

BOLEXP

guidance systems

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Evolution

Over the last few years, our guidance systems have undergone a constant process of evolution and improvement in order to respond to the continuous progression of the market and keep pace with the requirements of our customers.

Patented products



freeLUB Ital center

Other products



Benefits

- Elimination of friction losses
- Higher working speed
- No need a sliding space treatment
- No need a caplet
- No need a working station
- No need a maintenance
- Great saving of resources
- Elimination of environmental effects in production
- Check of friction and pressure and constant enlarging for lifetime of the components
- High working temperature (maximum 300°C)
- Great load capacity
- Available in standard sizes and with 30 mm



Guidance Technology

Bolexp Systems are made up of an outer, outer of guide for rolling movement and an inner, inner of guide for rolling movement. The outer is made up of a hard material, such as steel, and the inner is made up of a soft material, such as PTFE.



Roll reinforcing bushes

Roll reinforcing bushes are made up of an outer, outer of guide for rolling movement and an inner, inner of guide for rolling movement. The outer is made up of a hard material, such as steel, and the inner is made up of a soft material, such as PTFE.



The company

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Patented products



frooLUB Ball centerer

Other products



Benefits

- Elimination of friction noise
- Higher working efficiency
- No extra clamping space needed
- Zero maintenance
- Uniform working motion
- Low maintenance
- Drop of life of movement
- Reduction of vibration and stress in system
- Fast and easy to install and change
- High working temperature resistance (200°C)
- Durable and reliable
- Available in stainless steel and nickel alloy



Guidance Technology

Bolexp's technology is based on the use of a special material that allows the balls to move freely and without friction, providing a smooth and precise motion.



Ball recirculating bushes

Bolexp's ball recirculating bushes are designed to provide a smooth and precise motion, reducing friction and wear.



The company

Bolexp Normalizados, s.l.u. is a company specialized in the design and manufacture of guidance systems for industrial machinery.



The company

1968 - The Company started from a small mechanization workshop owned by Lafita family.

1970 - First steps into the die and mould industry.

1990 - Bolexp bush was developed.

1994 - Sales start in the international market.

1996 - Bolexp Company was born.

1997 - Export activity starts expanding.

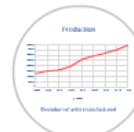
2000 - Entry into the German market.

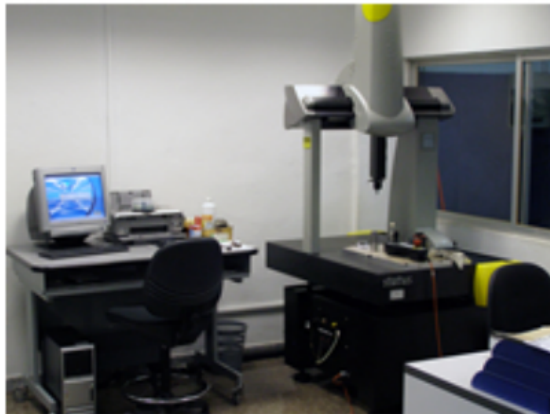
2005 - Bolexp start manufacturing for big companies.

2014 - *free***LUB** bush was developed.

2016 - The ball centerer was developed.

2017 - Bolexp Europe SARL was created.





- Staff: 25 people
- Factory: 3500 m2
- All products made in our Barcelona factory

CNC manufacturing machines:



