



Ecological and economical, we are a meeting point of knowledge, intellect, ideas, effort and exchange

INNOVATION

- Constant Quest for new surprising materials for current and new applications
- A game of challenges and efforts

ADDED VALUE

Educating and assisting, after care, return packaging, coöperation with innovation centres and students, education

RESPECT AND RESPONSIBILITY

The philosophy, mission, products, people: All Bases of the PM-Group can be summarized in 2 close connected words with different meaning: Respect and Responsibility

RESPECT

- Wishes and Needs of Customers
- The people and their natural environment
- All employees who forms the company

RESPONSIBILITY

- Solutions which join customer needs
- Welfare of human being and it's environment
- Operation of employees.



CUSTOMER SUPPORT IN SUSTAINABLE, PROFITABLE PRODUCTS TO REACH OPTIMAL RESULTS



COÖPERATION, HONEST BUSINESS RELATION AND QUALITY



HIGH QUALITY ACCORDING TO EUROPEAN STANDARDS



Clear Ecological Philosophy

LET US MEET YOUR CHALLENGE



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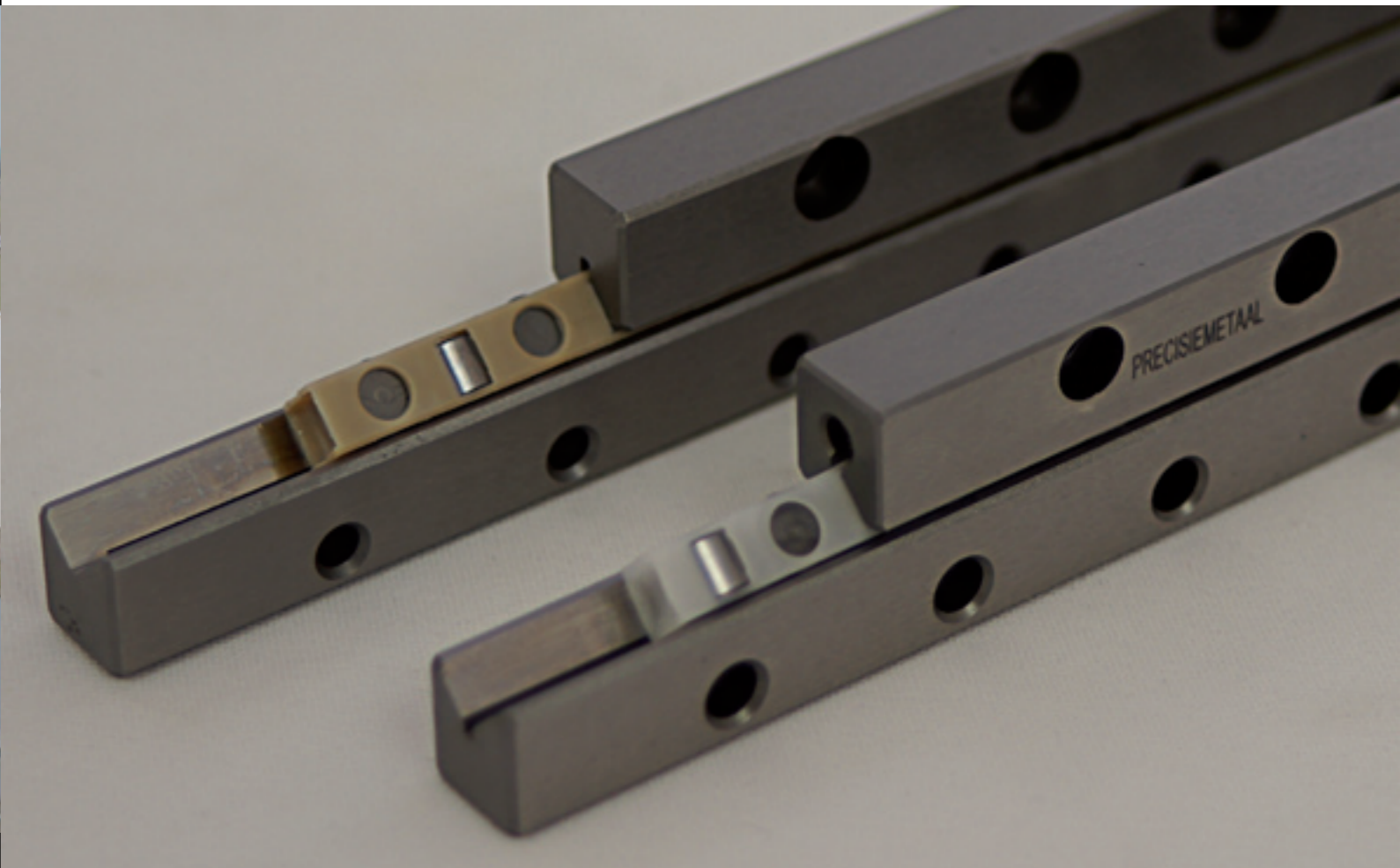
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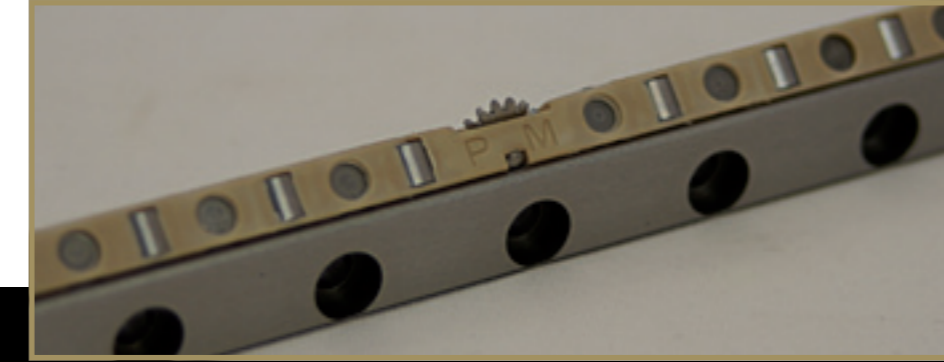
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DISCOVER ULTRA OPTIMIZED BEARINGS



