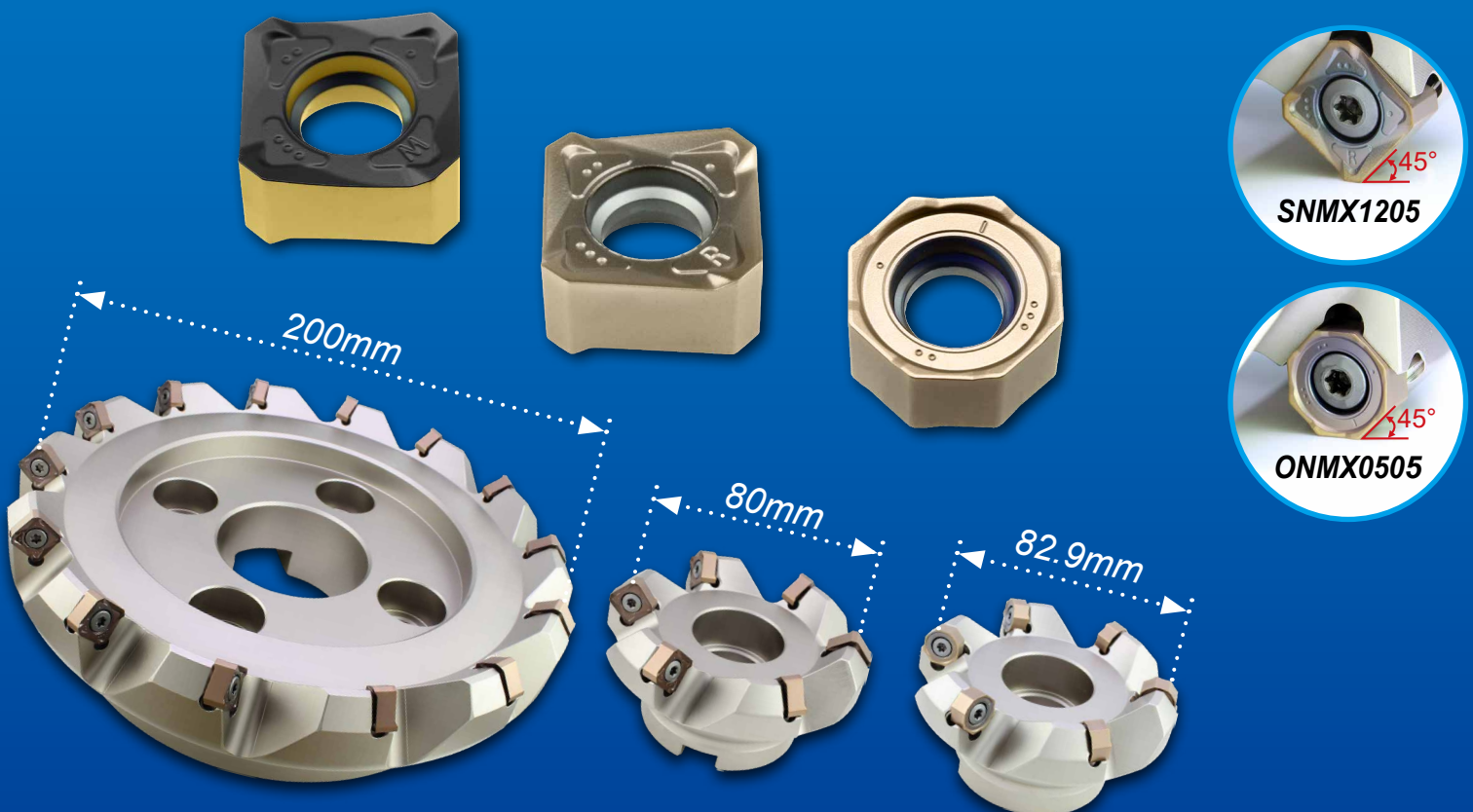


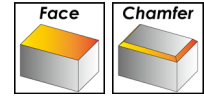
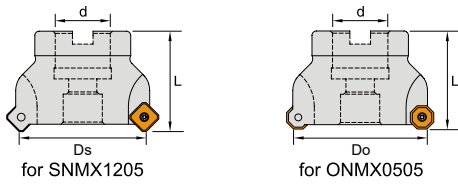
CXSN 45° Face Milling

- 2 types double-sided inserts can be used in same cutter.
- SNMX with 8 cutting edges, ONMX with 16 cutting edges.
- Cutter dia. from 50~200mm , max. depth of cut is 6mm.



Face Milling - CXSN

CXSNF - Milling Tools



Insert Brand : Winstar, Walter, ...

Order No.	D		L	d	T	Inserts	Screw	Wrench	Stock
	Ds	Do							
ICXSNF504050220	50	52.9	40	22	4	SNMX1205 or ONMX0505	ITS4015	ITK15	●
ICXSNF505063220	63	65.9	40	22	5				●
ICXSNF506080270	80	82.9	50	27	6				●
ICXSNF508100320	100	102.9	50	32	8				●
ICXSNF510125400	125	127.9	63	40	10				●
ICXSNF512160400	160	162.9	63	40	12				●
ICXSNF514200600	200	202.9	63	60	14				●

● stock ○ by inquiry

Customize available.

