

AN ISO 9001:2015 COMPANY



Perfect
BORE
CYLINDER LINERS & SLEEVES



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Factory : Ankit Industrial Estate, Plot No. 16, Opp. Hotel Krishna Park, Nr. Rolex Bearing,
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Cylinder Liners



Cylinder Liners



- Centrifugally Cast Cylinder Liners & Sleeves with precise machining.
- Manufactured with IS-FG 220/ASTM material specification with chromium & nickel elements.
- Micro structure & chemical composition analysis of each and every batch.
- Fine plateau Honed cylinder liner bore.
- Cylindrical Grinding to archive geometrical parameters.
- Randomly inspection of honing angle and structure of cylinder liners.
- Random check tensile strength and profiles.
- 100% Dimensional inspection of finished cylinder liners.
- 30000 pieces Production Capacity of cylinder liners per month.
- We produce more than 1200 various models of cylinder liners for Truck, Tractors and Cars worldwide.

Operation	Diameter [mm]	Accuracy.
Inner dia	40.00 to 250.00	± 0.020 mm
Outer dia	44.00 to 350.00	± 0.020 mm
Total Length	70.00 to 500.00	± 0.100 mm

Engine Valves



- The Engine Valves are made up of heat resistant alloy.
- Various processes like Chrome flash on Stem Stellite on seat and tip area, Nitriding / Tuftriding are offered.
- The machining of outer diameter and radius of engine valves are processed on CNC Machine.
- The engine valve we produce from 4 to 20 mm stem and 25 to 250 mm head dia and 450 mm length.

Valve Guides



- Valve Guides are made from Gray Cast Iron alloy. We offer Brass, Bronze and Copper backed materials.
- The machining of outer diameter with tolerance 15 to 20 microns and Inner diameter 25 Microns
- Cylindrical Grinding is done to archive geometrical parameters.
- Valve Guides are hardened up to 210 to 260 BHN.

Valve Seats



- Valve Seats are made from High Quality Chromium and Nickel.
- Valve Seats ground surface is maintained 15 to 20 microns and face parallelism @10 microns.
- Dimensional and Visual Inspection of Valve Seat Inserts.
- Valve Seats are hardened up to 30 to 35 HRC.



Company Highlights

COMPANY INFORMATION:		
Company Name	:	OM Internationals
Business Type	:	Manufacturer / Exporters
Products	:	Centrifugally Cast Cylinder Liners, Sleeves, Valve Guides and Valve Seats Inserts.
Brand	:	Friends Cylinder Liners
Number of Employee	:	50
FACTORY INFORMATION:		
Factory (Sq. Meters)	:	10,000 square meters
Factory Location	:	Rajkot (Gujarat) INDIA
Induction Capacity	:	300000 Piece per Annum
Lab Facilities	:	QA/QC (In-house)
Certification	:	ISO 9001:2008
Material Specification	:	IS - FG 220 / BS4K6 / ASTM A-159 Standard
MARKET & TRADE INFORMATION		
Main Market	:	Europe, South America, Mid East, Asia and Gulf.
Export Market	:	100% Exports
Total Export Volume	:	Less than US\$ 5 Million (Annum)

Process

Foundry



- Friends manufacture Cylinder Liners & Sleeves from gray cast iron alloy to meet IS-FG 220 / ASTM material grade.
- Gray cast iron alloy melted in Induction Furnace to ensure high corrosion and wear resistance at 1400 @c to get best Quality which is free from all type of impurities.

Centrifugal Casting



- Friend's Cylinder Liners & Sleeves are centrifugally cast processed by advanced centrifugal casting machine.
- Various processes through gravity die-casting machines and auto shell molding machine.
- Centrifugal casting machine speed of the rotation up to 1400 rpm.
- The casting is removed from the mould at temperature of 500 degree Celsius.

CNC Turning



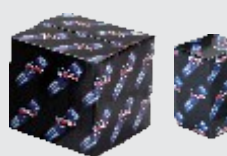
The machining of outer diameter, grooves and radius of cylinder liners are processed on advanced CNC machine, along with superior capacity and instant inspection facilities.

Plateau Honing



The inner diameter is honed by PLC controlled plateau Hydraulic machine to achieve exact geometric and surface roughness parameters.

Packaging



"Friends" Cylinder Liners, Sleeves and Air Cooled Blocks are coated with rust preventive oil and covered in VCI paper which is humidity free in corrugate box.