

Garant**Centre drill HSS-E-PM A, TiAlN, Nominal \varnothing DC k12: 4mm****Order data**

Order number	111105 4
GTIN	4045197797421
Item class	11A

Description**Version:**

Ground from solid and relief ground, spiral fluted.

Technical description

Number of cutting edges Z	2
Feed f in steel < 900 N/mm ²	0.03 mm/rev.
for workpiece \varnothing	40 – 63 mm
Nominal \varnothing D _c	4 mm
Shank \varnothing D _s	10 mm
Shank tolerance	h7
Overall length L	56 mm
Coating	TiAlN
Tool material	HSS E PM
Standard	DIN 333
Type	A
Tolerance nominal \varnothing	k12
Countersink angle	60 degrees
Cutting direction	right-hand
Shank	Parallel shank to h7

Through-coolant	no
Colour ring	without
Type of product	Centre drill

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	100 m/min	N
Aluminium (short chipping)	suitable	60 m/min	N
Alu > 10% Si	suitable	40 m/min	N
Steel < 500 N/mm ²	suitable	60 m/min	P
Steel < 750 N/mm ²	suitable	50 m/min	P
Steel < 900 N/mm ²	suitable	40 m/min	P
Steel < 1100 N/mm ²	suitable	20 m/min	P
Steel < 1400 N/mm ²	suitable	10 m/min	P
Steel < 55 HRC	suitable only under restricted conditions	5 m/min	H
INOX < 900 N/mm ²	suitable	15 m/min	M
INOX > 900 N/mm ²	suitable	10 m/min	M
Ti > 850 N/mm ²	suitable	8 m/min	S
GG(G)	suitable	40 m/min	K
CuZn	suitable	80 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		