Shymova Transformation Pvt Ltd.

“ Where Engineering Meets Excellence ”

About Us

Shymova Transformation Pvt. Ltd. is a rapidly growing Indian manufacturer specializing in industrial process machinery and precision equipment. Established in 2015, we bring nearly a decade of expertise in delivering high-precision components and repairing critical industrial parts, helping industries save cost, time, and effort through reliable engineering solutions.

We are committed to providing quality, innovative, and reliable manufacturing solutions that meet stringent international standards. With a strong customer-centric approach, we aim to be your long-term engineering partner by ensuring precision, performance, and trust in every project.

Our Vision

“To be a one-stop solution for both precision manufacturing and industrial repair, trusted for our quality,innovation, and timely delivery.”

Our Mission

- To provide world-class manufacturing solutions with accuracy and reliability.
- To offer cost-effective repair and refurbishment services that extend the life of machinery and components.
- To maintain customer-first approach, ensuring long-term partnerships.

Our Core Values

- Quality First – Every product and repair meets international standards.
- Innovation – Modern technology & methods for precision work.
- Trust – Building long-term relationships with transparency.
- Commitment – On-time delivery & reliable after-service support.

Why Shymova ?

Your Trusted Partner in Transformation

Tailored Solutions

Custom-engineered solutions perfectly aligned with your unique requirements.

Fast Turnaround

Dependable delivery and prompt execution to meet your deadlines.

ISO Compliance

Adherence to international quality standards in every manufacturing process.

Transparent & Ethical

Fair pricing and straightforward business practices you Can trust.

Experienced Leadership

Guidance from industry veterans with profound insights And expertise.

Client Trust

Trusted by leading Indian and international clients for Consistent quality.

Added Value

Driving Operational Excellence

Workflow Improvements

- Enhanced communication between technical teams.
- Centralize data for informed decision-making.
- Real-time tracking to work progress & priorities.
- Improved response times and accountability.
- Effective preventive maintenance strategies.
- Ensuring better safety protocols.

Cost Reductions

- Minimized equipment downtime and unplanned shutdowns.
- Reduced overtime and average repair times.
- Extended asset lifespan, lowering long-term costs.
- Optimized resource utilization by limiting scrap and rework.

Our Machinery's

"Built for performance, operated with expertise"

Our Infrastructure & Credentials

Enabling Excellence

State-of-the-Art Facilities

Our 10,000+sq.ft. facility in Noida Houses advanced :

- CNC & VMC Machining Centres
- In-house Design & Quality Assurance Labs
- Dedicated Assembly & Fabrication Units
- Robust Logistics & Delivery Networks Across India

Additionally, we have expanded with our own infrastructure in Dharwad, further boosting our capabilities.

Certifications & Compliance

We operate with full transparency And adherence to regulatory standards :

- Registered MSME (Government of India)
- GST & ROC Compliant
- Working Capital Facility by Indian Bank
- PAN & IEC for Export Operations

Our group turnover stands at a robust Rs. 12 Cores PAN India, reflecting our strong financial health.

Contents

Product Name : 3” Core Plug

Core Plug is a precision-machined plastic component used to seal, protect, or support cylindrical bores, cores, or openings during manufacturing, storage, or operation. These plugs are commonly used in industrial applications to prevent ingress of dust, debris, or fluids and to maintain dimensional stability. Made from high-quality engineering plastic, they offer good strength, chemical resistance, and long service life.

Technical Specification :

Material	Engineering Plastic
Design Type	Flanged Type
Available Sizes	3 Inch
Weight	60 GRM
Finish	Smooth machined finish
Operating Condition	Suitable for industrial and mechanical applications
Features	Lightweight, high wear resistance, corrosion & chemical resistant
Application	Bore sealing, core protection, dust prevention

Product Name : 6” Core Plug

Core Plug is a precision-machined plastic component used to seal, protect, or support cylindrical bores, cores, or openings during manufacturing, storage, or operation. These plugs are commonly used in industrial applications to prevent ingress of dust, debris, or fluids and to maintain dimensional stability. Made from high-quality engineering plastic, they offer good strength, chemical resistance, and long service life.

Technical Specification :

Material	Engineering Plastic
Design Type	Flanged / Heavy-duty Type
Available Sizes	6 Inch
Weight	222 GRM
Finish	Smooth machined finish
Operating Condition	Industrial / high-load applications
Features	High strength, abrasion resistant, long service life
Application	Heavy-duty bore sealing, machinery core protection

Product Name : 6” Core Plug

Core Plug is a precision-machined plastic component used to seal, protect, or support cylindrical bores, cores, or openings during manufacturing, storage, or operation. These plugs are commonly used in industrial applications to prevent ingress of dust, debris, or fluids and to maintain dimensional stability. Made from high-quality engineering plastic, they offer good strength, chemical resistance, and long service life.

Technical Specification :

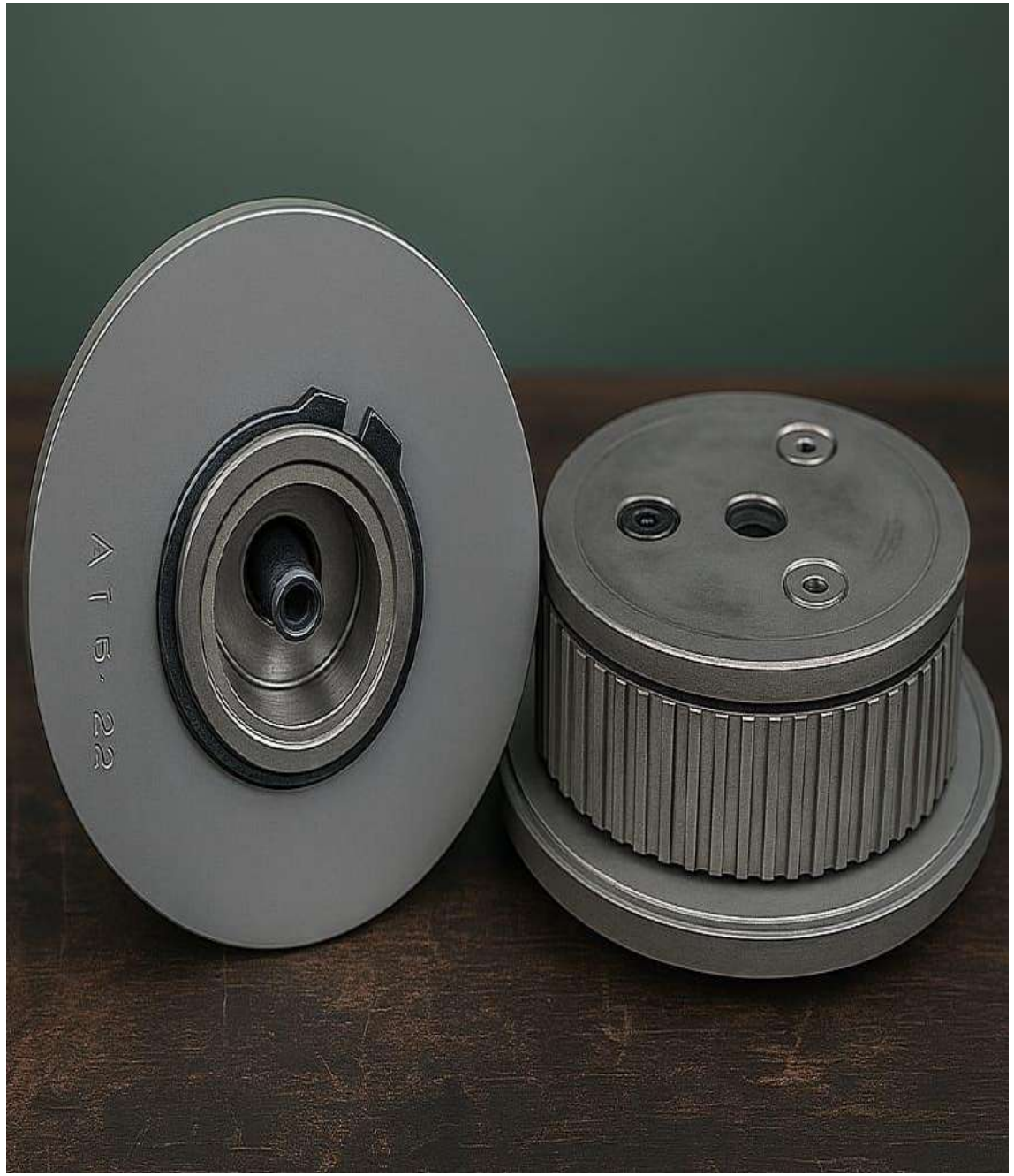
Material	Engineering Plastic
Design Type	Flanged / Heavy-duty Type
Available Sizes	6 Inch
Weight	450 GRM
Finish	Smooth machined finish
Operating Condition	Industrial / high-load applications
Features	High strength, abrasion resistant, long service life
Application	Heavy-duty bore sealing, machinery core protection

Product Name : 6” Core Plug

Core Plug is a precision-machined plastic component used to seal, protect, or support cylindrical bores, cores, or openings during manufacturing, storage, or operation. These plugs are commonly used in industrial applications to prevent ingress of dust, debris, or fluids and to maintain dimensional stability. Made from high-quality engineering plastic, they offer good strength, chemical resistance, and long service life.

