

LINEAR TECHNOLOGY

OVERVIEW

QUALITY AND RELIABILITY

More than 20 years of development and market experience have yielded more than 4,000 products. Zimmer Group offers the most comprehensive and innovative portfolio of products and services reflecting the highest possible quality and reliability. Clamping and braking elements routinely perform critical positioning, holding and braking tasks. They ensure precision during machining processes, boost efficiency with short cycle times and their secure hold maximizes safety.

DKPS1000 SERIES

OUR EXPERTISE – YOUR ADVANTAGES

High holding force without additional air

Enhanced safety due to securing the rotation axes.

Simple status sensing

Efficient and fast process flow.

Cycle counts that outperform everything else on the market

Leak-free thanks to a proven piston seal.

ZIMMER GROUP – THE KNOW-HOW FACTORY

OUR KNOW-HOW FACTORY WORKS WITH ALL INDUSTRIES AND DELIVERS EVERYTHING FROM A SINGLE SOURCE. OUR PRODUCT RANGE IS FAR REACHING, BOTH IN ITS DEPTH AND ITS BREADTH.

DO YOU HAVE A DEVELOPMENT PROBLEM? WE’LL SOLVE IT! SET US A CHALLENGE IN RESEARCH AND DEVELOPMENT. COUNTLESS INNOVATIONS ORIGINATE FROM OUR COMPANY. WE ARE ENTHUSIASTIC ABOUT NEW PRODUCTS AND PRIDE OURSELVES ON OUR CORPORATE PIONEERING SPIRIT.

CONTACT – WORLDWIDE

With our current 13 global subsidiaries and partners in over 125 countries, we offer the excellent service of a technology leader. We look forward to hearing from you!

www.zimmer-group.com/en-us/contact



HERE FOR YOU 24/7/365 – OUR VIRTUAL TRADE SHOW BOOTH

With impressive features such as an animated camera flight, clickable information hotspots and 3D models that can be rotated, we guarantee that you will be thrilled—virtually.

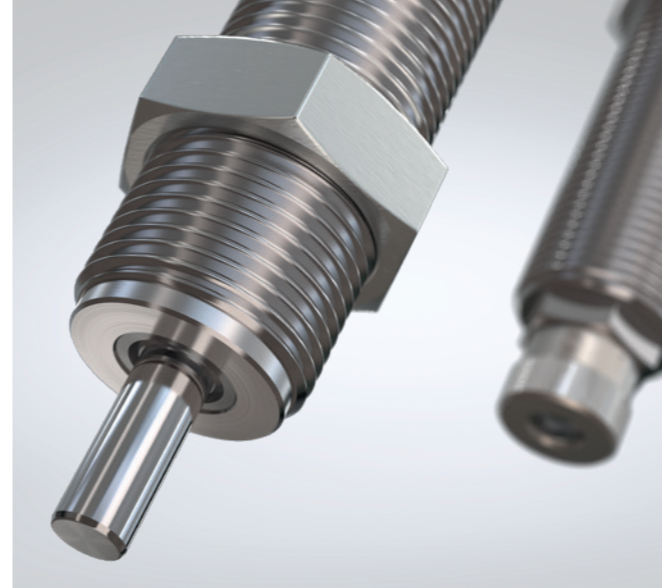
www.zimmer-group.com/en-us/expo



HEADQUARTER:

ZIMMER GROUP

Am Glockenloch 2
DE 77866 Rheinau
T +49 7844 9139-0
F +49 7844 9139-1199
info.de@zimmer-group.com
www.zimmer-group.com



Linear technology,
Damping technology

Overview

THE KNOW-HOW FACTORY

www.zimmer-group.com



DAMPING TECHNOLOGY

OVERVIEW

FROM 100 TO 0 WITH A DAMPER

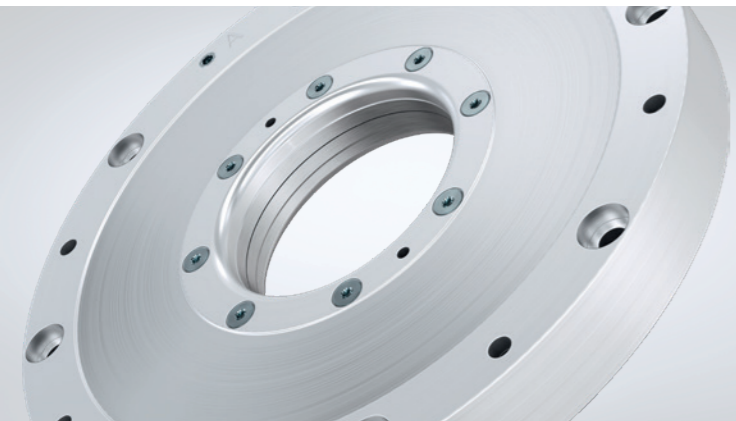
State-of-the-art damper technology: PowerStop is the hydraulic industrial shock absorber created by the Zimmer Group that slows down the kinetic energy to zero. Due to its optimal capacity, PowerStop achieves maximum energy absorption in the smallest installation spaces: with unique spiral groove technology – low-vibration and without sacrificing its precision. The new modular construction set available at www.zimmer-group.com makes it possible to combine highly versatile application-specific variants from four series, each with a stroke variant, speed range, protection and head. Everything comes from standard elements, delivering the shortest time to availability and ideal pricing.

