

CoroMill® MS20

Shoulder milling redefined





SANDVIK
coromant
CoroMill® MS20

Uncompromised excellence

When it comes to shoulder milling, you shouldn't have to settle for compromises.

Whether you prioritize secure and trouble-free machining, high productivity or increased cost-efficiency, the new CoroMill® MS20 shoulder milling concept has got you covered.

Thoroughly developed for roughing to finishing operations in stainless steel and heat-resistant super alloys, CoroMill® MS20 delivers excellence across the board.

A dependable powerhouse

CoroMill® MS20 boasts a robust cutter body and a dependable interface, carefully crafted using the latest production technologies to meet the high security and accuracy demands of our customers.

Internal coolant for optimal chip evacuation and high productivity in ISO S applications

Highest possible accuracy, close to the nominal diameter, with minimal run-out

Stable tip seat for reliable seating of the insert, preventing micro movement during machining



A new cutter body material for selected articles that provides higher fatigue and deformation resistance, assuring a longer cutter tool life

Maximal diameter cylindrical shank that can be cut off to optimize stability at various desired overhang applications

Optimized chip room design for long chipping ISO S and ISO M materials

Robust insert screw for higher security

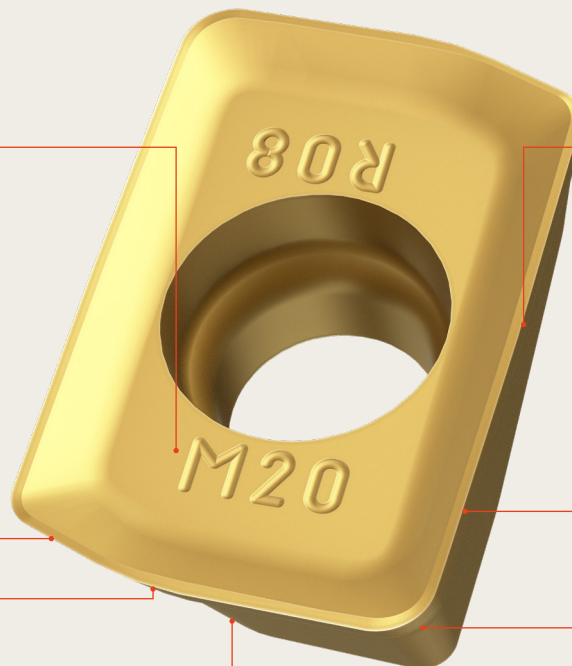
Dual-edged perfection

CoroMill® MS20 features single-sided, two-edged inserts with optimized geometries for ISO M and ISO S applications, ensuring higher performance and longer insert tool life with a gradual and predictable wear pattern in all situations.

Prominent marking to differentiate the geometries

Optimized ramping edge for secure ramping operations and good chip evacuation

The radius connecting the main cutting edge and the ramping edge serves as a prolonged parallel land, contributing to a better surface finish



The straight cutting edge protects the insert screw by ensuring good chip formation

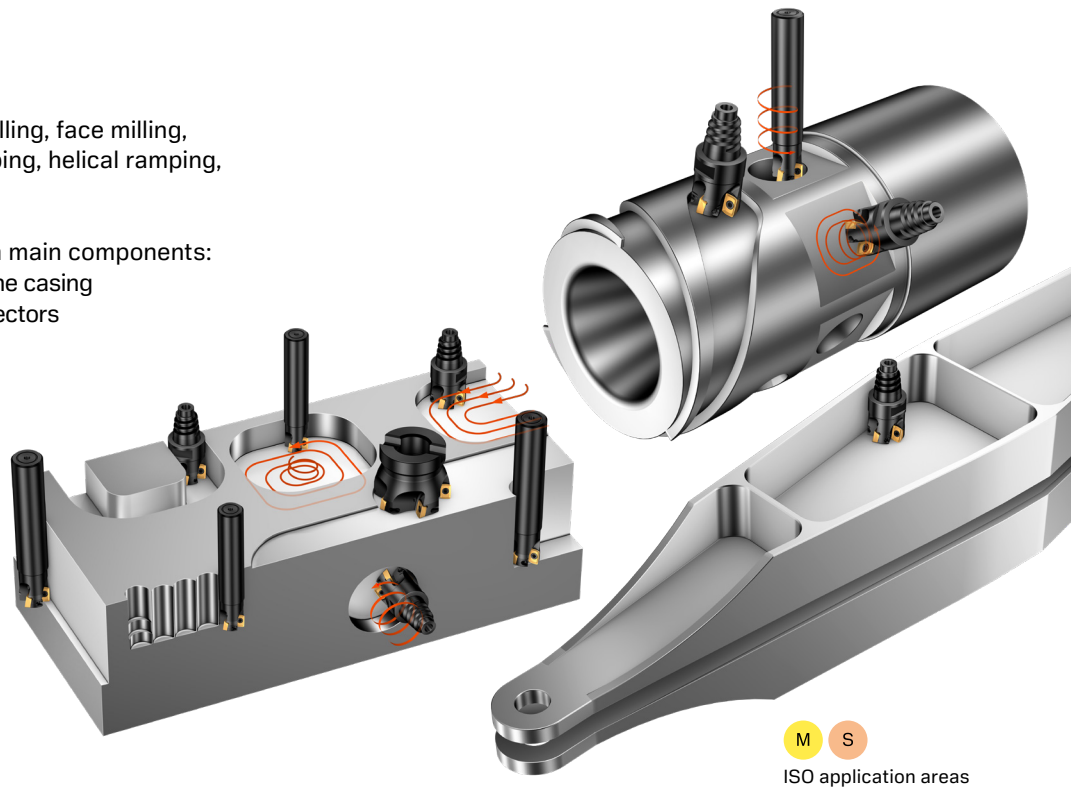
Supreme edge quality, providing consistent performance regardless of the axial depth of cut

A thick insert body provides bulk strength for extra toughness

Stable axial support, especially useful when plunging

Application

- True 90 degrees repeated shoulder milling, face milling, pocket milling, corner machining, ramping, helical ramping, full slotting, and plunge milling
- For roughing and finishing operations
- Main industry segments to target, with main components:
 - Aerospace: frame, landing gear, engine casing
 - Oil and gas: valve body, spools, connectors



M S
ISO application areas

Assortment

Cutter bodies

Cutter diameter range	15.8–84 mm (inch equivalent)	
Cutter body interface	Cylindrical shank, Coromant® EH, MSSC, Arbor, Coromant Capto® and Weldon (inch)	119 articles
Cutter body interface	CIS and Weldon (metric)	13 articles

Inserts

Insert IC size	IC10 (APMX: 9 mm (0.354 inch))
Insert geometry	E-L50, M-M20 and M-M30
Insert corner radius	0.2, 0.4, 0.8 and 1.6
Insert grade	1040, 2040, S30T and S40T
Number of articles	27

Learn more about CoroMill® MS20:
www.sandvik.coromant.com/coromillms20



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