Metalcomp
Overseas

Merchant Exporter of Engineering Goods

Exporter of Sintered Structural Parts, Journal Bearings and Mechanical Power Transmission Components

Address

B602, PENROSE CHS, HIRANANDANI ESTATE,
GHODBUNDER ROAD, THANE WEST,
City - THANE, State – MAHARASHTRA, PIN - 400607
INDIA

Email ID

sk@metalcompoverseas.com

Mobile & Whatsapp

+91 9136969743

Website

www.metalcompoverseas.com

Address:
B602, Penrose CHS, Hiranandani Estate,
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About us:

Metalcomp Overseas is a fast-growing, ISO 9001 certified merchant exporter from India engaged in exporting variety of engineering products. Metalcomp Overseas specializes and offers reliable mechanical power transmission engineering components for various industries. Our products include Sintered Parts & Journal Bearings viz. Sintered Bushings, Cast Bronze Sleeve Bearings, Graphite Impregnated and Bronze Bushings, Pulleys, Sprockets and Couplings custom made to client requirements.

We support various industries manufacturing electrical equipment, household equipment, printing machinery, machine tools, automotive and aircraft accessories, farm and construction equipment, marine components, and food processing equipment.

Our Vision & Mission Statement:

Vision:

To provide quality products at optimum price and establish ourselves as one of the leading exporters of engineering goods.

Mission:

To become a sustainable exporting partner globally for engineering goods.

Why us:

- We provide variety of sintered structural components and journal bearings in different materials as per national and international standards for different industries.
- We offer our products at competitive price and to the complete satisfaction of our client.
- We execute orders timely. We maintain a strong network of reliable and reputed suppliers who manufacture and supply quality products efficiently.
- We are an ISO 9001 certified company, and we strictly adhere to the required quality standards. We provide all quality test reports and certificates for the products as applicable to the contract and encourage third-party inspection of the products to ensure client satisfaction with the products.
- We offer constant feed back to our clients on our products, and progress and status of their contract.

Year of establishment	2022	**MSME Reg. No.**	UDHYAM-MH-33-0167704
Type of establishment	Sole Proprietorship	**IEC No.**	AELPK4747F
ISO 9001 Cert. No.	QCS82722	**GST No.**	27AELPK4747F1ZA
Membership	1) EEPC – Engineering Export Promotion Council of India. 2) PMAI - Powder Metallurgy Association of India		