Technical Specification :

Material	Engineering Plastic
Design Type	Flanged / Heavy-duty Type
Available Sizes	6 Inch
Weight	550 GRM
Finish	Smooth machined finish
Operating Condition	Industrial / high-load applications
Features	High strength, abrasion resistant, long service life
Application	Heavy-duty bore sealing, machinery core protection



Product Name : 3” Chuck

The 3-inch Chuck is designed for precision holding of components during machining and assembly operations. Built with high grade steel and a durable finish, it ensures secure clamping, high concentricity, and long service life. Ideal for use in lathes, milling machines, and other industrial applications requiring reliable workholding solutions.

Technical Specification :

Material	High-grade alloy steel
Chuck Size	3 Inch (75mm)
Clamping Type	Self-centring/ Manual (as per model)
Mounting	Compatible with standard spindle nose fittings
Max RPM	UP to 4000 RPM
Accuracy (Concentricity)	≤ 0.03mm
Finish	Anti-rust coated surface
Application	Lathe machines, milling, drilling, CNC operations, VMC

Product Name : Cover Plate

The Circle Cover Plate is a protective component used to cover openings in machines, panels, and piping systems. It prevents dust, moisture, and accidental contact, ensuring safety and long service life of equipment.

Technical Specification :

Material	Mild Steel/ Stainless Steel/ Aluminium (As per requirement)
Plate Size	50mm – 500mm
Surface Finish	Powder coated/Zinc plated/ Polished
Thickness	2mm – 8mm
Mounting	Screw fixing/ Bolt-on/ Weld-on
Temperature Resistance	Up to 200 C
Corrosion Resistance	Yes (Depends on material & coating)
Applications	Machinery & equipment protection, electrical & control panels, Piping & ducting system, Industrial & commercial installation

Product Name : 6” Chuck

A 6-inch lathe chuck is a precision work-holding device designed to securely clamp cylindrical or irregular workpieces during machining. Manufactured from hardened alloy steel and ground for accuracy, it ensures excellent concentricity, high clamping force, and durability under continuous operation. Suitable for conventional lathes, CNC turning centers, milling, and grinding applications, this chuck provides reliable performance across a wide range of machining tasks.

Technical Specification :

Chuck Size	6 inch (150 mm)
Body Material	Hardened alloy steel, precision ground
Runout Accuracy	≤ 0.03 mm
Max. Speed (RPM)	Up to 4000 RPM
Clamping Range	2 – 150 mm
Jaw Type	Reversible hard jaws / soft jaws
Mounting	Standard backplate or direct spindle mount
Applications	Lathes, CNC machines, milling & grinding operations

Product Name : Drive Shaft-Female

A drive shaft –female is a mechanical component designed to provide a secure connection between a rotating shaft (typically splined) and a bolted flange. It transmits torque while maintaining alignment and reducing vibration. The flange side contains bolt holes for mounting, while the hub has internal splines that fit over a splined shaft.

Technical Specification :

Material	**Alloy steel or forged steel, heat-treated for strength.**
Function	Connects splined drive shaft to differential / gearbox via bolted flange
Flange Type	Circular flange with equally spaced bolt holes.
Outer Diameter (Flange)	100–200 mm typical.
Hub Length	~60–120 mm.
Max. Speed	Up to 6000 RPM
Spline Specification	Internal involute spline, 16–46 teeth, per SAE/ISO/DIN
Applications	Industrial machinery couplings, Heavy equipment (milling machine)

Product Name : Polygon Drive Shaft

A polygon shaft is a precision-machined transmission element designed for high-strength torque transfer in heavy-duty applications. Unlike traditional splined shafts, the polygonal design provides superior centering accuracy, even load distribution, and easier assembly/disassembly. These shafts are manufactured from high-grade alloy steel, heat-treated for strength, and ground for accuracy, making them suitable for CNC machines, gearboxes, and industrial drives.

Technical Specification :

Material	High-strength alloy steel
Shaft Diameter Range	30 – 120 mm
Hardness	28–36 HRC (core), up to 55 HRC (surface, optional nitriding)
Torque Capacity	High torque transmission, up to 10,000 Nm depending on size
Runout Tolerance	≤ 0.02 mm
Length	150 – 600mm (customizable)
Shaft Diameter Range	30 – 120 mm
Applications	CNC machines, gearboxes, heavy-duty equipment, precision tooling systems

Product Name : Splined Shaft

A splined shaft is a precision-engineered transmission component designed to transfer torque efficiently while ensuring accurate alignment between mating parts. The external splines provide a secure fit with internally splined hubs or couplings, while the threaded end allows for axial locking with a nut or bolt. Manufactured from alloy steel and heat-treated for durability, it is widely used in automotive drivetrains, gearboxes, and industrial machinery.

Technical Specification :

Material	High-strength alloy steel
Shaft Diameter Range	20 – 80 mm
Hardness	28–36 HRC (core), up to 55 HRC (surface hardened)
Length	100 – 500 mm (customizable)
Torque Capacity	500 – 5000 Nm (size-dependent)
Threaded End	Internal / external thread for locking
Runout Accuracy	≤ 0.02 mm
Applications	Automotive drive shafts, gearboxes, industrial machinery, agricultural equipment

Product Name : Swivel Arm

A Swivel arm is a robust linkage component designed for use in automotive suspension systems and industrial machinery linkages. It provides structural rigidity, fatigue resistance, and efficient load transfer, ensuring stability and durability under dynamic loads.

Technical Specification :

Material	Alloy steel / forged aluminium
Surface	Black oxide / powder-coated
Length	150 – 400 mm
Thickness	15 – 40 mm
Mounting Hole	10 – 25 mm
Features	High strength, fatigue resistant, corrosion protected
Applications	Automobiles, heavy machinery, actuators, robotics

Product Name : Screw

A twin screw is a precision-engineered conveying element used in material handling, extrusion, and processing industries. Its helical geometry ensures controlled movement of bulk materials, powders, or granules with uniform feeding and mixing. Twin screws are widely applied in food processing, plastic extrusion, pharmaceuticals, and chemical industries for efficient conveying and dosing.

Technical Specification :

Material	Alloy Steel / Stainless Steel
Surface Finish	Polished / Hard chrome plated / Nitrided
Screw Diameter	20 – 200 mm
Screw Length	200 – 2000 mm
Pitch	Standard / Variable (as per design)
Thickness	3 – 15 mm
Hardness	35–55 HRC (depending on heat treatment)
Applications	Plastic extrusion, food processing, pharmaceuticals, chemical & material handling

Product Name : Triangular Cam

A triangular cam is a precision cam component designed to convert rotary motion into a specific reciprocating or oscillating motion. The triangular profile ensures controlled displacement, dwell, and return movements, making it suitable for automation systems, textile machinery, packaging equipment, and special-purpose machines. Its robust geometry allows accurate motion transfer with minimal backlash and high repeatability.

Technical Specification :

Material	Alloy Steel / Stainless Steel / Hardened Tool Steel
Manufacturing Process	CNC Machined & Profile Ground
Surface Treatment	Nitrided / Induction Hardened / Black Oxide / Phosphate Coated
Hardness	50–60 HRC (depending on application)
Size Range	50 mm – 500 mm (customizable)
Profile Accuracy	±0.01 mm
Mounting	Bore / Keyway / Set Screw / Custom mounting
Motion Characteristics	Rise – Dwell – Fall
Applications	Textile machinery, packaging machines, conveyors, automation systems, special-purpose machines

Product Name : Glue Stopper

A PTFE (Polytetrafluoroethylene) Teflon Dam Stopper is a crucial component used in various industrial applications, particularly in printing, coating, and fluid handling systems, to control the flow of materials like inks, chemicals, or adhesives. Made from Teflon, a high-performance plastic, it is known for its non-stick properties, chemical resistance, durability, and low friction. These stoppers are vital for preventing leakage, ensuring controlled flow, and maintaining precision in diverse industrial environments, including chemical processing, pharmaceuticals, and food and beverage industries.

Technical Specification :

Material	Polytetrafluoroethylene (PTFE) / Teflon
Properties	Non-stick, Chemical Resistant, High-temperature endurance, Durable, Low friction
Function	Prevents leakage, Controls fluid flow, Ensures precision in fluid handling
Availability	Various sizes to suit different applications
Applications	Printing and coating systems, Chemical processing, Pharmaceutical manufacturing, Food processing, Laboratories

Product Name : Core Holder 3” & 6”

A core holder is a device that securely contains a cylindrical rock or geological sample within a sleeve during laboratory tests. It applies pressure to the sample, often simulating the conditions of its original formation, allowing researchers to measure properties like gas and liquid permeability and study its behavior under stress. Core holders come in different configurations, such as biaxial (applying pressure to both the sides and ends) and triaxial (independent axial and radial pressures), enabling diverse analyses for applications like oil and gas exploration.

Technical Specification :

Material	Alloy Steel / Stainless Steel
Length	100 mm – 1000 mm (as per requirement)
Surface Treatment	Precision Ground & Polished / Nitrided / Chrome Plated
Tolerance	±0.01 mm
Size Range	50 mm – 300 mm (customizable)
Hardness	45 – 60 HRC (heat-treated)
Mounting	Flange / Shaft Mounting
Features	High strength, wear resistance, accurate clamping
Applications	Paper, film, foil, textile, and packaging industries for core gripping and holding

Product Name : Triangle Block

The triangular block is a precision-engineered fixture designed for clamping and holding workpieces or cores securely during machining, assembly, or inspection. Its triangular slot profile ensures accurate positioning and strong grip, while the robust steel body provides long service life under high-load conditions. The component is CNC machined for dimensional accuracy and features multiple mounting holes for versatile applications.