PM-BEARINGS
DISCOVER PRECISION

PM Ultra optimized bearings The Best You can get!!!



PM High Performance Guides

For decades PM is innovating in linear technology and to meet today's most diverse customer requirements, PM introduces, beside the regular system, a optimized revolutionary anti cage creep solution for the next generation

machines. The basics of the design, the pin and rack, is simple, most effective and well known the concept has proven it self in thousands of applications for many years.

ROLLERCAGE KRE + KRE-ACC										
Size 3 - 6 mm Rollers retained for horizontal and vertical installation material POM										
CAGE TYPE			DIMENSIONS				GUIDEWAY TYPE		ENDSTOP TYPE	
Standard	Corrosion Resistant	With Anti Cage Creep	D	t	w	t1	Standard	High Performance	Standard	High Performance
R3 x KRE	R3 x KRE-SS	R3 x KRE-ACC(-SS)	3	3,3	2,2	10,9	RSDE-3		GB-3(-SS)	
R4 x KRE	R4 x KRE-SS	R4 x KRE-ACC(-SS)	4	4,4	2,8	13,2	RSDE-4	RSDE-3/4	GB-4(-SS)	GB-3/4(-SS)
R6 x KRE	R6 x KRE-SS	R6 x KRE-ACC(-SS)	6	6,6	4,3	19,8	RSDE-6	RSDE-4/6	GB-6(-SS)	GB-4/6(-SS)

ROLLERCAGE KREV + KREV-ACC										
Size 3 - 6 mm Rollers retained for horizontal and vertical installation material PEEK										
CAGE TYPE			DIMENSIONS				GUIDEWAY TYPE		ENDSTOP TYPE	
Standard	Corrosion Resistant	With Anti Cage Creep	D	t	w	t1	Standard	High Performance	Standard	High Performance
R3 x KREV	R3 x KREV-SS	R3 x KREV-ACC(-SS)	3	3,3	2,2	10,9	RSDE-3		GB-3(-SS)	
R4 x KREV	R4 x KREV-SS	R4 x KREV-ACC(-SS)	4	4,4	2,8	13,2	RSDE-4	RSDE-3/4	GB-4(-SS)	GB-3/4(-SS)
R6 x KREV	R6 x KREV-SS	R6 x KREV-ACC(-SS)	6	6,7	4,3	19,8	RSDE-6	RSDE-4/6	GB-6(-SS)	GB-4/6(-SS)

KRE Cage design

- Newest technology boost life and performance

The KRE roller cage is designed with engineered plastics and new molding technologies offering a high density roller cage with reduced friction resistance and extreme low noise level. In the center of the KRE cage with anti-cage creep (ACC), a stainless steel pinion with a stainless steel cog is assembled which is perfectly matched to the rack inside the V-Groove of the rail without affecting the running performance of the linear guide system.