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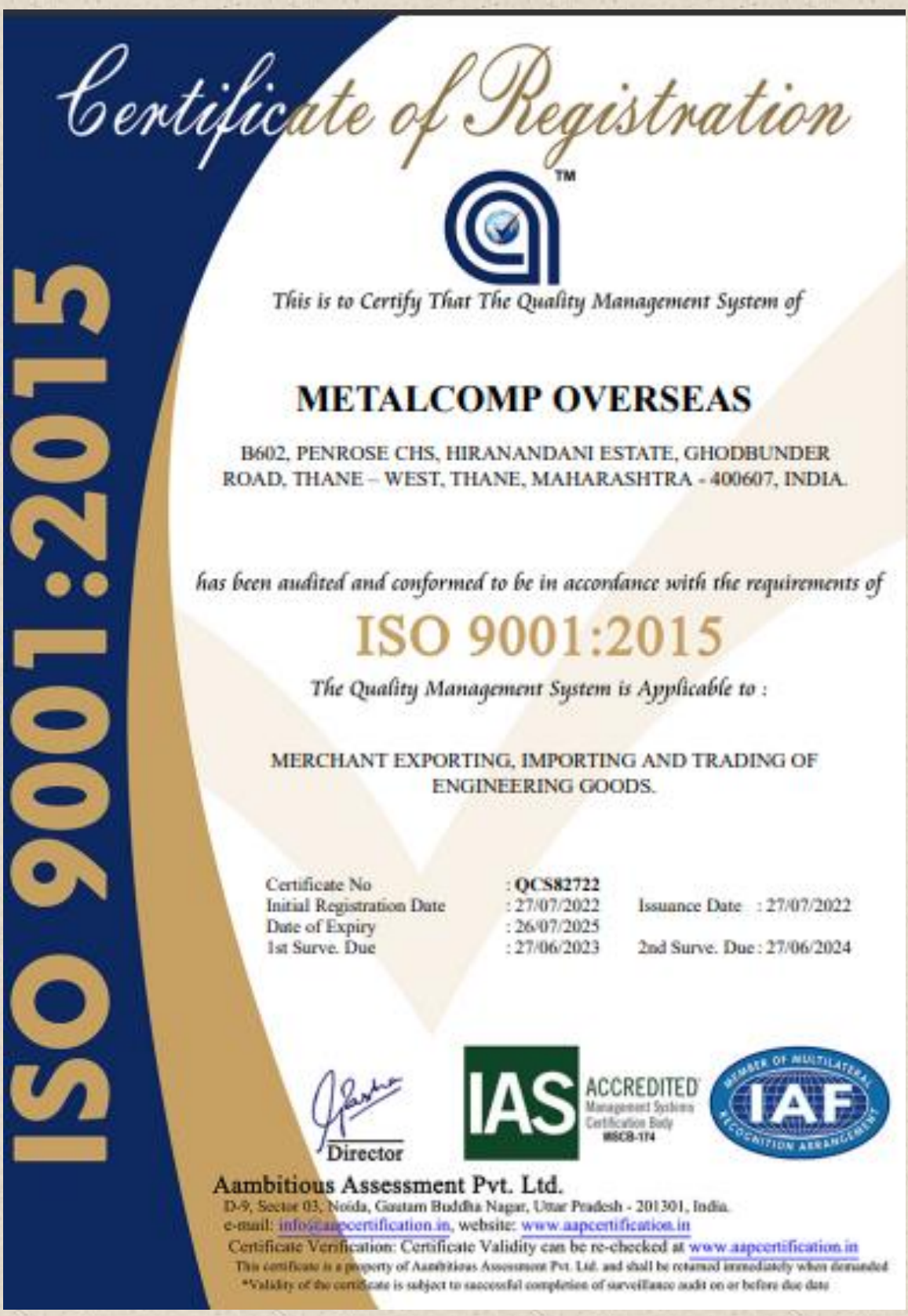
ISO 9001 Certificate:



ISO 9001:2015

Certificate of Registration

This is to Certify That The Quality Management System of

METALCOMP OVERSEAS

B602, PENROSE CHS, HIRANANDANI ESTATE, GHODBUNDER ROAD, THANE – WEST, THANE, MAHARASHTRA - 400607, INDIA.

has been audited and conformed to be in accordance with the requirements of

ISO 9001:2015

The Quality Management System is Applicable to :

MERCHANT EXPORTING, IMPORTING AND TRADING OF ENGINEERING GOODS.

Certificate No	: QCS82722		
Initial Registration Date	: 27/07/2022	Issuance Date	: 27/07/2022
Date of Expiry	: 26/07/2025		
1st Surve. Due	: 27/06/2023	2nd Surve. Due	: 27/06/2024

Director

IAS ACCREDITED Management Systems Certification Body MSCB-174

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

Aambitious Assessment Pvt. Ltd.
D-9, Sector 03, Noida, Gautam Buddha Nagar, Uttar Pradesh - 201301, India.
e-mail: info@aapcertification.in, website: www.aapcertification.in
Certificate Verification: Certificate Validity can be re-checked at www.aapcertification.in
This certificate is a property of Aambitious Assessment Pvt. Ltd. and shall be returned immediately when demanded
*Validity of the certificate is subject to successful completion of surveillance audit on or before due date

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Products:

1	**Sintered Bushings / Oil Impregnated Bushings / Maintenance Free Bushings**	
2	**Cast Bronze Sleeve Bearings / Bronze Bush Bearings**	
3	**Graphite Impregnated Bronze Bushings / Graphite Plugged Bronze Bushings / Oilless Bushings**	
4	**Sintered Structural Parts / Sintered Components / Sintered Metal Components**	
5	**Mechanical Power Transmission Components (Pulleys, Sprockets, Timing Pulleys, Elevator Divertor Wheels & Traction Sheaves, Chain Couplings & Jaw Coupling and Elevator Traction Machine Parts)**	

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Sintered Bushings / Oil Impregnated Bushings / Maintenance Free Bushings

Description:

Sintered bushings are maintenance free journal bearings. These bearings are based on powder-metallurgy technology and consists of porous matrix which are impregnated with lubricating oil. The lubricating oil contained in the bearing is circulated and plays the role of lubricant in the bearing system during operation. Sintered bearings have extremely high sliding velocity making them suitable for rotating applications.