Technical Specification :

Material	High-Grade Alloy Steel / Tool Steel
Manufacturing Process	CNC Machined & Surface Ground
Surface Finish	Polished / Black Oxide / Anti-Rust Coating
Hardness	45 – 58 HRC (heat-treated)
Diameter	100 mm – 400 mm (customizable)
Tolerance	±0.02 mm
Mounting	Multiple through holes for bolts/screws
Features	High rigidity, wear resistance, precision clamping
Applications	Machining fixtures, core holding, assembly setups, inspection jigs

Product Name : Air Washer Tray

The Air washer tray is fabricated from high-quality stainless steel to ensure corrosion resistance and durability. It features multiple reinforcement ribs for structural stability and even water distribution. The tray includes a drain outlet for efficient water removal and mounting holes for easy installation.

Technical Specification :

Material	Stainless Steel
Finish	Matte / Brushed
Dimensions	Customizable (appears rectangular)
Thickness	~1.5 mm to 3 mm
Reinforcements	6 cross ribs (welded)
Drain Outlet	1 outlet at the base corner (for drainage)
Mounting Holes	2 holes at the back for wall mounting
Corrosion Resistance	High (suitable for humid environments)
Applications	Air Washer Systems

Product Name : Rewind Shaft

The Rewind shaft is precision-machined metal component typically used in industrial machinery — likely a rewind shaft assembly or rotary coupling shaft for handling, winding, or transferring torque. These types of components are commonly found in printing, packaging, or roll-processing machines.

Technical Specification :

Material	Stainless steel or hardened aluminum alloy
Surface Finish	Brushed or polished finish, corrosion-resistant
Primary Components	Shaft with spline and end flange, and a detachable cap with alignment holes
Spline	Internal spline (female) for torque transmission or coupling
Mounting Holes	Threaded and pass-through holes for secure attachment
Precision Machining	CNC-turned and milled for high dimensional accuracy
Functionality	Used for rotational motion transfer, possibly as part of a roll-to-roll system
Application	Flexible packaging machines, Paper or film converting machines

Product Name : Ball Screw

The Ball screw is linear motion components used to convert rotary motion into linear motion with high efficiency and accuracy. These are typically used in CNC machinery, automation systems, and lifting mechanisms.

Technical Specification :

Material	Hardened steel or alloy steel with black oxide end mounts
Finish	Polished/surface-hardened screw shaft for wear resistance
Screw Type	Precision-ground or rolled ball screw
Nut Type	Double nut with ball recirculation channel
Bearing	Likely uses angular contact or thrust bearings inside housing
End Connection	Flanged black end mounts for coupling to motors or actuators
Shaft Diameter	12 mm – 32 mm
Overall Length	300 mm – 1000 mm
End Mount Type	Flanged, ready for motor coupling
Applications	CNC machine tools, Precision lifting tables,Injection molding machines

Product Name : Bearing Case

A precision-machined bearing case, typically used in mechanical systems to house and support a rotating shaft. It ensures proper alignment and secure positioning of bearings, allowing smooth rotational motion while minimizing friction and wear.

Technical Specification :

Material	High-grade alloy steel / Stainless Steel
Surface Finish	Ground and polished for high precision
Tolerance	±0.01 mm (depending on application)
Manufacturing Process	CNC Machined, Turned, Milled
Mounting Features	Threaded holes, key slots, clamping grooves
Coating (if any)	Nitriding / Phosphate / Hard Chrome (optional)
Weight	Application dependent (est. 5-15 kg)
Applications	Motors, gearboxes, pumps, turbines, etc.

Product Name : Masking Aluminium Shield

The Masking Aluminium machined shield/fixture designed for industrial use. It is lightweight yet strong, suitable for holding, supporting, or shielding cylindrical parts during machining or assembly operations.

Technical Specification :

Material	Aluminium Alloy
Surface Finish	CNC Milled, Ra 1.6 µm (approx.)
Curved Section	Precision-machined concave profile
Mounting Holes	Ø [10–12 mm] × 2 Nos. (as per design)
Weight	Lightweight due to aluminium material
Base	Solid aluminium with ribbed machining
Applications	Used as a shield, fixture, or support in machining setups

Product Name : 3” Ball Lock

3" Ball Lock Nut / Clamping Ring designed for high-precision applications. The ball locking system provides strong grip and prevents loosening under heavy loads, ensuring secure positioning of bearings and machine components.

Technical Specification :

Material	**High-strength Alloy Steel / Stainless Steel**
Size	3 inch
Locking Mechanism	Hardened Steel Balls with Hex Screws
Surface Finish	Precision Ground with Anti-rust Coating
Hardness	45–55 HRC (approx.)
Type	Ball Lock Nut / Clamping Ring
Applications	Machine tools, grinding spindles, CNC fixtures, bearing locking assemblies

Product Name : Female Coupler

The Female Coupler (Small) is a compact, durable connector designed to join pipes, hoses, or tubing in fluid or pneumatic systems. It features a threaded or quick-connect design for easy installation and secure connection. The coupler is resistant to wear, corrosion, and high pressure, making it suitable for industrial, automotive, and hydraulic applications.

Technical Specification :

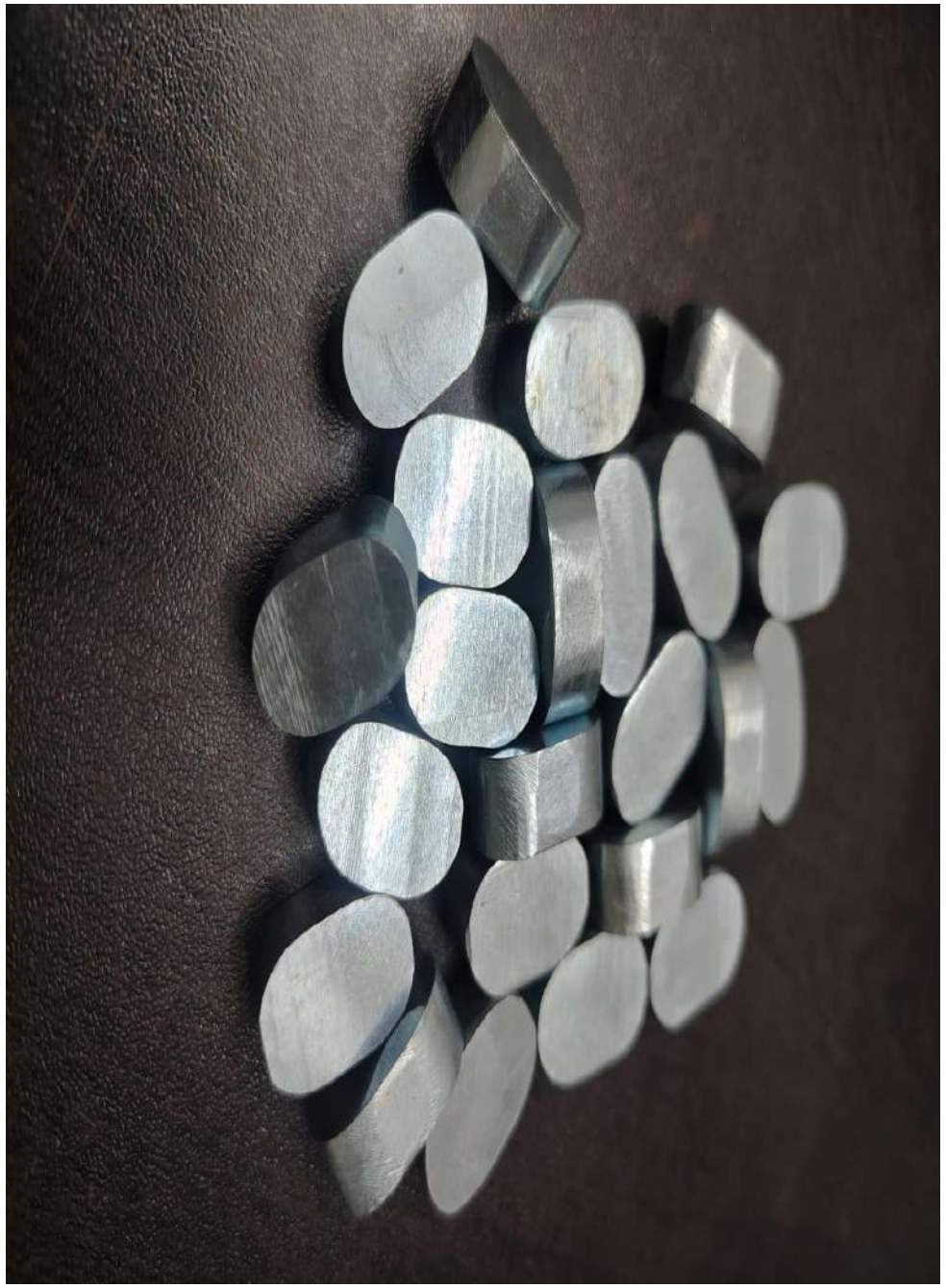
Material	Brass / Stainless Steel / Aluminum (depending on variant)
Connection Type	Threaded (BSP/NPT) or Quick-Connect
Size / Diameter	1/8″, 1/4″, 3/8″, or as per requirement
Temperature Range	-20°C to 150°C (depending on material)
Pressure Rating	Up to 3000 PSI (varies with material & size)
Seal Type	Nitrile / Viton / PTFE
Weight	Approx. 10–50 g depending on size
Applications	Hydraulic, Pneumatic, Water, Fuel, Gas systems

Product Name : Male Coupler

The Male Coupler (Small) is a compact and durable connector designed to mate with a corresponding female coupler in fluid, pneumatic, or hydraulic systems. It provides a secure, leak-resistant connection and is easy to install and remove. Constructed from high-quality materials, it is resistant to corrosion, wear, and high pressure, making it ideal for industrial, automotive, and general-purpose applications.

