Insert size from 12, 14, 21, 30 & 40.

Solid Carbide Thread Mills

- Both Thru and non thru coolant Solid Carbide available
- Available in ISO/UN/NPT/W as well as hardened materials

Tiny tools

- Small diameter solid carbide tools used for boring, turning, profiling, chamfering and grooving
- Designed for high tech, medical and small component industries.

GROOVING

XTGP



Proprietary grooving insert.

Insert range from 2 to 6mm.

3 different geometries:

P - For Parting

GT - For Groove turn

R - For Radius

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Benefits & Features

- Available in 3 grades :
 1. XT830 - The Universal high-performance grade for steel, austenitic steel, cast iron and heat-resistance alloys.
 2. XT930 - The reliable choice for the machining of Steel and Stainless Steel.
 3. XP7125 - The reliable solution for steel and austenitic steels under unstable conditions.

XGDB/XGJ/XDT

2 Corner Dog Bone Grooving Insert

1 Grade → XT310 for all materials

Insert available in 2/3/4 mm



Benefits & Features

- Different inserts for different applications
 - a. XGDB → For parting for Steel and Cast Iron
 - b. XGJ → Parting with sharper geometry for Softer materials, better chipbreaking
 - c. XDT → For Groove and Turn applications.
- External Holders available in 2020 and 2525 shank with different depth range.

XGM



Popular Grooving insert.

Insert Range from 2 to 5mm.

Benefits & Features

- XGM in 2 grades
 - (a) XP7125 - Mass Production
 - (b) XT125 - Batch Production
- MGMN in XT310 - Multipurpose Grade

DRILLING

SPMG



4 corner Drilling insert

Insert size ranges from 05-14mm

U Drill size ranges from 13-50mm

Benefits & Features

- 4 corners allows cost economy
- U- Drills readily available in L/D 2 ,3 & 4
- Multiple grades available!
- XT830 → With Chipbreaker, first choice for standard applications
- XT110 → Economical entry point multipurpose grade
- XT840 → New Grade for Steel and Cast Iron
- XT930-C → New Grade for Stainless Steel machining

3 corner Drilling insert.

Available in 2 Grades

(a) XT830 → First choice for all premium applications

(b) XT110 → Economical entry point grade first choice for Cast Iron

(c) Sizes ranging for 03-08mm

WCMX



Benefits & Features

- Insert design gives better rigidity in centre, leading to lesser chipping.
- Can be made in larger Diameters in cartridge type with longer L/D's as well.

XT225



New PVD Grade for Turning !

Improved version of popular grade XT125

Suitable for tough steels, stainless steels and difficult to cut materials !



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Benefits & Features

- Improved version of XT125.
- New, reliable and tough grade for tough steels, stainless steels & difficult-to-cut materials.
- Strong Geometries like GM/GR reduce sudden fracture from interrupted machining.
- Allows for stable operation and longer tool life.
- 2-4 μ ALCrN+AlCrSiN PVD Coated, combining with ultra fine particles' substrates with High-Toughness
- Suitable for all materials in light & medium load turning.
- Suitable stainless steel & High-Temperature high hardness alloy in finishing, semi finishing.

Available in all positive inserts in HM geometry, negative inserts in BM/MA/GM/GR geometries

PCD / CBN

BRAZED CBN



Grades for Hardened Steel as well as Cast Iron

Special Coating Done to increase parameters as well as tool life!!

All standard Positive and negative inserts available

Benefits & Features

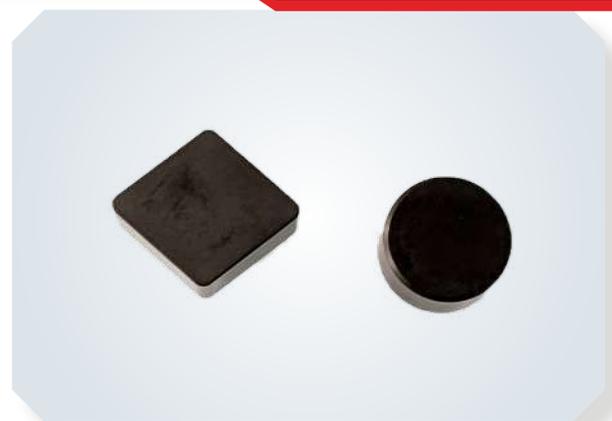
- Available in regular as well as multi corner Popular Grades as below
- XBK7550(C06) → First choice for hardened steel
- XBK7560(C07) → first choice for hardened steel on heavy interruption applications.
- XBK3015 → First choice for Cast Iron Boring applications
- Can Develop special chamfers on request.
- Popular in automotive applications such as gears, hubs, and Cylinder blocks.

Different grades for Different applications

Available in Round, as well as Turning and Milling inserts!

Can Increase productivity and tool life against most competitors in the market!

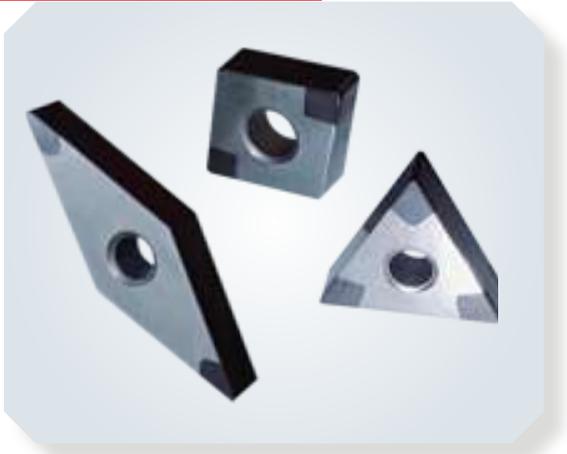
SOLID CBN



Benefits & Features

- High performance at competitive price
- Very popular in mining and impeller industry with Round inserts
- Cast Iron inserts are very popular on brake drum and liner applications
- Square Milling inserts very popular in pump and housing applications!

DELTA CBN



Brazed CBN for standard applications

Available in CNGA, TNGA & VNGA 2 Grades

- a. XBK7000 Hardened Steel
- b. XBK3000 Cast Iron



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Benefits & Features

- Economical option, especially against carbide areas
- More corners than standard brazed inserts!
- Works on continuous as well as medium interruption applications!

XPD300

PCD Grade for Aluminium and CI machining

Single Corner Insert

All standard Positive and negative inserts
available!!



Benefits & Features

- Lethal Combination of performance and price
- First choice for AL with <13% Si and Cast Iron machining for finishing.
- Turning inserts with Chipbreaker on request.
- ISO Milling and Grooving inserts in pipeline!



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