

High-precision countersink, long, with 3 drive flats 90°, TiAlN, External \varnothing Dc: 31mm



Order data

Order number	150376 31
GTIN	4062406066055
Item class	11M

Description

Version:

All countersinks have 3 cutting edges, radially relief ground. Flutes ground from solid. High-precision countersink, produced to tight manufacturing tolerances similar to DIN335-C, **with long plain shank**.

Special geometry with extremely unequal spacing and matching cutting edge preparation. Newly developed, **special TiAIN coating** for long tool life.

Three **drive flats on the shank** for use in a 3-jaw chuck.

Application:

High-precision countersinks for chatter-free production of **precise**, **round 90° countersunk surfaces**.

Technical description

Shank tolerance	h9
Number of cutting edges Z	3
Pre-drill Ø	4.2 mm
smallest countersink Ø for holes from	4.2 mm
Overall length L	140 mm
Feed f in steel < 500 N/mm ²	0.25 mm/rev.
for countersunk screws DIN 7991	M16
Shank Ø D₅	12 mm



External Ø	31 mm	
Coating	TiAIN	
Countersink tip angle	90 degrees	
Tool material	HSS	
Spacing of the countersink cutting edges	unequal spacing	
Standard	Manufacturer's standard	
Shank	Three clamping flats to h9	
Through-coolant	no	
Colour ring	green	
Type of product	Stepped drill and countersink	

User data

	Suitability	\mathbf{V}_{c}	ISO code
Alu plastics	suitable	75 m/min	N
Aluminium (short chipping)	suitable	75 m/min	N
Alu > 10% Si	suitable	50 m/min	N
Steel < 500 N/mm ²	suitable	65 m/min	Р
Steel < 750 N/mm ²	suitable	50 m/min	Р
Steel < 900 N/mm ²	suitable	30 m/min	Р
Steel < 1100 N/mm ²	suitable	18 m/min	Р
Steel < 1400 N/mm ²	suitable	8 m/min	Р
Steel < 55 HRC	Suitable only under restricted conditions	8 m/min	Н
INOX < 900 N/mm ²	suitable	16 m/min	M
$INOX > 900 \text{ N/mm}^2$	suitable	10 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	12 m/min	S
GG(G)	suitable	25 m/min	K
CuZn	suitable	60 m/min	N

Graphite, GRP, CRP	suitable only under restricted conditions	
Uni	suitable	
wet maximum	suitable	
dry	suitable only under restricted conditions	