LOKUMA

DMG MORI

STUDER
KÖRBER SOLUTIONS

FANUC

Matsuura

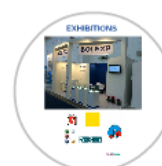
QUASER
we cut faster

HEXAGON
METROLOGY

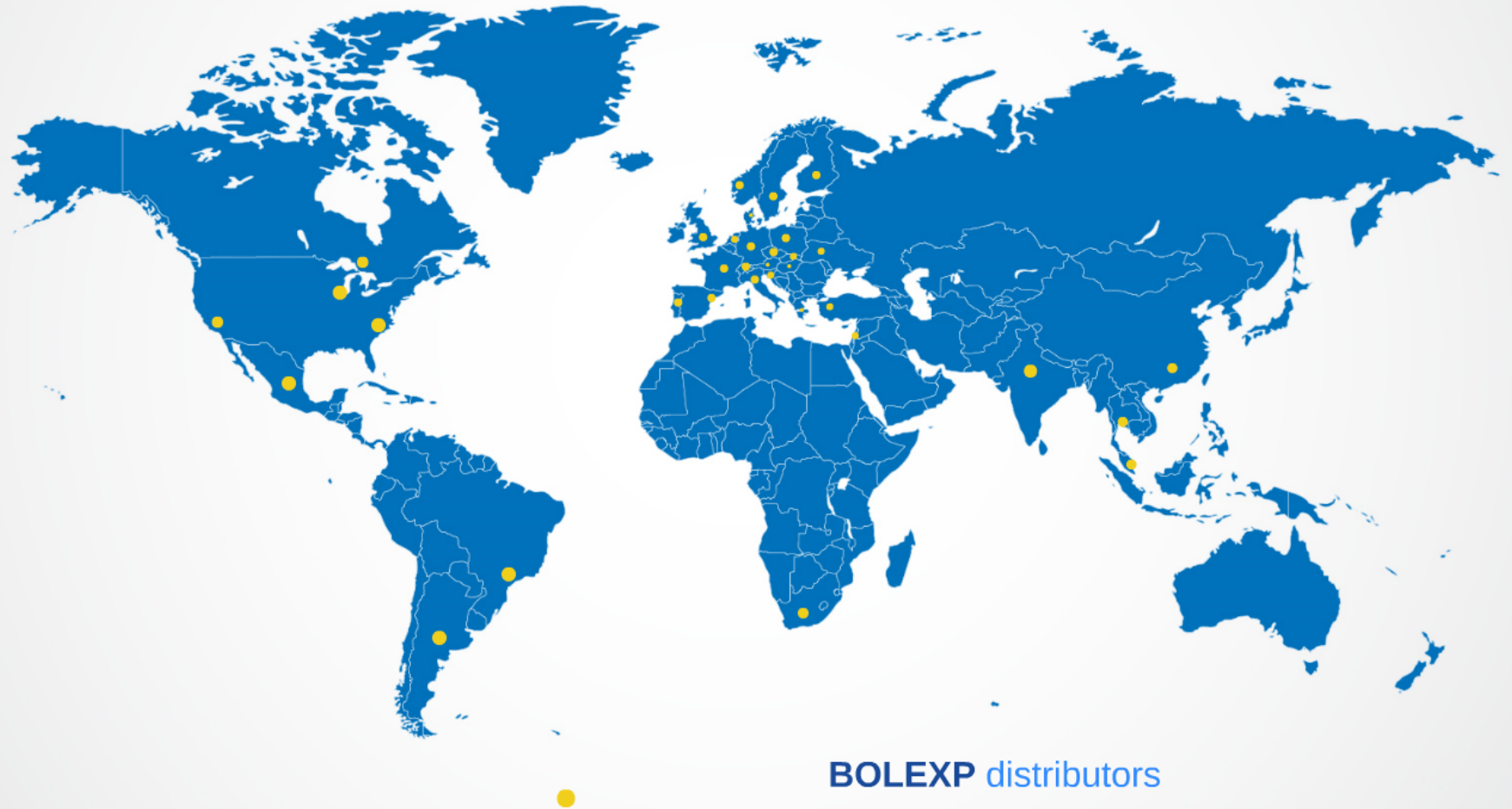
JONES & SHIPMAN
A KELLENBERGER COMPANY

DOOSAN

- With an exceptional location in the industrial area of Barcelona, just 15 kilometers away from the city, and next to the largest logistics center of Spain, our company can provide quick material delivery service both nationally and internationally.
- Store with big capacity to deliver 98% of the product immediately



International presence



The company has also developed the product for big companies:



EXHIBITIONS



formnext



EQUIPLAST
Salón Internacional del Plástico y Caucho



RosMould

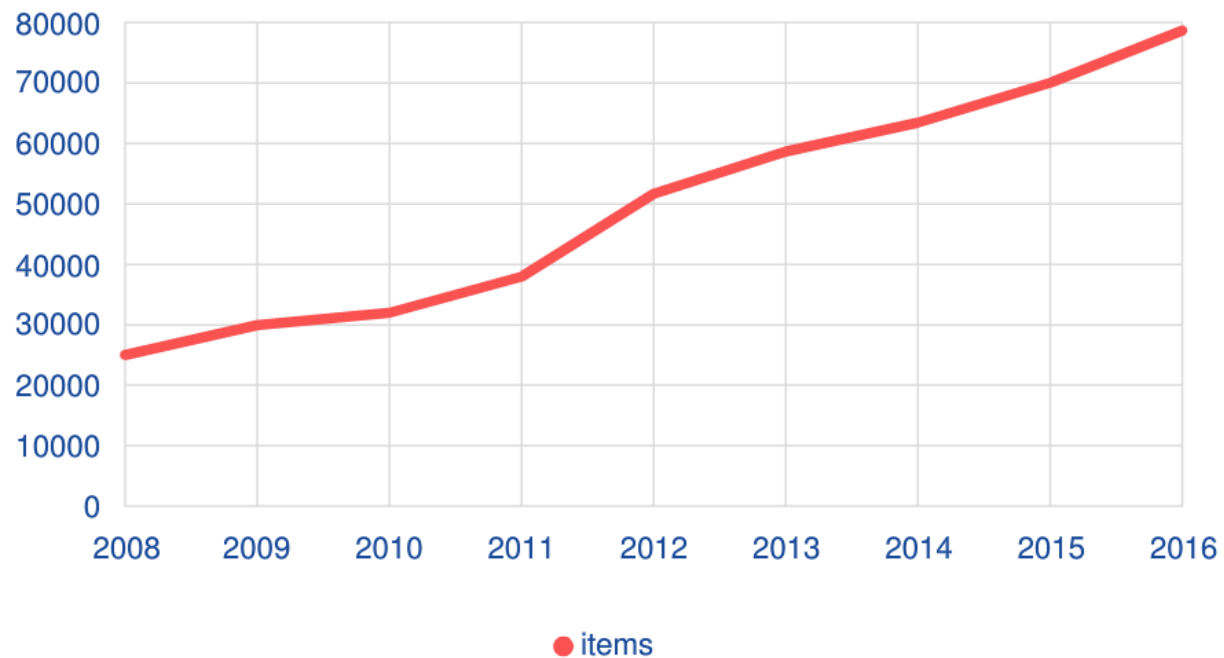
**MOULDING
EXPO**

plasti
2015



PLASTINDIA

Production



Evolution of units manufactured

Ball recirculating bushes



- Bushes with balls integrated in a compact block.
- Our philosophy: component integration, simple assembly and use.
- Diversity of formats:

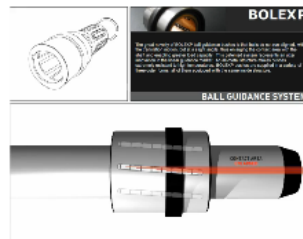


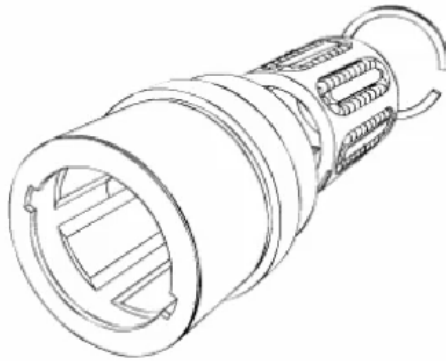
Guidance Technology

Bolexp Bushes are made up of an outer casing of steel for rolling, hardened and ground, which holds fixed inside a high-resistance bronze cage for guiding the balls running along the cage.

The translation system consists of several rows of high precision balls circulating endlessly.

Balls do not roll aligned, but at a slight angle, thus enlarging the contact area with the shaft and enabling greater load capacity.

