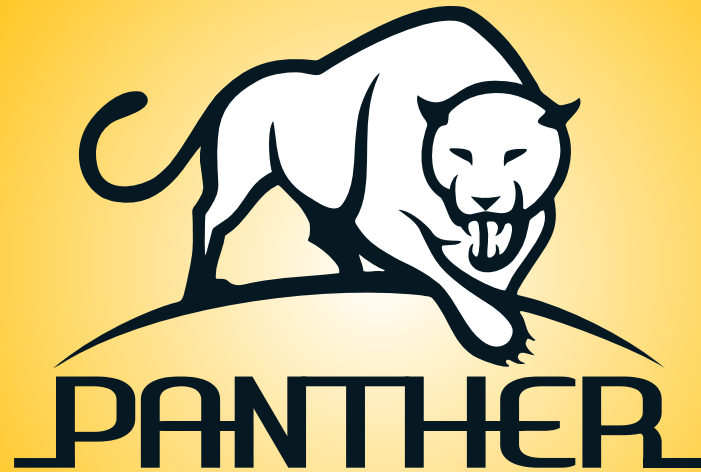
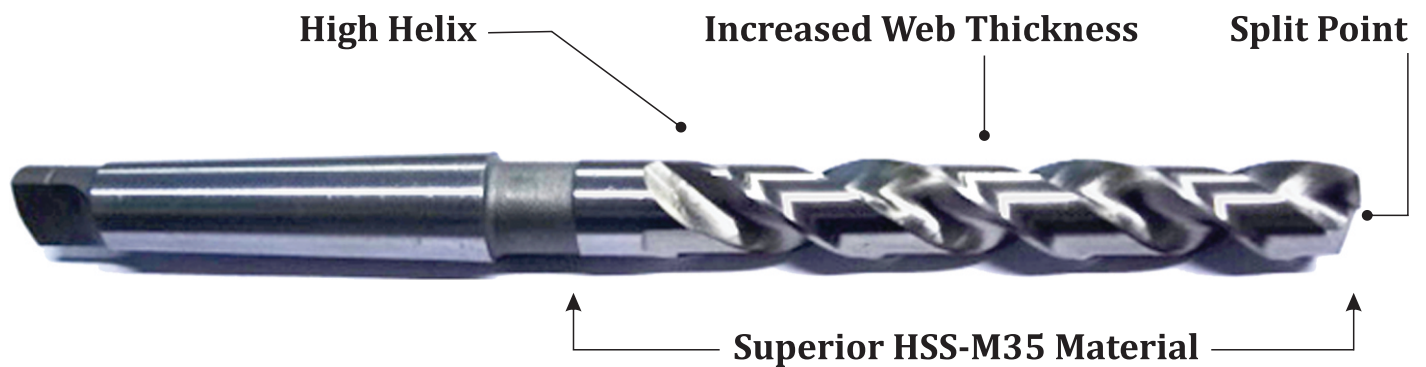


NEW



• Quicker • Sharper • *More* Powerful

HSS-E TAPER SHANK TWIST DRILLS



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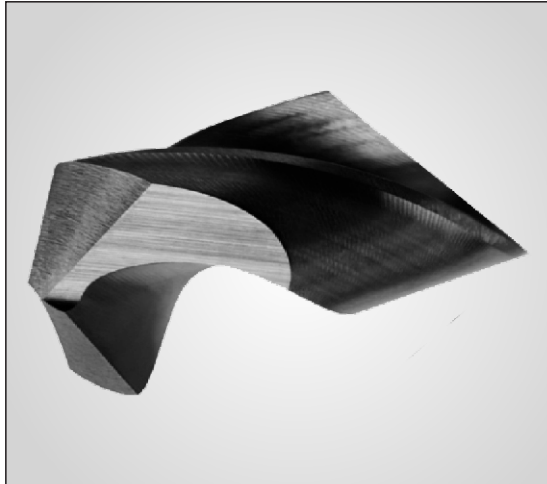
Internationally acclaimed PANTHER is set to perform at its best, so big tasks become easy. Choose **New PANTHER Drills & Taps** for all your precision work and feel assured!

PANTHER Series of products are result of extensive study and continuous efforts put in by our Research and Development team, which has resulted in Superior Quality products which are better than every product in it's category.

Panther Series Drills:

Indian Tool Manufacturers (ITM) – A division of **Birla Precision Technologies Limited**, is now launching **Panther - Taper Shank Drills**, a new series of Superior quality drills.

Panther series of TS Drills are made out of finest grades of HSS premium materials. These drills are produced from our latest CNC Machines, with unique geometry to give better accuracy holes and best performance. These drills are developed to machine hardened steel materials like Stainless Steel, Nickel chromium Steel, Forged Steel, etc.



Salient Features :

- **Split point** will reduce thrust forces while drilling
- Drills are **Cryo-treated** for better performance
- **Increased Web-thickness** for rigidity
- **Superior HSS-M35** material for better productivity
- **Wider Flutes** for optimum chip evacuation
- High Helix for **Increased Penetration Rate**
- PANTHER Drills have unique point geometry

Size Range:

- Panther Drills are manufactured in Metric series as per IS 5103 and Inch series as per BS 328
- Metric size: 10 mm to 25 mm
- Inch Series: 3/8" to 1"

Applications:

Panther Drills are suitable to drill on :

- Stainless Steel
- Forged Steel
- Nickel chromium steels and for tougher applications.

Work Material	Stainless Steel		Nickel Based Steel		Difficult to cut Steel	
Cutting Speed (Vc)	10 m/min		6 m/min		4 m/min	
Diameter (mm)	RPM	(Feed (mm/rev))	RPM	(Feed (mm/rev))	RPM	(Feed (mm/rev))
10.0	315	0.12	190	0.10	125	0.08
12.0	250	0.14	160	0.12	110	0.10
14.0	225	0.17	140	0.14	95	0.11
16.0	200	0.19	120	0.16	80	0.13
18.0	175	0.22	110	0.18	70	0.14
20.0	150	0.24	100	0.20	65	0.16
22.0	140	0.26	90	0.22	60	0.18
24.0	130	0.29	75	0.24	55	0.19
25.0	125	0.30	75	0.25	50	0.20



**INDIAN TOOL MANUFACTURERS (DIVISION)
BIRLA PRECISION TECHNOLOGIES LIMITED**
REGISTERED OFFICE: 23, Birla Mansion No. 2, 1st Floor,
D.D. Sathe Marg, Prarthana Samaj, Mumbai - 400004.



Branches

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