

# SFERAX

Delivering Swiss Excellence  
Where Quality Matters

*Company presentation*

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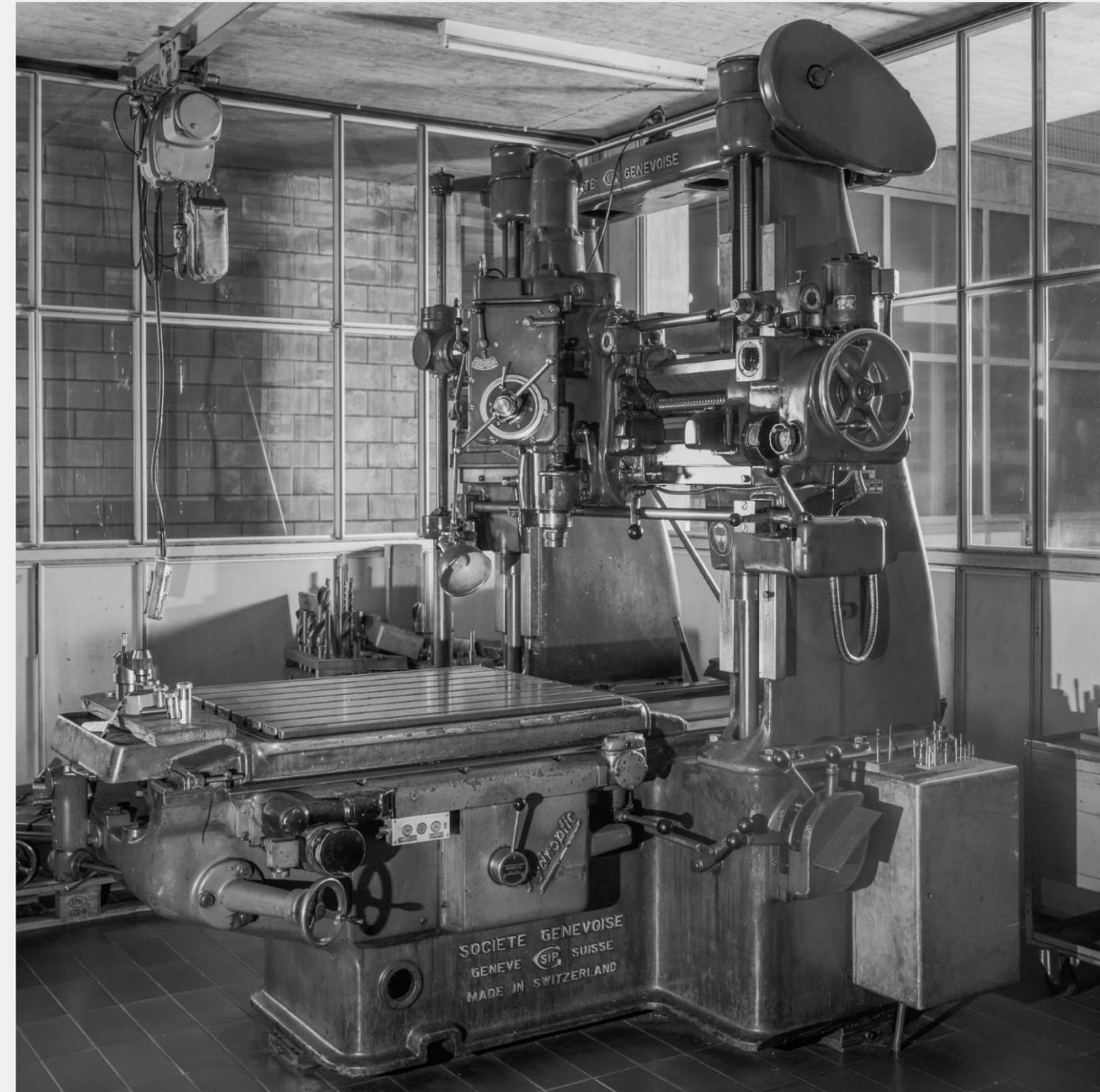


# Company History

Established **Since 1957**

Founded in 1957, SFERAX S.A. is a family business that has specialised in precision linear bearing solutions for three generations.

Based in Cortailod (Switzerland), SFERAX possesses complete feasibility studies to packaging, and including machining, assembly, tools, machinery and packaging: SFERAX has all of the internal products. Today the business is directed by Mr. Horia Grossu, the employees.