These bearings are economical, suitable for high production rates and can be manufactured to precision tolerances. These bearings are equivalent to "Oillite" brand bearings.

Specification:

Custom made to client's specifications and drawings. ASTM B438, ASTM B439, MPIF Standard 35, SAE 841, SAE 863, BS 4480, ISO 5755, BS ISO 2795 & IS 3980 standards.

Type, Shape & Typical Applications:

Type	Shape	Function	Application
Cylindrical		Supports radial loads	• Household appliances • Automotive electrical equipment • Office equipment • Agriculture Machinery • Audio-visual equipment
Flanged		• Supports both radial and axial loads. • Flange area simplifies locating.	• Machine tools Automotive electrical equipment. • Office equipment.
Spherical		• Supports radial loads. • Designed to be self-aligning.	• Household appliances • Automotive electrical equipment
Thrust washer		Supports axial loads	• Household appliances • Audio-visual equipment
Special		• Supports both radial and one directional axial load. • Self-aligning.	• General machinery

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Properties	Suitable for high sliding speeds at low load capacity.
Shape	• Cylindrical / Sleeve • Flanged cylindrical • Spherical • Washer
Size Details	• Custom made to client's drawing & specification. • Minimum ID Φ 2mm, Maximum OD Φ 120 mm, Length 3 - 85 mm • Dimensional variation in a batch is negligible, since the batch is manufactured from single forming toolset. • Closer dimensional tolerances can be achieved.
Materials	• Bronze base • Iron base
Material Properties	• Impregnated densities Bronze 5.8 – 7.2 g/cm^3 Bronze iron 5.5 - 7.0 g/cm^3 Iron 5.4 – 6.8 g/cm^3 • Porosity % Bronze 12 - 25 Iron 12 - 22 • Radial crushing strength K Factor 100 – 180 MPa 150 – 300 MPa • Weight from 2 grams to 2.5 kgs.
Other	• Sintering furnaces temperatures up to 1200 deg. centigrade. • Sizing presses of tonnage up to 65 tons.
Inspection Testing & Certification	• All required inspection and tests will be performed, and test reports submitted as required by contract. • Manufacturing units are ISO 9001 certified.
Packaging	Export quality – Placed in plastic bags, boxed in corrugated carton boxes, and covered with PP woven sheets.
Minimum Order Quantity	5000 Pcs

Note: We do not maintain stock. Bushes are made on receipt of order.

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Sintered Bush Bearings

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Cast Bronze Sleeve Bearings / Bronze Bush Bearings

Description:

Cast bronze sleeve bearings are incredibly simple but highly effective component containing a bearing surface and a mating component. Its role is to guarantee linear or rotational movement between two parts. Cast bronze sleeve bearings have low coefficient of friction, have good sliding property, reduces heat generation, provides substantial wear resistance, and have thinner wall section that requires less space to be housed.

Cast bronze bearings are intended for both radial and axial oscillating movement and are suitable for low rotating speeds. These bushings are resistant to shock loads, vibrations, and corrosive environment. These bushings are insensitive to dirty environment, can operate with lower quality shaft surface finish and provided with oil holes and grease grooves to retain lubricants. These bearings are easy to install, lightweight, and cater to a host of applications.

These bearings are cast in copper alloys as they offer broadest range of applicability. These bearings are centrifugally / continuous / sand cast in cylindrical and flanged cylindrical shapes and machined to precision tolerances. They are low cost and virtually maintenance-free as such used in many diverse applications.

Applications:

Mining equipment, construction equipment, marine equipment, transport equipment and paper making machinery.

Specification:

Custom made to client's specifications and drawings, ISO 4379, ASTM B 824, BS 1400, IS 14478 and other international standards.

Type, Shape & Typical Applications:

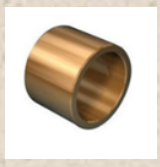
Type	Shape	Function
Cylindrical		Supports radial loads.
Flanged		• Supports both radial and axial loads. • Flange area simplifies locating.
Split		Used where 2-piece housing is present or where quick assembly and easy installation is required.
Thrust washer		Supports axial loads.

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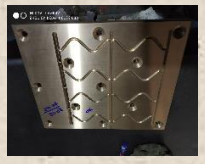
Plate Type (Wear Plate)		Acts as excellent bearing surface between flat moving components.

