

Location

Our plant is situated in the heart of Coimbatore City, an Industrial Town which is known as "The Manchester of South India".

Range of Manufacture

We manufacture Single Point & Multi Point Diamond Dressers, Blade Type & Chisel Type Diamond Dressers, Impregnated Diamond Dressers, Rockwell & Vickers Hardness Testers, Turning & Boring Tools, Diamond Files, Diamond Slitting Discs, Diamond Lapping Compound, Resin Bonded, Metal Bonded and Electro Deposited, Diamond & CBN Wheels, Diamond Deep Drills and Diamond Honing Sticks. We also make customised Tools as per the specification and drawings of our customers.

Equipment

Our factory is equipped with the entire range of quality control equipments like Tools makers Microscopes, Profile Projectors & Other special purpose machines which help us to produce & develop Diamond Tools with the highest degree of precision & quality.

Management

Our Management consists of highly qualified Hardcore Engineers, Technocrats and personnel with rich and resourceful experience and know-how in this field for over two decades.

Quality Control

We take utmost care in every stage of manufacture right from selection of raw materials to the finished tool and cent percent quality is ensured by our Quality Control Engineers, before final despatch.

Research & Development

Our R & D Engineers strive in right earnest to constantly improve the quality of our tools to ensure the Best Quality at the most competitive prices.

Future Project

We are in process of setting up a sophisticated facility to manufacture PCD, PCBN Tools and Diamond Circular Saw Blades in the very near future.

Single Point Diamond Dresser

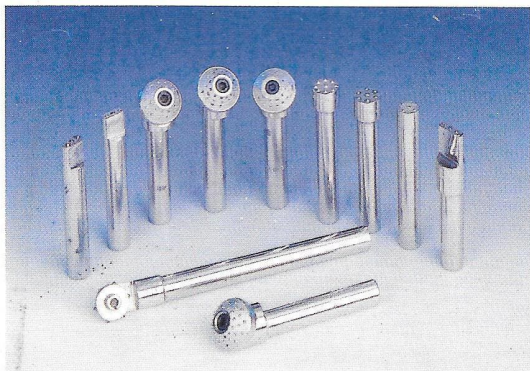


Balaji Single Point Diamond Dressers are made of selected diamonds, Mounted in a matrix. Only one cutting edge is presented to the grinding wheel. Diamonds for Single Point Dressing Tools are selected for their structural strength, number of points, degrees of sharpness, and lack of detrimental flaws. The proper selection of size and quality appropriate for a given application required qualified judgement.

We offer four grade of diamonds for Single Point Dressers.

- Bruttet - "MA" Grade - Average.
- Bruttet - "MS" Grade - Superior.
- Bruttet - "MES" Grade - Extra Superior.
- Natural Point - "GEM" Grade.

Cluster Type Diamond Dressers



Balaji Cluster Type tools replace large single points. The clusters consist of 5, 7, 9, 12 small diamonds set in a variety of patterns for dressing larger or coarser and harder wheels. Since more than one diamond comes in contact with the wheel, the work load is divided. Also, since smaller diamonds are less expensive per carat than large stones, cluster tools often effect important savings.

Multipoint Indexable Crown - Balaji Multipoint Diamond Dresser in which sharp natural diamonds are set in a circular crown at right angle to the operating plane. As soon as the diamonds on the indexed position are completely used up, the crown can be readjusted on the shank for new points. Shanks for the crown are made to customer's specification.

Application - All types of larger wheels & cylindrical centreless grinders where fine truing is considered important.

Diamond Grit Impregnated Dressers



Application

Balaji Grit Impregnated Dressers are used mainly for finish grinding, i.e. on screw-thread gear, thread gear teeth and profile grinding machines as well as on tool grinders, plain grinding machines and ball grinding plant.

The diamond grain, concentration and bond are appropriately inter adjusted.

Advantages

- Restores the required effective roughness of the wheel surface is adapted to the machining operation by varying the traverse dressing feed.
- Complete use without maintenance.
- The dressing of acute angled wheel profiles presents no problems.