# Quality Commitment

Swiss Made

Since its creation, SFERAX has made manufacturing high quality products the heart of its work. Our linear bearings, shafts and supports have been fully manufactured in Cortaillod, in Switzerland, for more than 60 years. SFERAX is relentlessly committed to guarantee its clients irreproachable and long-lasting quality. This is why our collaborators perform ongoing quality controls on at least 8 essential control points. Each piece is visually and mechanically inspected at every step in the production chain and subjected to a final double inspection before leaving the factory.



## *Precision*

Capable of guaranteeing the dimensions of its pieces to the nearest micrometer



## *Reliability*

SFERAX produces linear bearings, shafts, guiding tables, and housing units that are reliable and have withstood the test of time



## *Materials*

All of the materials come from meticulously selected manufacturers



## *Working processes*

SFERAX is a business on a human scale. There is no assembly line in its factory.

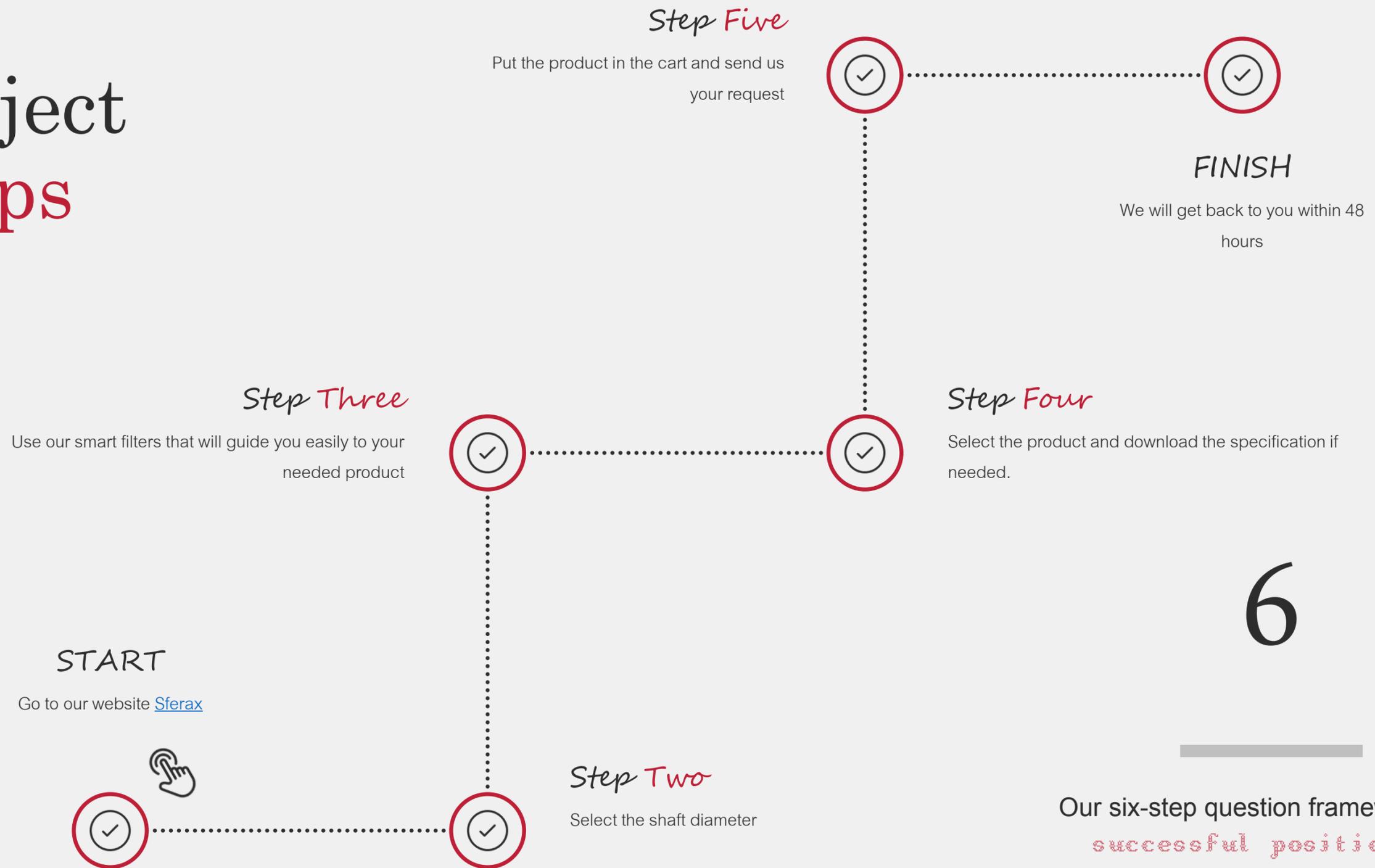
# Our Team

*Passionate and experienced professionals, listening to your needs*

Our team, backed up by our research and development departments, support your project from conception, the building of prototypes and through to production.



# Project Steps



6

Our six-step question framework for successful positioning

# Core Items

*Choose the product you need*



GBP & GBL

*Our standard bearings*



HT / Compact GBL

*Bearing for application with high temperatures and loads*



LR / LCR

*Bearings for linear & rotative motions*



SMX / SMXX

*Miniature linear bearings in Stainless Steel*



SL / SLX

*Our economic range, also available in Stainless Steel*



HL

*Linear bearings specially developed for vertical applications and high radial torques*

