



ABOUT US

JAY METAL is an **ISO 9001:2015** and **IATF 16949 : 2016** certified company and is one of the leading manufacturer and exporter of Cylinder Liners, Sleeves. With a highly experienced and technically qualified team of 350 plus employees, Jay Metal produces highest quality products at the most competitive prices. The promoters have experience and expertise of 40+ years in manufacture and production of liners, sleeves, blocks and other automobile components.

Our main goal is to supply the best quality parts at competitive prices. We follow the best practices in the industry for all our manufacturing process which reflects in the products that we manufacture.

Our highly qualified engineers work continuously to improve the product quality by in-house R&D activities and by tweaking the manufacturing processes from casting until packing. By following rigorous quality assurance process at each level of production, we strive to excel in all the manufacturing activities and thus be one of the best manufacturer and supplier of quality Cylinder Liners and Sleeves.

Group of Companies

JAY METAL

JAY ENGINEERING

1.5 million
Production

350+
Employees

2,60,000 sq. ft.
Area

40+
Years of Experience



Product Specifications

Dimension	Range (in mm)
Bore dia.	60 to 160
Total length	100 to 400

Technical Specifications

Micro Structure	
Graphite type	"A" & "B" ("D" & "E" Random)
Flake size	4-7 Microns
Free ferrite	Less Than 5%
Matrix	Lamellar Pearlite

Chemical composition	Minimum	Maximum
Carbon	2.90	3.50
Silicon	1.80	2.50
Manganese	0.60	1.00
Phosphorus	0.20	0.50
Chromium	0.20	0.50
Sulphur	0.00	0.12
Moly		As Required
Copper		As Required
Nickel		As Required
Boron		As Required
Vanadium		As Required

Hardness (BHN)
Tensile

210 to 280
210 to 275 n/mm2

We offer more than
1000 types of
Cylinders Liners and Sleeves.

Foundry Facilities



RAW MATERIAL STORAGE

Boasting a spacious **4,624 sq.ft.**, our raw material storage facility ensures ample space for efficient and organized inventory management.



FOUNDRY

Jay Metal takes pride in its cutting-edge Foundry. Spanning an impressive **25670 Sq.ft.**, this facility stands as a hub of innovation and precision, featuring **5 induction furnaces** With melting capacity of **850 tons**, per month.



POURING

To enhance quality, it is crucial to regulate the temperature and RPM of the **Centrifugal Die Casting** for better results.

Metallurgical Lab



SPECTROMETER

Within our infrastructure, we adhere to stringent practices for raw material inspection, ensuring meticulous monitoring of chemical composition to enhance the durability of liners for prolonged service life.



MICROSCOPE

As part of our operational practices, we utilize microscopes to scrutinize the microstructure of liners, diligently maintaining **"A" & "B"** graphite structure. This commitment contributes to enhancing the strength of our liners, showcasing our company's dedication to quality and performance.



HARDNESS TESTER

In our commitment to delivering superior quality liners, we employ a hardness tester to meticulously inspect the hardness of our products, ensuring that our customers receive liners of the highest quality.

Machining Shop



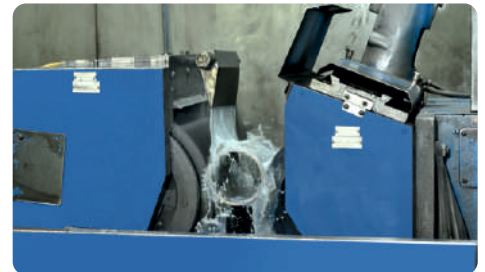
CNC MACHINING

Inner and outer diameter machining is done on latest cnc machines to give high accuracy in dimensional parameters, surface roughness & geometrical parameters.



PLATEAU HONING

Honing process on Air sizing plateau honing machine is to achieve required quality parameters like surface finish Ra, Rt, Rmax, R3z, Rp, MR1, MR2, etc. with process control indicators like Cp/Cpk.



GRINDING PROCESS

With the latest technology centerless grinding machines to achieve better results.