Blade Type Dressers



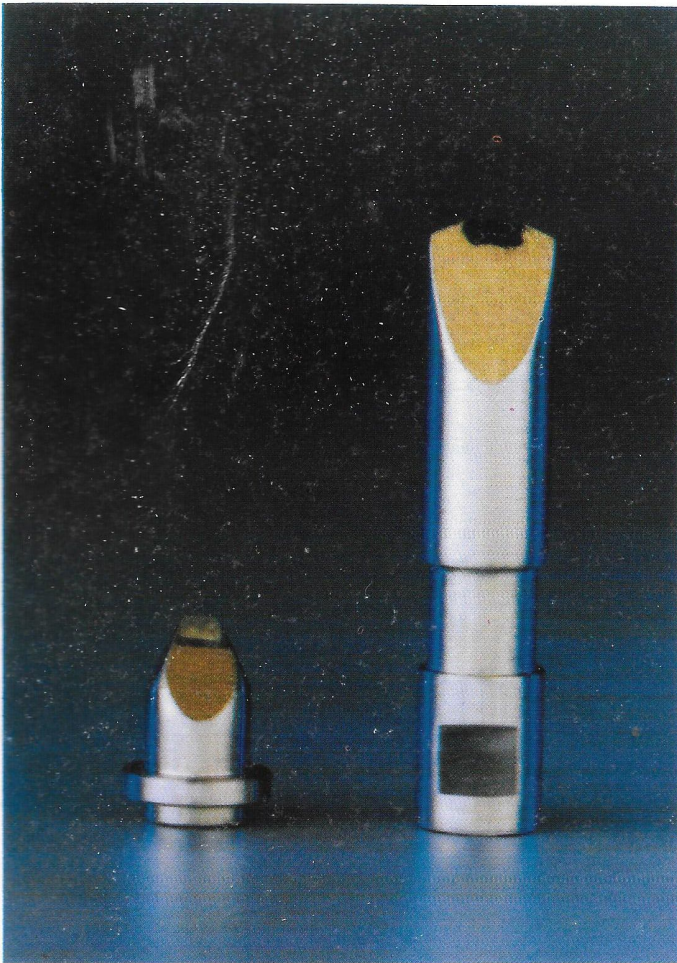
Application

Specially recommended for Angular and centreless grinders. If desired, available with swiveling holder or with diamond abrasive plate brazed in a shank.

Advantages

- Whole non-crushed natural grains, very uniformly disposed in a special pattern.
- Hand-set for confirming to very close tolerances on the work piece, more particularly for truing and forming of profiles.
- Restores the required effective roughness of the wheel surface is adapted to the machining operation by varying the traverse dressing feed.
- Complete use without maintenance.
- Reduced inventory.

Forming and Chisel Dressers



Forming Dressers are used for profile dressing of a grinding wheel meant for thread and gear grinding. The forming chisels and cones are used for this purpose and are made of the right quality of diamond cut and polished to the profile of the part to be ground. These chisels and cones are made with tolerance for radius and angles. Forming dressers are used on machines such as Matrix, Newell, Reishauer etc. whereas the Chisel dressers are used on machines such as Diaform, Akuform and other types of radius and profile forming equipment.

