



Industrial Shock Absorber



Wire Rope Isolator



Rotary CAM Indexer



Manual / Power Clamp

deceler  vibrotek
selling solutions ...



Safety Light Curtains / Scanners



Pneumatic Cylinders



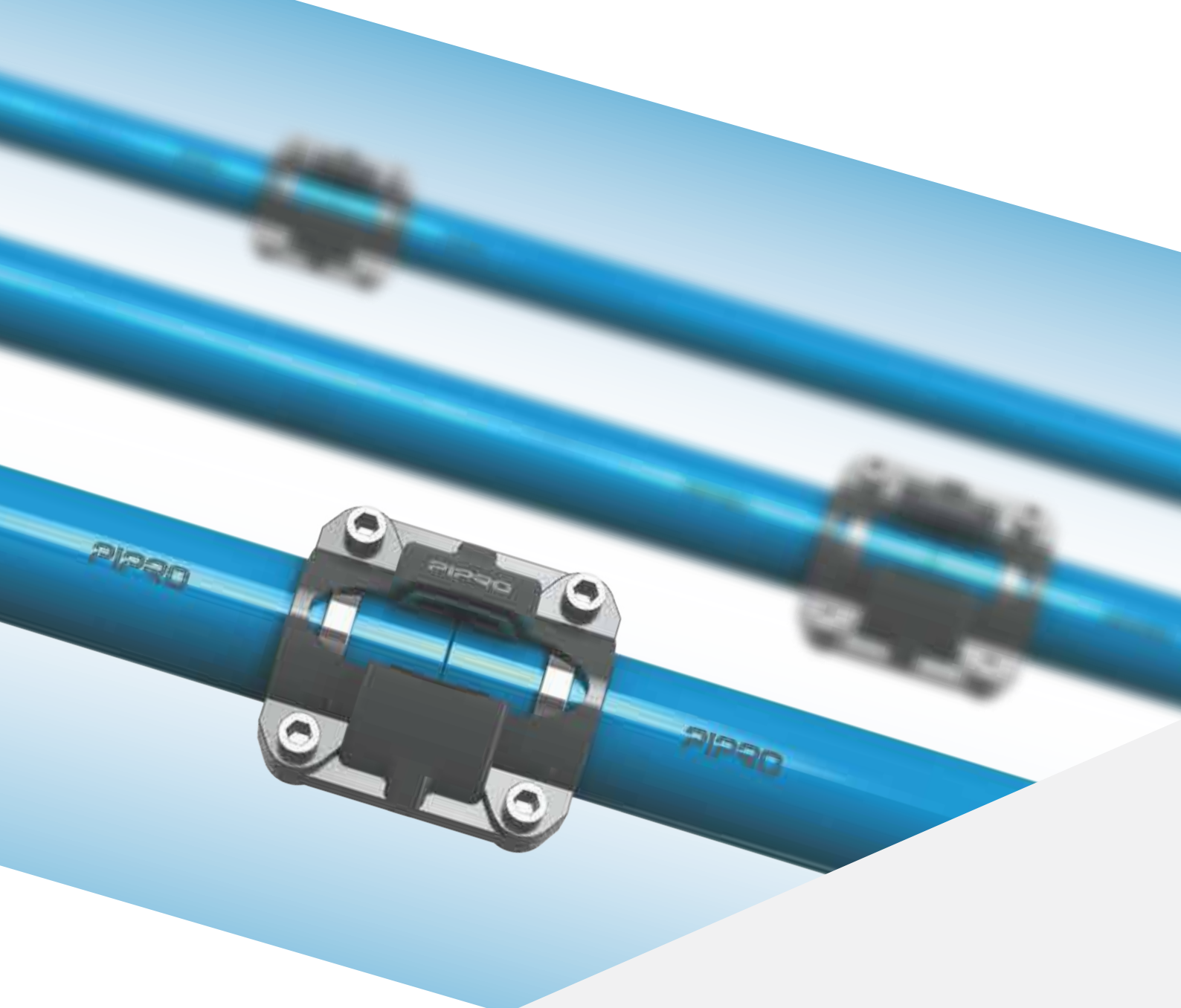
Speed / Feed Controls



Rotary Union & Joints

We are not just selling products, we are
"SELLING SOLUTIONS"





PIPRO

ALUMINIUM AIR PIPING SYSTEM

EASY | FAST | RELIABLE | COST-SAVING

ABOUT US

DECELER VIBROTEK CONTROLS PVT LTD is a leading provider of world-class industrial products, technologically advanced engineering equipment & customised solutions and responsible for the sales, distribution and technical support in Indian Market. As a technical trading company we caters Automation, Tyre, Automotive, Steel, Medical, Defence, Electronics, FMCG, Process industries etc.,



We are happy to proclaim “Deceler Vibrotek” a strong & reliable of business associates for manufacturers covering wide range of engineering product types. We are the emerging professionally managed organization who promotes and providing engineering support for different industrial products to Clients in India on sales & technical aspects. “deceler techniks” was started on April 2013, our unique proposition has been successfully tested out and we are now looking to scale-up.