Properties	Cylindrical bushings suitable where rotating speeds (0.5 m/s) and moderate loads (25/45 N/mm^2.
Shape	• Cylindrical / Sleeve • Flanged cylindrical • Washer • Split cylindrical • Plate Type
Size Details	• Custom made to client's drawing & specification. • Closer dimensional tolerances can be achieved.
Materials	• Tin Bronze Alloys • Leaded Tin Bronze Alloys • High Leaded Tin Bronze Alloys • Aluminium Bronze Alloys • Manganese Bronze Alloys • Leaded Red Brass • High Strength Brasses • Silicon Brasses • Copper Beryllium Alloys • Leaded Copper • Lead Free Copper
Oil Hole & Grooves	• As per clients requirement / drawing.
Inspection Testing & Certification	• Dimensional inspection, geometrical deviations & material properties. All required inspection and tests will be performed, and test reports submitted as required by contract. • Manufacturing units are ISO 9001 certified.
Packaging	• Export quality – Covered with bubble sheet, placed in corrugated carton boxes / wooden boxes.
Minimum Order Quantity	• 100 Pcs

Note: We do not maintain stock. Parts are made on receipt of order.

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Cylindrical Bronze Bearings

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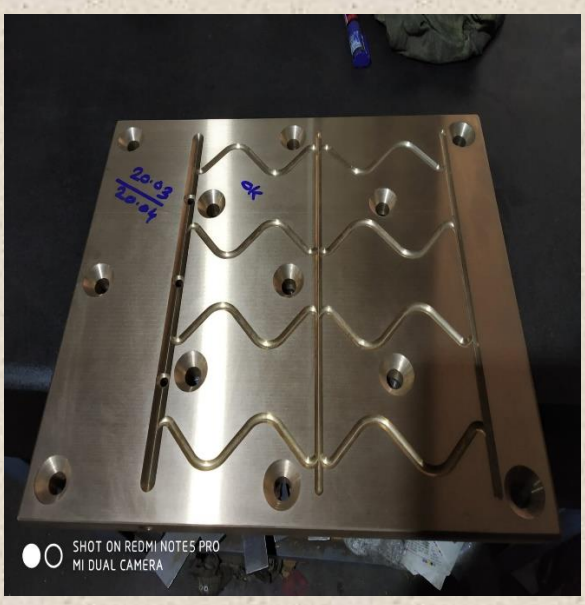
Plate Type Bearings / Wear Plate



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Graphite Impregnated Bronze Bushings / Graphite Plugged Bronze Bearings / Oilless Bronze Bushings / Self Lubricated Bearings

Description:

Graphite impregnated bronze bushings are also known as graphite plugged bronze bearing or oilless bronze bushings or self-lubricated bearings. These bearings are great for applications that need continual lubrication, where maintenance is difficult and where normal grease and oil-based lubricants can burn off due to high temperatures. Bronze body provides the necessary strength to the bearing and graphite plugs acts as reservoir of lubricant. Graphite film from the graphite plug is transferred onto the shaft as it rotates and acts as lubricant even under high loads and low speeds. Cast bronze base material gives stronger bearing ability when compared to self-lubricating leaded bronze bushings.

These bearings are machined out of cast bronze and plugged with graphite plugs. These bearings are available in cylindrical, flanged cylindrical, thrust washer, and flat wear plates form. These bearings are machined to precision tolerances.

Applications:

Construction equipment, transportation machinery, mining equipment etc.

Specification:

Custom made to Client's specifications and drawings.

Type, Shape & Typical Applications:

Type	Shape	Function
Cylindrical		Supports radial loads.
Flanged		• Supports both radial and axial loads. • Flange area simplifies locating.
Split		Used where 2-piece housing is present or where quick assembly and easy installation is required.
Thrust washer		Supports axial loads.
Wear plate		Guides, supports, and controls linear motion of heavy forces.

