



## Cylinder Liner



The products manufactured by Jai Auto Engineering Works are grouped into Cylinder Liners & Sleeves. Both these products have different applications depending upon the engine design. Jai Auto Engineering Works manufactures more than 250 models of Wet & Dry Cylinder Liners & Sleeves with wall thicknesses of 1mm to 15mm and with lengths from 125mm to 370mm.

Jai Auto Engineering Works has a full-fledged set-up to supply casting liners. We produce large quantities of semi-finished as well as finished cylinder liners to cater to

the needs of various users in local and export markets. Additionally, customized liners and sleeves are manufactured in compliance with the clients' requirement.

# Cylinder Liners Features

- 40 years of manufacturing experience and expertise with one roof manufacturing outlet
- 30000 pieces Production Capacity of cylinder liners per month per shift.
- Wide range suitable for Hi speed and eco friendly Engines.
- Centrifugally Cast cylinder liner liners & sleeves with precise machining and finishing.
- Manufactured with is special material specification with chromium & Moly-nickel elements for High anti-galling properties
- Suitable chemical composition of carbon, silicon for self-lubricative property to reduce consumption of lubricant
- Stringent Material and microstructure analysis for less wear of liner and partner ring.
- Fine Honed cylinder liner bore.
- Centerless Grinning to archive geometrical parameters.
- Randomly inspection of honing angle, structure of cylinder liners.
- Randomly check tensile strength, surface roughness and profiles.
- 100% Dimensional, visual inspection & crack detection of finished cylinder liners.

## Product Range

- Car: Compact, Mid-Size, Luxury, Saloon, SUV, MPV
- Truck: HCV, LCV, Pickup Van, Refrigeration On wheels Van, Utility Van
- Tractor: Heavy Duty, Light Duty, Multi Utility Tractors
- Cylinder Liners & Sleeves For, Car Commercial
- Earthmover Engines
- Marine Engines
- Air compressor Engines
- Power Generator Engines

## Production Parameters Dimensional Range:

- Inner Diameter: 40 to 250 mm
- Outer Diameter: 45 to 300 mm
- Length: Max 500 mm
- Few model list are

## Domestic Engine Models:

				
				
				
				
				
				
				
				
				
				

## Export Engine Models:

				
				
				
				
				
				
				
				
				

# Finishes

Semi-finished & Fully-finished

Chemical Composition	Minimum	Maximum
Carbon	2.80	3.50
Silicon	1.80	2.50
Manganese	0.6	1.00
Phosphorus	0.20	0.50
Sulphur	0.00	0.12

Other than above, we can cast material compositions using Chromium, Molybdenum, Nickel, Copper, Boron or as per customer specifications meeting to international standards.

Hardness (BHN)	210 to 280
Tensile	210 to 275 n/mm2



# Technical Specifications

## Material specification standards

India	HT200, HT250, HT300
USA	NO.30, NO.35, NO.45
Europe	GG20, GG25, GG30
Japan	FC200, FC250, FC300

## Micro Structure

**Graphite type:** "A" & "B" ("D" & "E" Random)

**Flake Size:** 4-6 Microns

**Free Ferrite:** Less Than 5%

**Matrix:** Lamellar Pearlite

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