

Garant**Semi-roughing end mill, uncoated, Ø k12 DC: 12mm****Order data**

Order number	191710 12
GTIN	4045197104786
Item class	11W

Description**Version:****Relief ground fine pitch semi-roughing profile.****Technical description**

Feed f_z for slot milling in steel $< 750 \text{ N/mm}^2$	0.042 mm
Cutting edge Ø D_c	12 mm
No. of teeth Z	4
Shank Ø D_s	12 mm
Overall length L	83 mm
Flute length L_c	26 mm
Direction of infeed	horizontal and oblique
Shank	DIN 1835 B to h6
Tolerance nominal Ø	k12
Helix angle	27-30 degrees
Corner chamfer angle	90 degrees
Coating	uncoated
Tool material	HSS Co 8
Standard	DIN 844 B
Milling profile	NF

Through-coolant	no
Colour ring	without
Type of product	End / face mill

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	83 m/min	N
Steel < 500 N/mm ²	suitable	30 m/min	P
Steel < 750 N/mm ²	suitable	25 m/min	P
Steel < 900 N/mm ²	suitable only under restricted conditions	25 m/min	P
GG(G)	suitable only under restricted conditions	23 m/min	K
CuZn	suitable only under restricted conditions	55 m/min	N
Uni	suitable		
wet maximum	suitable		