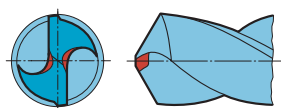
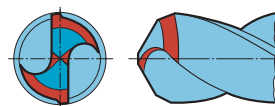


Special point geometry and manufacturing tolerances

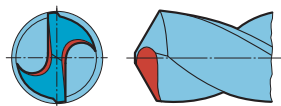
Special point geometry to DIN 1412 (extract; edition 03/01)



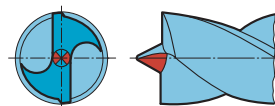
Form A
Thinned
chisel edge



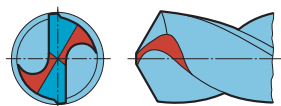
Form D
Point ground
for cast iron



Form B
Thinned chisel edge with
corrected
cutting lips



Form E
Brad point
(center point)



Form C
Split point

Twist drill manufacturing tolerances to DIN ISO 286, part 2

diameter (nominal size) up to and incl. mm	tolerance range mm	
	h8	h7
0.38 ... 0.60	10	7
0.95	12	8
3.00	14	10
6.00	18	12
10.00	22	15
18.00	27	18
30.00	33	21
50.00	39	25
80.00	46	30
120.00	54	35

* If you need tolerances other than ISO h8 please let us know. Additional charges for closer diameter tolerance see additional charges at the end of chapter Drilling Tools.

Reference to other relevant standards

- DIN 228 Part 1 machine tapers; Morse tapers and metric tapers, taper shank
- DIN 1414-1 Directions for design and use for high speed steel twist drills
- DIN 6580 Definitions of the metal-cutting industry; motions and geometry of the cutting process
- DIN 6581 Definitions of the metal-cutting industry; Cutting portion reference systems and angles

The standard descriptions above are given with the permission from the German Standards Institute (Deutsches Institut für Normung). The most recent editions of the standard sheets apply and are available in DIN A 4 format from Beuth-Verlag GmbH, D-10787 Berlin.