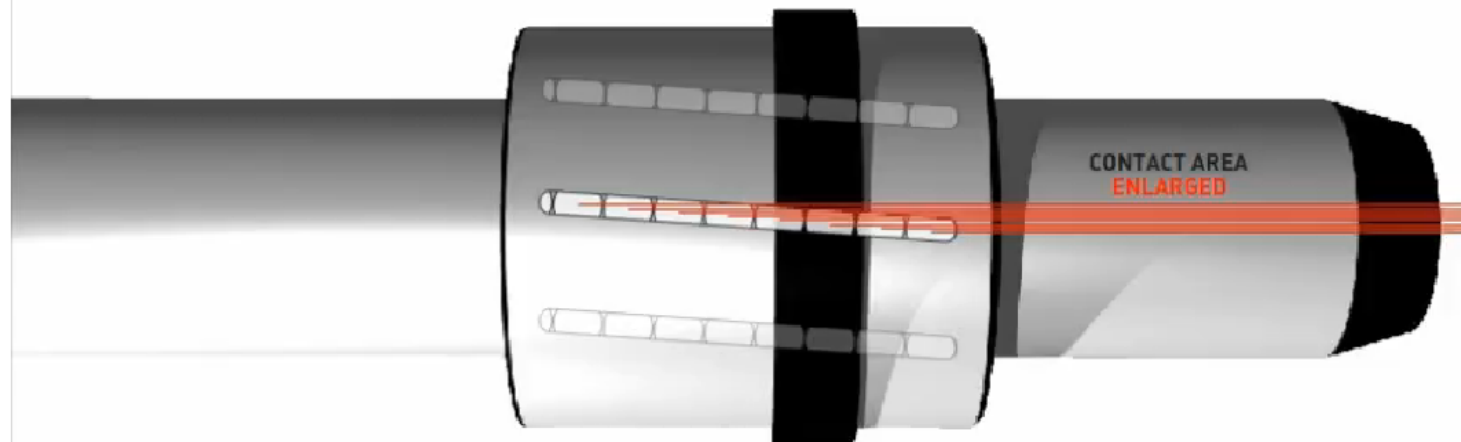




BOLEXP

The great novelty of BOLEXP ball guidance bushes is that balls do not run aligned, with the translation motion, but at a slight angle, thus enlarging the contact area with the shaft and enabling greater load capacity. This patented system represents an utter innovation in the linear guidance market. An all-metal structure makes bushes extremely resistant to high temperatures. BOLEXP bushes are supplied in a variety of three outer forms, all of them equipped with the same inside structure.

BALL GUIDANCE SYSTEM



Benefits

- Elimination of friction areas
- Tighter working tolerances
- No extra sliding space needed (from ball cage)
- Unlimited working motion
- Low maintenance
- Great agility of movement
- Abolition of unbalanced efforts in ejection.
- The lack of friction and precise adjustment enlarges the lifetime of the components
- High working temperature permitted (200°C)
- Great load capacity
- Available in stainless steel and inch sizes



Other products



7° - 10° - 12° - 15° - 18° - 20° - 22°

- The **tilted assembly** allows to make the allocations of tilted columns with great agility.
- The fact of fixing it through the front side of the plate allows for an agile capacity of exchange.
- 140 models are available in stock, with 7 different degrees and 5 column diameters (**Ø12 - Ø30**)



The Bolexp Self-lubricated Guidance is a travel system which adds-in solid lubricant for its operating, needing little maintenance and exhibiting high resistance in elevated-temperature operating conditions and drastic seizing reduction. all products made in **Cu Al10Fe5Ni5C**



- The **centerer** for moulds guarantees the appropriate alignment for the main plates in the mould.
- The system of fixing to plate allows to apply machinery to plates in only one operation.
- Includes **graphite** components for self-lubricating pieces and a **TiN** treatment for reducing seizing.



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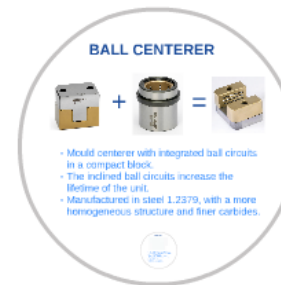
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Patented products



free**LUB**



Ball centerer

B737 *free* LUB



free LUB

INNER RECIRCULATION WITH SOLID LUBRICANTS

- Emergency lubricant
- Manufactures for use with solid lubricants

Graphite • Molybdenum disulfide



Without maintenance
Continuously greasing balls

free LUB

DOUBLE CONTACT CHANNELS

A new distribution for a bigger load work
Up to +25% of load allowed



free LUB

GREASE RETAINERS

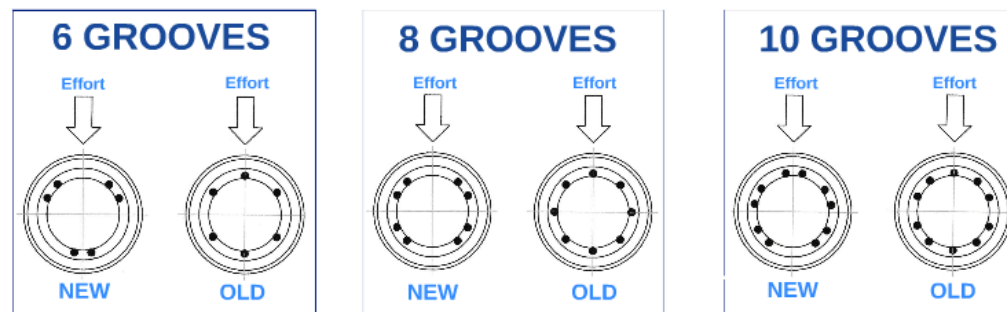
- Made of 190°C resistant material
- Two grease retainers included in the ends
- Prevents inner lubricant from being lost
- Prevents outer particles from getting inside



