

AN ISO 9001 : 2008 CERTIFIED COMPANY



GLOBAL LINERS

MANUFACTURER AND EXPORTER

WET & DRY CENTRIFUGAL CAST CYLINDER LINERS & SLEEVES



www.globalautoliners.com

PROFILE

The GLOBAL LINERS is an ISO-9001:2008 certified leading manufacturer and exporter of wet & dry centrifugal cast cylinder liners and sleeves. Due to our vast range of products, we at GLOBAL Liners are ready to fulfill your requirements by supplying tailor-made centrifugal cylinders, liners & sleeves of any specifications and parameters across the world.

We are in this business since last 21 years and now have a capacity to produce around 1 million centrifugal cylinder- liners and sleeves per year. Along with this, we have established a good reputation and have gained faith of our customers & suppliers by following high standard of ethics in the business. We have attained certain standards which we never compromise on. We take great pride in our more than 50 employees, who are well experienced and technically sound to achieve high standards of quality.

Since inception, over a decade, we have developed unique capabilities to offer exclusive & tailor made product range for auto engine centrifugal cast cylinder liners and sleeves suitable for almost any type of automobile engine worldwide. Our passion for quality led us to achieve the international standards of OEMs. Our engine components are used in leading INDIAN, KOREAN, AMERICAN, JAPANESE, GERMAN and other EUROPEAN automobile models. All our products are made exactly as per original specifications, dimensionally and metallurgically. We have an ability to develop any new Cylinder liner and Sleeves as per your specification. Our ability to offer customized solutions and specifications with quality, takes us a step ahead than others. Our passion and commitment to excel, leads us to not only in keeping pace with the changing times but also in visualizing and meeting the dynamic requirements of future.

OUR INTERNATIONAL BRAND RANGE OF CYLINDER LINERS

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- | | | | | |
|-----------------------|----------------------|-----------------|--------------------|----------------|
| ● A.E.C. | ● DAIMLER BENZ | ● JAGUAR | ● MESSEY FERGUSON | ● SAVIEM |
| ● ALBIONALF | ● DAIMLER JAGUAR | ● JAWA | ● METROPOLITAN | ● SCANIA |
| ● AROMEO | ● DAMAS | ● JEEP | ● MINI | ● SEAT |
| ● ANDORIA | ● DAVEY | ● JOHN DEERE | ● MITSUBISHI | ● SHAKTIMAN |
| ● ARMSTRONG SIDDELEY | ● DAVID BROWN | ● KARRIER | ● MORGAN | ● SIMCA |
| ● AUDI | ● DB OM | ● KELVIN | ● MORRIS | ● SINGER |
| ● AUSTIN | ● DETROIT DIESEL | ● KHD | ● MUNKTELL | ● STANDARD |
| ● B.M.C. | ● DEUTZ | ● KIA | ● MWM | ● STEYR |
| ● B.M.W. | ● DODGE | ● KIRLOSKAR | ● NAVISTAR | ● STUDI BACKER |
| ● B.S.A. | ● DONG FENG | ● KOMATSU | ● NEW HOLLAND | ● SUBARU |
| ● BEDFORD | ● DORMAN | ● KUBOTA | ● NISSAN | ● SUNBEAM |
| ● BELARUS | ● ESCORTS | ● LADA | ● NUFFIELD TRACTOR | ● SUZUKI |
| ● BENDIX | ● EICHER | ● LANCIA | ● OM | ● TALBOT |
| ● BLACKSTONE | ● FERGUSON TRACTOR | ● LANDROVER | ● OPEL | ● TATA |
| ● BOLINDER | ● FIAT/IVECO | ● LEYLAND | ● PAXMAN | ● TATRA |
| ● BORGWARD | ● FORD | ● LIAZ | ● PAYKAN | ● TIGER |
| ● BUDA | ● FORDSON MAJOR | ● LISTER | ● PEGASO | ● TOYOTA |
| ● BUHRER | ● GARDNER | ● LOMBARDANI | ● PERKINS | ● TRIUMPH |
| ● CADILLAD | ● HANOMOG | ● LOTUS | ● PETER | ● U.T.B. |
| ● CASE TRACTOR | ● HENSCHEL | ● M & M | ● PEUGEOT | ● VAUXHALL |
| ● CATERPILLAR TRACTOR | ● HILMAN | ● M.A.N | ● POLSKI FIAT | ● VICKERS |
| ● CHEMPION | ● HINO | ● M.G. | ● RABA MAN | ● VOLKSWAGEN |
| ● CHEVROLET | ● HOLDEN | ● MACK | ● RELIANT | ● VOLVO |
| ● CHRYSLER | ● HORNSBY | ● MAN | ● RENAULT | ● WOLSELEY |
| ● CITROEN | ● HUDSON | ● MARUTI | ● RILEY | ● YANMAR |
| ● COMMER | ● HUMBER | ● MATADOR | ● ROLLS ROYCE | ● YAZ |
| ● CUMMINS | ● HYUNDAI | ● MAXION | ● ROMAN | ● ZASTAVA |
| ● DAEWOO | ● IKARUS | ● MAZDA | ● ROVER | ● Z-CUBOTA |
| ● DAF | ● INTERNATIONAL(ICH) | ● MERCEDES BENZ | ● RUSSIAN | ● ZETOR |
| ● DAIHATSU | ● ISUZU | ● MERCURY | ● RUSTON HORNSBY | ● Z-YANMAR |

