

MILLING INSERTS · COPY MILLING AND PROFILING

UNM-CE (copy milling)

Insert for large-radius copy milling cutters (RE up to 20 mm), for roughing and semi-finishing of moulds.



KEY DATA

Product type	Milling Inserts
ISO materials	P steel M stainless K cast iron S superalloys
Operation	Semi-finishing · Roughing
INNOC grades	IT5120 · IT5130 ★ · IT7140 ★ ★ recommended
Nose radii	R8 · R10 · R12.5 · R15 · R16 · R20
Online page	innot-it.com/en/prodotto/unm-ce

Specifications

Code	INSL	D1	S	AN	RE	APMX
UNM1603-CE	16	2.8	3.18	15°	8	16
UNM20T3-CE	19	4	3.97	15°	10	20
UNM2504-CE	24	4.7	4.76	15°	12.5	25
UNM3006-CE	27	5.5	6.35	15°	15	30
UNM3206-CE	31	5.5	6.35	15°	16	32
UNM4007-CE	38	6.7	7.94	11°	20	40

Dimensions in mm. IC = inscribed circle, S = thickness, D1 = hole, BS = wiper flat, RE = corner radius, AN = clearance angle, APMX = maximum depth of cut.

Technical data

Operation	Milling – Copy milling and profiling
Shape	Copy machining
ISO material	P (steels), M (stainless steels), K (cast irons), S (superalloys and titanium)
Features	Insert for large-diameter copy milling cutters: wide-radius profile to rough and semi-finish moulds with deep cuts.
Compatible cutters	Indexable cutters with UNM-CE seat: send us your cutter code and we will check compatibility.

Available INNOC grades

Grade	ISO	Coating	Composition	Application
IT5130 ★	P · M	PVD	AlTiN	High-efficiency milling of steels and stainless steels below 30 HRC. Specially formulated substrate that reduces the risk of chipping, with a latest-generation nano coating.
IT7140 ★	M · S	PVD	AlCrN	Milling of stainless steels, titanium alloys and superalloys. Substrate with special micro-elements: excellent toughness and high-temperature performance.

Grade	ISO	Coating	Composition	Application
IT5120	P · M · K	PVD	TiAIN + CrAIN + TiSiN	Universal grade for steels, stainless steels and cast irons, also ideal on materials of 35-50 HRC. Excellent wear resistance and toughness, high hot hardness.

★ Recommended grade. Other grades are available on request.

Cutting data

Cutting data depend on cutter, machine and material: we send them to you with the quote, calculated for your part.

INNOT · CUTTING TOOLS FOR CNC MACHINE SHOPS

Quote within 30 minutes

Send us the code or the drawing: we reply with price and availability. Free test inserts on request, 24/48h shipping.

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Cutting data are indicative starting values: adjust them to machine, clamping, tool overhang and workpiece material. Data and images may change without notice.