# Standard GBP

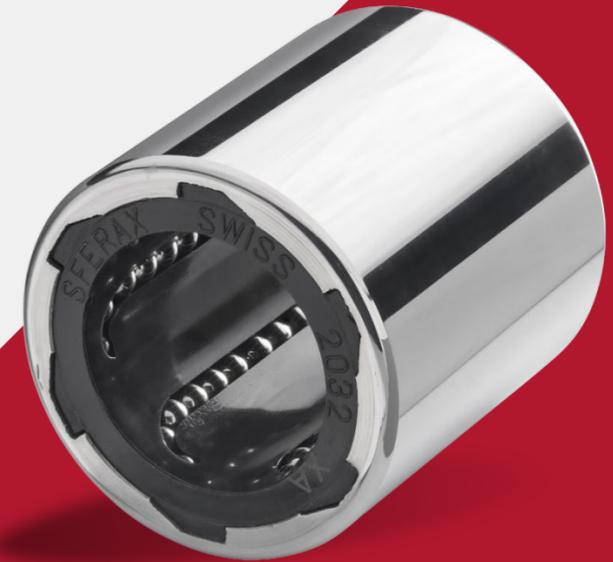
## *Application*

This ball bearing has high manufacturing standards, as well as all the fundamental qualities to ensure very high precision linear movements, without any stroke limitation, without play and practically free of friction and wear.

## *Advantages*

- Polyamide ball tray
- Smooth, jerk-free operation
- Noiseless

• *Link to our website*



# Standard GBL

## Application

This ball bearing has high manufacturing standards, as well as all the fundamental qualities to ensure very high precision linear movements, without any stroke limitation, without play and practically free of friction and wear.

## Advantages

- Brass precision-milled ball tray (GBL)
- Smooth, jerk-free operation
- Noiseless

• *Link to our website*



# HT

## Application

This ball bearing is probably the strongest bearing ever created by SFERAX. In addition to standard use, it is ideally suited for constructions requiring high loads, as well as for environments requiring high temperatures.

## Features

- Full Metal
- Ball tracks symmetrical to the load shaft, positioned for a maximal load

• *Link to our website*



# COMPACT GBL

## *Application*

This ball bearing is particularly suited for applications where space is limited, and high temperatures are used.

## *Features*

- Full Metal
- Solid brass precision-milled ball tray
- Asymmetrical Ball tracks for optimal positioning of the maximum load

- *Link to our website*



# LR

## Application

The ball bearing LR is an outstanding product of exceptional quality. It allows high precision rotating and linear movements, without stroke, limitation, without play and practically free of friction and wear.

## Features

- The ball tray rotates freely and is additionally guided by two rows of circular balls, which makes it run more smoothly.

