

Center drills

Center drills without flat

Catalogue no. **71600**



Standard drill for producing centre holes acc. to DIN 332, Sheet 1, form A (without protecting chamfer).
Center drills with Ø 0.5 and 0.8 mm are only single-sided.

DIN 333

Tool material	HSS
Surface	bright
Form	A
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body Ø: h7 (to DIN h9)
tol. on pilot Ø (to new standard):
Ø 0,50 – 2,50 = + 0,14 mm
Ø 3,15 – 5,00 = + 0,18 mm
Ø 6,30 – 10,0 = + 0,22 mm
Ø 12,50 = + 0,27 mm
Web thinning: to DIN 1412, form A

Center drills without flat

Catalogue no. **71601**



Standard drill for producing centre holes acc. to DIN 332, Sheet 1, form A (without protecting chamfer).
Center drills with Ø 0.5 and 0.8 mm are only single-sided.

DIN 333

Tool material	HSS
Surface	bright
Form	A
Cutting direction	left-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body Ø: h7 (to DIN h9)
tol. on pilot Ø (to new standard):
Ø 0,50 – 2,50 = + 0,14 mm
Ø 3,15 – 5,00 = + 0,18 mm
Ø 6,30 – 10,0 = + 0,22 mm
Ø 12,50 = + 0,27 mm
Web thinning: to DIN 1412, form A

Center drills

Center drills without flat

Catalogue no. **71605**



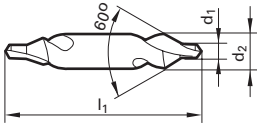
Special purpose drill for producing centre holes to DIN 332, sheet 1, form A (without protecting chamfer), except for an annular groove at the junction of the countersink and the drilled hole. Special features of these tools are: high fracture-resistant properties, specially strengthened form at the junction of the pilot and body which permits high metal removal rates, special form cuts annular groove which acts as a reservoir for the lubricant.

Stock std. reinf. neck

Tool material	HSS
Surface	bright
Form	A
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body $\emptyset$: h7 (to DIN h9)
 tol. on pilot $\emptyset$ (to new standard):
 $\emptyset$ 0,50 – 2,50 = + 0,14 mm
 $\emptyset$ 3,15 – 5,00 = + 0,18 mm
 $\emptyset$ 6,30 – 10,0 = + 0,22 mm
 $\emptyset$ 12,50 = + 0,27 mm
 Web thinning: to DIN 1412, form A

Center drills without flat



Catalogue no.	71605
Tool material	HSS
Discount group	138
Cutting direction	right-hand
Surface	bright

[illegible]

Center drills

Center drills without flat

Catalogue
no. **71604**



Special purpose drill for producing centre holes to DIN 332, Sheet 1, form B (with protecting countersink of 120°).

DIN 333

Tool material	HSS
Surface	bright
Form	B
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body $\emptyset$: h7 (to DIN h9)
 tol. on pilot $\emptyset$ (to new standard):
 $\emptyset$ 0,50 – 2,50 = + 0,14 mm
 $\emptyset$ 3,15 – 5,00 = + 0,18 mm
 $\emptyset$ 6,30 – 10,0 = + 0,22 mm
 $\emptyset$ 12,50 = + 0,27 mm
 Web thinning: to DIN 1412, form A

Center drills

Center drills without flat

Catalogue no. **71602**



Special purpose drill for producing centre holes to DIN 332, sheet 1, form R (radiused). Special features of these tools are: 1. high fracture-resistant properties. 2. precise concentricity of the point in relation to the body. 3. radiused form providing a protected centre hole.

Center drills with Ø 0.5 and 0.8 mm are only single-sided.

DIN 333

Tool material	HSS
Surface	bright
Form	R
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body Ø: h7 (to DIN h9)
 tol. on pilot Ø (to new standard):
 Ø 0,50 – 2,50 = + 0,14 mm
 Ø 3,15 – 5,00 = + 0,18 mm
 Ø 6,30 – 10,0 = + 0,22 mm
 Ø 12,50 = + 0,27 mm
 Web thinning: to DIN 1412, form A

Center drills without flat

Catalogue no. **61602**



Special purpose drill for producing centre holes to DIN 332, sheet 1, form R (radiused). Special features of these tools are: 1. high fracture-resistant properties. 2. precise concentricity of the point in relation to the body. 3. radiused form providing a protected centre hole.

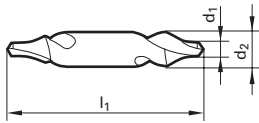
Center drills with Ø 0.5 and 0.8 mm are only single-sided.

DIN 333

Tool material	HSS
Surface	TiN
Form	R
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body Ø: h7 (to DIN h9)
 tol. on pilot Ø (to new standard):
 Ø 0,50 – 2,50 = + 0,14 mm
 Ø 3,15 – 5,00 = + 0,18 mm
 Ø 6,30 – 10,0 = + 0,22 mm
 Ø 12,50 = + 0,27 mm
 Web thinning: to DIN 1412, form A

Center drills without flat



Catalogue no.	71602	61602
Tool material	HSS	
Discount group	138	139
Cutting direction	right-hand	right-hand
Surface	bright	TiN

[illegible]

Center drills

Center drills with flat

Catalogue no. **71607**



Special purpose drill for producing centre holes to DIN 332, sheet 1, form A (without protecting chamfer). For centering and facing machines where the end face is required to be dressed and centred in the same operation.

Stock std.

Tool material	HSS
Surface	bright
Form	A
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body $\emptyset$: h7 (to DIN h9)
 tol. on pilot $\emptyset$ (to new standard):
 $\emptyset$ 0,50 – 2,50 = + 0,14 mm
 $\emptyset$ 3,15 – 5,00 = + 0,18 mm
 $\emptyset$ 6,30 – 10,0 = + 0,22 mm
 $\emptyset$ 12,50 = + 0,27 mm
 Web thinning: to DIN 1412, form A

Center drills with flat

Catalogue no. **71609**



Special purpose drill for producing centre holes to DIN 332, sheet 1, form R (radiused). For centering and facing machines where the end face is required to be dressed and centered in the same operation. Special features of these tools are:

1. high fracture-resistant properties.
2. precise concentricity of the point in relation to the body.
3. radiused form providing a protected centre hole.

Stock std.

Tool material	HSS
Surface	bright
Form	R
Cutting direction	right-hand
Point grinding	Relieved cone
Point angle °	118
Web thinned $\geq \emptyset$	1.60
Tolerance	

tol. on body $\emptyset$: h7 (to DIN h9)
 tol. on pilot $\emptyset$ (to new standard):
 $\emptyset$ 0,50 – 2,50 = + 0,14 mm
 $\emptyset$ 3,15 – 5,00 = + 0,18 mm
 $\emptyset$ 6,30 – 10,0 = + 0,22 mm
 $\emptyset$ 12,50 = + 0,27 mm
 Web thinning: to DIN 1412, form A