“Deceler” makes technology an asset for your business. We won’t bring you down in the middle of the day because it is “a better time for us”. We work around your business. As your technology partner, when your business grows ours will grow with you, therefore, we will work hand in hand with you to support your growth. We will continually communicate with customers, and learn from our Customers, in order to improve our products and services.

Deceler Vibrotek Controls Infrastructure



DECELER
VIBROTEK CONTROLS PVT LTD

DECELER VIBROTEK CONTROLS PVT LTD is a leading provider of world-class industrial products, technologically advanced engineering equipment & customised solutions and responsible for the sales, distribution and technical support in Indian Market. As a technical trading company we caters Automation, Tyre, Automotive, Steel, Medical, Defence, Electronics, FMCG, Process industries etc.,



Our Brands

REER *Your future's safe!*



DESTACO
a beam company



ITT | ENIDINE



E·MC®



KINECHEKS®



Fluid Seal Company



super
GAS SPRINGS



BESTEC



STEKL



DECELER VIBROTEK BRANDS & PRODUCT RANGES



⌵ Safety Light Curtains

⌵ Watertight Safety Light Curtains

⌵ Atex Light Curtains

⌵ Safety Controllers

⌵ Safety Interfaces

⌵ Safety Scanners

⌵ Measurement & Automation Sensors

⌵ Contactless Safety Sensors

⌵ Safety Encoders / Relay

⌵ Safety Interlock

Reer Safety are the biggest manufacturer of safety sensors in Italy, and one of the major players in the world. Reer present in the whole industrialized world with an effective and qualified sales networks Reer have a long history in the field of safety and automation with a wide, complete range of safety light curtains, safety photocells, safety laser scanners, safety interfaces and measurement light curtains.



⌵ Rotary CAMIndexer

⌵ Robo Automatic Tool Changer

⌵ End Effector

⌵ Link Conveyors

⌵ Toggle Clamps

⌵ Power Clamps

⌵ Grippers

⌵ Vacuum Cups

DESTACO , a Dover Company located in USA, was founded in 1915. In 1936, the company designed and manufactured the first manual toggle clamp. Innovations, quality and acquisitions have made DESTACO the worldwide leader in the design, manufacture and support of flexible automation needs.



⌵ Industrial Shock Absorber

⌵ Hydraulic Buffer

⌵ Jarret Buffer

⌵ Wire Rope Isolator

⌵ Compact Wire rope isolator

⌵ Air Bellows

ITT Enidine Inc. is your trusted source for diversified products for global industrial and aerospace end markets for over 50 years. ITT Enidine Inc., headquartered in Orchard Park, NY, USA is a premier supplier of engineered Mechanical Shock Absorbers, Vibration Isolation Products, Noise Attenuation Products as well as Deceleration Devices



⌵ Pneumatic cylinder

⌵ Solenoid Valves

⌵ Directional Control Valves

⌵ Manifolds

⌵ FRL

⌵ Tubes

⌵ Fittings

⌵ Pressure Control Valves

EMC, China founded in 1986, E.MC experienced over 30 years continuous innovation, exceeding and self-breakthrough, and becomes to be a national new high-tech enterprise with R&D, manufacturing, and brand operation E.MC set up China national class pneumatics and industrial automation R&D center, which gives an innovation, process reengineering, system application and complete automation solution.

DECELER VIBROTEK BRANDS & PRODUCT RANGES



➤ Slimline

➤ Mini K

➤ Cushion-Start·Slow Return

➤ Peckcheks

➤ Super K

➤ Skipchek

Kinechek USA, an Deschner Corporation is a leading manufacturer of Speed Controls delivering high precise Speed controls covering industrial needs in Drilling, tapping & many constant feed applications



➤ Rotary Union & Joints

➤ Industrial Core Chucks

➤ Swivel Joints

Fluid seal company - China, is your trusted source for rotary joints, core chuck for global markets covering the industry of Machine tools, Special purpose machines, Paper, Steel, material handling etc



➤ Industrial Gas Spring

➤ Push / Pull type Gas Spring

➤ Lockable Gas Spring

➤ Medical Actuators

➤ Furniture Gas Spring

Super Systems, India is a leading manufacturer and supplier with a 22 years history of delivering high quality gas springs and accessories to various industries. The company is one of the largest manufacturers in India for gas springs and is focused on 100% satisfaction of its customers by providing them with quality products



