



www.grindlaysindia.com



GRINDTECH
energising engines- worldwide

PISTONS



Grindtech Pistons are manufactured from high quality aluminium alloys as per International standards and are known for best performance, reduced friction and non expansion in the engines.

Range: Dia. 25 mm to 250 mm

Materials:

- ❑ Aluminium Alloy LM-13
- ❑ Graded Cast Iron

Coatings:

- ❑ Anodising
- ❑ Graphite Coating
- ❑ Tin Coating
- ❑ Phosphating

Quality Commitments:

Accuracy is maintained in all fronts - Weight, Dimensions, Raw Materials. All the pistons are heat treated to provide best efficiency and non expansion at elevated temperatures. All the pistons produced are subjected to various inspection tests such as - Weight, Dimensional check (Diameter, Height, Cam, Ovality, Pin Bore, Stroke / Compression Ratio, Cavity Volume etc.), Hardness, Porosity.

Types:

Flat Dome Type, Reverse Dome Type, Hollow Dome Type, Alfin (with Ni-Resist ring) Type, Strut Type, Oil Cooler Type etc.

PISTON PINS

Grindtech Piston Pins are made from high quality Alloy Steel (16MnCr5, 17Cr3, SCM415, SAE8620 etc) and are of fine microstructure. The manufacturing is performed on the state of the art machinery to achieve perfect dimensions (Roundness-within 2 microns, Concentricity-max 0.3mm, Surface Finish-0.1Ra Max.) and quality. All the pins are hardened and tempered and are maintained between 58HRC to 64HRC hardness and case depth of 0.5mm to 1mm. These Pins are mainly made for Pistons made by Grindtech, but for past many years, other piston manufacturers also rely on Grindtech pins only



PISTON RINGS



Grindlays Engine Parts Pvt. Ltd. has been a recognised and reputed name in the Engine Industry for serving the industry with high quality Piston Rings and it has continuously proved its capability to provide efficient combustion and reduced oil consumption in the engines.

Types:

Plain Compression Rings, Scraper/Napier Rings, Slotted Oil Rings, Hard Chrome Plated Compression & Oil Rings, Taper Faced(Periphery) Rings, Full/ Half Keystone Rings, Step Cut Rings, Slant Cut Rings, Lock Type Rings, Spring Loaded Oil Rings (with Helical Coil springs), Profile Grinded Oil Rings, Duaflex Oil Rings, Steel Laminated Segments, 3-Piece Nifflex Oil Rings (various designs), Steel Oil Rings, Bimetal Rings etc.

Range: Dia. 23mm to 400mm

Materials:

- ☐ Grey Cast Iron (Individual Casting)
- ☐ Alloyed Cast Iron
- ☐ Spheroidal Graphite Iron (Ductile Rings)
- ☐ High Strength Steel

Coatings:

- ☐ Perkerisation
- ☐ Chrome Plating
- ☐ Tin Coating
- ☐ Copper Flash
- ☐ Moly Inlay / Plasma Moly

Quality Commitments:

All the Grindtech Piston Rings produced are passed through stringest tests such as :

- ☐ Metallurgical analysis
- ☐ Dimensional check
- ☐ End Gap checking
- ☐ Hardness Test
- ☐ Tangential Load test
- ☐ Light Pass Test for Perfect Circularity
- ☐ Profile check, Parallelism, etc.



LINERS, SLEEVES & CYLINDER BLOCKS



Grindtech Liners, Sleeves and Cylinder Blocks are Well known for its quality and performance due to its consistency in maintaining uniform hardness, distortion-less bore and low thermal expansion in all the products.

Range: Up to Bore Size 230 mm

Materials:

- ❑ Centrifugally Casted Graded Cast Iron
- ❑ Sand (Gravity) Casted Graded Cast Iron
- ❑ Shell Moulding for Cylinder Blocks

Coatings:

- ❑ Perkerisation
- ❑ Chrome Plating

Quality Commitment

- ❑ Batch-wise Material Test
- ❑ Microstructure Test
- ❑ 100% Dimensional Check
- ❑ Honing Angle Check
- ❑ Profile Test
- ❑ Hardness Test
- ❑ Tensile Strength Test

Types:

Dry Liners, Wet Liners, Sleeves, Air Cooled Cylinder Blocks (Fins Type), Semi Finished, Full Finished.





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About Us:

Grindlays Engine Parts Pvt. Ltd. is an ISO 9001:2008 certified organisation that specializes in Manufacturing and Exports of Engine Parts- Piston Rings, Pistons, Pins, Liners and Sleeves, Cylinder Blocks, Engine Valves, Valve Guides and Valve Seat Inserts, Bimetallic Bushes and Bearings. With the expertise of **five** decades the organisation has won the trust and confidence of its reputed clients by offering Quality Products at most competitive prices. The products offered in the markets worldwide are well known by the brand name GRINDTECH.

Manufacturing:

Grindtech manufacturing units are well equipped with state of the art machinery and R&D testing bench and an expert team of skilled employees and experienced engineers. The organisation's ever increasing urge to produce best quality products have always been an inspiration and need to keep up with the pace of the global market and International Standards, for which the units have been continuously upgraded with modern and latest technologies, the organisation relies a lot on its world class machinery which includes complete in-house casting unit, complete hard chrome plating unit, CNC lathes, VMC, Double Cam Turning line, Auto Gap Sizing machines, unique SPM's, various conventional lathes, surface grinders, double disc grinders, drilling machines, profile grinders, lapping machines, honing machines, cam turning machines, pin bore burnishing, copying machines, centre less grinders, pneumatic presses, broaching machines, plateau honing, etc.



APPLICATIONS



Grindtech products are made for a very wide range of applications like Cars, Trucks, Tractors, LCV's, Two wheelers, Three wheelers, Air Brake Compressors, Industrial and Diesel Engines, Generators, Marine Engines, Air & Gas Compressors, Refrigerators, Ammonia Compressors, Forklifts and Heavy Earthmovers, Brush Cutters, Transmission and Sealing etc

OUR REACH



*Map not to scale

ASIAN RANGE

Bajaj	Escorts	Isuzu	Komatsu	Mitsubishi	Tata
Daewoo	Hino	K.G. Khosla	Kubota	Nissan	Toyota
Daihatsu	Honda	Kia	Mahindra	Subaru	Yamaha
Eicher	Hyundai	Kirloskar	Mazda	Suzuki	Yanmar

EUROPEAN / AMERICAN RANGE

Air Compressor	Daf	IHC	Mack	Robin	Vauxhall
Alfa Romeo	Daimler Chrysler	Ingersoll Rand	MAN	Rover	Vespa
Atlas Copco	David Brown	Jaguar	Massey Ferguson	Ruston Hornsby	Villiers
Audi	Deutz	John Deere	Mercedes Benz	RVI	Volkswagon
Austin	Fiat-Iveco	Kamaz	Midland	Saab	Volvo
Bedford	Fiat	Knorr Bremse	Moskvitch	Scania	Wabco
Bendix	Ford	Lada	MWM	Seat	Westinghouse
BLMC/BMC	Fordson	Lambretta	New Holland	Simca	Willys
BMW	Gardner	Lancia	Opel	Steyr	Wolga
Case	Garrelli	Land Rover	Perkins	Sthil	Wolsely
Caterpillar	General Motors	Leyland	Petter	Talbot	Zetor
Citroen	Hillman	Lister	Peugeot	Tatra	
Clayton	Hollman	Lombardini	Peykan	Ursus	
Cummins	IFA	Lotus	Renault	UTB	

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