DOUBLE CONTACT CHANNELS

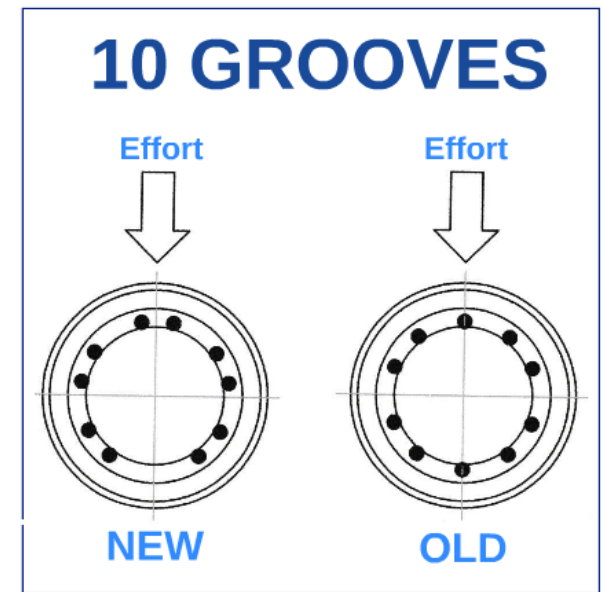
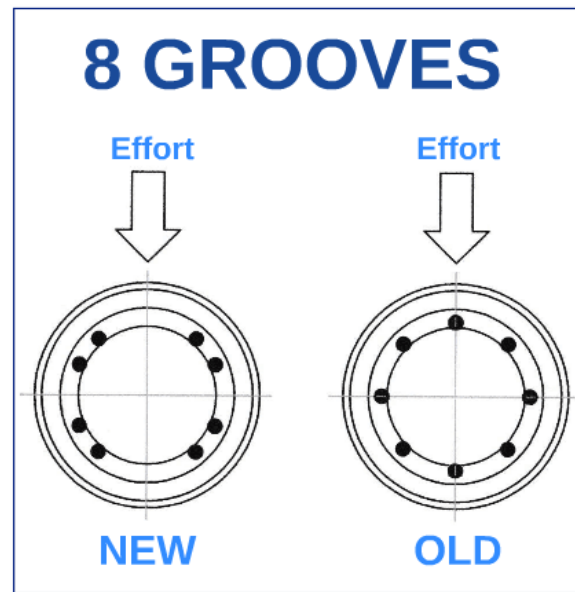
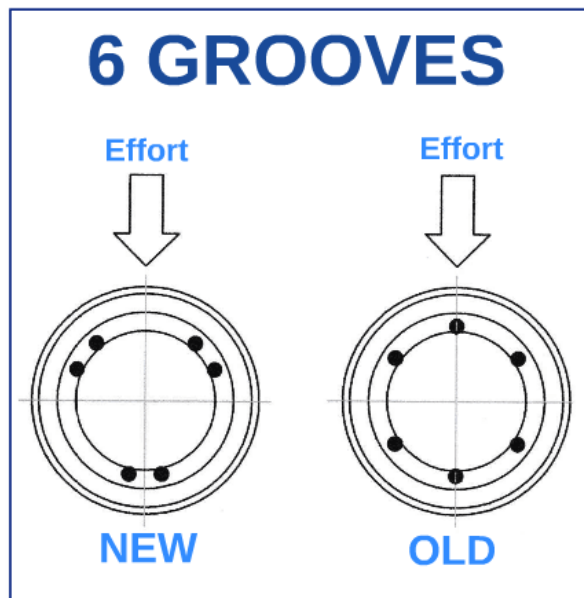
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A new distribution for a bigger load work