Insert Specifications

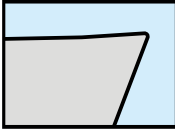
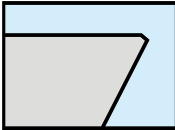
Insert	Dimensions (mm)				Diagram
	A	B	S	d1	
SNMX1205	12.7	1.5	6.4	6	
ONMX0505	12.7	5.0	6.4	6	

Insert Designation

Insert	Order No.	Designation	Working Material					
			P	M	K	N	S	H
	ISNMX1205MG32HS	SNMX1205-MG-CX32HS	●	●	●		○	
	ISNMX1205MG33TX	SNMX1205-MG-CX33TX	●	●	●		●	●
	ISNMX1205MG43TX	SNMX1205-MG-CX43TX	●	●	●		●	
	ISNMX1205MG37TA	SNMX1205-MG-CX37TA	○	○	●		○	○
	ISNMX1205MG47TA	SNMX1205-MG-CX47TA	○	●	○		●	○
	ISNMX1205RG32HS	SNMX1205-RG-CX32HS	●	●	●		○	
	ISNMX1205RG33TX	SNMX1205-RG-CX33TX	●	●	●		●	●
	ISNMX1205RG43TX	SNMX1205-RG-CX43TX	●	●	●		●	
	ISNMX1205RG37TA	SNMX1205-RG-CX37TA	○	○	●		○	○
	ISNMX1205RG47TA	SNMX1205-RG-CX47TA	○	●	○		●	○
	IONMX0505MG32HS	ONMX0505-MG-CX32HS	●	●	●		○	
	IONMX0505MG33TX	ONMX0505-MG-CX33TX	●	●	●		●	●
	IONMX0505MG43TX	ONMX0505-MG-CX43TX	●	●	●		●	
	IONMX0505RG32HS	ONMX0505-RG-CX32HS	●	●	●		○	
	IONMX0505RG33TX	ONMX0505-RG-CX33TX	●	●	●		●	●
	IONMX0505RG43TX	ONMX0505-RG-CX43TX	●	●	●		●	

Face Milling - CXSN

Insert Geometry

Chipbreaker	Application
 <p>MG</p>	Low cutting force for medium cutting in carbon steel, alloy steel, stainless steel, cast iron and high temperature alloy.
 <p>RG</p>	Strong geometry design for rough cutting in steel, alloy steel and hardened steel.

Insert Grade

Grade Type	Properties	Application	Working Material						Industry Area	Previous Grade
			P	M	K	N	S	H		
CX33TX (PVD)	<ul style="list-style-type: none"> Wear resistance Anti-corrosion 	<ul style="list-style-type: none"> Medium to roughing General machining For carbon steel & alloy steel is 1st recommended 	●	●	●		●	●	<ul style="list-style-type: none"> Mold & Die Automotive Machinery Aerospace 	CX32HS
CX37TA (CVD)	<ul style="list-style-type: none"> Wear resistance Impact resistance 	<ul style="list-style-type: none"> Medium to roughing For cast iron is 1st recommended Suitable for dry or wet cutting 	○	○	●		○	○	<ul style="list-style-type: none"> Automotive Machinery 	—
CX43TX (PVD)	<ul style="list-style-type: none"> Tough substrate Anti-corrosion 	<ul style="list-style-type: none"> Medium to roughing Interrupted machining For stainless steel is 1st recommended 	●	●	●		●		<ul style="list-style-type: none"> Electronics Medical Aerospace 	—
CX47TA (CVD)	<ul style="list-style-type: none"> High impact resistance High toughness 	<ul style="list-style-type: none"> Roughing Interrupted machining For alloy steel & exotic materials are recommended Suitable for dry or wet cutting 	●	●	○		●	○	<ul style="list-style-type: none"> Machinery Aerospace Energy 	—

Face Milling - CXSN

Recommended Cutting Conditions

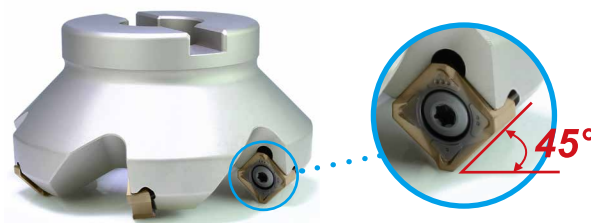
Working Material	SNMX1205			ONMX0505		
	Vc	fz	ap	Vc	fz	ap
Carbon Steel / Alloy Steel	80 ~ 200	0.1 ~ 0.3	0.3 ~ 6.0	80 ~ 200	0.1 ~ 0.3	0.3 ~ 2.0
Stainless Steel	50 ~ 110	0.08 ~ 0.25	0.3 ~ 3.6	50 ~ 110	0.08 ~ 0.25	0.3 ~ 1.5
Cast Iron	80 ~ 180	0.1 ~ 0.3	0.3 ~ 6.0	80 ~ 180	0.1 ~ 0.3	0.3 ~ 2.0
High Temperature Alloy	30 ~ 60	0.08 ~ 0.2	0.3 ~ 3.6	30 ~ 60	0.08 ~ 0.2	0.3 ~ 1.5
Hardened Steel	35 ~ 70	0.08 ~ 0.23	0.3 ~ 3.6	35 ~ 70	0.08 ~ 0.23	0.3 ~ 1.5

Tools Features

2 types of double-sided inserts fit same cutter !

- **Depth of cutting > 2mm**

use Square insert - SNMX1205 (Total 8 cutting edges)



- **Depth of cutting ≤ 2mm**

use Octagonal insert - ONMX0505 (Total 16 cutting edges)

