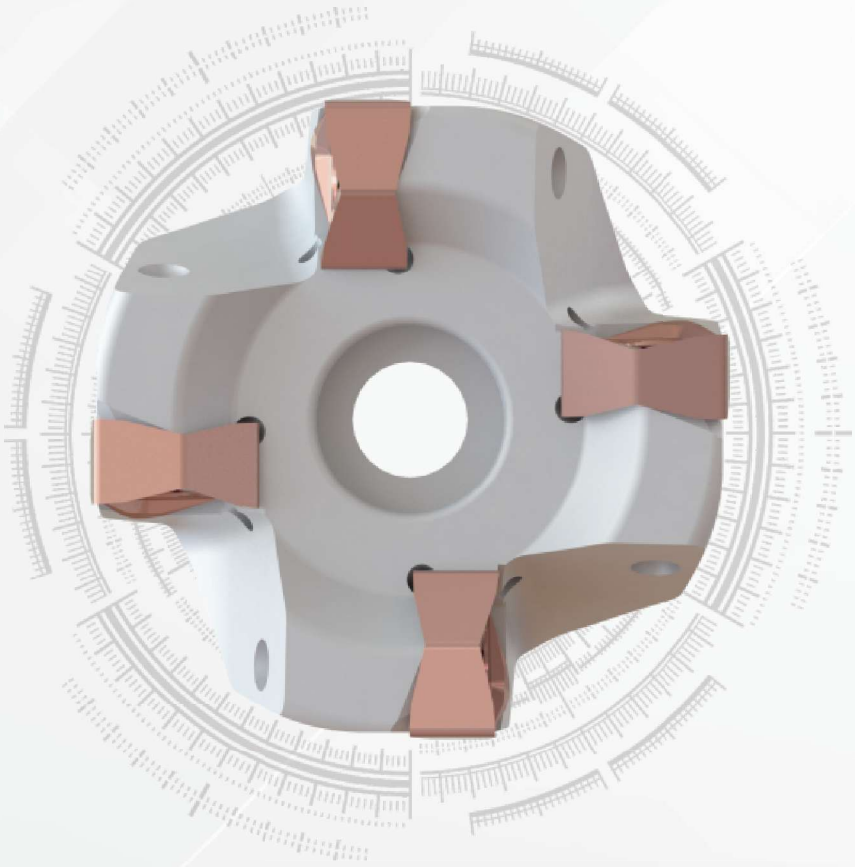
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HARDMETAL Switzerland

MXSM True 90° milling cutter

Introducing Strongest ever XNMU insert supporting DOC = 7mm

Square shoulder milling cutter with 6-cutting edges insert!



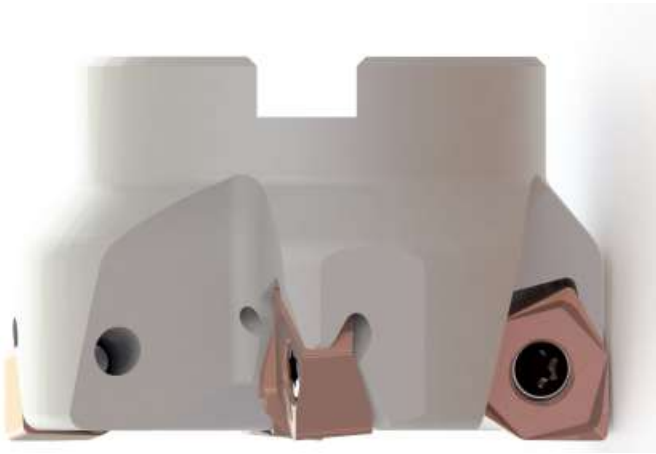


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Cutter Features

Introducing the **MFSN Square Shoulder Milling Cutters Range** for a True 90 degrees Shoulder. The MFSN cutters range is designed for high material removal combined together with attractive cost benefits which can cut **upto 7mm depth of cut!**



High depth of cut possibility of up to 7mm
Enables fewer passes, shorter cycle times, and higher productivity.

Reliable cutter system
Thicker inserts giving breakage free performance increasing tool life.

Good economics
Superior cost-per-edge due to 6 long lasting cutting edges per insert reducing tooling cost and downtime.

Produces a true 90 degrees shoulder
High quality machined component minimizes secondary finishing operations and delivers excellent dimensional accuracy.

Insert & Grade advantage

The strongest ever XNMU080608EN-GM insert

Supports a **higher depth of cut (Ap) up to 7 mm.**

Maintains the **true 90 degrees** shoulder being cut on the component.

High positive rake angle, leading to smooth cutting and lesser cutting force.

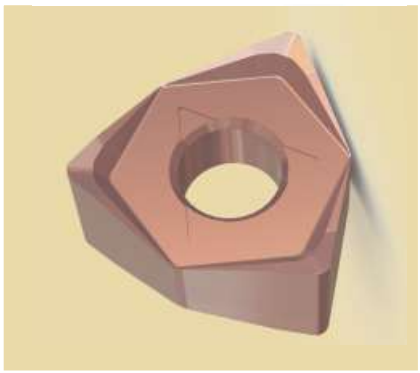
Neutral insert, **utilized both in LH and RH cutters** reducing over tooling cost.

Latest ultra-modern carbide grades - Designed for **high productivity** combined with **good reliability** – even at a higher depth of cut.

for Steel

DMP2030P

Well-engineered PVD coated versatile grade.
Stable performance in medium to rough machining.
Longer tool life with tough fine-grained substrate.
Higher productivity at medium cutting speeds.



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Application Target

Designed for efficient rough and shoulder milling of steels with higher productivity and higher depth of cut improvement and stable performance, operating consistently even at Ap= 7mm

Grade Selection For First Time Right

What is your primary STEEL machining goal?