THE EFFICIENT ENERGY CONSUMER

The BasicStop profile damper comes into play when pin-point accuracy is not required for braking. Because of its specially developed profile and high-performance TPC plastic, BasicStop can also brake masses under extreme conditions, achieving a high damping percentage at the same time. It can also be used at any speed and recycled 100% thanks to its thermoplastic properties.














Scan here to go to our Product finder for shock absorbers

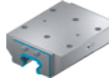
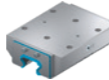






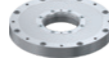



LINEAR TECHNOLOGY

CLAMPING AND BRAKING ELEMENTS

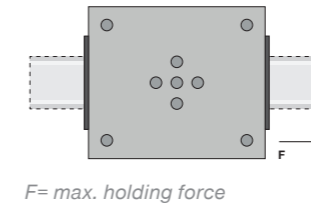
FOR PROFILED RAILS		
MANUAL		
	MINIHK Function: Status: Max. holding force: Design:	Clamping N 300N Miniature
	HK Function: Status: Max. holding force: Design:	Clamping N 2000 N Standard
PNEUMATIC		
	MK Function: Status: Max. holding force: Design:	Clamping NO 2,250 N Standard
	MKS Function: Status: Max. holding force: Design:	Clamping NC 3,300 N Standard
	MBPS Function: Status: Max. holding force: Design:	Clamping, braking NC 4,700 N Standard
	UBPS Function: Status: Max. holding force: Design:	Clamping, braking NC 7,700 N (9,200 N) Standard
	LKP Function: Status: Max. holding force: Design:	Clamping NO 4,500 N Narrow
	LKPS Function: Status: Max. holding force: Design:	Clamping NC 750 N Narrow
	MCP Function: Status: Max. holding force: Design:	Clamping NO 550 N Miniature
	MCPS Function: Status: Max. holding force: Design:	Clamping NC 700 N Miniature
	LBPS Function: Status: Max. holding force: Design:	Clamping, braking NC 4,500 N Narrow

6 = Certified for clean room class ISO 6.

HYDRAULIC		
	KWH Function: Status: Max. holding force: Design:	Clamping NO 46,000 N Standard
	KBH Function: Status: Max. holding force: Design:	Clamping, braking NO 46,000 N Standard
	LBHS Function: Status: Max. holding force: Design:	Clamping, braking NC 15,000 N Standard
ELECTRIC		
	LKE Function: Status: Max. holding force: Design:	Clamping N 1,800 N Standard
FOR ROUND SHAFTS		
MANUAL		
	HKR Function: Status: Max. holding force: Design:	Clamping N 2,000 N Standard
PNEUMATIC		
	MKR Function: Status: Max. holding force: Design:	Clamping NO 1,850 N Standard
	MKRS Function: Status: Max. holding force: Design:	Clamping NC 1,650 N Standard
	RBPS Function: Status: Max. holding force: Design:	Clamping, braking NC 52,000 N Standard
FOR ROTATION AXES		
PNEUMATIC		
	DKPS1000 Function: Status: Max. static holding torque: Design:	Clamping NC 1,150 Nm Rotary
HYDRAULIC		
	DKHS1000 Function: Status: Max. static holding torque: Design:	Clamping NC 8,000 Nm Rotary

HOLDING FORCE

The holding force is the maximum force that can be generated in the axial direction. The specified holding forces are tested on every clamping and braking unit before delivery using a slightly lubricated rail (ISO VG 68). Using other oil or lubricating substances can influence the coefficient of friction, which can cause a loss of holding force in individual cases.



OVER 20,000 COMBINATIONS

You can use our online Product Finder to easily find the right product for your application. It helps you easily search through over 4,000 clamping and braking elements.



DAMPING TECHNOLOGY

THE SERIES AT A GLANCE

INDUSTRIAL SHOCK ABSORBER		
POWERSTOP		
	MINI ENERGY Size: Max. energy absorption: Min. impact velocity: Max. impact velocity: Max. stroke:	M4 - M6 0.8 J - 1.8 J 0.1 m/s - 1.8 m/s 2 m/s 4 mm - 5 mm
	STANDARD ENERGY Size: Max. energy absorption: Min. impact velocity: Max. impact velocity: Max. stroke:	M8 - M36 1.5 J - 185 J 0.1 m/s - 3 m/s 1.2 m/s - 5 m/s 6 mm - 30 mm
	HIGH ENERGY Size: Max. energy absorption: Min. impact velocity: Max. impact velocity: Max. stroke:	M8 - M36 4 J - 280 J 0.1 m/s - 3 m/s 1.2 m/s - 5 m/s 6 mm - 50 mm
	ADJUSTABLE ENERGY Size: Max. energy absorption: Min. impact velocity: Max. impact velocity: Max. stroke:	M8 - M36 4 J - 400 J 0.1 m/s 5 m/s 6 mm - 50 mm
PROFILE DAMPER		
BASICSTOP		
	AXIAL STANDARD Height: Max. stroke: Max. energy absorption: Max. damping percentage: Design:	7 mm - 109 mm 3 mm - 56 mm 0.3 J - 2,014 J 75% Axial
	AXIAL ADVANCED Height: Max. stroke: Max. energy absorption: Max. damping percentage: Design:	53 mm - 252 mm 40 mm - 198 mm 450 J - 12,725 J 65% Axial
	RADIAL STANDARD Height: Max. stroke: Max. energy absorption: Max. damping percentage: Design:	23 mm - 88 mm 15 mm - 60 mm 36 J - 8,700 J 60% Radial