



Super Diamond Tools. Simple Solutions for complex problems

**Manufacturers of
Diamond Honing sticks
Diamond Wheels,
Diamond paste
Diamond Dressers
Cork Honing Sticks**

★
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★ Contact us at
★ V.Padmanabhan
★ no 7/2, V.K. house, Vinayagam Street,
★ Sri Venkatesh Nagar,
★ Virugambakkam
★ Chennai 600092
★ Phone: +91-44-23774012
★ Fax: +91-44-24742007
★ E-mail: marketing@superdiamondtools.com,
★ superdiamondtools@gmail.com.
★ Mob: +919444463316/09962100540
★
★ ★



Super Diamond tools Diamond Honing sticks

We are very pleased to introduce ourselves as one of the best engine cylinder liner, hydraulic and pneumatic cylinder liner honing stick, bearing honing sticks manufacturers in India, We have experience in



this field for nearly forty years and are having large, medium and small scale industries as our clients. Our quality products helps us to gain customer confidence day by day. Some of our big clients include Kusalava liners international, Liners India, Hi tech liners industries, Jai Auto Liners, BHEL TRICHY,

Ganesh Industries Belgaum , Vikhram Hydraulics Coimbatore, Blue Mount Machine Works, Coimbatore, Gama Engg. Vijayawada, Wabco-TVS (India) Ltd, Chennai, Force Motors Pune and list is long if we consider small and medium sized organisations. The reason is simple, Our honing tools make the engine/hydraulic Cylinder liner and bearing production in large volume - cheaper and give more value for the money spent on honing process. We have good support and can offer good assistance with respect to the honing process. our core speciality is manufacturing Diamond honing stone and our stick advantages are as follows.

Wabco-TVS (India) Ltd - Supp.Code: 110936, BHEL High Pressure Boiler Plant, Trichy- Vendor.Code: 11697, BHEL SSTP TRICHY-Vendor Code: 19114



Super Diamond tools Diamond Honing sticks

Metal Bond Diamond Honing sticks and Cork honing sticks



Advantage of using Diamond honing stones instead of conventional abrasive stones

- 1.) Diamond honing sticks are trouble free when used properly.
- 2.) By one set, 4 nos metal removal and surface finish can be achieved. However for super finish in bearings and for original liner finish we recommend Cork Honing sticks which are much superior in finish and can replace Water emery operations.
- 3.) No taper and ovality will develop in the bore, provided if sticks are properly set.
- 4.) Diamond stick will remove material in cast iron ,steel and hot chrome, but in case of hot chrome the production will be slightly less compared to other metals.
- 5.) An average metal removal of 2 thou per bore on standard Auto liner bore, one set of four honing stick will produce min 7000 bores and more
- 6.) Time taken will be 50% less than ordinary abrasive stones
- 7.) Even though the initial cost is slightly high compared to ordinary stone, during long run diamond stone are economical in all aspects.
- 8.) Diamond stones are available from 80 grit mesh to 1200 grit mesh size and surface finish.
- 9.) cork honing process after Diamond honing will give best finish RA value of your choice.



Super Diamond tools Diamond Honing sticks

Metal Bond Diamond Honing sticks.

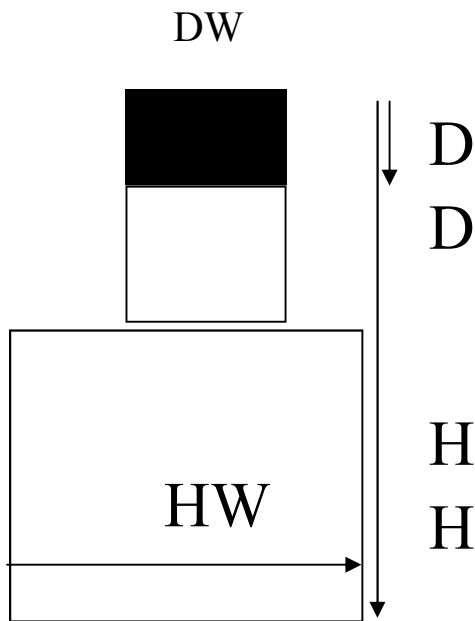
We need the following information before we recommend the correct product to you:

- 1) Dimension of the stick(mild steel) in mm HW x HH x DD (height required, normally 3 to 5 mm only) and DW as per the diagram herewith.**
- 2.) Expected metal removal.**
- 3.) Type of material to be honed(mild steel, carbon, hard chrome) and their hardness**
- 4.) Type of finish required and their Ra or RZ values**
- 5.) To get the best result and finish, we will recommend Diamond Honing along with cork honing finishing to get best finish and long life.**
- 6.) Number of sticks in the honing holder and**
- 7.) Your honing requirements per month, for us to suggest a suitable grade of Diamond for honing.(normally course finish will give good metal removal and fine grit will give superb finish)**
- 8.) Requirements of Cork honing process to get super finish on the final product. For available Dimension of cork honing sticks Please see Cork honing stick manuals**

