



DISLAB Precision
Industrial Precision Components

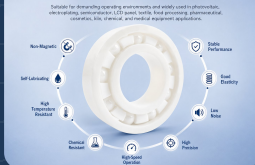
INDUSTRIAL BEARING CATALOG

Industrial Bearing Product Catalog

Ceramic, Plastic, Pillow Block, and Linear Motion Bearing Solutions engineered for demanding industrial environments.

<https://dislabprecision.com>

WIDE RANGE OF APPLICATIONS



Ceramic Bearings

POM Plastic Pillow Block Bearing Unit



Plastic Pillow Block Units

PEEK Plastic Bearing



Plastic Deep Groove Bearings

SELF-LUBRICATING



Linear Motion Bearings

Need help choosing the right bearing?

Use our online Product Selector to compare materials, bearing types, application environments, and RFQ requirements.

[Open Product Selector](#)

ABOUT US

Precision Components for Industrial Applications

DISLAB Precision supplies industrial precision components including bearings, fasteners, spacers, CNC parts, and custom-engineered hardware solutions. We support OEM/ODM projects, sample orders, bulk supply, and global delivery.

Catalog Scope

This catalog summarizes ceramic bearings, plastic deep groove bearings, POM pillow block bearing units, and linear motion bearings for overseas buyers, engineers, procurement teams, maintenance teams, OEMs, and distributors.

Technical Data Notice

Exact load ratings, speed ratings, tolerance grades, temperature ranges, and dimensions are not generalized in this catalog. Where detailed values are not shown on the product page, they are marked as available upon request, model-dependent, or application-dependent.

CAPABILITIES

How We Support Your Projects



OEM / ODM

Custom-engineered hardware solutions tailored to your specifications.



Sample Orders

Low-volume samples for validation and prototyping before full production.



Bulk Supply

Scalable production quantities with consistent quality and lead times.



Global Delivery

Worldwide shipping and logistics support for international customers.

Need help choosing the right bearing?

Use our online Product Selector to compare materials, bearing types, application environments, and RFQ requirements.

[Open Product Selector](#)

CATEGORY POSITIONING

Specialized Bearing Solutions

Each product family is engineered for specific operating conditions — from corrosive wet environments to clean, precision automation.



Ceramic Bearings

Zirconia and silicon nitride full ceramic deep groove bearings for corrosion resistance, insulation, and specialized environments.



Plastic Deep Groove Bearings

POM, PP, and PEEK plastic bearings for wet, corrosive, low-noise, metal-free, and lightweight applications.



Plastic Pillow Block Bearing Units

POM mounted bearing units for light-duty shaft support in wet or corrosive production areas.



Linear Motion Bearings

KH compact drawn cup and LM series linear ball bearings for guide shaft motion systems.

SELECTION TOOL

Use the DISLAB Precision Product Selector

Narrow down suitable bearing options before requesting a quote. Compare materials, structures, size ranges, and working environments in one place.

Open Product Selector

ROTARY BEARINGS

Compare Rotary Bearing Options

Simplified comparison for material selection and early RFQ screening. Exact ratings and dimensions remain model-dependent.

PRODUCT	MATERIAL	BEST FOR	TYPICAL APPLICATIONS	RFQ NOTES
Zirconia Full Ceramic Deep Groove Ball Bearing	Zirconia ceramic (ZrO ₂)	Wet, corrosive, non-magnetic, electrically insulating, and clean precision assemblies.	Chemical pumps and dosing equipment; water treatment equipment and wet-area machinery; food equipment washdown zones.	Confirm model, cage option, ceramic material, dimensions, environment, quantity, and drawing if available.
PEEK Deep Groove Ball Bearing	PEEK engineering plastic	Chemical-resistant, metal-free, and higher-temperature plastic bearing positions.	Chemical pumps and process valves; high-temperature packaging or drying equipment; medical and laboratory machinery.	Confirm series/model, ring material, ball material, cage design, dimensions, operating environment, and quantity.
PP Plastic Ball Bearing	PP plastic	Chemical, wet, food-processing, and electrically insulated low-load applications.	Food-processing machinery and washdown conveyors; chemical handling equipment and small pumps; water treatment equipment.	Confirm model, ID/OD/width, ball material, cage type, chemical exposure, water contact, quantity.
POM Deep Groove Ball Bearings	POM/acetal plastic, PA66 cage, glass ball options	Wet, corrosive, low-noise, and lightweight rotating applications.	Conveyor rollers and light-duty transfer systems; packaging lines and sorting equipment; food and beverage equipment.	Confirm model, open/shielded structure, material combination, dimensions, water exposure, quantity, and drawing if available.

Technical Note

- Exact load ratings, speed ratings, tolerance grades, and temperature ranges are model-dependent.
- Always confirm application conditions with DISLAB Precision before finalizing your order.

