

Garant
Solid carbide roughing end mill MTC, TiAlN, Ø d11 DC: 12mm

Order data

Order number	205710 12
GTIN	4045197362612
Item class	11X

Description
Version:

Dimensions similar to DIN 6527.

Optimised special knuckle profile for roughing.

Very **high rate of metal removal.**

Can be used as a **universal end mill.**

Application:

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

Technical description

Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.07 mm
Corner chamfer width at 45°	0.25 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.06 mm
Cutting edge $\varnothing D_c$	12 mm
No. of teeth Z	4
Shank $\varnothing D_s$	12 mm
Overall length L	73 mm
Flute length L_c	16 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	d11

Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	HR
Cutting width a_e for milling operation	0.5×D for side milling
Cutting width a_e for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	MTC
Colour ring	green
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel < 750 N/mm ²	suitable	170 m/min	P
Steel < 900 N/mm ²	suitable	170 m/min	P
Steel < 1100 N/mm ²	suitable	140 m/min	P
Steel < 1400 N/mm ²	suitable	120 m/min	P
INOX < 900 N/mm ²	suitable	60 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	50 m/min	M
Ti > 850 N/mm ²	suitable	40 m/min	S
GG(G)	suitable	120 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		

Air

Suitable only under
restricted conditions