- [Link to our website](#)



# LCR

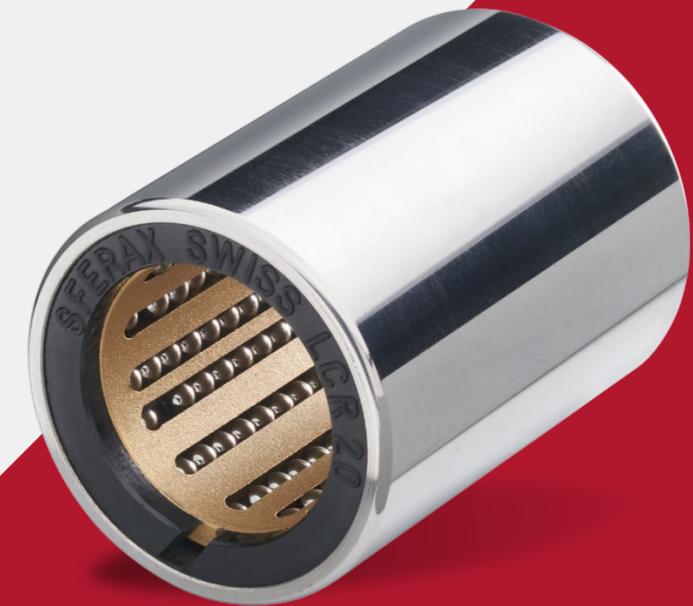
## Application

The linear ball bearing type LCR is designed for linear and rotary motions. The movements can be separate or simultaneous.

## Features

- Long working life
- Takes up little space.
- Axial stoppage rings in polyamid.

- [Link to our website](#)



# SMX/SMXX

## Application

Type SMX embodies everything that represents the "Swiss Made" label: quality, reliability, technological innovation and precision. It unites all the SFERAX know-how and offers a quality of construction that is incomparable on the market. It has unparalleled sturdiness, durability and reliability. This ball bearing is specially designed for miniature applications in industries such as:

Clock- and Watchmaking / Aeronautics / Food-processing / Medical or pharmaceutical technology, Vacuum and Nuclear applications etc...

## Features

- All-metal
- SMX (stainless steel housing 1.4112 / solid brass precision-milled ball tray)
- SMXX (all stainless steel 1.4112)
- Balls in stainless steel 1.4034

• *Link to our website*



# SL/SLX

## Application

The type SL is a SFERAX innovation and a unique product on the market. It was designed for rational and cost-efficient applications, for which the main requirements are:

reduced mounting space / high reliability / good precision / small weight in motion / low-cost, without any compromise on the SFERAX-

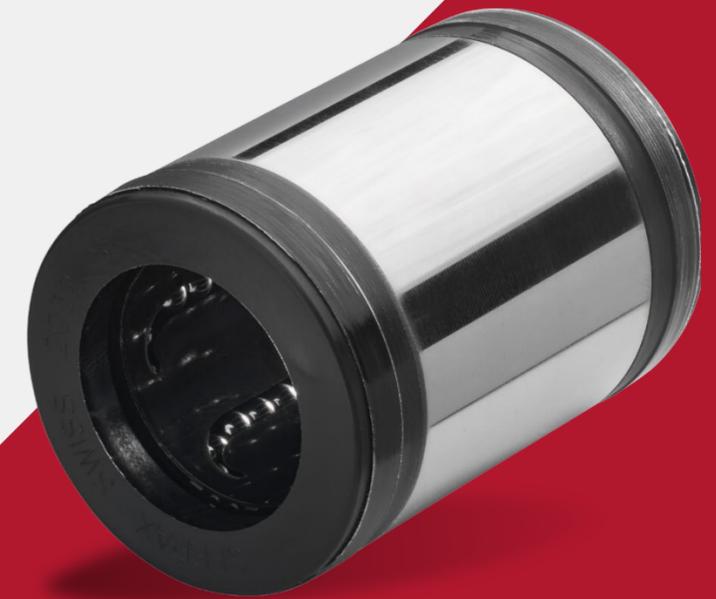
Quality / simplified mounting

(self-locking)

## Features

The SL Series is assembled by shrink-on technique (self-locking), simplifying the mounting, eliminates glue, axial circlips or any other type of axial restraint. Assembly costs are therefore reduced. Also available in SLX version (housing in stainless steel and balls in Stainless Steel 1.4034).

- *Link to our website*



# HL

## Application

The type HL has been developed to propose a linear bearing adapted to high loads and radial torques. This makes it very appropriate for vertical applications. The three (external) grooves make the mounting to be easy and the high permissible temperatures make it perfectly suitable for example for injection moulds. Scopes: Vertical presses, peripheral machine devices, moulds industry, assembly industry, etc...

- [Link to our website](#)