MOUNTED & LINEAR MOTION BEARINGS

Mounted Units & Linear Motion

Use this table to shortlist mounted bearing units and guide-shaft linear bearing options before sending drawings or models.

PRODUCT	MATERIAL	BEST FOR	TYPICAL APPLICATIONS	RFQ NOTES
POM Plastic Pillow Block Bearing Unit	POM plastic housing with UC insert bearing	Light-duty mounted shaft support in wet, washdown, or corrosive production areas.	Conveyors and light-duty transfer shafts; packaging lines and filling equipment; food equipment washdown areas.	Confirm shaft size, housing style, mounting hole pattern, insert requirement, quantity, and environment.
KH Series Compact Drawn Cup Linear Ball Bearings	Drawn cup outer shell with recirculating ball structure	Compact guide-shaft systems where installation space is limited.	Compact automation fixtures; 3D printers and desktop motion systems; small CNC guide systems.	Confirm shaft diameter, housing bore, installation fit, stroke, lubrication, quantity, and drawing if available.
LM Series Linear Ball Bearing	Heat-treated steel with synthetic resin retainer	CNC, automation, packaging, and guide-shaft linear motion systems.	CNC guide systems and linear slides; industrial automation fixtures; 3D printers and gantry systems.	Confirm shaft diameter, LM style, housing or flange type, lubrication, working environment, quantity, and drawing if available.

SELECTION TOOL

Compare Before You Request a Quote

Use the Product Selector to compare material, structure, size range, and working environment before RFQ.

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WIDE RANGE OF APPLICATIONS

Suitable for demanding operating environments and widely used in photovoltaic, electroplating, semiconductor, LCD panel, textile, food processing, pharmaceutical, cosmetics, kiln, chemical, and medical equipment applications.



FULL CERAMIC BEARING

Zirconia Full Ceramic Deep Groove Ball Bearing

<https://dislabprecision.com/dislab-precision-zirconia-full-ceramic-dee-p-groove-ball-bearing/>

Zirconia full ceramic deep groove ball bearings for corrosion-resistant, non-magnetic and high-temperature precision applications. Select 175 standard sizes.

Main Material	Zirconia ceramic (ZrO_2)
Bearing Type	Full ceramic deep groove ball bearing
Structure	Ceramic rings and balls; cage configuration is model-dependent
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

Standard, thin-wall, miniature, MR / inch series; the product page references 175 standard sizes. Exact dimensions are model-dependent.

Key Advantages

- Corrosion-resistant ceramic construction for wet and chemical environments.
- Non-magnetic and electrically insulating bearing option.
- Suitable for clean, low-lubrication, and application-specific operating conditions.

Application Industries

- Chemical pumps and dosing equipment
- Water treatment equipment and wet-area machinery
- Food equipment washdown zones
- Laboratory, medical, and inspection instruments
- Electrically insulated automation fixtures

Technical Notes / Selection Notes

- Exact temperature, load, speed, clearance, and tolerance requirements are model-dependent.
- Please confirm material, cage option, size, and application conditions with DISLAB Precision before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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MOUNTED BEARING UNIT

POM Plastic Pillow Block Bearing Unit

<https://dislabprecision.com/dislab-precision-pom-plastic-pillow-block-bearing-unit/>

POM plastic pillow block bearing units with UC insert bearings and polymer housings for corrosion-resistant, insulated and maintenance-free light-duty applications.

Main Material	POM plastic housing with UC insert bearing configuration
Bearing Type	Mounted pillow block bearing unit
Structure	Polymer pillow block housing with insert bearing; insert details are model-dependent
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

Standard mounted bearing sizes and custom options available upon request.

Key Advantages

- POM housing supports corrosion-resistant mounted bearing assemblies.
- Designed for insulated, lightweight, and maintenance-sensitive equipment positions.
- Useful where metal housings are not preferred due to moisture or chemical exposure.

Application Industries

- Conveyors and light-duty transfer shafts
- Packaging lines and filling equipment
- Food equipment washdown areas
- Water treatment skids and wet-area machinery
- Corrosion-sensitive OEM assemblies

Technical Notes / Selection Notes

- Load capacity and insert bearing specification are application-dependent.
- Confirm shaft size, housing style, mounting hole pattern, and environment before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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PLASTIC DEEP GROOVE BEARING

PEEK Deep Groove Ball Bearing

<https://dislabprecision.com/dislab-precision-peek-deep-groove-ball-bearing/>

PEEK deep groove ball bearings for high-temperature, chemical-resistant and metal-free applications. Select 6000, 6200, 6300, 6800, 6900 and miniature sizes.