➤ Tool Die Nitrogen Gas Spring

➤ Mould Parts

Bestec, South Korea is a leading manufacturer and supplier with a 22 years history of delivering high quality tool die nitrogen gas spring and standard mould parts for pressing, mould industry



➤ Air Disc Brakes

➤ Air Clutches

➤ Air Hydraulic Brakes

➤ Power Clutches

➤ Electromagnetic Clutches

➤ Safety Chucks

Taiwan TANGYING Co., Ltd. is Taiwan's first contact with mechanical clutches, brakes companies. After more than thirty years development and experience, it has become Taiwan's leading industrial clutch, brake manufacturer ; We provide high-quality product portfolio: Air Clutch, Air Brake (air compressor clutch, air brakes), air hydraulic disc brakes, electromagnetic clutches, electromagnetic brakes, magnetic clutches, magnetic brakes, tension control systems, ultra-durable safety clip head.

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REER

Your future's safe!

Safety. Detection. Control

Your technological partner since 1959





EOS4

safety light curtains and grids



Watch the video!

IP65 and IP67
Compact size
Only 30 x 28 mm

Status indicating display
Including alignment aid

Hardware configuration
No programming necessary
Easy to install and replace

M12 connectors
Cables easy to source and install
No shielded cables needed

Aluminum casing
Powder-coated

-30 to +55° C
Operating temperature
Ideal also in cold storage facilities

Protected height
up to 2,2 metres

Caps
Glass reinforced
polypropylene

Zero-Dead-Zone
On one side of the curtain

Finger, Hand and Body detection
and Multibeam for access control
The most comprehensive range
in today's market

Also available as	
SAFETY LEVEL	SAFETY LEVEL
TYPE 4 SIL 3 - SIL C3 PL C - Cat. 4	TYPE 2 SIL 1 - SIL C1 PL C - Cat. 2

CE **RoHS Compliant** **TÜV** **UL LISTED** **CS**

EOS4

safety light curtains and grids

one simple product range to cover
most of today's industrial applications

TYPICAL APPLICATIONS

EOS4 is the ideal choice for many industrial applications, including:

Food & beverage, packaging, pharmaceuticals, printing, paper, logistics, metalworking, woodworking, chemicals, injection moulding and many more ...



SAFETY LIGHT CURTAINS

Finger, Hand and Body detection

EOS4 (Type 4)	Other available versions
EOS4 A and EOS4 X Resolution: 14, 30, 40, 50, 90 mm Protected height: 160 ... 2260 mm Range: 6 to 12 m	EOS2 (Type 2) Available as Type 2, SIL 1, SILCL 1, PL c, Cat. 2
EOS4 AH and EOS4 XH Resolution: 20, 30, 40, 50, 90 mm Protected height: 160 ... 2260 mm Range: 20 m	WTF and WTHF Watertight models IP69K certified, Ecolab food-graded
	ATEX (EOS4 only) Explosion-proof Type 4 models (Zone 2, 22)

Available accessories

- Connecting cables
- Special mounting brackets
- Floor mounting columns
- Heavy-duty protection screens
- Laser alignment aid

STANDARD MODELS

EOS4 A

Type 4 Safety Light Grids with Automatic Restart.

EOS4 AH

Type 4 Safety Light Grids with Automatic Restart (Longer Range)

INTEGRATED FUNCTIONS MODELS

EOS4 X

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM

EOS4 XH

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM (Longer Range)

CASCADING MODELS

EOS4 XM

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM (To be used as Master in Cascade configurations)

EOS4 XS / XS2

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM (To be used as Primary (XS) or Secondary (XS2) Slave in Cascade configurations)

SAFETY LIGHT GRIDS

Multibeam grids for access control

EOS4 (Type 4)	Other available versions
EOS4 2B, 3B, 4B A and X Resolution: 14, 30, 40, 50, 90 mm Protected height: 160 ... 2260 mm Range: 6 to 12 m EOS4 2B, 3B, 4B AH and XH Number of beams: 2, 3, 4 beams Protected height: 510 ... 910 mm Range: 20 m	EOS2 (Type 2) Available as Type 2, SIL 1, SILCL 1, PL c, Cat. 2 WTF and WTHF Watertight models IP69K certified, Ecolab food-graded ATEX (EOS4 only) Explosion-proof Type 4 models (Zone 2, 22)

Available accessories

- Connecting cables
- Special mounting brackets
- Floor mounting columns
- Heavy-duty protection screens
- Laser alignment aid

STANDARD MODELS

EOS4 A

Available as Type 2, SIL 1, SILCL 1, PL c, Cat. 2

EOS4 AH

Type 4 Safety Light Grids with Automatic Restart (Longer Range)

ATEX (EOS4 only)

Explosion-proof Type 4 models (Zone 2, 22)