Quality Control



Digital Height Gauge



Roughness Tester



Hatch Angle



Contracers



Roundness Testers

Our highly equipped quality control center ensures that each product meets the highest standards. Equipped with industry-leading Mitutoyo-made digital height gauges, Contracers, roundness testers, roughness testers, and digital visual cross-angle checking machines, we leave no stone unturned in guaranteeing the excellence of every item that leaves our facility.

Packing & Dispatch



Packing Area

Jay Metal have a large **18,000 sq.ft.** packing area with automatic ultra sonic cleaning machines and safe and organized storage area to deliver better experience

PRODUCTS



Tractor Applications



Automotive Applications



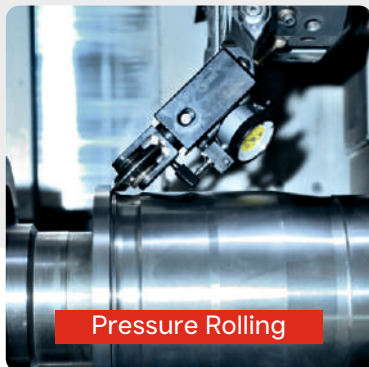
Heavy Commercial Applications



Industrial Applications



Heat Treatment



Pressure Rolling



Chrome Plated



Pressure Knurling

- ❖ ANDORIA
- ❖ ASIA
- ❖ AUDI
- ❖ AUSTIN
- ❖ BEDFORD
- ❖ BELARUS
- ❖ BENDIX
- ❖ BMC
- ❖ CASE
- ❖ CATERPILLAR
- ❖ CBT
- ❖ CHEVROLET
- ❖ CHRYSLER
- ❖ CITRON
- ❖ CLAYTON
- ❖ COMMER
- ❖ CUMMINS
- ❖ DAEWOO
- ❖ DAF
- ❖ DAIHATSU
- ❖ DAIMLER BENZ
- ❖ DAMAS
- ❖ DAVID BROWN
- ❖ DETROIT DIESEL
- ❖ DEUTZ
- ❖ DONGFENG
- ❖ DORMAN
- ❖ FIAT
- ❖ FORD
- ❖ FORDSON MAJOR
- ❖ GARDNER
- ❖ HANOMAG
- ❖ HENSCHEL
- ❖ HILLMAN
- ❖ HINO
- ❖ HONDA
- ❖ HYUNDA
- ❖ INTERNATIONAL (IHC)
- ❖ ISUZU
- ❖ IVECO
- ❖ JAGUAR
- ❖ JEEP
- ❖ JOHN DEERE
- ❖ KAMAZ
- ❖ KARAZ
- ❖ KIA
- ❖ KOMATSU
- ❖ KUBOTA
- ❖ LADA
- ❖ LANCIA
- ❖ LAND ROVER
- ❖ LEYLAND
- ❖ LIAZ
- ❖ LISTER
- ❖ LOMBARDINI
- ❖ LOTUS
- ❖ MACK
- ❖ MAN
- ❖ MARUTI
- ❖ MASSEY FERGUSON
- ❖ MERCEDES
- ❖ MG
- ❖ MITSUBISHI
- ❖ MORGAN
- ❖ MORRIS GARAGES
- ❖ MWM
- ❖ NAVISTAR
- ❖ NISSAN
- ❖ OPEL
- ❖ PEGASO
- ❖ PERKINS
- ❖ PETTER
- ❖ RENAULT
- ❖ ROLLS ROYCE
- ❖ ROVER
- ❖ RVI
- ❖ SAVIEM
- ❖ SCANIA
- ❖ SEAT
- ❖ SHAKTIMAN
- ❖ SIMCA
- ❖ SINGER
- ❖ STEYR
- ❖ SUZUKI
- ❖ TALBOT
- ❖ TATA
- ❖ TATRA
- ❖ TOYOTA
- ❖ TRIUMPH
- ❖ URSUS
- ❖ VAUXHALL
- ❖ VOLKSWAGEN
- ❖ VOLVO

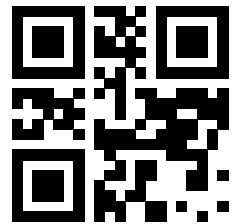
Global Supplier of OEM & Aftermarket Cylinder Liners and Sleeves



Group of Companies



**Manufacturer & Exporter of:
All Type of Cylinder Liners & Sleeves**



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