Diamond Turning & Boring Tool

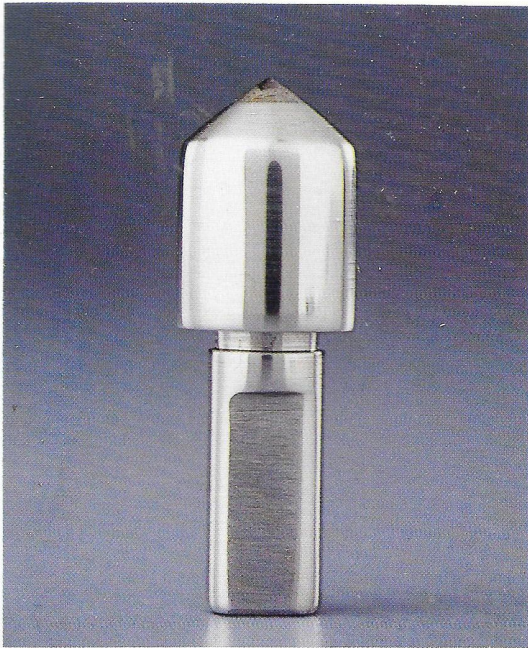


These tools are widely used for precision turning and boring of non-ferrous materials like Aluminum, Magnesium, Gold, Silver, Titanium, White Metal, Bronze, Zinc, Brass, Copper, Gun Metal, Plastics, Hard Rubber, Vulcanite, Asbestos, Ceramics, Graphite, Sintered Carbides and other abrasive materials.

A high accurate mirror finish can be obtained during turning facing, boring and fly-cutting. The tool shape and the size of the shank are varied according to the application and the machine employed. Special tools are also manufactured according to the customer's drawings and specifications.

Please note that Diamond Tools are not used on ferrous metals.

Rockwell Diamond Indenters



An exceptionally fine clean Octahedron diamond is super lapped to an exact angle of 120 degrees with incredible MICROFINISH, to provide the highest standards of precision and performance.

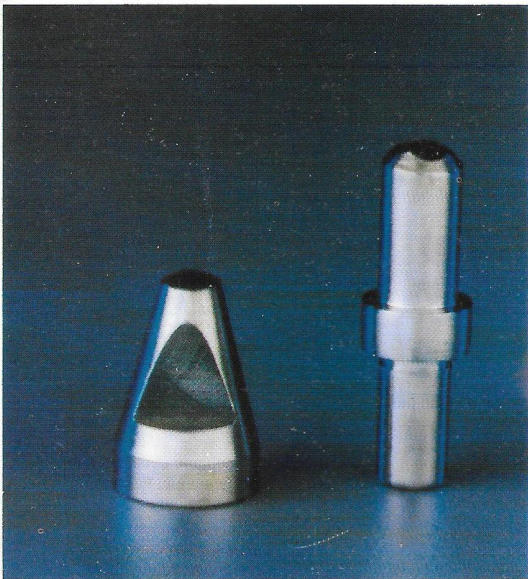
Type of Indenters

- Rockwell
- Reicherter
- Avery
- Wilson

Grades Available

- Grade I
- Super Grade
- Extra Superior Grade

Vickers Type Indenter



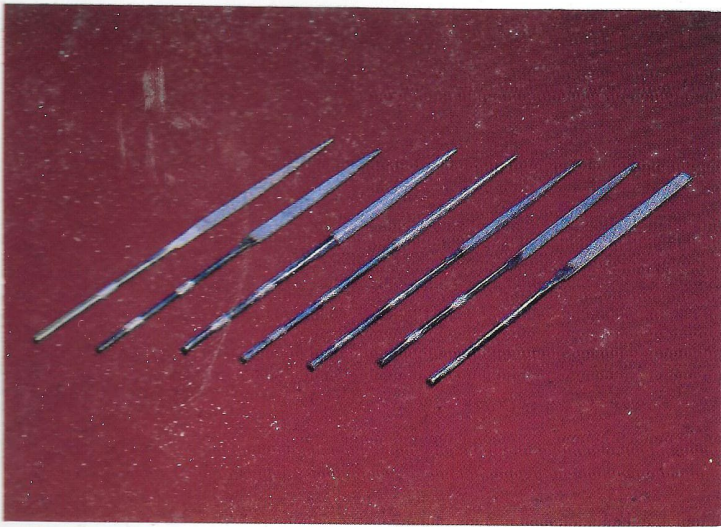
A superior quality clean "GEM" quality Diamond is super lapped to a square pyramid with an apex angle of 136 Degrees, to provide the highest standards of precision and performance.

Balaji Diamond Lapping Compound



Balaji Diamond Lapping Compounds are manufactured from pure accurately graded diamond powders and are evenly distributed in a chemical base to ensure quick cutting action and longer operational life. You get incredibly brilliant finish on ferrous and non-ferrous metals, cemented carbide cutting tools, cavities of plastics moulds, wire drawing dies, watch cases, calendar rolls, metallurgical and geological specimens etc. Each grade of the compound is of a different colour which allows immediate identification for the job involved.