- Load capacity +50% Rigidity +100%

By closer tolerances and new molding technologies, the distance between the rollers is reduced to an absolute minimum. A maximum of rollers is fit into the cage which increase load capacity by 50% and rigidity by 100%

- Acceleration 30G++

KRE roller cages are the first industry standard cages which can handle accelerations to 30G and even more.

- Ultra High Vacuum(UHV) Compatible

By using special plastic material PEEK and cage design, the KREV type roller cage is also suited for applications which operates in (Ultra) High Vacuum.

- Mounting directions

KRE roller cages are suited for installation in all mounting directions without failing

- Flexible design

The design allows that the cage can be cut according to the requested length and connected for longer lengths with and without ACC



NEW Linear Guide Anti Cage Creep Design

- ECM technology for integrated rack

The rack in the V-Groove of the guide is done by Precise Electro Chemical Machining (ECM). Precise Electro Chemical Machining is a relatively new technology and is based on electrolysis. By sending electrical pulses through the cathode (vibrating electrode), conducted by the electrolyte, the material will be dissolved until the product has obtained the right dimensions. Advantages of this process is that it is a cold process, so there is no influence by heat and no extra tensions are added to the material.

- Best geometry

Using state-of-the-art manufacturing technologies optimizes the geometry of the guide. The rack is machined direct into the V-groove offering a rigid and strong design with savings of additional machining cost and without affecting the running performance.

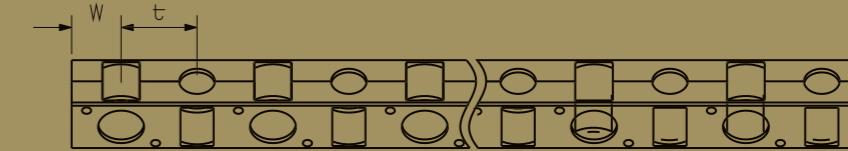
- Flexible applications

This technology allows us to fit the rack directly into the guide and can be suited for all kind of applications where only special materials are allowed. Ultra High Vacuum- and Anti Magnetic Systems are one of the most common applications where we use this technology.

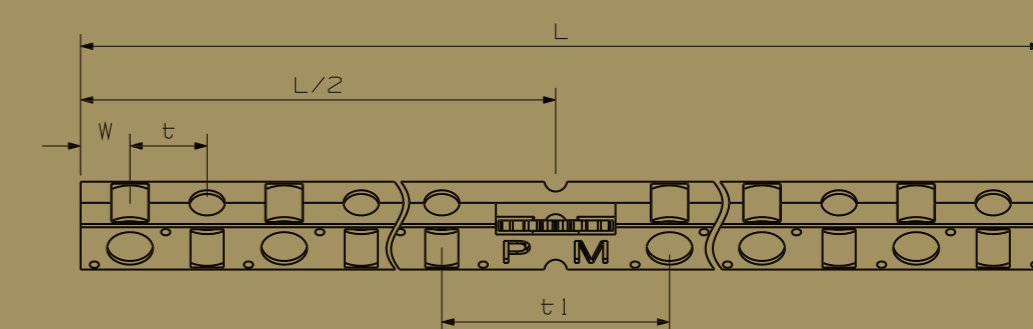
- No increase of friction
- No reduction of accuracy
- No influence of lubrication
- Increase operational life to its limits
- Zero cage creeping
- For all mounting orientations
- Easy to assemble
- Increase of load capacity and rigidity
- Accelerations up to 30G++
- Suited for all type of environments

Sizes 3, 4 and 6mm rollers with standard guides- and high performance guides

KRE + KREV



KRE-ACC + KREV-ACC



PM-BEARINGS
DISCOVER PRECISION

For customized options please contact our sales office

