



Manufacturers & Exporters

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SINCE
1987



A PRODUCT OF NEXT GENERATION

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SRI TIRUPATI BALAJI INDUSTRIES



DIAMOND

DRESSING & CUTTING TOOLS

SINCE
1987



A PRODUCT OF
NEXT GENERATION

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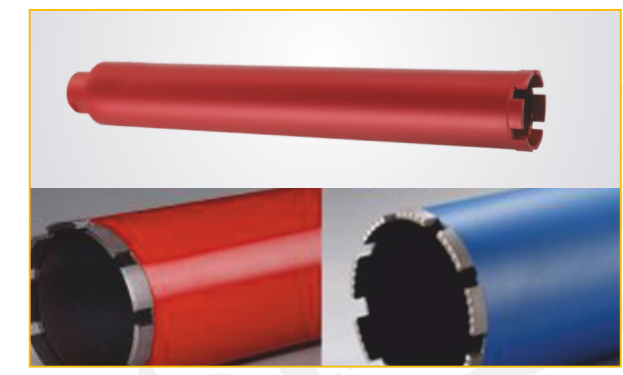
DIAMOND CORE DRILL BITS

STB a professional diamond core bits factory involved in diamond core drill bits manufacturing since 1987 specializing in the manufacturing of wet diamond core bits, dry diamond core drill bits, crown diamond core drills bits, core drills for granite marble & concrete. Spare Waves type Diamond segments for concrete core bits re-tipping is also available for wholesale.

- For hole in Hard Granite, Marble, Concrete
- Size: 6.5mm to 100mm Dia
- Suitable for Angel Grinder Machine/Normal Drill Machine
- Special metal bond for longer life
- Chrome, powder coated finish available.
- Special stud for use in drill machine



DIAMOND CORE DRILLS



- Thread Size: 1 1/4 UNF
- Total Length: 450mm
- Working Length: 400mm
- Wave type segment for high performance
- Segments made from special bond for extra life

Size Dia (mm)	Segment in 1pc
52mm	4pcs
65mm	5pcs
77mm	6pcs
90mm	7pcs
102mm	8pcs
127mm	10pcs
152mm	12pcs
162mm	13pcs
180mm	14pcs



STB WAVE STYLE CORE DRILL SPARE SEGMENT

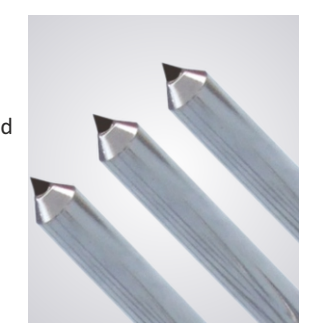
- Available in different size as per requirement
- Special diamond bond for longer life
- Wave type shape for high performance

SINGLE POINT DIAMOND DRESSER NATURAL & BRUTED POINT

STB manufacturers single point bruted diamond dresser with high quality selected congo round diamonds. We select each & every diamond in according with quality & size. We have three different grades of diamonds A/B/C available from 0.16 CT to 8.00 CTs. It is normally based on the required grinding finish, machine, working parameters, size & style of wheels.

GUIDELINES

- Diamonds are sensitive to heat so considerable core should be taken in mounting the diamond dresser.
- The dresser must be clamped rigidly in place to avoid vibration once dressing begins.
- The diamond holder should be an angel of 5-15° to the direction of wheel so that it appears to be trailing.
- The maximum depth of cut achieved per dressing pass is 0.03mm or on fine grit wheels approx. 0.005-0.01mm.



Fed rate for Grinding Wheels

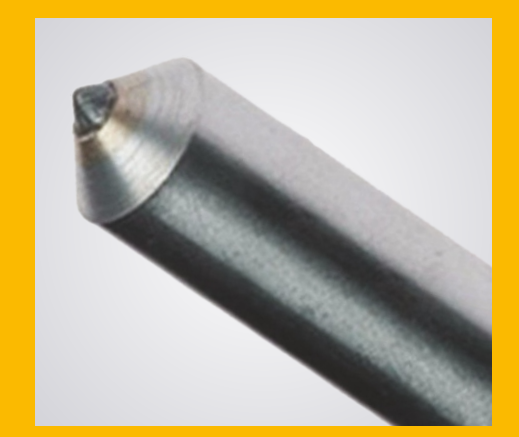
Grinding Wheel	Feed Rate
30 - 46	0.60 - 0.30
50 - 120	0.30 - 0.10
180 - 320	0.10 - 0.02

Applications

Single point dressers are used for OD and/or side dressing of conventional wheels. They can be used on Cylindrical Grinders, Surface Grinders, Tool and Cutters.

Sizes:

- Standard shanks : 1/2"x6" up to 3.50 cts and 5/8"x6" over 3.50 cts.
- We also offer customized shanks to match your application.