INTEGRATED FUNCTIONS MODELS

EOS4 X

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM

EOS4 XH

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM (Longer Range)

CASCADING MODELS

EOS4 XM

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM (To be used as Master in Cascade configurations)

EOS4 XS / XS2

Type 4 Safety Light Grids with selectable Automatic / Manual Restart and EDM (To be used as Primary (XS) or Secondary (XS2) Slave in Cascade configurations)

MAIN FEATURES

Finger, Hand and Body detection

- ⌚ Minimal cross section: 28 x 30 mm
- ⌚ No blind area on one side
- ⌚ Operating temperature range: -30 ... 55 °C
- ⌚ Protection grade: IP65 and IP67
- ⌚ Start-up time: < 2 sec
- ⌚ Master/Slave models for cascade connection of 2 or 3 curtains



 **REER**
Your future's safe!



HOKUYO

UAM-05LP-T301/C

Small, light ...

Protection over a wide range

Master-slave
function

Dual protection
mode

Encoder Input

Cable or
connector wiring

LED display

Data output
via ethernet

SD card for
configuration

Compact design: 95 x 80 x 80 mm, 0,8 Kg



SAFETY LEVEL

TYPE 3

SIL 2
PL d - Cat. 3

Expands the range of safety applications

Collision prevention



32 safety area patterns to accommodate the AGV travel path for collision prevention

Presence detection



Detects humans or objects entering the hazardous area

Intrusion detection



Detects access into critical zone

... and user-friendly!

Protection over a wide range

Up to 5 meters of protection zone and 20 meters of warning zone configuration to suit various application requirement.

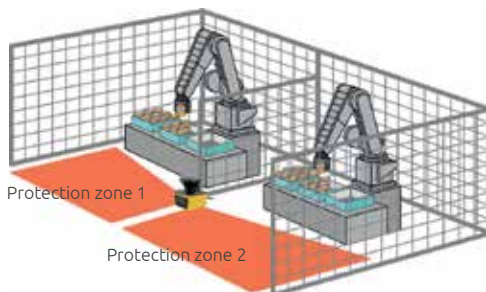


2 operating modes

- 2 warning zones + 1 protection zone
- 2 simultaneous protection zones

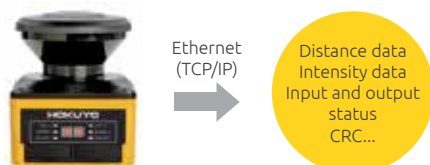
Dual protection mode

UAM can simultaneously protect two hazardous areas. Separate OSSD signals are triggered for the respective protection zones making it possible to guard two machines with a single UAM.



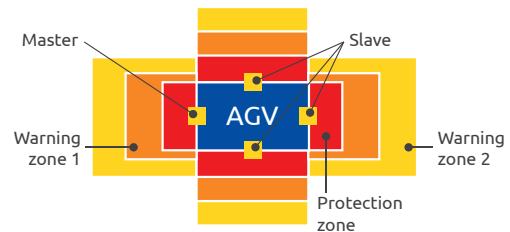
Data output via ethernet

Measurement data can be acquired via Ethernet with status of input/output signals and cyclic redundancy check code. Also supports command in SCIP2.0 protocol.



Master-slave function

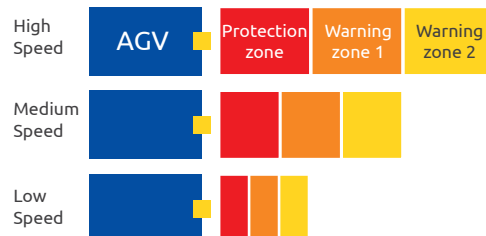
Maximum 4 units of UAM can be interconnected for Master-Slave operation when multiple units are required to guard the hazardous area. The system can be controlled by connecting the input and output signals to Master unit only¹.



¹ It is not possible to control the actuators via master-slave bus communication

Encoder input

In AGV applications, area is switched depending on the vehicle's speed. Speed and direction of travel provided via encoders are constantly monitored to switch the area and stop the AGV during abnormal travel.



SD card for configuration

Configuration data can be saved in a SD card which in turn can be used for configuring the UAM without connecting it to a PC. The feature is useful while replacing the UAM or configuring multiple units with the same settings.



 **REER**
Your future's safe!



Magnus RFID

RFID safety switches

Magnus RFID: next generation sensors for machine safety

The best in cost-effectiveness

Wear-free technology allows for longer product life time.

Status LED and diagnostic output.

Smallest design of RFID safety sensors.

Full mechanical compatibility with Magnus MG S and MG B.

Can be used as stand-alone.

The best in safety

Tampering protection in accordance with DIN EN 14119, the highest in its class.

Screw covers prevent easy removal.

Series connection up to PL e/SIL 3.