Technical Specification :

Material	Brass / Stainless Steel / Aluminum (depending on variant)
Surface Finish	Polished / Nickel Plated / Passivated
Connection Type	Threaded (BSP/NPT) or Quick-Connect
Size / Diameter	1/8″, 1/4″, 3/8″, or as per requirement
Pressure Rating	Up to 3000 PSI (varies with material & size)
Seal Type	Nitrile / Viton / PTFE
Temperature Range	-20°C to 150°C (depending on material)
Applications	Hydraulic, Pneumatic, Water, Fuel, Gas systems



Product Name : Key

The Small Key is a precision-engineered mechanical component used to connect rotating parts such as shafts and gears, ensuring torque transmission without slippage. Designed for high durability, it resists wear, corrosion, and deformation. Suitable for industrial, automotive, and machinery applications, it is easy to install and maintain.

Technical Specification :

Material	Mild Steel / Stainless Steel / Alloy Steel
Standard	DIN 6885 / ANSI B17.1 (depending on type)
Length	10–50 mm
Surface Finish	Polished / Black Oxide / Nickel Plated
Width / Thickness	2–10 mm
Tolerance	h9 / as per DIN standard
Temperature Range	-20°C to 200°C (depending on material)
Applications	Shafts, Gears, Pulleys, Couplings

Product Name : Unwinder Chuck

An Unwinder Chuck is a mechanical device used in roll-to-roll operations to hold and rotate rolls of material (like paper, film, foil, or textiles) in unwinding machines. It allows controlled unwinding of material while maintaining tension and alignment. The chuck securely grips the core of the roll and can accommodate different core sizes, often featuring pneumatic or mechanical expansion mechanisms.

Technical Specification :

Material	Steel / Aluminum alloy with hardened surface
Diameter Range	25 mm – 152 mm (1" – 6") (depends on design)
Maximum Roll Width	300 mm – 2000 mm
Maximum Roll Diameter	00 mm – 1200 mm
Expansion Mechanism	Pneumatic or Manual (Spring-assisted)
Speed Capability	Up to 100 m/min
Mounting	Flange or shaft-mounted
Tension Control	Optional tension sensors or brake system

Product Name : Winder Core

The Winder Core shown in the image is a precision-engineered, hollow cylindrical shaft, designed to serve as the rotating base for winding operations in heavy industrial applications. Made from hardened steel or alloy steel, it provides high strength, wear resistance, and superior balance for high-speed winding.

Technical Specification :

Material	**Hardened Alloy Steel / EN8 / EN24**
Surface Finish	Ground & Polished
Outer Diameter (OD)	~250–300 mm
Inner Diameter (ID)	~150–180 mm
Balancing	Precision balanced for dynamic operation
Length	~3 to 4 meters
Mounting Ends	Likely designed for bearing or flange fitment
Applications	High-speed winding core

Product Name : Hex Cam

These are precision-machined metal dies or stoppers, designed for use in a mechanical or forming application. The components feature both cylindrical and hexagonal sections, with central through-holes — possibly for alignment, fastening, or guiding pins. The internal contour and surface finish indicate that they might be used for press fitting, forming, or punching operations.

Technical Specification :

Material	Tool Steel / Stainless Steel
Manufacturing Process	CNC Turning + Milling + Internal Cavity Machining
Surface Finish	Ground / Polished (approx. Ra 0.8–1.6 µm)
Hardness	45–55 HRC
Shape	One cylindrical with internal cavity, one hexagonal with through-hole
Hole Type	Central through-hole
Applications	Stopper, forming die, or alignment fixture in assembly or press tool operations

Product Name : Timing Belt Pulley

High-precision timing belt pulley coupling designed for synchronous power transmission between driving and driven shafts. The toothed design ensures slip-free motion, accurate torque transfer, and smooth operation. Made with durable engineering material for long service life and resistance to wear.

Technical Specification :

Material	Engineering Polymer / Aluminium / Mild Steel
Teeth Type	Toothed
No. of Teeth	20 – 120 (varies with model)
Bore Size	Customizable as per shaft diameter
Outer Diameter	As per design requirement
Width	Standard or customized
Operating Temperature	Up to 80°C (depends on material)
Surface Finish	Machined & balanced for smooth rotation
Features	High torque transmission, zero backlash, corrosion resistant, low maintenance
Applications	Used in conveyor drives, packaging machines, automation equipment, and mechanical assemblies Used in conveyor drives, packaging machines, automation equipment, and mechanical assemblies

Product Name : Bearing Stopper Plate

A bearing stopper plate (also called a bearing retainer plate or lock plate) is a mechanical component used to secure a bearing in place on a shaft or within a housing. It prevents axial movement and ensures precise alignment of the bearing during operation. These plates are commonly used in gearboxes, motors, and rotating machinery where stability and reliability are essential.

Technical Specification :

Material	Carbon Steel / Stainless Steel / Mild Steel
Thickness	2 mm – 10 mm
Outer Diameter	30 mm – 200 mm
Inner Diameter	As per bearing bore (customizable)
Surface Finish	Zinc Plated / Black Oxide / Nickel Plated
Mounting Type	Bolt-on / Clip-on / Snap Fit
Hardness	35–45 HRC (for steel plates)
Tensile Strength	400 – 700 MPa (depending on material)
Function	Prevents axial bearing movement and holds bearing in position
Applications	Gearboxes, Electric Motors, Pumps, Conveyors, Industrial Machinery

Product Name : Sleeve

High-precision machined sleeve designed for use as a protective and alignment component in mechanical assemblies. It reduces friction, prevents metal-to-metal contact, and improves the life of shafts and housings. Suitable for light to medium load applications where corrosion resistance and smooth operation are required.

Technical Specification :

Material	Nylon / Delrin (POM) / Engineering Plastic
Surface Finish	Smooth machined surface
Outer Diameter (OD)	As per housing requirement
Inner Diameter (ID)	As per shaft size (customizable)
Temperature Range	-20°C to +100°C
Hardness	80–90 Shore D
Feature	Self-lubricating, corrosion resistant, lightweight
Applications	Used in shafts, pulleys, rollers, jigs, fixtures, and automation equipment

Product Name : 3” Chuck Blue Belt

A 3-inch blue belt chuck is a compact work-holding device designed for securely gripping and rotating workpieces on lathes, milling, or drilling machines. It is paired with a blue polyurethane (PU) or rubber belt, which provides smooth drive transmission, reduced vibration, and high frictional grip for precise machining operations.

Technical Specification :

Material	Hardened Steel Body / Cast Iron Body
Mounting Type	Threaded / Bolt Mount
Grip Type	3-Jaw Self-Centering
Belt Type	Polyurethane (Blue) Flat or V-belt
Clamping Range (OD)	2 mm – 65 mm
Clamping Range (ID)	10 mm – 50 mm
Accuracy (Runout)	≤ 0.05 mm
Applications	CNC, Lathe, Drill Machines, Small VMC Units

Product Name : Gasket

These appear to be metallic flat gaskets or spacer plates, precision-cut from a metal sheet (possibly aluminum or stainless steel) for industrial use. The design suggests they may be used for sealing, spacing, or load distribution in mechanical assemblies where durability and corrosion resistance are required.

Technical Specification :

Material	Aluminum or Stainless Steel
Manufacturing Process	CNC Laser Cutting / Waterjet Cutting
Thickness	Typically 1 mm – 5 mm (customizable)
Surface Finish	Smooth / Brushed metal finish
Shape	Custom rectangular body with widened ends for mounting or sealing
Temperature Range	Up to 400°C (Aluminum) or 800°C (Stainless Steel)
Corrosion Resistance	High (depends on alloy)
Applications	Used in mechanical assemblies, flange joints, machine mounts, or as shims in precision setups

Product Name : Rotary Union

A Brass Rotary Union is a mechanical device that allows the transfer of fluid or air between a stationary supply pipe and a rotating machine part while maintaining a leak-proof seal.Brass rotary unions are commonly used for water, air, hydraulic oil, and coolant applications where moderate pressure and temperature conditions are required.

Technical Specification :

Material	Brass
Max. Working Pressure	10 – 35 bar
Max. Rotational Speed	Up to 3,000 RPM
Temperature Range	−20°C to +120°C
Medium Compatibility	Water, air, hydraulic oil, coolant, vacuum
Connection Type	Threaded male/female BSP or NPT
Mounting Type	End or side connection
Seal Material	Carbon graphite / Ceramic / Nitrile (NBR) / Viton

Product Name : Clamp Live Board

A Clamp Live Board (also called a Live Line Clamp Board or Clamp Type Distribution Board) is an electrical mounting board or assembly designed to hold and connect live-line clamps, bus bars, or distribution terminals safely and securely.It provides a platform for connecting live conductors during maintenance, testing, or power distribution, ensuring proper insulation, safety, and mechanical support.

