

DIAMOND TOOLS

**NORTON
ADVANTAGE**

Grindwell Norton's new plant in India brings you Saint-Gobain Abrasives' Superabrasive products. Trained product specialists can support you to get the best of your grinding process and offer you a grinding system solution. A wide range of items ensure easy availability.



TYPICAL APPLICATIONS

- ▶ Bore grinding (using small wheels)
- ▶ Profile grinding
- ▶ Low cost option in place of Multipoint Dressers for Surface grinding
- ▶ Double disc grinding
- ▶ Cylindrical grinding
- ▶ Centreless grinding

Single Point Dressers

The dressing tool performs the key functions of dressing and truing thereby ensuring the productivity and quality and hence, is a key component in the grinding system. Only a correctly chosen and properly used dressing tool allows full utilization of the abrasive and the machine. Maintaining tight tolerances, repeatability of dimensions and automation in grinding and dressing depend on the usage of a good quality dresser.

In spite of a comprehensive range of dressing tools available today, single point dressing continues to take a major chunk of usages as it remains the most versatile dressing solution. It is very difficult to replace single point dressers even today, unless the demands on quality, productivity and cost are critical and consistently is an issue. The quality and reliability of single point dressers depend significantly on the quality of diamonds used. There are no international standards for diamond quality and much depends on the consistent supply of good quality tools from the supplier. Grindwell Norton offers a range of single point dressers, optimally designed to give you consistent and reliable performance.

Availability

Single point dressers are offered by Grindwell Norton in three different categories:

- ▶ **PNS Type dressers** use a standard quality throwaway type diamond with a rugged shape and bruted point. They are economical and long lasting.
- ▶ **SC Type dressers** are available with superior quality diamond and 2 settable points.
- ▶ **Gem Type dressers** are made with crystal clear, high quality diamond in smaller carat sizes with natural points. These dressers are best suited for applications when continuous dressing is required.

The dressers are stocked in standard shank sizes of 12.5 mm x 150 mm. They are made to other shanks on request.

STOCK AVAILABILITY

Carat	NS	SC	GS
0.05			GS005
0.07			GS007
0.10			GS01
0.15	PNS1		GS1
0.20			GS02
0.25	PNS2	SC2	GS2
0.35	PNS3	SC3	GS3
0.50	PNS5	SC5	GS5
0.75	PNS7	SC7	
1.00	PNS10	SC10	
1.50	PNS15	SC15	
2.00	PNS20	SC20	
2.50	PNS25	SC25	
3.00	PNS30	SC30	
3.50	PNS35	SC35	
4.00	PNS40	SC40	
4.50	PNS45	SC45	
5.00	PNS50	SC50	

SpecCheck

SELECTION OF DIAMONDS

The selection and classification of diamonds require a lot of experience and access to best quality sources of buying.

Diamonds used for dressing are graded as follows:

- ▶ Regular octahedron shape with 4-6 points used in gem quality GS dressers with best mine sources.
- ▶ Round shape bruted to give a good point and accurate centrality used in SC type bruted dressers.
- ▶ Cubic shape regular, base quality throwaway type, with one bruted set point used in NS type dressers.

Performance of diamond dressers depends significantly on the quality of diamond used in the tool. Grindwell Norton dressers use optimally selected diamonds from the best sources.