IP67 and IP6K9K protection grade for use in harsh environments.

Complies with the strict hygiene and cleaning requirements of the food and packaging industry.

The best in versatility

Dual mounting options.

M12 connector or cable.

3 different coding levels.

Extension cables for series connection.



Magnus RFID – next generation

The application of Magnus RFID sensors can be extremely wide thanks to the compact and versatile design.

The different design and technology options as well as the complete mechanical compatibility with the Magnus MG magnetic sensors series, make this product extremely valuable for users.

The RFID technology enables Magnus RFID sensors to be individually coded in three different ways to allow the appropriate tampering protection in all applications. The highest configurations allow each sensor to be paired with one only assigned actuator.

The RFID technology used allows to reach safety levels up to PL e/SIL 3 also when connecting the sensors in series.

As a result, Magnus RFID sensors can be simply integrated in existing safety scenarios, offering a cost-effective solution for modifying and upgrading machines.

Magnus RFID is the ideal choice for many industrial applications, including ...

... food & beverage, packaging, pharmaceuticals, printing, paper, logistics, renewable energies, chemicals, injection moulding and many more ...





MOSAIC

modular safety integrated controller

short form

Master Units



MCM



MOSAIC CONFIGURATION MEMORY

Removable memory card. Ideal for saving Mosaic configuration data for subsequent transfer to a new device (without connecting to a PC) or for backup

MSC



MOSAIC SAFETY COMMUNICATION

Allows communication between the various units through a proprietary high-speed safety bus

MCM

MOSAIC SAFETY DESIGNER

Easy-to-use designer software included with M1 and M1S Master Units. Drag & Drop functionality allows to easily create all logic scenarios in a machine directive compliant environment.

Built-in Monitor



Built-in Simulator



- Drag & Drop
- User-friendly
- Real-time monitor
- Design validation
- Simulation
- Security password
- Reports and log files
- Project information

MTB



SCREW TERMINAL BLOCKS

Removable terminal blocks with screw contacts

MCT



REMOTE INTERFACE UNITS

Interface module allowing the connection of remote expansion units via the MSC safety bus

MTBC



CLAMP TERMINAL BLOCKS

Removable terminal blocks with clamp contacts



SAFEGATE

access control safety light curtains





SAFEGATE

Flexible configuration

Hardware or Software configuration to cover all Muting applications

Pre-configured Muting logics

Exit-only (parallel/crossed), Entry-Exit (parallel), Entry-Exit (crossed)