Main Material	PEEK engineering plastic
Bearing Type	Plastic deep groove ball bearing
Structure	PEEK rings with ball and cage options selected by application
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

6000, 6200, 6300, 6800, 6900 and miniature size families are referenced on the product page. Exact dimensions are model-dependent.

● Key Advantages

- PEEK material supports demanding chemical and thermal application environments.
- Metal-free construction options for specialized industrial equipment.
- Standard and miniature size families may be selected according to the product page.

● Application Industries

- Chemical pumps and process valves
- High-temperature packaging or drying equipment
- Medical and laboratory machinery
- Metal-sensitive inspection systems
- Electrically insulated automation fixtures

Technical Notes / Selection Notes

- Exact load rating, speed rating, tolerance class, and working temperature are model-dependent.
- Please confirm resin grade, ball material, cage design, and size before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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PLASTIC BALL BEARING

PP Plastic Ball Bearing

<https://dislabprecision.com/pp-plastic-ball-bearing/>

PP plastic ball bearings for chemical, wet, food-processing and electrical insulation applications. Select standard and miniature sizes with d/D/B dimensions.

Main Material	PP plastic
Bearing Type	Plastic ball bearing
Structure	PP plastic bearing construction with ball material selected by application
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

Standard and miniature sizes are referenced on the product page; confirm ID, OD, width, and ball material by model.

Key Advantages

- PP plastic construction for wet and corrosive operating environments.
- Useful for low-noise and lightweight industrial assemblies.
- Standard and miniature sizes are available according to the product page.

Application Industries

- Food-processing machinery and washdown conveyors
- Chemical handling equipment and small pumps
- Water treatment equipment
- Wet-area conveyor rollers
- Electrically insulated light-duty assemblies

Technical Notes / Selection Notes

- Exact dimensions, load capacity, and speed limits depend on the selected model.
- Confirm ball material, cage type, size, and exposure conditions before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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PLASTIC DEEP GROOVE BEARING

POM Deep Groove Ball Bearings

<https://dislabprecision.com/pom-deep-groove-ball-bearings/>

POM deep groove ball bearings for wet, corrosive and low-noise applications. Acetal plastic rings, PA66 cage, glass balls, open and shielded options.

Main Material	POM/acetal plastic, PA66 cage, glass ball options
Bearing Type	Plastic deep groove ball bearing
Structure	POM rings with PA66 cage and glass balls; open or shielded options may be available
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

Standard sizes and custom options available upon request; open and shielded structures may be reviewed by RFQ.

Key Advantages

- POM/acetal plastic rings for water resistance and smooth rotation.
- Low-noise operation for lightweight machinery and conveyor positions.
- Open and shielded options can be reviewed based on the product page and RFQ.

Application Industries

- Conveyor rollers and light-duty transfer systems
- Packaging lines and sorting equipment
- Food and beverage equipment
- Water-contact machinery and wet-area fixtures
- Corrosive or humid production environments

Technical Notes / Selection Notes

- Detailed dimensions and service limits are model-dependent.
- Confirm open or shielded structure, quantity, and actual environment before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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LINEAR MOTION BEARING

KH Series: Compact Drawn Cup Linear Ball Bearings

<https://dislabprecision.com/kh-series-compact-drawn-cup-linear-ball-bearings/>

DISLAB Precision KH Series compact drawn cup linear ball bearings offer ultra-compact design, press-fit installation, and low-friction linear motion for miniaturized automation, 3D printers, and small CNC machines.

Main Material	Drawn cup outer shell with recirculating ball structure
Bearing Type	Compact linear ball bearing
Structure	Compact drawn cup linear bearing for press-fit installation
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

KH series compact drawn cup linear bearing sizes are model-dependent; standard sizes and custom options available upon request.

Key Advantages

- Ultra-compact drawn cup design for space-limited linear motion assemblies.
- Press-fit installation can simplify compact equipment layouts.
- Low-friction linear movement along compatible guide shafts.

Application Industries

- Compact automation fixtures
- 3D printers and desktop motion systems
- Small CNC guide systems
- Sliding tables and compact guide shafts
- Inspection equipment with short-stroke motion

Technical Notes / Selection Notes

- Shaft fit, housing bore, preload, and lubrication requirements must be confirmed before production use.
- Load and speed ratings are model-dependent and should be checked with DISLAB Precision.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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LINEAR MOTION BEARING

LM Series Linear Ball Bearing for Industrial Automation

<https://dislabprecision.com/precision-linear-ball-bearing-lm-series-for-industrial-automation/>

LM series linear ball bearings for CNC machines, 3D printers, automation equipment, packaging machinery and industrial linear motion systems.