DIAMOND COATED FILE

We made these files from synthetic diamonds in Fine/Med/Coarse grits. These files are having diamond coating therefore these are used for filing hard and brittle materials. These files are ideal for alloy steel, tungsten carbide, glass, tool steel, semi-precious stones, hard stones, die mould, saw blades, cutting tools, carbide insert and wherever hard grinding and sharpening is required. These files are available in various shapes to cover all forms of engravings and material removals.

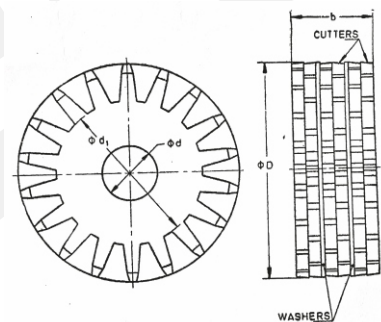
Available in : Taper Flat, Square, Hand Flat, Half Round, Round, Three Square, Square and Knife

Key Features:

As they are thinner, they can be used in tighter spaces than normal files

Size:

Total Length : 160mm
Coated Length : 80mm
Thickness : 3mm



WHEEL DRESSER CUTTER

Nominal Size of Wheel Dresser	Cutter and Washer Dimensions			Bore Dia d ± 0.12	b Max	Base Circle Dia d ₁ ± 0.2	No. of Cutters	No. of Washers
	Outside Dia D ± 0.25	Thickness						
		Cutter	Washer					
0	30	2	0.65	6.35	10	21	4	2
1	38	2	1.0	12.7	11.9	26.5	4	2
2	60	3	1.0	15.1	23	39	6	2

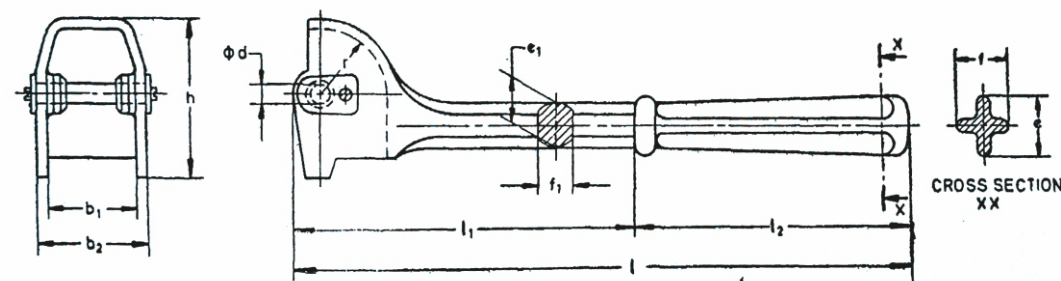
- Made from special cold rolled Steel
- Hardened & Tempered fully guaranteed.
- Available in black finish.

HANDLE FOR EMERY WHEEL DRESSERS

The STB Wheel Dressers & Cutters are used for maintaining the sharpness and longevity of your solid abrasive wheels. The dressers are designed with a powder-coated body and a cast iron handle that provides a comfortable grip. The star-shaped teeth of the cutters are designed to effectively expose new grains and provide a fresh unloaded surface on the wheel, ensuring that the abrasive wheel cuts cleanly and efficiently.

The cutters are also available as a set of 4 spare parts, allowing you to maintain the sharpness of your abrasive wheel over time. Our Wheel Dressers & Cutters are an essential tool for keeping your solid abrasive wheels in top working condition.

Nominal Size of Wheel Dresser	l	l ₁	l ₂	r	d	b ₁	b ₂	e ₁ ±	f ₁ ±	h
0	285	155	130	30	5	25	40	25	16	63
1	285	155	130	30	8	25	40	25	16	63
2	340	190	150	45	10	48	63	30	20	85



DIAMOND PASTE

STB offers high-grade diamond lapping paste that is manufactured using qualitative diamond powder along with appropriate components, in order to ensure efficient application and achieve the desired quality of results. Available in both oil as well as water-soluble mediums, our diamond lapping paste finds application for quick polishing of all kinds of hard metals and for rendering a superior degree of finish to them.

STB range of diamond lapping powder is extensively demanded by manufacturers of dies, seals, moulds, components and other similar industries where a high degree of polish is required.

Our diamond lapping powder can be made available in fine, medium and rough pastes and is packed in syringes of 5 C.C., so as to ensure easy and safe handling. To ascertain efficient application and optimum results, the work conditions and the stock to be removed are taken into consideration to determine the appropriate grade.