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Properties	Suitable for severe working condition such as heavy load, low velocity, reciprocating, oscillating and intermittent motions where oil film formation is difficult.
Shape	• Cylindrical / Sleeve • Flanged Cylindrical • Split • Washer • Wear Plate
Size Details	• Custom made to Client's drawing & specification. • Closer dimensional tolerances can be achieved.
Materials	• Leaded Tin Bronze Alloys • Aluminium Bronze Alloys • Manganese Bronze Alloys • Bronze
Oil Hole & Grooves	As per Client's requirement / drawing.
Inspection Testing & Certification	• Dimensional Inspection, Geometrical Deviations & Material Properties. All required inspection and tests will be performed, and test reports submitted as required by client. • Manufacturing units are ISO 9001 certified.
Packaging	Export Quality – Covered with bubble sheet, Placed in corrugated carton boxes / wooden boxes.
Minimum Order Quantity	100 Pcs

Note: We do not maintain stock. Parts are made on receipt of order.

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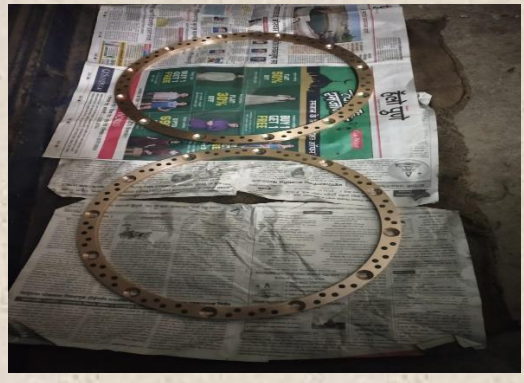
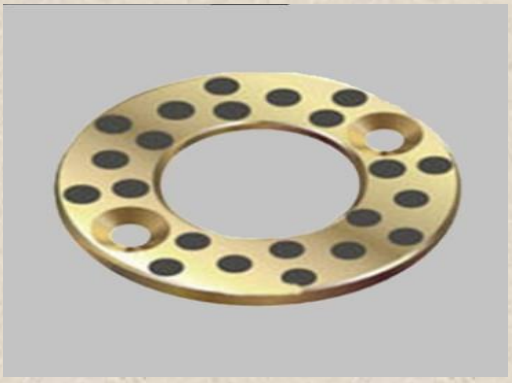
Graphite Embedded Bronze Bush Bearings





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Graphite Embedded Wear Plates

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Sintered Structural Parts / Sintered Components / Sintered Metal Components

Description:

Sintered structural parts / Sintered components / Sintered metal components are produced using powder metallurgy sintering process. Sintering has become an essential process to produce assortment of engineering structural components / parts. It involves heating formed compacted metal and alloy powders to just below their melting point and finishing the formed part to the required dimensions. Powder metallurgy sintering process produces precision parts having light weight, good strength, and accuracy, economically.

Applications:

Sintered metal components find application in a wide range of industries from domestic appliances, automotive, agriculture, textile, transmission to aerospace industry.

Automotive industry using sintered components includes two wheelers, three wheelers, four wheelers, heavy trucks and earth movers and includes components for engines, transmission, shock absorbers, chassis, pumps, braking system, bearing bush etc.

Sintered components for transmission industries, include couplings, gears etc. and for textile industry the components include cams in textile machines. For home appliances the sintered parts are sintered bearings used in fans, pumps, air coolers, grinders, juicers, and mixers.

Specification:

Custom made to client's specifications and drawings.

We can also help our customers develop cost effective sintered metal parts / components to replace conventionally manufactured metal parts.

Type, Shape & Typical Applications:

Properties & Shape	As per clients' specifications and drawings. See next page for parts that are manufactured.
Min. & Max. Weight	Min 0.615 gms to Max 1000gms.
Size Details	• Custom made to client's drawing & specification. • Thickness Range: 2mm to 65mm. • Diameter Range: 4mm to 160mm. • Length Range :50mm to 160mm. • Close dimensional tolerances can be achieved.
Materials	Copper, Brass, Bronze, Iron, Steel and Stainless Steel
Production Capacity	• 1,20,000 Per day. Press M/cs : 10Tons, 35Tons, 45 Tons, 60 Tons & 200 Tons.

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Inspection Testing & Certification	• Dimensional Inspection, Geometrical Deviations & Material Properties. All required inspection and tests will be performed, and test reports submitted as required by client. • Manufacturing units are IATF 16949 / ISO 9001
Sample Policy	Yes. 10 Nos. Delivery cost to be borne by Client.
Delivery Time	3 months.
Packaging	Covered with bubble sheet, Placed in corrugated carton boxes / wooden boxes.
MOQ	5000 Pcs.

Note: We do not maintain stock. Parts are made on receipt of order.