Technical Specification :

Material	High-grade Bakelite / FRP / Epoxy resin / Insulated PVC
Clamp Type	Brass / Copper alloy live clamp with insulation cover
Mounting Type	Wall-mounted / Panel-mounted
Insulation Resistance	>10 MΩ at 500 V DC
Temperature Range	−10°C to +70°C
Protection Class	IP20–IP54 (depending on enclosure type)
Color	Generally brown or black
Standard Compliance	IS/IEC 60947, IS 10118, or equivalent

Product Name : Timing Pulley

A Timing Pulley is a toothed pulley used in mechanical power transmission systems to synchronize the rotation between shafts.It works together with a timing belt, which has matching teeth that fit into the pulley's grooves—preventing slippage and ensuring precise motion transfer.

Technical Specification :

Material	Aluminum, Steel, Cast Iron, Plastic
Number of Teeth	10 – 120 (varies with pitch and diameter)
Belt Width Compatibility	6 mm – 50 mm
Surface Finish	Anodized / Zinc plated / Natural
Operating Temperature	−20°C to +120°C
Runout Tolerance	±0.05 mm (precision pulleys)
Tooth Profile	Trapezoidal or Curvilinear
Balancing	Dynamic balancing for high-speed use

Product Name : Housing

This is a CNC machined bearing housing block, designed to support rotating shafts in precision mechanical assemblies. The part is made of hardened steel and finished with high surface accuracy to ensure smooth bearing fitment and alignment. It provides rigidity and stability for industrial automation or machinery applications.

Technical Specification :

Material	Hardened Mild Steel / EN8
Surface Finish	Fine machined with polished bore
Manufacturing Process	CNC Machined & Surface Ground
Bore Diameter	As per bearing fit (e.g., Ø60 mm or as specified)
Flatness Tolerance	±0.01 mm
Perpendicularity	±0.02 mm
Mounting Holes	4 holes for secure base mounting
Coating	Anti-rust oil applied after finishing
Application	Used in CNC machines, automation setups, and industrial fixtures

Product Name : Lock Pin

This lock pin is a precision-machined component used to lock or locate the chuck plate on a winding machine. The slotted head allows for engagement/disengagement using a flat tool or key, while the central bore accommodates a fastening screw or securing element. The slot also facilitates slight compression for a tight fit or spring effect during locking.The pin ensures accurate positioning and prevents rotational slip between the chuck and plate under load conditions.

Technical Specification :

Material	Medium carbon steel (e.g., EN8 / C45)
Hardness	45–50 HRC
Finish	Ground or turned, with black oxide / zinc coating
Head Type	Slotted cylindrical head
Body Type	Cylindrical with central through hole
Outer Diameter (Body)	Commonly 12–20 mm (as per chuck plate design)
Overall Length	40–70 mm typical
Central Hole	Ø6–10 mm (through or blind) for bolt/pin insertion
Tolerance (OD)	h6 for press fit / sliding fit as per application
Usage	Locks chuck plate on winder shaft; ensures positional accuracy and torque transfer
Applications	Winder and rewinder chucks,Mechanical indexing plates

Product Name : Magnetic Grill

This is a circular magnetic grill designed for metal separation in industrial applications. It consists of multiple high-intensity magnetic rods arranged in a grid pattern inside a stainless-steel frame. The grill efficiently captures ferrous particles from powders, granules, and other material flows, ensuring product purity and protecting downstream equipment.

Technical Specification :

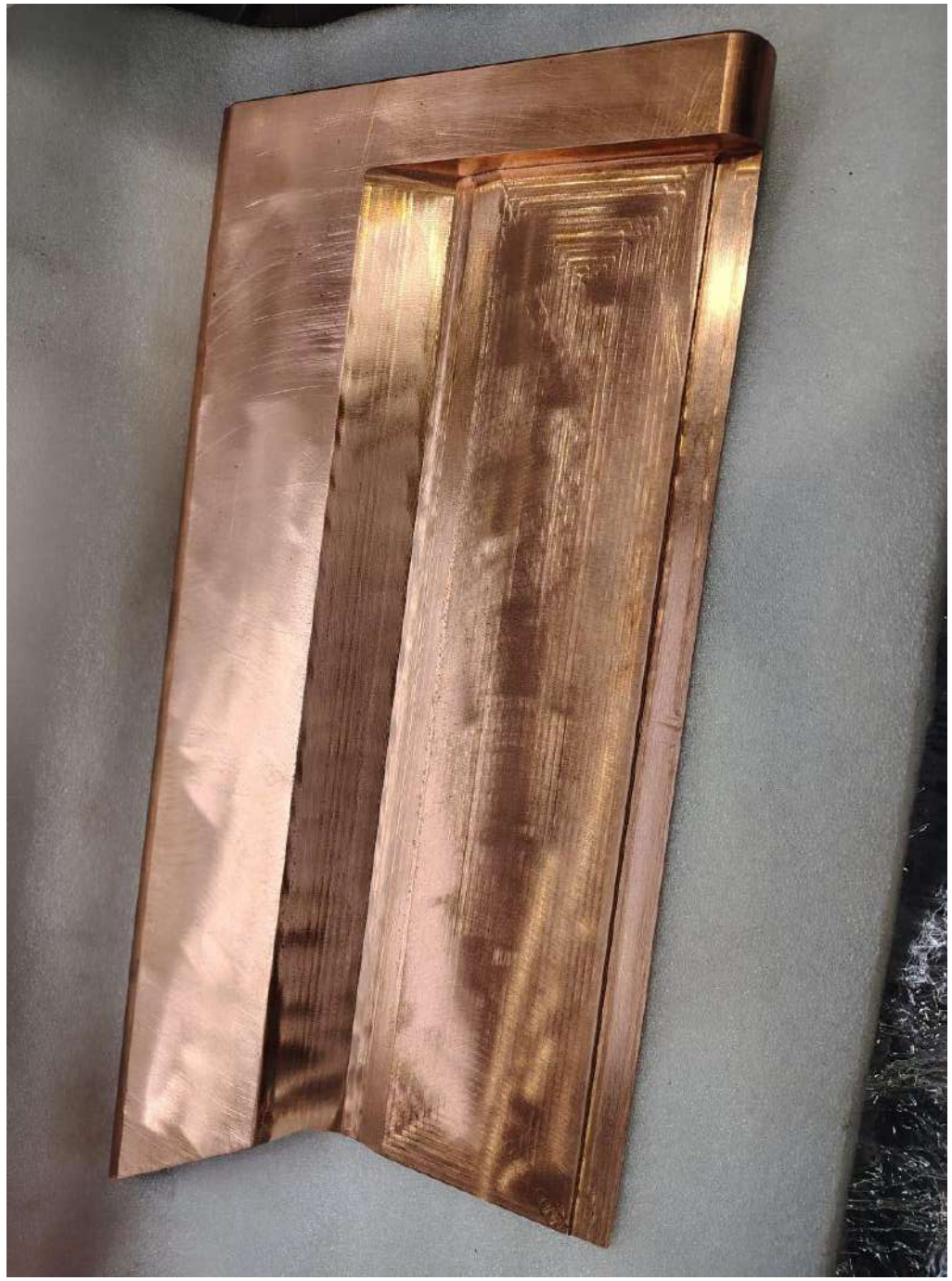
Material	Stainless Steel (SS-304 / SS-316 construction)
Magnet Type	High-intensity permanent magnets
Magnetic Strength	Approx. 8,000 – 12,000 Gauss (customizable)
Rod Diameter	25 mm (standard — may vary as per requirement)
No. of Magnetic Rods	Multiple rods arranged in horizontal & vertical pattern
Frame Shape	Round / Circular
Surface Finish	Polished stainless steel
Installation	Mounted inside chute, hopper, or material flow line
Application	Removes ferrous impurities from powders, granules, plastic, food ingredients, chemical materials, etc.

Product Name : Locking Block

These are precision-machined linear motion blocks with integrated brass nuts for smooth and low-friction movement on guide shafts. Designed for industrial automation and CNC applications, they offer stable alignment and high repeatability.

Technical Specification :

Material	Machined Aluminum Block with Brass Lead-screw Nut
Mounting	Multi-hole mounting plate for secure installation
Threading	Tapped side holes for rod or body fastening
Feature	Wear-resistant brass nut for smooth motion & durability
Surface Finish	Machined finish
Friction Type	Metal-to-metal sliding with brass guide
Durability	Corrosion-resistant, long life mechanical assembly
Operating Style	Lead-screw driven manual/ motorized actuation
Application	Removes ferrous impurities from powders, granules, plastic, food ingredients, chemical materials, etc.



Product Name : Copper Insert Plate

The insert plate is a precision-machined copper component designed for use in high-thermal conductivity applications such as mold inserts, heat exchangers, or electrical contact assemblies. It features a stepped geometry with a slanted profile on one side for alignment and fitting accuracy. The surface finish indicates a semi-polished machined surface for optimal heat transfer and mechanical stability.

