





XT930-Coverview

- Ultrafine grain matrix, newly upgraded nano composite coating with high heat resistance and high toughness.
- Suitable for general milling of cast iron, steel, and stainless steel, with better wear resistance.
- Supplementary grades for forging steel and stainless steel turning.

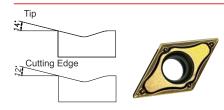
ISO	Color	Electron Microscopy Image	Grade
P M Steel Stainless Steel	Bronze	AlTiMeN	XT930 - C
P M Steel Stainless Steel	Purple Black	AlTiMeN	XT930

* XT930 is available only for turning

Industry Application

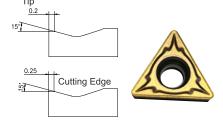
- Die & Mould
- Valves
- General Engineering
- Automobile Industry

Geometry Details



GF

The double positive rake angle design ensures the sharpness of the insert and low cutting resistance. The double chip breaker design broadens the chip breaking range. Suitable for finishing of steel, stainless steel for the inserts.

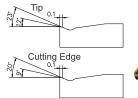


GM

On the basis of ensuring the sharpness of the cutting edge, the strength of the cutting edge is enhanced. Suitable for semi-finishing of steel, stainless steel for positive inserts.



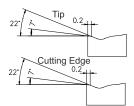
Geometry Details





BF

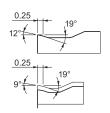
Narrow cutting edge and double positive rake angle, sharp cutting edge, low cutting resistance, special insert inclination design, can obtain high-quality machined surface. Suitable for finishing of stainless steel.





CE

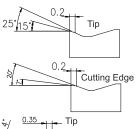
First Recommendation for medium cutting of carbon steel, alloy steel and stainless steel. Idea for general cutting applications. Positive land provides sharp cutting action.





MS

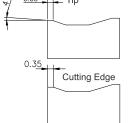
Superior Cutting edge sharpness and strength achieved by a Positive land. Extra Strength of cutting egde inhibits damage from wall shouldering. A wide chip pocket controls increasing of the cutting resistance and reduces vibration and chip jamming even at large depth of cut.





SM

The double positive rake angle perfectly combines the sharpness and strength of the insert; the cutting resistance is small, and the wider chip breaker ensures the chip deformation space, thereby reducing the groove wear. Suitable for semi-finishing of stainless steel and high-temp alloy.





AR

The preferred chip breaker for roughing, wide margin design, good edge strength, high metal removal rate, good wear resistance and cutting life. Suitable for roughing for large size inserts.

Chipbreaker's Chart

Geometry	ap = (mm)	fn = (mm / rev)
GF	0.4 - 2.0	0.05 - 0.20
GM	0.4 - 3.0	0.08 - 0.25
BF	0.5 - 3.0	0.10 - 0.30
CR	0.8 - 3.0	0.10 - 0.35
MS	1.0 - 4.0	0.08 - 0.35
SM	1.0 - 4.0	0.08 - 0.30
AR	1.0 - 5.0	0.1 - 0.50

Parameters

Material	Grade	Recommended Cutting Speed
Steel	XT930-C	90 - 220
Stainless Steel	XT930-C	70 - 200



Turning

Positive Inserts

Insert	Grade	GF	GM
CCMT	060204	•	0
	060208	0	•
	09T302	0	
	09T304	•	0
	09T308	0	•
	120404		0
	120408		0
DCMT	070204	•	
	070208	0	•
	11T3O2	•	
	11T3O4	•	
	11T308	0	•
SCMT	09T304	•	0
	09T308	0	•
	120408	0	•
TCMT	110204	•	
	110208	0	•
	16T3O4	•	
	16T308		•
VBMT	160404	•	0
	160408	•	0

Negative Inserts

Insert	Grade	BF	CR	MS	SM	AR
CNMG	120404	•	•			
	120408	•	•	•		
	120412		•	•	0	
	190612			•	0	
	190616					•
DNMG	110404	0				
	150604	•				
	150608	•	0			
SNMG	120404			0		
	120408			•		
	120412			•		
	190612				•	
	190616				•	0
TNMG	160404	•	•	•		
	160408	•	•	•		
	160412	•	•	0		
VNMG	160404	•				
	160408	•				
WNMG	060408*		•			
	080404		•			
	080408		•		0	
	080412		•		•	

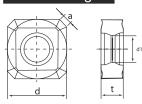
● = Stockable / O = Non Stockable

^{*} Also Available in GM



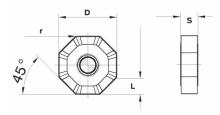
Milling

Face Milling



Description	Grade		Dimer	nsions		Feed (mr	m / tooth)	AP (Stock	
		d a d1 t				MIN	MAX	MIN	MAX	
SNMX1205ANN	XT930-C	13	1.8	6	5.5	0.08	0.3	0.5	5	•

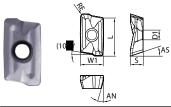
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Description	Grade	Dimensions F					Feed (mn	n / tooth)	AP (Stock	
		L	L D S O R					MAX	MIN	MAX	
ONMU080608	XT930-C	6	20.2	6	-	0.8	0.1	0.3	0.5	3.5	•

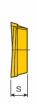
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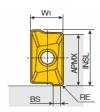
Shoulder Milling



Item	Grade	Dimensions (in) Angle					Dimensions (in) Angle				Stock
		W1	S	D1	L	RE	AS	AN	AP (IIIII)	fn (mm/rev)	Stock
XDMT11T308ER-JT	XT930-C	0.3	0.150	0.110	0.4	8.0	18°	13°	2.0 - 6.0	0.06 - 0.15	•
XDMT11T316ER-JT	XT930-C	0.3	0.150	0.110	0.4	1.6	18°	13°	2.2 - 8.0	0.08 - 0.15	•