Integrated Status and Muting lamp

Fully scalable
Change configuration at any time

Pre-configured and pre-wired Muting arms and Muting brackets

Fully scalable
New **M5** multi-beam Muting photocell

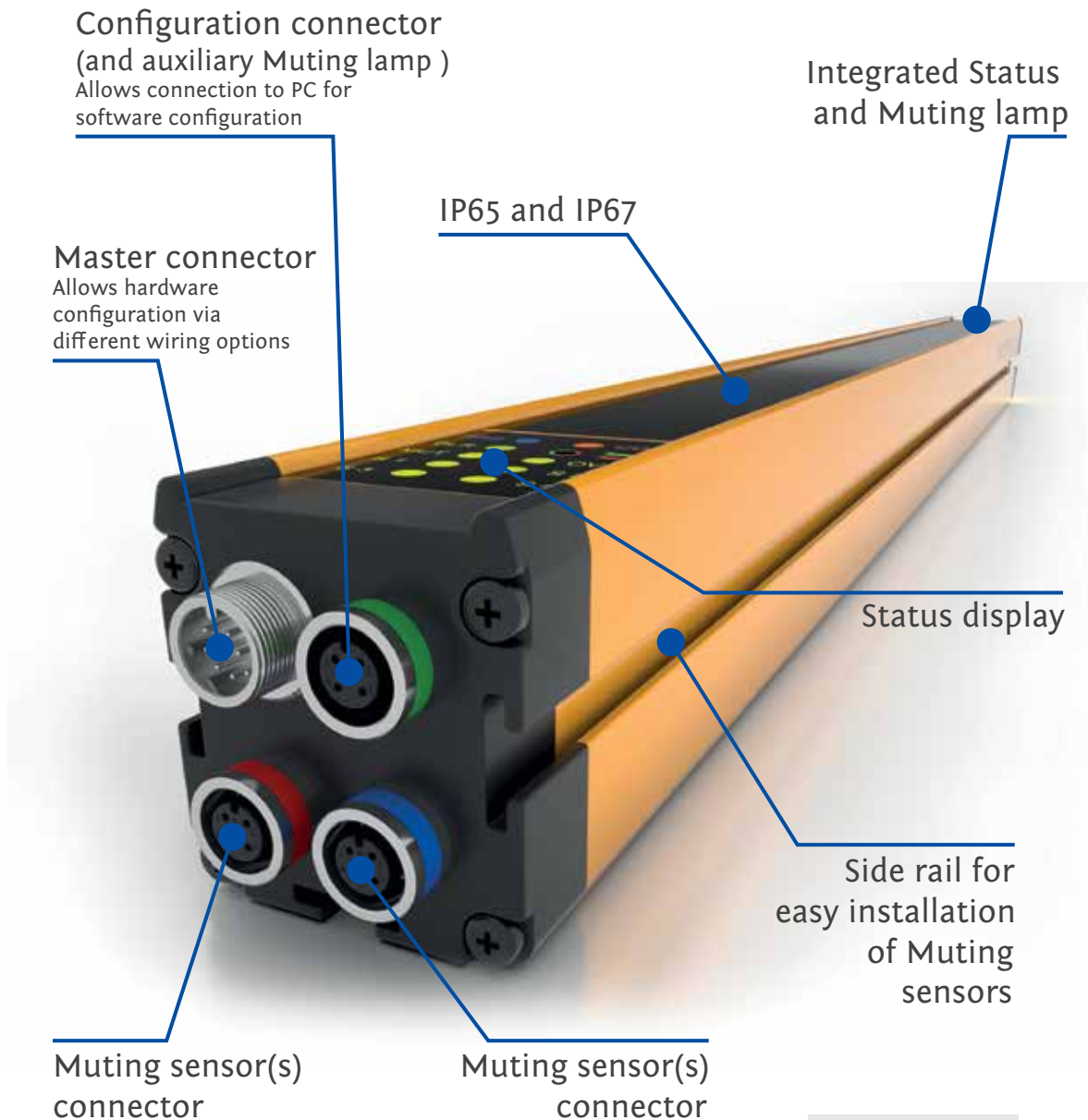
Transceiver versions available

Fully scalable
With passive retro-reflective elements

VAST RANGE OF ACCESSORIES

Including special mounting brackets, floor mounting columns and connection boxes

ACCESS CONTROL BARRIERS WITH INTEGRATED MUTING FUNCTIONS



SAFETY LEVEL

TYPE 4

SIL 3 – SILCL 3
PL e – Cat. 4



A UNIQUE RANGE

Covering all Muting applications

1 Choose the barrier model



SM

Hardware configuration



SMO

Hardware configuration
With integrated Status & Muting lamp



SMPO

Hardware configuration
With integrated Status & Muting lamp

Also available as  with passive retro-reflective elements

2 Configure the Muting logic

Hardware configuration
via Master connector wiring

L2XP configurations

"Exit-only"
2 crossed or
parallel beams

T2X configurations

"Entry-Exit"
2 crossed beams

T4P configurations

"Entry-Exit"
4 parallel beams



Software configuration
via Safegate Configurator Software



L2X L2P

T2X T4P

configurations

SCS

● ● SM, SMO and SMPO models

● SMPO models

3 Choose the Muting sensors

One-way / Exit-only

Two-way / Entry-Exit

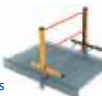
MA Muting arms with integrated sensors



Crossed beams
One-way
Exit-only
MA L2X
2 integrated sensors
(Emitter-Receiver)



Parallel beams
One-way
Exit-only
MA L2P TRX
2 integrated sensors
(Transceiver)



Crossed beams
Two-way
Entry-Exit
MA T2X
2 integrated sensors
(Emitter-Receiver)



Parallel beams
Two-way
Entry-Exit
MA T4P TRX
4 integrated sensors
(Transceiver)



MZ Muting brackets with M⁵ or M^{TRX} sensors



Crossed or Parallel beams
One-way
Exit-only
MZ L2XP / TRX
2 M⁵ multi-beam sensors
(or 2 M^{TRX} for TRX versions)



Crossed beams
Two-way
Entry-Exit
MZ T2X / TRX
2 M⁵ multi-beam sensors
(or 2 M^{TRX} for TRX versions)



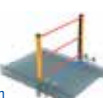
Parallel beams
Two-way
Entry-Exit
MZ T4P / TRX
4 M⁵ multi-beam sensors
(or 4 M^{TRX} for TRX versions)



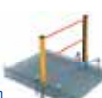
External M⁵ or M^{TRX} sensors (or photocells)



Crossed beams
One-way
Exit-only
2 sensors
(i.e. M⁵ multi-beam
sensors or M^{TRX} photocells)



Parallel beams
One-way
Exit-only
2 sensors
(i.e. M⁵ multi-beam
sensors or M^{TRX} photocells)



Crossed beams
Two-way
Entry-Exit
2 sensors
(i.e. M⁵ multi-beam
sensors or M^{TRX} photocells)



Parallel beams
Two-way
Entry-Exit
4 sensors
(i.e. M⁵ multi-beam
sensors or M^{TRX} photocells)



ACCESS CONTROL BARRIERS WITH INTEGRATED SOLUTION



Michon

measurement and automation light curtains

short form



Micron

measurement and
automation light curtains...