Technical Specification :

Material	Copper
Surface Finish	0.4 – 0.8 µm (machined finish)
Hardness	70–90 HV
Tolerances	±0.01–0.05 mm
Weight	Based on size, typically 1–3 kg for this geometry
Protective Coating	None / optional anti-oxidation coating if required
Conductivity	≥ 100% IACS
Manufacturing Process	CNC Milling / Precision Machining
Application	Mold insert, heat sink, electrode block, or thermal interface plate

Product Name : Unwinder Shaft Ring

Unwinder Shaft Rings are precision-machined circular components used in unwinder or rewinder assemblies (commonly in printing, packaging, film, paper, or foil processing machines).In an unwinder system, these rings are mounted on the shaft to position, clamp, or align rolls of material and ensure stable unwinding without lateral movement.

Technical Specification :

Material	Aluminum Alloy 6061-T6 / Stainless Steel (SS304)
Surface Finish	Machined or Anodized (Ra 1.6–3.2 µm)
Outer Diameter (OD)	125 mm
Inner Diameter (ID)	110 mm
Mounting Holes	4–6 holes equally spaced on PCD for M4 / M5 screws
Tolerance	±0.02 mm (diameter), ±0.01 mm (thickness)
Manufacturing Process	CNC Turning and Milling
Function	Used to position or lock material cores on the unwinder shaft; ensures roll stability during high-speed unwinding
Application	Printing machines, Lamination units, Slitter-rewinders, Packaging film unwinding stations

Product Name : Unwinder Shaft Distance Piece

Unwinder Shaft Distance Pieces are precision-machined spacer rings used on the unwinder shaft of film, foil, or paper unwinding systems. These rings maintain accurate axial distance between core chucks or rolls, ensuring proper alignment and tension during unwinding.The key slots or grooves on the inner diameter allow positive locking or anti-rotation on keyed shafts, preventing slippage during operation.

Technical Specification :

Material	Aluminum Alloy 6061-T6 / Stainless Steel SS304
Surface Finish	Machined finish or Hard Anodized
Outer Diameter (OD)	135 mm
Inner Diameter (ID)	110 mm
Key Slot	2–4 equally spaced slots for shaft key alignment
Manufacturing Process	CNC Turning and Milling
Mounting Type	Slide fit / Key fit on shaft
Weight	As per material and dimensions
Application	Maintains spacing and positioning of cores or rolls on unwinder shafts; ensures balance and proper roll tension

Product Name : Siphon Tube

The Siphon Tube is a precision-engineered stainless steel tube designed for transferring or equalizing fluids between two points under controlled pressure or vacuum conditions. It ensures smooth flow, corrosion resistance, and durability for industrial and laboratory applications. Its robust design and fine finish make it ideal for use in pressure measurement systems, boilers, and chemical processing equipment.

Technical Specification :

Material	Stainless Steel (SS304 / SS316 as required)
Outer Diameter (OD)	Customizable (typically 10–25 mm)
Length	As per requirement (standard: 300–600 mm)
Wall Thickness	1.5–3.0 mm
Finish	Polished / Brushed / Mirror finish
Welded ends / Threaded	Connection Type
Operating Pressure	Up to 400 bar (depending on material and design)
Operating Temperature	-50°C to +400°C
Application	Used in pressure gauges, boiler systems, and fluid transfer setups

Product Name : Rewinding Shaft

This precision-machined rewinding shaft is designed for smooth rotation, stable load handling, and accurate alignment during rewinding operations. The component is made from high-strength alloy steel and is engineered to deliver durability, reduced vibration, and long-term performance in continuous industrial use.

Technical Specification :

Material	High-grade alloy steel / EN-series steel
Surface Finish	Fine-machined metal finish
Concentricity Tolerance	±0.02 mm
Roundness Tolerance	±0.01 mm
Center Slot Type	Keyway / Relief Slot (as required)
Manufacturing Process	CNC Turning & Precision Machining
Application	Used in rewinding, slitting and rotating assemblies for stable shaft support.

Product Name : Driven Gear Small & Big

The Driven Gear is a precision-machined component designed to transfer rotational motion and torque from the driving gear to the output shaft. It ensures smooth power transmission, reduced vibration, and efficient load distribution within mechanical systems. Manufactured from high-strength alloy steel, this gear provides excellent durability, wear resistance, and long operational life even under heavy load conditions.

Technical Specification :

Material	Alloy Steel / EN-Series Steel / Carbon Steel
Gear Type	Spur / Helical (depending on design)
No. of Teeth	As per requirement (e.g., 18T, 40T etc.)
Bore Diameter	Machined to tolerance for perfect shaft fit
Hardness	50–60 HRC after heat treatment (Optional)
Face Width	Custom (e.g., 20–40 mm)
Outer Diameter	As per design specifications
Surface Finish	Ground / Machined / Shot-blasted
Application	Gearbox, Industrial machines, Automation systems, Transmission mechanisms

Product Name : Worm Gear Shaft

The object is a worm gear shaft (also known as a worm). It is a precision-machined mechanical component used to transmit motion and torque through a worm-and-wheel gear mechanism. The helical threading indicates it is meant for high reduction ratios and smooth rotational movement. The top and bottom ends look machined for mounting or coupling with other parts.

Technical Specification :

Material	Hardened Alloy Steel / Carbon Steel
Gear Type	Single or Multi-Start Worm
Manufacturing Process	Turning, Thread Hobbing/Grinding, Heat Treatment
Surface Finish	Machined / Ground
Thread Form	Helical Worm Thread
Ends Machining	Cylindrical, stepped ends for coupling/bearing fit
Hardness	50–60 HRC
Thread Pitch / Lead	Depends on gear ratio
Key Features	High torque, smooth motion, compact design, durable
Application	Gearboxes, Conveyors, Automotive Steering, Lifting Mechanisms

Product Name : Super Worm Gear

A worm gear consists of a threaded worm shaft meshing with a worm wheel to provide high reduction ratios in a compact layout. It offers smooth, quiet operation with high torque transmission and can provide self-locking capability depending on the lead angle.

Technical Specification :

Material (Gear)	Bronze / High-strength Copper Alloy/Hardened Steel
Material (Shaft)	Hardened Steel / Alloy Steel
Gear Type	Worm & Worm Wheel
Number of Starts (Worm)	1–4 Starts
Number of Teeth (Wheel)	20–80 Teeth
Centre Distance	25 mm – 150 mm
Efficiency	60% – 90% (depends on ratio)
Mounting	Horizontal / Vertical
Operating Temperature	–10°C to 90°C
Application	Conveyors, lifts, hoists, machines, actuators

Product Name : Rewind Shaft Coupler

This component a metal machined hub/adapter with an internal bore and flange base.It includes a central cylindrical bore, a square/flat section for locking or fitting, and a flanged circular base with a small radial hole, likely for alignment, lubrication, or pin locking.It is typically used in mechanical assemblies, rotational fixtures, or shaft-mounting applications.

Technical Specification :

Material	Hardened Steel / Carbon Steel
Top Bore Type	Cylindrical Inner Bore
Component Type	Hub / Coupling Adapter / Fixture Part
Flange Hole	Small radial hole (1.5–3 mm) for pin/air/lube
Square/Flat Section	Machined locking surface for fitting or torque transfer
Surface Finish	Machined, semi-polished, with oxidation/dust
Outer Diameter (Flange)	Approx. 40–60 mm
Manufacturing Process	CNC Turning + Milling
Application	Mounting, locking, rotational support, fixture alignment

Product Name : Blade Holder

A Blade Holder is a precision-machined component designed to securely mount and support cutting blades during industrial operations. It ensures stable blade positioning, vibration reduction, and accurate cutting performance. The holder is usually made from durable materials like hardened steel or aluminium alloy to withstand continuous mechanical load and provide long service life. Its design allows quick blade installation, alignment, and replacement while maintaining safety and operational accuracy.

Technical Specification :

Material	Aluminium / Alloy Steel / Mild Steel
Mounting Holes	Precision drilled for alignment & fastening
Surface Finish	Smooth machined finish / Anti-corrosion treated
Tolerance	±0.05 mm (depending on model)
Design Features	Flat seating surface, chamfered edges, secure blade locking
Compatibility	Fits standard industrial blades & couplers
Durability	High strength, vibration-resistant, long service life
Manufacturing Process	CNC Machined, Precision Finished
Application	Cutting, slitting, converting, packaging machines

Product Name : Copper Siphon Tube

A copper siphon tube is a precision-bent copper pipe used to protect pressure gauges, transmit pressure safely, and reduce the effects of sudden pressure spikes or high-temperature fluids. It provides a barrier between the instrument and the process medium, ensuring stable and accurate readings.

Technical Specification :

Material	**High-grade Copper**
Type	U-Type / Coil Type / Straight Type
Temperature Range	Up to 150°C
Length	150 mm – 300 mm
Wall Thickness	0.8 mm – 1.5 mm
Outer Diameter (OD)	6 mm – 12 mm (customizable)
Finish	Smooth, corrosion-resistant
Features	High durability, thermal dissipation, prevents pressure shocks
Application	Protection of pressure gauges & instruments

Product Name : Gun Metal Bush

A Gun Metal Bush is a cylindrical bearing component made from gunmetal, an alloy typically composed of copper, tin, and zinc. It is widely used in mechanical assemblies for reducing friction between rotating or sliding parts. Gun metal bushes offer excellent wear resistance, good machinability, high corrosion resistance, and long service life, making them suitable for heavy-duty industrial applications such as pumps, valves, engines, and machinery.