Sintered Structural Parts

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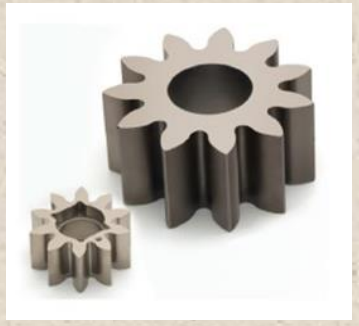

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Mechanical Power Transmission Components:

- ## Pulleys:

Weight Range	500 grams to 150 Kgs
Size Range	Diameter 50 mm to 800mm with balancing
Material	Grey Iron: FG200, FG260, GG20, GG25, GG30
	Ductile Iron: 400-15, 500-7, 600-3
Surface Treatment	CED Coating, Powder Coating, Phosphating, Blackening
End User	Compressors, Textile machinery, Agricultural equipment, Food processing equipment, Off-road vehicles, Stone crushers, Power generators and General machinery.
Advantages	No re-boring and keyway cost, saves time and cost in fitting elements, easy to install and remove in any position.

- ## Timing Pulleys:

Size Range	Diameter 50 mm to 800mm with balancing
Material	En-8/C-45
	Grey Iron: FG200, FG260
Surface Treatment	CED Coating and Blackening
End User	Agitators, Mixers, Oil & Gas, Sugar mills, Chemical industries, Textile machinery, Packaging machinery, Bakery machinery and General machinery.

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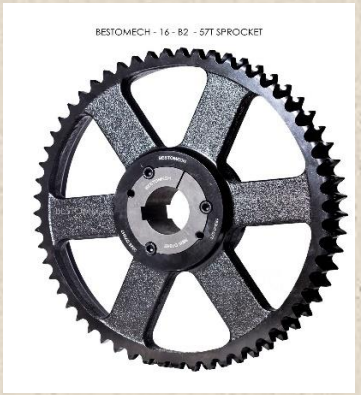
- ## Industrial Sprockets:



Sprockets	06B to 24B (3/8" – 1 ½") – Simplex, Duplex, Triplex, Weld-on Hub type.
Bore Finishes	Pilot bore, finished bore with keyway, taper bush sprocket, bearing size bore, Customised bore.
Material	En-8/C-45.
Surface Treatment	Teeth case hardened (40-50 HRC), CED Coating & Blackening.
End User	Harvesting machinery, Food processing machinery, Rice mill machinery, Textile machinery, Packaging machinery, Conveyor equipment and General machinery.

- ## Elevator Divertor Wheels & Traction Sheaves:

Divertor Wheels	Diameter 160, 200, 240, 300, 320, 400, 500.
No. of Grooves	2 to 10 grooves
Rope Diameter	6, 8, 10, 13 mm
Bearing	FAG / SKF with shaft and collar assembly
Material	Grey Iron: FG 260, FG 300, GG 25, GG 30
	Ductile Iron: 600 - 3
Traction Sheaves	Diameter 200 to 600 mm based on customer drawing - Ductile Iron: 700-2
End User	Elevator traction machine manufacturers, Lift manufacturers, Elevator companies, Car frame manufacturers, Vehicle parking lift manufacturers.

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- **Couplings: Chain Coupling & Jaw Coupling:**

Jaw Coupling	B-050 to B-150
Torque	4.5 Nm to 210 Nm
Material	Hub – Grey Iron: FG 260, Spider Polyurethane
Chain Coupling	06B – 16B with Rolon/Renold Chain
Material	EN-8 / C45 – Teeth Case Hardened
End User	Industrial gear box, dosing pumps, Harvesting & Rice mill machinery and General machinery.

- **Elevator Traction Machine Parts:**

1.Motor Body for **Gearless Machine**
2.Casing for **Geared Machine**
3 Frame and Yoke for **Pancake Machine.**
4.Brake Drums
5.End Shields
6.Brake Lever

PART DESCRIPTION	GEARED HOUSING
RANGE	6 TO 10 PASSENGER
WEIGHT RANGE	Upto 100kg
FLATNESS	0.1 mm
CONCENTRICITY	0.02 mm
MATERIAL	FG 260

PART DESCRIPTION	GEARLESS FRAME
RANGE	4 TO 10 PASSENGER
WEIGHT RANGE	18kg to 60kg
SURFACE FINISH	1.6Ra & 3.2Ra
MATERIAL	FG 260