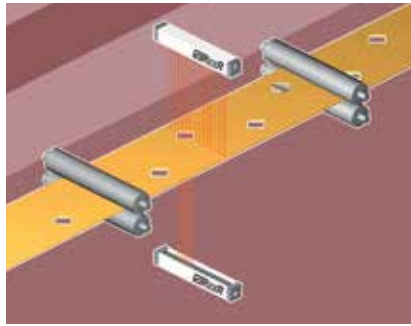
...for industrial and civil applications



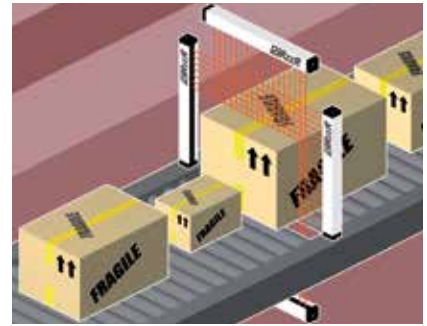
TYPICAL APPLICATIONS



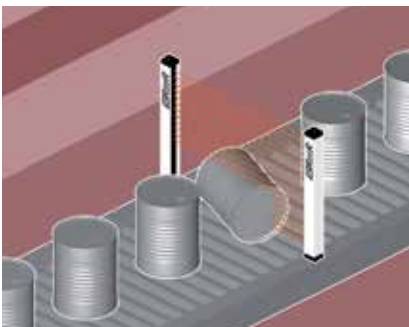
Measurement of the height of objects in transit on conveyor systems



Quality control: verification of presence, absence or position of holes



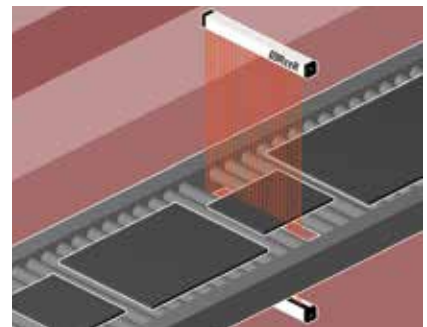
Two-dimensional detection of objects in transit on conveyor systems with use of 2 light curtains



Measurement of the height of objects in transit on conveyor systems

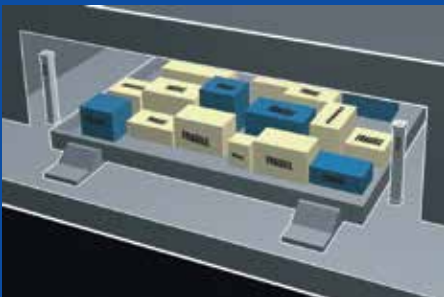


Quality control: verification of presence, absence or position of holes



Two-dimensional detection of objects in transit on conveyor systems with use of 2 light curtains