Technical Specification :

Material	Gun Metal
Mounting Holes	Cylindrical Plain Bush / Sleeve Bush
Type	Smooth machined finish / Anti-corrosion treated
Hardness	65–80 HB
Corrosion Resistance	High (especially in water, steam, and mild chemicals)
Friction Properties	Low friction, suitable for dry and lubricated conditions
Density	8.7–8.9 g/cm³
Operating Temperature	Up to 200°C continuous
Application	Pumps, motors, gearboxes, valves, marine parts, automotive components

Product Name : Mounting Block

The component is a machined metal mounting block / flange housing. It is a cylindrical steel/metal part with a flange and multiple bolt holes for mounting onto machinery. It is designed to support shafts, bushings, or rotating components.

Technical Specification :

Material	Mild Steel / Alloy Steel
Component Type	Flanged Mounting Block / Housing
Flange Diameter	80–120 mm
Flange Bolt Holes	4–6 holes (equally spaced)
Design Features	Flat seating surface, chamfered edges, secure blade locking
Outer Diameter (Body)	50–100 mm Approx.
Surface Finish	Machined, turned
Key Features	Strong, rigid, precise alignment, supports load & vibration
Application	Mounting rotating shafts, fixture alignment, machinery support

Product Name : Intermediate Shaft

An intermediate shaft is a precision-machined rotating component used to transmit torque between two mechanical elements. It is typically installed between a drive shaft and a driven assembly.
The shaft in your image includes a flange mount, threaded ends, and stepped machining, indicating it is designed for high-accuracy alignment, secure mounting, and load-bearing rotation.

Technical Specification :

Material	Alloy Steel / EN8 / EN24
Mounting Holes	Flange mounting with bolt holes
Surface Finish	Machined finish / ground surface
Thread Type	External threading on shaft ends
Shaft Design	Stepped cylindrical shaft
Typical Hardness	25–35 HRC
Manufacturing Process	CNC turning, threading, facing, drilling
Special Features	High concentricity, corrosion-resistant finish, precise tolerance control
Application	Power transmission, mechanical assemblies, rotating equipment

Product Name : Tube, Siphon SS

These components are precision-machined stainless steel drive shafts designed for industrial machinery. Each shaft features a long, polished cylindrical body with a heavy-duty bottom housing that includes side ports for airflow, lubrication, or mechanical locking. A small horizontal pin on the lower body provides alignment or coupling functionality. The shafts are engineered for smooth rotation, high strength, and excellent durability under continuous load conditions.

Technical Specification :

Material	Stainless Steel
Top End	Straight cylindrical finish
Bottom Housing Type	Enlarged machined housing with side holes
Side Ports / Holes	2 circular holes for airflow/lubrication/locking
Locking Pin	One small horizontal pin on each shaft
Main Shaft Diameter	25–35 mm
Manufacturing Process	CNC Turning, Drilling, Boring, Finishing
Surface Finish	CNC machined + polished finish
Application	Machine drive mechanisms, rotating assemblies, industrial equipment

Product Name : Tube, Siphon Rotar

This component is a precision-machined stainless steel shaft assembly designed for rotary or linear motion applications. It features a long, high-strength cylindrical shaft with a flanged base for secure mounting and radial holes for alignment or lubrication. The shaft provides excellent rigidity, corrosion resistance, and smooth operation, making it suitable for mechanical, industrial, and machine-tool assemblies.

Technical Specification :

Material	Stainless Steel
Top End Type	Threaded/Cap-end locking arrangement
Bottom End Type	Machined Flange with bolt holes
Flange Holes	3–4 holes (for mounting)
Flange Diameter	70–90 mm
Flange Thickness	10–15 mm
Surface Finish	Machined, polished
Manufacturing Process	CNC Turning + Drilling + Finishing
Application	Mechanical assembly, rotary mechanism, industrial machinery

Product Name : Garter Spring

A Garter Spring is a circular, coiled tension spring designed to maintain constant radial pressure around shafts, seals, and rotating components. It is widely used in oil seals, mechanical seals, and rotary applications where uniform compression and long-term elasticity are required. Its closed-loop design ensures consistent sealing performance even under high speed and varying temperatures.

Technical Specification :

Material	Spring Steel / Stainless Steel
Type	Extension Coil Spring
Tensile Strength	1500–2000 MPa (depending on material)
Spring Ends	Hooked, interlocked, or welded
Temperature Range	−40°C to +200°C
Features	Constant radial pressure, corrosion-resistant, high fatigue life, flexible and durable
Surface Finish	Plain / Zinc Coated / Polished
Wire Diameter	As per requirement / drawing
Application	Oil seals, rotary shaft seals, mechanical seals, hydraulic/pneumatic systems

Product Name : Erema Plate

The EREMA Plate is a high-precision machined stainless-steel component designed for use in plastic recycling and extrusion machinery. Engineered for durability and smooth operation, it ensures accurate alignment, stable rotation, and reliable performance under continuous industrial load. Its finely machined surface and robust construction make it ideal for high-temperature and high-pressure applications within EREMA systems.

Technical Specification :

Material	Stainless Steel
Hardness	Typically 180–220 HB
Outer Diameter	As per customer requirement / drawing
Thickness	Customized
Features	High wear resistance, smooth rotation, corrosion-resistant, dimensionally stable
Surface Finish	Fine Machined Finish, Low Surface Roughness
Manufacturing Process	CNC Turning & Precision Machining
Application	Used in EREMA plastic recycling & extrusion machinery

Product Name : Drive Roller

This is a high-precision Drive Roller designed for smooth and reliable power transmission in mechanical systems. The roller features a machined steel/aluminium body, a high-strength bearing assembly, and a sprocket-based drive interface to ensure efficient rotation under load. It is suitable for textile machinery, packaging equipment, conveyor units, and various industrial automation applications.

Technical Specification :

Material	Mild Steel / Aluminium
Bearing Type	Deep Groove Ball Bearing
Bearing Mounting	Press-fit with snap-ring locking
Inner Bore	Threaded center bore
Drive Type	Dual Sprocket Gear Drive
Sprocket Material	Hardened Steel
Operating Speed	500–3000 RPM
Special Features	Smooth rotation, high durability, low friction, corrosion-resistant finish
Application	Textile machinery, conveyor systems, packaging & printing machines

Product Name : Aluminium Shield

This is a precision-machined aluminum shield designed to support and guide a cylindrical or rotating component. The curved inner profile ensures accurate seating, while both side-mounted holes allow secure fastening. The part is CNC-machined with a smooth surface finish to maintain dimensional accuracy and stability during machine operation.

Technical Specification :

Material	Aluminum Alloy
Curved Seating Radius	Machined radius based on mating component
Hole Type	Counterbored / Countersunk
Mounting Holes	2 Nos. (One on each side)
Structure Type	Curved Profile Support Shield
Tolerance	Machining tolerance as per drawing
Surface Finish	Fine Machined Finish
Manufacturing Process	CNC Milling & Surface Finishing
Application	VMC Fixtures, Machinery Support, Industrial Components, Precision Holding

Product Name : Bush

This precision-machined Metal Bush (Bushing) is designed to provide smooth rotational support and reduce friction between moving components. Manufactured from high-strength steel, it offers excellent durability, wear resistance, and dimensional accuracy. Suitable for mechanical assemblies, industrial machinery, rollers, shafts, and various engineering applications.

Technical Specification :