Applications

- Wire drawing** Tungsten carbide dies, rolls, guides, etc. Electronics -Semi-Conductor wafers, laser rods, tape heads, computer memory discs, radar tracking discs, etc.
- Metal Working** General production components, mechanical seals, bearing seats & pivots, ceramic components, fuel injection valves hydraulic & pneumatic components, pump glands, etc.
- Ship building** Diesel injector valves, pump glands & seal faces, aluminum mirrors, etc.
- Optics** Contact lens moulds, stainless steel mirrors, Perspex prisms, etc.
- Tool Rooms** Press tools, tablet punches, test blocks, gauges, plastic moulds, slide surface, etc.
- Laboratory** Metallurgical, Geological and Refractory specimens, Crystallography, Fibre optics, etc.
- Aeronautics** Seal plates of jet engines, hydraulic valves, spacers, etc.
- Petrochemicals** Pump faces, valve seats, spinnerets, wear blocks, etc.

Grades	Code No.	Colour Code	Guide for recommended use
SUPER FINE POLISH	D-1	White	Metallographic finish on steel & Very high finish of steel and hard metals.
	D-2	Grey	For finish Tungsten Carbide dies, mirror polish on steel and hard steel moulds and gauges etc.
FINE POLISH	D-3, D-4	Green	Mirror polish and high finish on tungsten carbide, finest polish on sapphire, ruby, steel etc.
	D-5, D-6, D-7	Yellow	Medium Polish on steel, Tungsten Carbide
MEDIUM POLISH	D-10, D-14	Orange	Removal of working scratches on steel and prepolishing of steel and soft metals. Medium polish on Tungsten Carbide, pre-polishing on sapphire and ruby.
MEDIUM CUTTING	D-15, D-20, D-25	Pink	Rapid stock removal with better finish on steel and Tungsten Carbide
	D-30, D-40	Brown	Uniform stock removal on steel, Generation of uniform surface and medium cutting on Tungsten Carbide.
ROUGH CUTTING	D-50, D-60	Red	Fast Stock removal on Tungsten Carbide and any hard metal & enlarging the bore of Drawing Dies.
	D-80, D-100	Black	For Speedy cutting on Tungsten Carbide & Steel and any metal.

Diamond Compound is available in standard & high concentration in 5 gm syringe.

CLUSTER TYPE DRESSERS

Cluster type diamond dressers made from small special quality crystal character, rough diamonds. We used special bond for sintering these diamonds for longer life. These dressers are more economical than single point diamond dressers. The diamonds can be fully utilised without re sharpening. These dressers can give rapid dressing without scoring and produce a consistent even surface on the grinding wheel.

Guidelines

- Angle should 90° to the grinding wheel.
- Normal wheel speed should be used with smaller cutes.
- Good quality of coolant should be used.

Applications

- Ideal for coarse or rough dressing of grinding wheels in sizes up to 80 grit.
- Ideal for grinding to eliminate imbalance.



Size	CT. WT (approx.)	Dimensions
5/D	1.25	
7/D	1.75	
9/D	2.00	
12/D	3.50	

Our Standard is 5/8" x 6". If required other size kindly specify D & L

Classifications	Micron	Code No.	Colour Code	Guide for recommended use
For operations requiring precise finishes and tolerances	SUPER FINE POLISH	D-1	Blue	Metallographic finish on steel & Very high finish of steel and hard metals.
		D-2	Blue	For finish Tungsten Carbide dies, mirror polish on steel and hard steel moulds and gauges etc.
Final finishing grades for moulds, dies, seals, flat lapping and production lapping	FINE POLISH	D-3, D-4	Green	Mirror polish and high finish on tungsten carbide, finest polish on sapphire, ruby, steel etc.
		D-5, D-6, D-7, D-8	Yellow	Medium Polish on steel, Tungsten Carbide and Diamond.
	MEDIUM POLISH	D-10, D-14	Orange	Removal of working scratches on steel and prepolishing of steel and soft metals. Medium polish on Tungsten Carbide, pre-polishing on sapphire and ruby.
Grade for pre-finishing hard metallic and non metallic materials tungsten carbide. ceramics etc.	MEDIUM CUTTING	D-15, D-20, D-25	Pink	Rapid stock removal with better finish on steel and Tungsten Carbide
		D-30, D-40	Brown	Uniform stock removal on steel, Generation of uniform surface and medium cutting on Tungsten Carbide.
Maximum stock removal for hogging and rigging operations in extremely hard materials	ROUGH CUTTING	D-50, D-60	Red	Fast Stock removal on Tungsten Carbide and any hard metal & enlarging the bore of Drawing Dies.
		D-80, D-100	Black	For Speedy cutting on Tungsten Carbide & Steel and any metal.

Diamond Compound is available in standard & high concentration in 5 gm syringe packing in oil & water soluble.

GRADE MIC. SIZE	COLOUR CODE
1/2 - 1	WHITE
1 - 2	WHITE
1 - 3	WHITE
2 - 4	WHITE
2 - 6	YELLOW

GRADE MIC. SIZE	COLOUR CODE
4 - 8	YELLOW
8 - 12	YELLOW
15 - 25	GREEN
20 - 30	GREEN
30 - 40	BLUE
40 - 60	BLUE