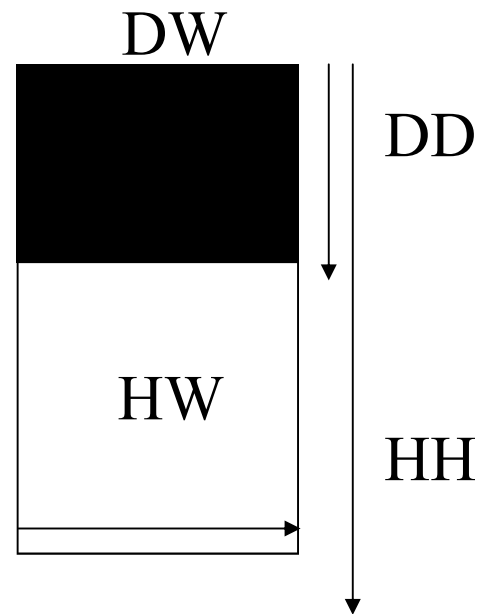


Super Diamond tools Diamond Honing sticks

Metal Bond Diamond Honing sticks.



Inverted "T" shaped tool



Rectangular shaped Tools

DW == Diamond width required

DD == Diamond depth required

HH == Total Holder Height required

HW == Holder Width required in MS

Normally holder width Sits inside the honing holder and $HH + DD$ will protrude out of the holder to touch the cylinder surface for honing.

DD normally is 3, 4 or 5 mm only.



Super Diamond tools Diamond Honing sticks

Cork Honing sticks. Details required .

Cork Sticks are made of Simple environmental and human friendly abrasives found in nature that are strongly bound by Super Diamond tool's unique bonds that will help to scrape off minute materials that are still clinging on to the cylinders and bearings. Please note cork honing will not remove any metal, it will just smoothen the surface of already Diamond cut areas. Gentle use of the stick is enough to get the required Ra value. You may save upto 30 % when compared to water emery method.

We will need following information before we can decide to give a correct Stick to you. For cork Honing sticks

- 1) Dimension of the stick in mm SL x SW x SH(SL == stick length, Stick width and stick height)**
- 2.) Type of material to be honed (mild steel,carbon, hard chrome) and their hardness**
- 3.) Type of finish required and their Ra or RZ values**
- 4.) To get the best result and finish we will recommend Diamond Honing along with cork honing finish to your product to get the best results, however we would like to hear the same from your end to select a right product for you.**
- 5.) Number of stick in the honing holder.**
- 6.) Your honing requirements per month, for us to suggest a suitable grade of Diamond for honing.(normally course finish will give good metal removal and fine grit will give superb finish)**



Super Diamond tools Diamond Honing sticks

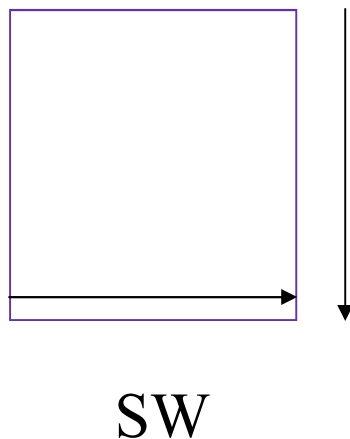
Advantage of cork honing

- 1.) Replaces cumbersome water emery process and economical than Water emery by 30 %
- 2.) Gives original liner Smooth finish to make your product more attractive.
- 4.) Does not have any metal removal effects, thereby helping for long life of engines, fuel efficiency, reducing noise.
- 5.) All sides can be used for honing.
- 6.) our standard Size for the cork honing stick is as follows
 - 75 mm, x 6.5 square sides
 - 75 x 8 mm square side
 - 100 mm x 10 mm square sides
 - 100 mm x 12.5 mm square sidesother special size against bulk orders can be made and supplied.
- 7.) Reduces Ra, Rz values to excellent levels.
- 8.) Preferred by operators when compared to water emery due to less cumbersome methods and organized working with the tool.
- 9.) Presently used in a wide range of industries like bearing industries, liner and hydraulic liner industries as a final stage honing.
- 10.) With just ten gentle strokes the final original finish is obtained without much strain.



Super Diamond tools Diamond Honing sticks

Cork Honing sticks cross section



SL = Stick length required to be given based on holder size.

SH= cork honing stick height

SW= cork honing stick width

Our marketing partners

VHV consultantants

Mr. RAJAN IYENGAR

7-1-72/73 .G.2,*

*ANNAPURNA

APPARMENTS*

*OPP.TO> HOT CHIPS

OF/DARAM KARAM ROAD

Hyderabad-500016

CELL NO 08985499450*

*CELL NO--08106305175

EMAIL: vhvconsultants@gmail.com

Shri Balaji hardware

Belgaum & Goa

Mr. Navneet Heda

No 42, K.L.E Engg college road, Udyambag, Belgaum-590008

Tel 0831-3206699

Mob:9448461601

Telefax 0831-2441601