Chatter free machining in general purpose and roughing of Steels.

➤ Choose **DMP2030P**

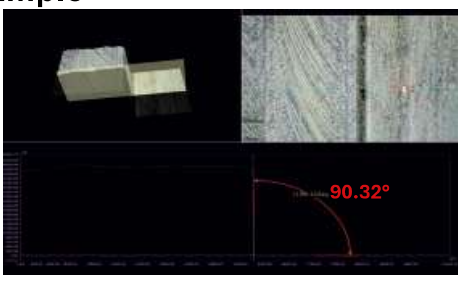
✓ For high strength steels
✓ Stable tool life
✓ **PVD**-coating for abrasion and corrosion

RECOMMENDED Cutting conditions

Work material	Grade	Parameters					
		Speed (m/min)			Feed (mm/tooth)		
		Min.	Ideal	Max.	Min.	Ideal	Max.
Steel	DMP2030P	110	180	225	0.15	0.25	0.35

Machining example









(After 64 min.)

Work material: CK45 (ISO-P) - 28HRC
Vc: 180 m/min | **Fz:** 0.25 mm/t | **Ap:** 4 mm | **Ae:** 40mm

Success Stories

Face Milling (MXSM08080RS06 | XNMU080608EN-GM-DMP2030P)

Component: General Engineering
Material: MS (20HRC - ISO P)
Machine: VMC







	Existing	Motherson
Vc (m/min)	150	160
Fz (mm/tooth)	0.18	0.24
Ap (mm)	1.00	4.00
Passes	2	1
Tool life	68 min	84 min
Cut time	166 sec	110 sec

Feed 1.3X

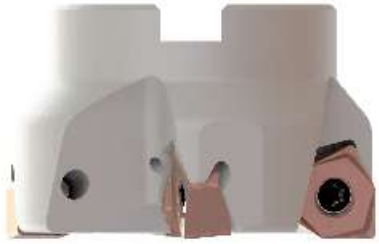
Productivity 24%

Tool Life 34%

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Cutter Body (MXSM Series)



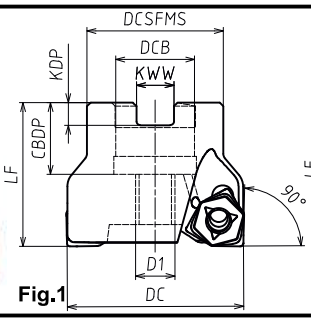


Fig.1

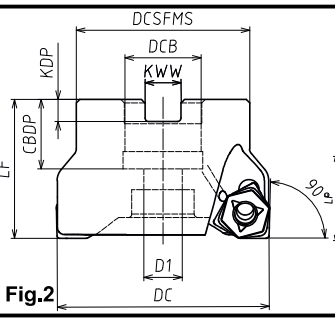


Fig.2

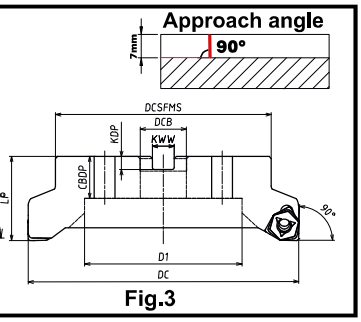


Fig.3

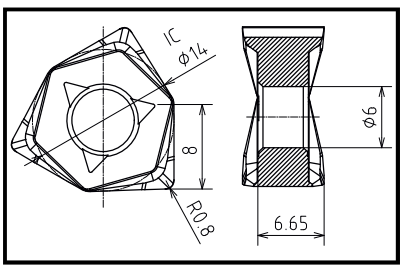
Catalogue No.	Stock	Min. Dia. Dc	Boss DCSFMS	Height LF	Bore Dia. DCB	Keyway Width KWW	Keyway Depth KDP	Mounting Depth CBDP	Bolt D1	No. of Teeth Zn	Weight (kg)	Fig.
MXSM08050RS04	●	50	40	40	22	10.4	6.3	20	M10	04	0.3	1
MXSM08063RS04	●	63	50	40	22	10.4	6.3	20	11	04	0.5	2
MXSM08063RS05	●	63	50	40	22	10.4	6.3	20	11	05	0.5	2
MXSM08080RS06	●	80	55	50	27	12.4	7.0	22	14	06	0.9	2
MXSM08080RS07	●	80	55	50	27	12.4	7.0	22	14	07	0.9	2
MXSM08100RS07	●	100	70	50	32	14.4	8.0	32	46	07	1.3	2
MXSM08100RS08	●	100	70	50	32	14.4	8.0	32	46	08	1.3	2
MXSM08125RS08	●	125	80	63	40	16.4	9.0	29	52	08	2.6	2
MXSM08125RS10	●	125	80	63	40	16.4	9.0	29	52	10	2.6	2
MXSM08160RS12	●	160	130	63	40	16.4	9.0	29	90	12	4.5	3
MXSM08160RS14	●	160	130	63	40	16.4	9.0	29	90	14	4.5	3
MXSM08200RS16	●	200	150	63	60	25.7	14.0	35	135	16	5.5	3
MXSM08200RS18	●	200	150	63	60	25.7	14.0	35	135	18	5.5	3
MXSM08250RS18	●	250	180	63	60	25.7	14.0	35	160	18	8.2	3
MXSM08250RS20	●	250	180	63	60	25.7	14.0	35	160	20	8.2	3

Spare items

INSERT SCREW	WRENCH
S-M0513IP	MHT-T20IP

Inserts (XNMU080608EN-GM)

		PVD
Application	High-Speed	
Rough & Face Milling	General Purpose	P
	Roughing	P
	Cat. No.	DMP2030P
	XNMU080608EN-GM	●



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