• = Stockable, • = Non Stockable



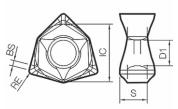


Item	Grade	INSL	W1	S	BS	RE	APMX	ap (min)	ap (max)	Stock
XDMT170508PDER-EM	XT930-C	18.50	10.70	6	3	0.80	16.00	4.50	13.00	•
XDMT170516PDER-EM	XT930-C	18.50	10.70	6	3	1.6	16.00	4.50	13.00	•
XDMT170524PDER-EM	XT930-C	18.50	10.70	6	3	2.4	16.00	4.50	13.00	•



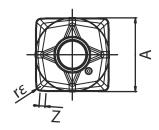
Milling

Shoulder Milling



Description	Grade	Dimensions					Feed (mr	n / tooth)	AP (Stock	
		D1	D1 S BS IC RE				MIN	MAX	MIN	MAX	
WNMX080608	XT930-C	6.2	6.65	1.3	14	0.8	0.08	0.4	0.5	7	•

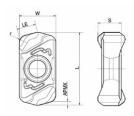
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Description	Grade	Dimensions					Feed (mr	m / tooth)	AP (Stock	
		Α	Т	OD	Ζ	rΕ	MIN	MAX	MIN	MAX	
SNMU1206EN-GM	XT930-C	13	5.51	4.7	1	0.8	0.08	0.3	0.5	3.5	•

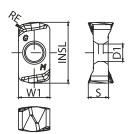
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High Feed



Description	Grade	RE	APMX	IC	S	Stock
ZNMU100312-HF	XT930-C	1.2	3.2	6	4.3	•

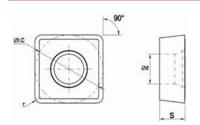
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Description	Grade	Dimensions					Stock
		W1	S	D2	INSL	RE	
XOGU110310-HF	XT930-C	6.2	3.96	3.5	11.9	1.0	•



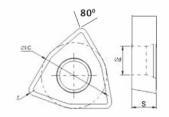
Drilling



4 Corner Drilling Insert. Same Insert For Center And Periphery

Description L S r d		٦	Feed (mm / tooth)				
Description	_	7	ľ	r d	MIN	MAX	XT930-C
SPMG050204-GM	5	2.38	0.4	2.25	0.04	0.12	•
SPMG060204-GM	6	2.38	0.4	2.61	0.04	0.12	•
SPMG07T308-GM	7.94	3.97	0.05	2.85	0.05	0.15	•
SPMG090408-GM	9.8	4.3	0.06	4.05	0.06	0.15	•
SPMG110408-GM	11.5	4.8	0.06	4.45	0.06	0.18	•
SPMG140512-GM	14.3	5.2	0.08	5.75	0.08	0.2	•

 \bullet = Stockable / o = Non Stockable



3 Corner Drilling Insert. Same Insert For Center And Periphery

Description	sovintion I s d v iC I	iC	Feed (mm / tooth)					
Description	_	S	đ		iC	MIN	MAX	XT930-C
WCMX030208	3.4	2.38	2.8	0.8	5.56	0.04	0.09	•
WCMX040208	4.3	2.38	3.1	0.8	6.35	0.04	0.11	•
WCMX050308	5.4	3.18	3.2	0.8	7.94	0.04	0.11	•
WCMX06T308	6.5	3.97	3.7	0.8	9.52	0.06	0.13	•
WCMX080412	8.7	4.76	4.3	1.2	12.7	0.08	0.18	•

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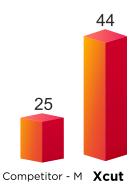
Trial Reports

• Hi-Feed

PRODUCT DESCRIPTION XOGU110310-HF-XT930-				
MATERIAL & HARDNESS	MS STEEL (28-30 HRC)			
PARAMETERS	Competitor - M XCUT			
Depth of Cut	1 MM	0.8 MM		
Vc : m/min	141	141		
Fz : mm/tooth	0.46	0.48		
CPC reduced by 50%				







INPUT

OUTPUT

Tool life (No. of Comp)



Trial Reports

• Turning

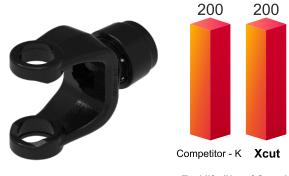
PRODUCT DESCRIPTION	CNMG120408MS-XT930-C			
MATERIAL & HARDNESS	CF8M & 32 HRC			
PARAMETERS	Competitor - S XCUT			
Depth of Cut	2 MM	2 MM		
Vc : m/min	130	130		
Fz : mm/tooth	0.2	0.2		
CPC reduced by 25%				





Drilling

PRODUCT DESCRIPTION	SPMG050204-GM-XT930-C			
MATERIAL & HARDNESS	Forged Steel			
PARAMETERS	Competitor - K XCUT			
Dia	14.5	14.5		
Passes	1	1		
Vc : m/min	127	127		
Fz : mm/tooth	0.09-0.22	0.09-0.22		
CPC reduced by 25%				



Tool life (No. of Comp)

Milling

9					
PRODUCT DESCRIPTION	WNMX080608-XT930-C				
MATERIAL, HARDNESS	WCC & 28 HRC & 10" BONNET BODY				
PARAMETERS	Competitor - K	XCUT			
Depth of Cut	Total stock Ap - 5mm Rough - 2 mm/pass No of pass - 3	Total stock Ap - 5mm Rough - 2.5 mm/pass No of pass - 2			
Vc : m/min	250	250			
Fz : mm/tooth	0.1	0.12			
Improve Productivity - 42% 1					





Tool life (No. of Comp)

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