Diamond Files



Balaji Diamond Files are available in different shapes and are recommended for machining carbide or hardened steel moulds. Grit size is recommended according to the required surface finish. They offer numerous possibilities for tool making and in mechanical engineering production - not only for finishing of work pieces, but also for forming of shaped sections in hard metals and hard plastics.

Diamond Mounted Points & Cone Laps

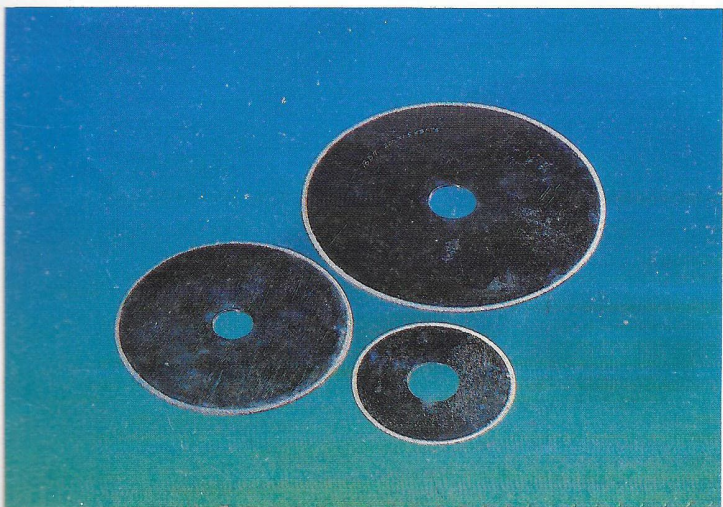


Diamond Mounted Points are used for small diameter machining and high speed grinding.

Diamonds are deposited in every possible shape, providing the internal grinding wheels with a wide range of capabilities even for application such as for internal grinding of carbide dies/wear parts.

The advantages of the pins are: they enable faster stock removal, generates more production, can avoid coolant, avoids dressing and makes it easy for making complicated forms.

Diamond Cut-Off Wheel



Continuous rim type diamond saw blades are used for cutting various materials such as tungsten carbide, ceramics, glass, ferrites, synthetic stones and other construction materials such as glazed tiles etc. available in various sizes from 75 to 300 mm dia. These cut-off wheels can also be used for cutting high density carbons, fibre glass, glass reinforced plastics, hard rubbers and hard plastics.

Diamond Wheels



Balaji Diamond Wheels are of superior quality and available in Resin, Metal and Electrometallic bonds. They are used for grinding carbides, glass, ceramics, ferrites and other hard and abrasive materials. These are available in diameters ranging from 10.0 mm to 300 mm. Bond type, grit size and concentration are selected to ensure maximum wheel performance according to the application.

Diamond Deep Drills



Balaji Diamond Drills are used for drilling glass, ceramics, marble and granite. These tools are durable and give high accuracy and outstanding efficiency. They are available in various sizes with Head dia.

4.0 mm dia	12.0 mm dia
5.0 mm dia	15.0 mm dia
6.0 mm dia	20.0 mm dia
8.0 mm dia	25.0 mm dia
10.0 mm dia	32.0 mm dia

Diamond Honing Stick



Diamond/CBN hones with their economically longer life, have contributed in no small measures to this rapid development. Diamond/CBN honing has proved in particular suitable means of honing mass - production in cast - iron parts, steel components, like honing gear bores, connecting rod, which major application in the transport industry.

Materials successfully honed with Diamond and CBN now include tungsten carbide, hardened steel, non - ferrous metals and glass. Diamond/CBN honing is not restricted merely to the finishing of cylindrical bores, it may also be used to advantage for finishing conical bores. Infact, almost all types of materials may be honed to obtain optimum surface finish, high tolerances and high removal rates. The noise level of a CBN hone is far less when compared with conventional abrasives hone.

Standard Honing Stone - Only used in connection with a stone holder.

Order Formula - B x H x L x Y (mm).