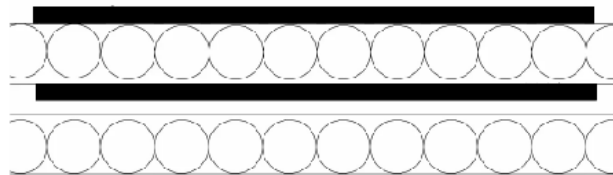
Up to +25% of load allowed



INNER RECIRCULATION WITH SOLID LUBRICANTS

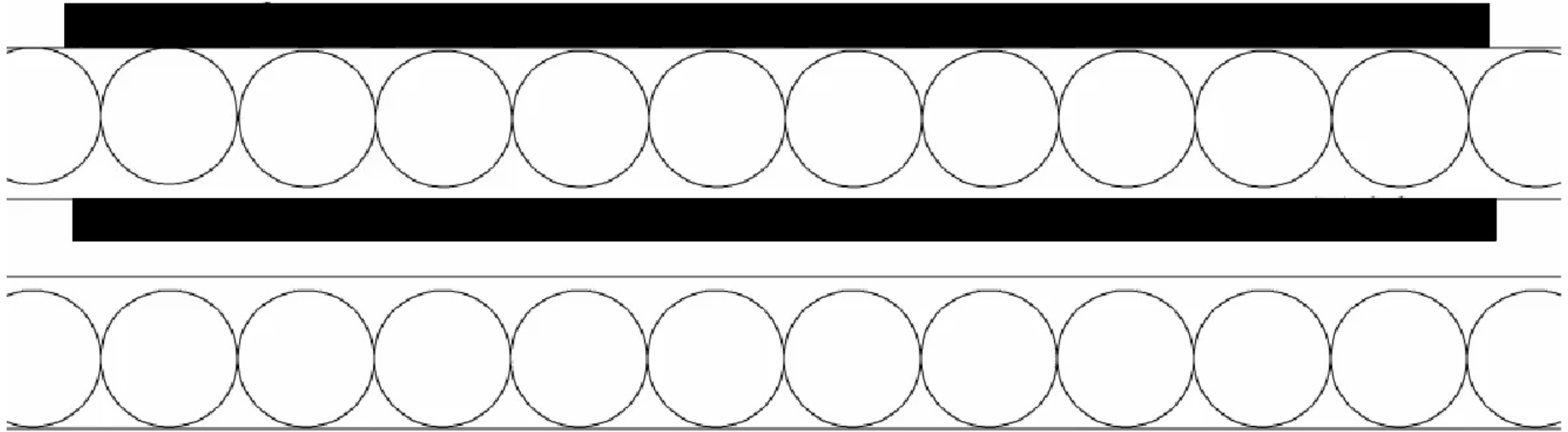
- Emergency lubricant
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Graphite + Molybdenum disulfide



Without maintenance
Continuously greasing balls

Graphite + Molybdenum disulfide



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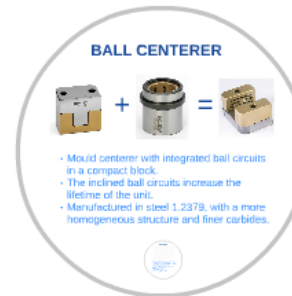
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Patented products



free**LUB**



Ball centerer

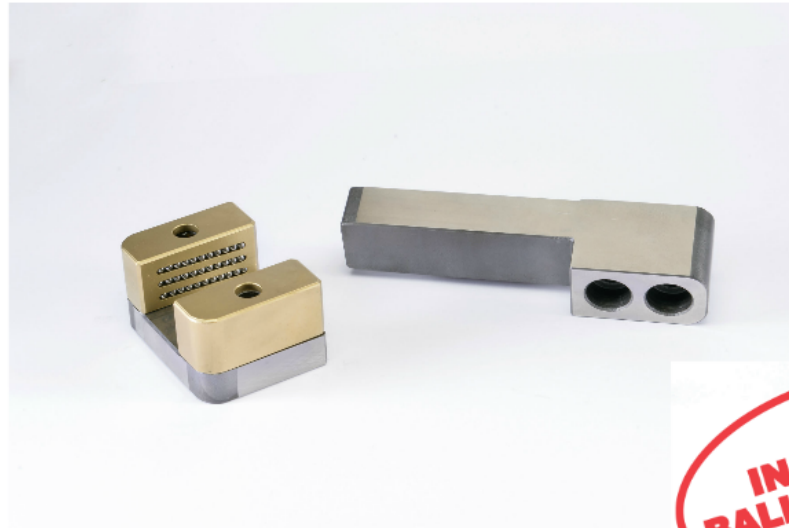
BALL CENTERER



- Mould centerer with integrated ball circuits in a compact block.
- The inclined ball circuits increase the lifetime of the unit.
- Manufactured in steel 1.2379, with a more homogeneous structure and finer carbides.



BENEFITS



**INCLINED
BALL CIRCUITS**

- Minimal friction with better adjustment, increasing the quality of injected product
- Great agility of motion
- Endless travel with balls re-circulating
- Tighter working tolerances
- Low maintenance
- High working temperature

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