PROCESS



1 - Foundry / Melting

A foundry is a place where metals are cast into shapes by melting them into a liquid, pouring the metal in a mold, and removing the mold material or casting after the metal has solidified as it cools. In this process, parts of desired shapes and sizes can be formed.

2 - Centrifugal Casting

We use centrifugal casting or rotocasting technique to cast thin-walled cylinders. It is needed to attain results of high quality, particularly for precise control of their metallurgy and crystal structure. In this technique, a permanent mold is rotated continuously about its axis at high speeds of 3000 rpm as the melted metal is poured. The melted metal is centrifugally thrown towards the inside mold wall, where it solidifies after cooling. Impurities and inclusions are thrown to the surface of the inner diameter, which can be machined away.

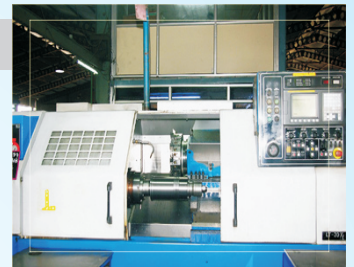


3 - Lathe Machining

A lathe is a machine tool which rotates the workpiece on its axis to perform various operations such as cutting, facing and turning, with tools that are applied to the workpiece to create an desired object. The job can be held in place by one, at least one of which can be moved horizontally to accommodate varying material lengths. To achieve this refined products we have a highly skilled work force.

4 - CNC Machining

Surfaces that require tight dimensional control are machined. Many castings are machined in CNC milling centers. CNC lathes use computers and servomechanisms to regulate the rates of movement. The reason for this is to have better dimensional capability and repeatability than many casting processes. More and more the process of finishing a casting is being achieved using robotic machines which eliminate the need for a human to physically grind or feed.

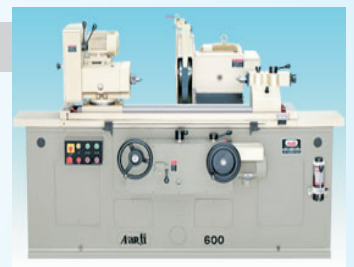


5 - Honing

Honing is an abrasive machining process that produces a precision surface on a metal workpiece by scrubbing an abrasive stone against it along a controlled path. Honing is primarily used to improve the geometric form of a surface, but may also improve the surface texture.

6 - Grinding

Any situation in which extremely precise metalworking is required, the cylindrical grinder is able to provide a level of precision unlike any other machine tool. From the automotive industry, the benefits the cylindrical grinder have given us are immeasurable.



7 - Inspection

We have invested in equipments like Special Gauges, Roughness Tester, Slip Gauges, Height Gauges, Ferro lab, Metallurgical Microscope, Spectrometer from Spectromaxx Germany and Profile Projector etc to help our QA team do the best. On-site Spectrometer helps us maintain our chemical composition for each casting batch conforming to the I.S.S., B.S.S. or ASTM specifications provided by our customers. We also have a state of the art Laser-Marking machine to facilitate proper part marking & identification.

8 - Packaging & Shipping

To reach out to our esteemed customers spreaded worldwide, we offer high quality & attractive packing to delivery the products safely at their doorsteps. We take due care in packaging & sending it in shipments to reach timely at your place.





WHY TO CHOOSE **GLOBAL LINERS**

- ✓ **Strict Quality Control**
- ✓ **ISO 9001-2008 Certified**
- ✓ **Experienced Technical Staff**
- ✓ **State of the art Infrastructure**
- ✓ **Large Manufacturing Capacity**

CHEMICAL COMPOSITION :

| CHEMICAL | MINIMUM | MAXIMUM |
|------------|---------|---------|
| Carbon | 3.00 | 3.50 |
| Silicon | 1.90 | 2.50 |
| Phosphorus | -- | 0.35 |
| Sulphur | -- | 0.15 |
| Manganese | 0.60 | 1.00 |

| CHEMICAL | MINIMUM | MAXIMUM |
|----------|---------|---------|
| Chromium | 0.20 | 0.50 |
| Moly | -- | 0.50 |
| Copper | -- | 0.50 |
| Nickel | -- | 0.50 |
| HARDNESS | 210 | 280 |



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