



New Product – Key Facts

Product:

HSS PRO TITANIUM DRILL BIT

- Drill bit diameters available from 1 mm to 13 mm.
- Drill bit total lengths available from 34 mm to 151 mm.
- Din standard 338 available.

Application:

- Primarily designed for drilling metal and harder, tougher alloys.

SPEED AND FEED

Compared to traditional HSS Twist Drill Bits speed can be increased by 40-60% and feed by 10-20% without reducing the life time of the drill bit significantly.

LESS HEAT

TiN is also a poor conductor of heat, so the heat generated during the drilling process is diverted into the chips and coolant and less into the drill bit.

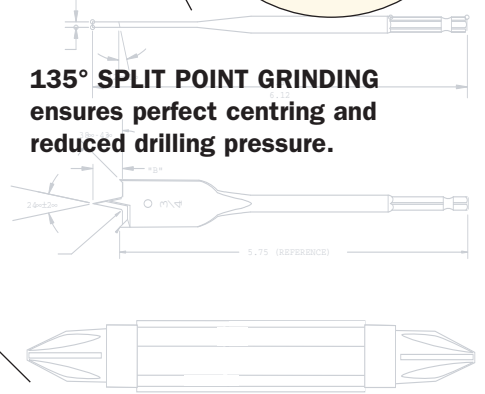
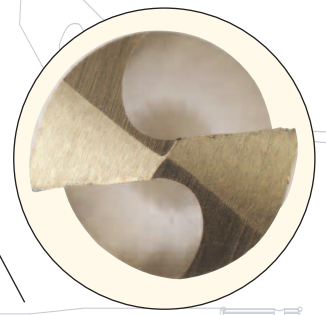
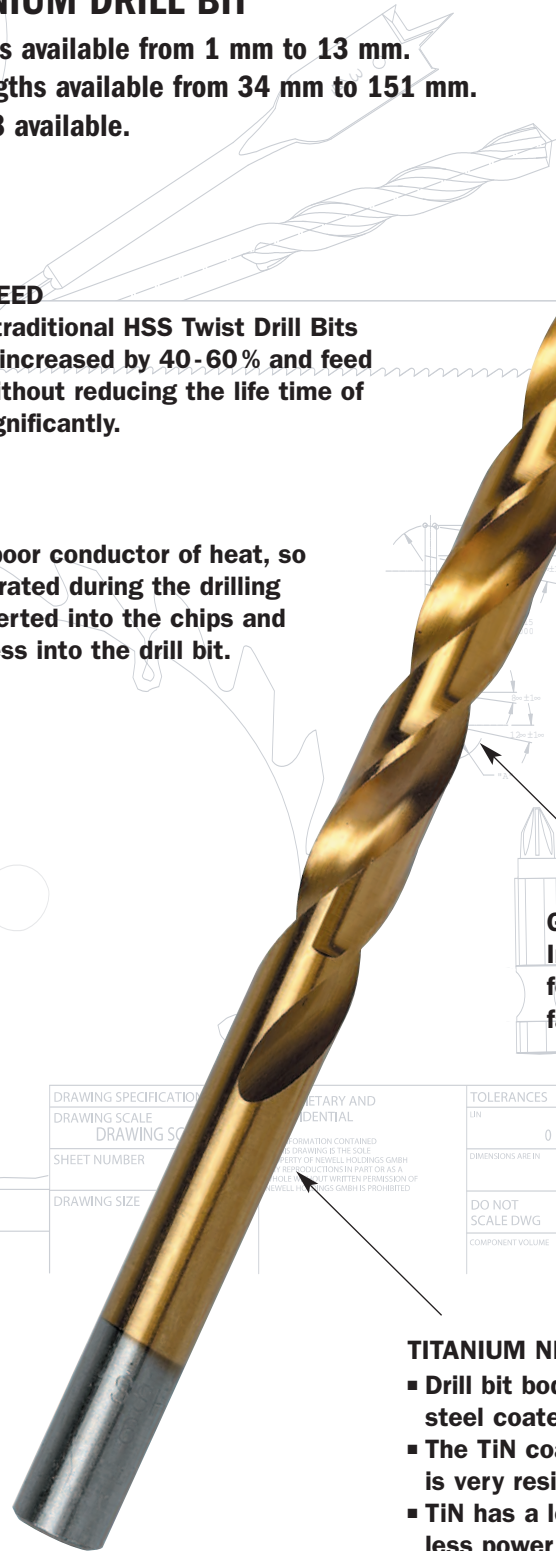
135° SPLIT POINT GRINDING ensures perfect centring and reduced drilling pressure.

GROUND FLUTE

Industrial quality ground flute for high accuracy drilling and fast removal of chips.

TITANIUM NITRIDE COATED

- Drill bit body manufactured from high quality HSS steel coated with 2.5µ Titanium Nitride (TiN).
- The TiN coating has a hardness of app. 80 HRC and is very resistant to wear.
- TiN has a low coefficient of friction. This results in less power being consumed and less heat generated during the drilling.



DRAWING SPECIFICATION		PROPRIETARY AND CONFIDENTIAL		TOLERANCES		IRWIN		DESCRIPTION	
DRAWING SCALE		DRAWING SCALE		DIMENSIONS ARE IN		DATE		DRAWN BY	
SHEET NUMBER		DRAWING SIZE		DO NOT SCALE DWG		22-Sep		IRWIN INDUSTRIAL TOOLS GMBH	
CHECK		DATE		COMPONENT VOLUME		DRAWN BY		D - 85399 Hallbergmoos	
ENG. MANAGER		DATE				DWG NO		DRW0001	