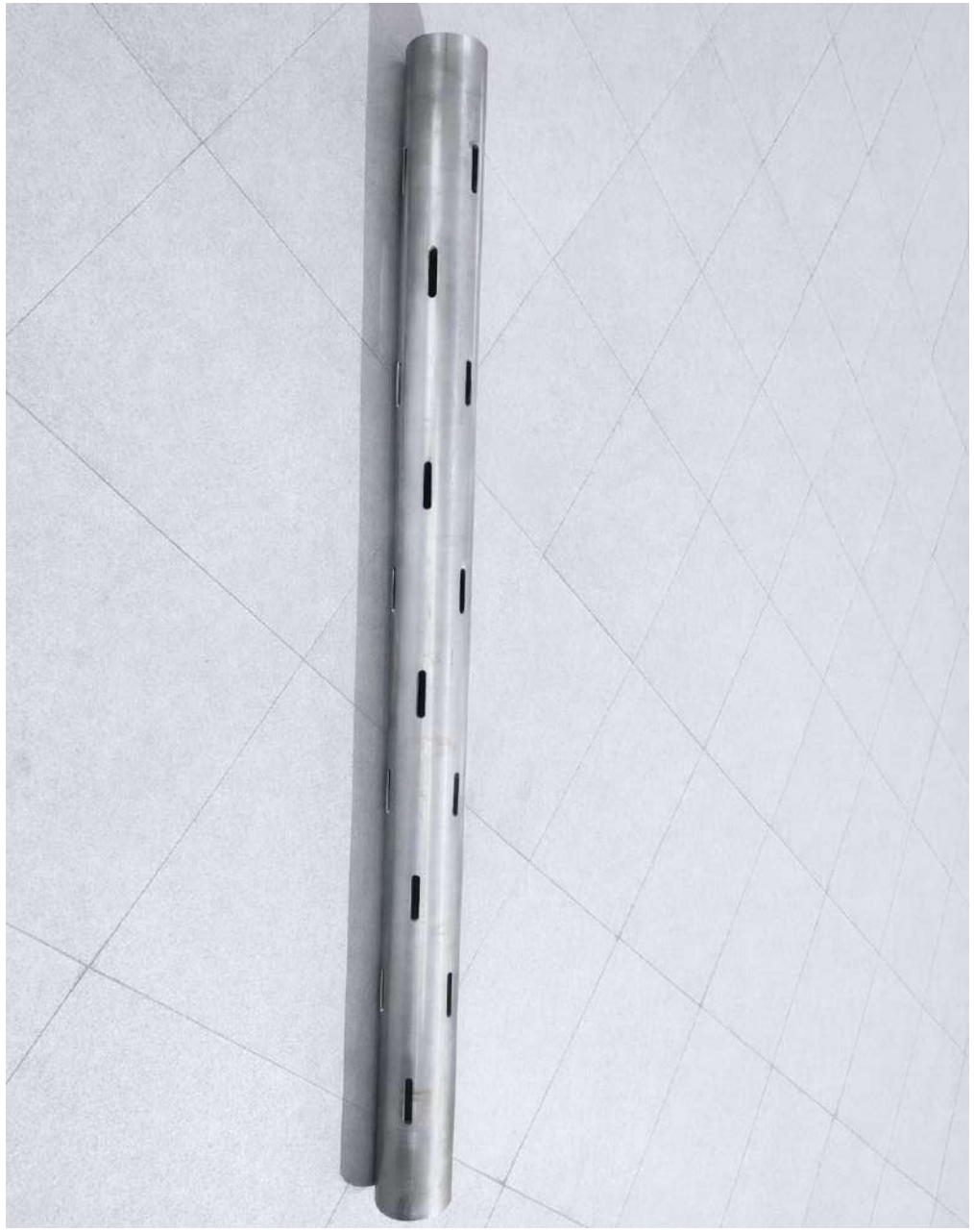
Material	Mild Steel / Alloy Steel / EN-Grade
Wall Thickness	Depends on OD–ID
Hardness	Custom (typically 40–55 HRC if hardened)
Tolerance	As per drawing (H7 / h7 options available)
Manufacturing Process	Precision Machined
Surface Finish	Machined / Ground
Special Features	High wear resistance, smooth finish, long service life, corrosion-resistant
Application	Shafts, rollers, sleeves, mechanical assemblies

Product Name : Removal Tool

This Removal Tool is a specially designed fixture used for safe and accurate removal of press-fit or interference-fit components such as bushes, bearings, pins, or sleeves. It is equipped with guide pins to ensure proper alignment during removal, minimizing the risk of component or housing damage. The tool is commonly used in maintenance, overhauling, and tool-room applications where repeatability and reliability are required.

Technical Specification :

Guide Pin Material	**Hardened Alloy Steel**
Base Plate Material	MS / EN Steel (Hardened)
Guide Pins	2 Nos
Guide Pin Finish	Ground / Polished
Suitable Components	Bush, Bearing, Pin, Sleeve
Surface Finish	Oiled / Anti-rust coating
Manufacturing Process	CNC Machining + Grinding
Application	Bush / Bearing / Pin Removal



Product Name : Steel Housing

This steel housing is a cylindrical fabricated component used for heavy-duty industrial applications. It features evenly spaced slots that serve purposes such as airflow, drainage, or mounting. The housing is strong, durable, and precision-made, making it commonly used in mechanical assemblies, rollers, shafts, filters, or protective covers.

Technical Specification :

Material	Mild Steel (MS) / Stainless Steel
Shape	Cylindrical
Slot Type	Oval / Long Slots
Slot Cutting Method	CNC / Laser / Plasma
Slot Pitch	Uniform
Surface Finish	Natural / Polished / Machined
Manufacturing Process	Pipe Fabrication & Machining
Application	Mechanical Housing / Roller Cover / Protective Casing

Product Name : Pivot Arm Roll

The Pivot Arm Roll is a precision-machined cylindrical component designed for smooth rotational movement and accurate load support in mechanical assemblies. It features a robust body with a flanged mounting face and evenly spaced bolt holes for secure installation. Manufactured from high-quality steel or alloy material, this component ensures strength, durability, and reliable performance in continuous industrial operation. It is commonly used in pivot mechanisms, roller assemblies, linkages, and automated machinery.

Technical Specification :

Material	Mild Steel / Alloy Steel / EN8 / EN19
Outer Diameter	80 mm
Inner Bore Diameter	50 mm
Flange Thickness	15 mm
Runout / Concentricity	≤ 0.05 mm
Surface Finish	Machined / Fine Turned (Ra 1.6 µm)
Manufacturing Process	CNC Turning, Drilling, Machining
Application	Pivot Mechanism, Roller Assembly, Industrial Machinery

Product Name : Rewinding Arm Drive Shaft Male

This rewinding arm drive shaft (male) is a precision-machined power transmission component designed to transfer rotary motion and torque from one assembly to another. One end features male splines that provide proper engagement with a mating female spline or hub. The shaft includes stepped sections and a flange for secure mounting and accurate alignment. This component is designed to withstand high loads and continuous operation.

Technical Specification :

Material	Alloy Steel / EN8 / EN19 / SS
Hardness	HRC 50–60 on splines
Runout / Concentricity	≤ 0.05 mm
Inspection	Dimensional, Visual & Spline Check
Heat Treatment	Case Hardening / Induction Hardening
Surface Finish	Machined / Ground
Manufacturing Process	CNC Turning, Spline Cutting, Machining
Application	Power Transmission / Gearbox / Coupling Assembly

Product Name : Drive Shaft

The Drive Shaft is a precision-machined power transmission component designed to transfer rotary motion and torque between mechanical assemblies. It features a stepped cylindrical profile with machined slots and mounting sections to ensure proper alignment, secure coupling, and smooth operation. Manufactured from high-strength steel, this shaft is suitable for heavy-duty and continuous industrial applications such as gearboxes, rollers, and rotating equipment.

Technical Specification :

Material	**Alloy Steel / EN8 / EN19 / Carbon Steel**
Slot Type	Longitudinal Machined Slot
Heat Treatment	Induction Hardening / Case Hardening
Straightness / Runout	≤ 0.05 mm
Overall Length	450 mm
Surface Finish	Machined / Fine Turned (Ra 1.6 µm)
Manufacturing Process	CNC Turning, Slot Milling, Drilling, Machining
Application	Power Transmission, Gearbox, Roller & Industrial Machinery

Product Name : Knob

This knob (knurled thumb knob) is a hand-operated fastening component that can be easily tightened or loosened without using any tools. Its outer knurled surface provides improved grip, and it has a threaded stud at the center, making it suitable for use in panels, fixtures, covers, or adjustable assemblies. These knobs are precision-machined and are ideal for applications requiring frequent operation.

Technical Specification :

Material	Aluminium / Mild Steel / Stainless Steel
Operating Method	Hand Tightening
Thread Type	Male Thread
Thread Standard	Metric (ISO)
Knurl Type	Diamond / Straight Knurl
Surface Finish	Natural / Polished / Anodized
Manufacturing Process	CNC Turning & Knurling
Application	Panels, Covers, Fixtures, Adjustable Assemblies

Product Name : Copper Block

A Copper Block is a precision-machined component made from high-purity copper, widely used in electrical, thermal, and industrial applications. It offers excellent electrical conductivity, high thermal conductivity, and good machinability, making it ideal for current-carrying parts, heat dissipation, electrodes, and bus bar connections.

Technical Specification :

Material	Copper
Hole Type	Through holes / Tapped holes
Dimensional Tolerance	±0.05 mm
Hardness	45–60 HB
Operating Temperature	Up to 200°C
Corrosion Resistance	Good
Surface Finish	Machined / Natural Copper Finish
Manufacturing Process	CNC Machined
Application	Electrical contacts, Heat sink, Bus bar, Electrode

Product Name : Rewinding 6” Chuck

This component is a precision-machined cylindrical metal part designed for industrial mechanical applications. It features a smooth machined top surface with a central bore and finely cut vertical grooves on the outer circumference. The component is manufactured to ensure high strength, dimensional accuracy, and reliable performance in rotating or transmission systems.

Technical Specification :

Material	Alloy Steel / EN Steel
Bore Type	Central Cylindrical Bore
Outer Surface	Precision Vertical Grooves
Surface Condition	Clean, Oil-Protected
Dimensional Accuracy	High Precision
Top Surface Finish	Smooth Machined Finish
Manufacturing Process	CNC Machined
Application	Power Transmission / Mechanical Assembly

Product Name : Pivot Arm Roll (Aluminium)

The Pivot Arm Roll is a precision-machined aluminium component designed to support smooth rotational or pivoting movement in mechanical assemblies. It features a cylindrical body with a stepped top profile and a flanged base with mounting holes for secure installation. Manufactured from high-quality aluminium, this part offers excellent strength-to-weight ratio, corrosion resistance, and dimensional accuracy, making it suitable for continuous industrial use.

Technical Specification :

Material	Aluminium Alloy
Design Type	Cylindrical with Stepped Profile
Mounting	Flanged Base with Bolt Holes
Corrosion Resistance	Good
Dimensional Accuracy	High Precision
Surface Finish	Smooth Machined / Brushed Finish
Manufacturing Process	CNC Turning & Machining
Application	Pivot Mechanism / Arm Assembly / Industrial Use

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