Main Material	Heat-treated steel with synthetic resin retainer options
Bearing Type	Linear ball bearing / ball bushing
Structure	Recirculating ball linear bearing for cylindrical guide shafts
Exact Load Rating	Available upon request; model-dependent
Speed Rating	Application-dependent; please confirm before ordering
Tolerance Grade	Please confirm with drawing/model
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available

Available Series / Size Range

Standard, long, flanged, adjustable, and open styles may be available. Exact dimensions are model-dependent.

● Key Advantages

- Recirculating ball structure for smooth linear movement.
- Interchangeable standard, long, flanged, adjustable, and open style options may be available.
- Compatible with standard bearing grease or light machine oil where specified by the application.

● Application Industries

- CNC guide systems and linear slides
- Industrial automation fixtures
- 3D printers and gantry systems
- Packaging machinery and pick-and-place units
- Sliding tables and guide-shaft modules

Technical Notes / Selection Notes

- Exact model dimensions, load ratings, speed limits, and tolerance grades are model-dependent.
- Confirm shaft diameter, housing style, lubrication, and environment before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material, cage, seal/shield, housing, or structure requirement. Quantity, application environment, target service conditions, and destination country.

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FULL CERAMIC BEARING

Silicon Nitride Full Balls Ceramic Deep Groove Ball Bearing

<https://dislabprecision.com/silicon-nitride-full-balls-ceramic-deep-groove-ball-bearing/>

High-performance ceramic bearing for extreme environments — up to 1200°C, non-magnetic, self-lubricating. Full complement Si₃N₄ balls deliver higher radial load capacity than caged ceramic designs.

Main Material	Silicon nitride ceramic (Si ₃ N ₄)
Bearing Type	Full ceramic deep groove ball bearing, full complement
Temperature Range	-100°C to 1200°C (peak); long-term stable below 800°C
Key Properties	Self-lubricating, non-magnetic, electrically insulating
Load / Speed	↑30% radial load vs. caged ceramic; 1.3× speed limit of steel
Dimensions	Model-dependent; confirm ID, OD, width, and drawing if available
Sealing	Open standard; optional shields / seals upon request

● Key Advantages

- Full complement design maximizes rolling elements for higher radial load.
- Retainer-free structure eliminates cage failure and enables higher speeds.
- Ultra-low thermal expansion (22% of steel) ensures dimensional stability.
- Corrosion-resistant to acids, alkalis, and seawater; no rust or pitting.
- Runs dry or in water due to inherent self-lubrication.

● Application Industries

- High-temperature conveying rollers and smelting furnaces
- Baking ovens and food-processing conveyors
- Chemical reactor agitators, pipeline pumps, electroplating lines
- Surgical robots and diagnostic imaging devices
- Wafer handling, cleanroom robots, vacuum coaters

Technical Notes / Selection Notes

- Full ball bearings are ideal for low-speed, heavy-load positions; retainer type suits higher speeds.
- Long-term operation above 800°C may accelerate creep; contact engineering for extreme applications.
- Confirm model, dimensions, seal/shield, and application environment before ordering.

RFQ Checklist Bearing type or model; ID, OD, width, and drawing if available. Material confirmation, seal/shield requirement, quantity, application environment, target service conditions, and destination country.

[Check Online](#)

REQUEST FOR QUOTE

How to Request a Quote

To help DISLAB Precision evaluate the correct bearing solution, include as much practical application information as possible with your inquiry.

RFQ FIELD	BUYER INPUT
Bearing type / model	Required product series or model reference
ID / OD / width	Bearing dimensions or envelope requirements
Material requirement	ZrO ₂ , Si ₃ N ₄ , PEEK, PP, POM, steel, etc.
Seal / cage / structure	Open, shielded, cage material, housing style
Quantity	Sample quantity or annual volume
Working environment	Temperature / chemical / humidity exposure
Speed / load condition	Operating speed, radial/axial load, duty cycle
Drawing or sample available	Yes / No
Destination country / delivery requirement	Target market and required lead time

PRODUCT SELECTOR

Use the Product Selector Before Requesting a Quote

Customers can use the selector to confirm product type, material, application environment, size, quantity, drawing requirements, and other RFQ information before submitting an inquiry.

Open Product Selector

Tip for Faster Quotation

- The more complete your RFQ information, the faster we can recommend a suitable standard or custom bearing option.
- Drawings, samples, or photos help confirm dimensions and structural requirements.

GET IN TOUCH

Industrial Bearing Selection and RFQ Support

Send your bearing model, dimensions, application conditions, and quantity to DISLAB Precision for quotation, product selection support, and review of suitable standard or custom bearing options.



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CONTACT PAGE

<https://dislabprecision.com/contact-us/>

ONLINE PRODUCT SELECTOR

Find the Right Bearing Faster

Use our online product selection tool, then send your shortlisted model, material, size, environment, quantity, and drawing for RFQ review.

[Open Product Selector](#)