SPECIAL APPLICATION



VERTICAL WAREHOUSE STORAGE SYSTEMS

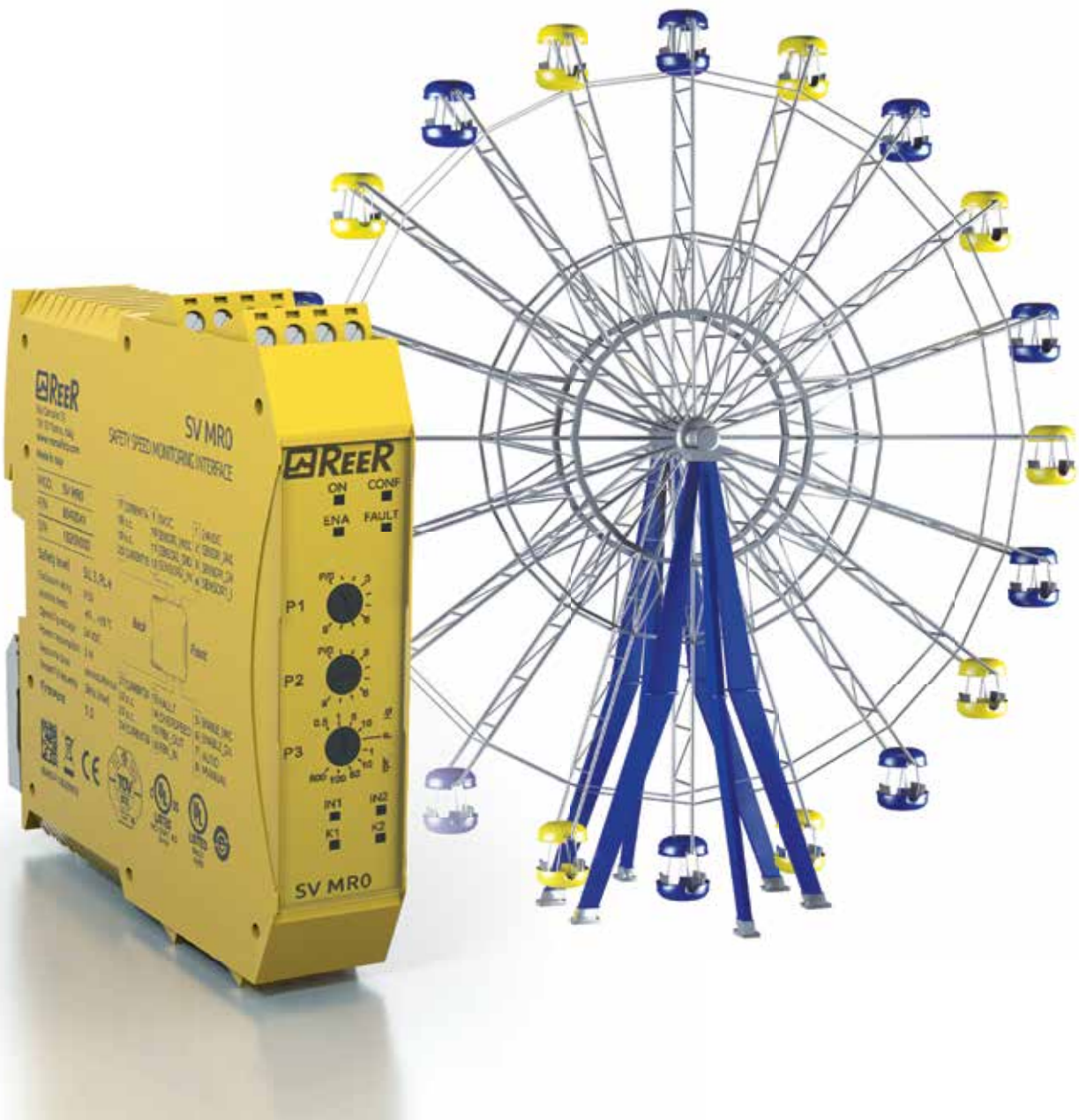
Special model with beam spacing: 25, 50, 75 mm. The special optics of these light curtains allow detection of small objects in quick motion. This particular application requires to detect the maximum height of the stored goods in order to maximise the system overall capacity. Small high-speed moving items are detected thanks to a custom developed optic set.

Furthermore, Micron is customised to satisfy the needs of automated warehousing applications, including: accuracy of the reading in every position of the storing drawer (left, right or centre positioned), ability of measuring small dimension objects (less than 2 mm at 600 mm/sec) particularly during the high-speed transit of the storing drawers in front of the barrier, and immunity to optical reflections.

REER
Your future's safe!

SV MRO

safety speed monitoring interface



STAND-ALONE SAFETY SPEED MONITORING

Controls zero, minimum or maximum speed

Safety speed monitoring interfaces. Safety level up to PL e - SIL 3.

SV MR0 - Safety speed monitoring relay for Overspeed and Zero speed control.

SV MR0 U - Safety speed monitoring relay for Underspeed control

Both modules integrate:

Manual or Automatic restart selectable.

EDM feedback input for external contactors monitoring.

Enable inputs used, for instance, when monitoring the same axis, in different working phases, with more SV MR0 configured with different thresholds.

Faults signalled by LED "Fault" and a PNP system status output.

PNP status output indicating overspeed or underspeed thresholds crossing.

Both modules have 2 inputs for PNP proximities switches.

P1 and P2 selectors allow to set numeric values from 01 to 99. P2 selector allows to set a multiplier to apply to the numeric value obtained with the first two. The multiplier can be set in "Hz" or in "rpm" (round per minute).

Note: Only when the proximities switches sensor show a single pulse per turn, the value in "rpm" corresponds to the value in "ipm" (pulse per minute).



Speed threshold
configuring selectors

P1 selector tenths

P2 selector units

P3 selector multiplier

Multipliers "Hz"
(0.5 to 990 Hz)

1 - x 0.5
2 - x 1
3 - x 5
4 - x 10

Multipliers "rpm"
(1 to 49,500 rpm)

1 - x 1 (min 10 rpm)
2 - x 10
3 - x 50
4 - x 100
5 - x 500



SAFETY SPEED MONITORING



SAFELOCK

safety switch with guard locking



short form

SAFETY SWITCH WITH GUARD LOCKING AND ELECTROMAGNETIC LOCK

Safety and reliability in door-opening control



Safelock is a safety switch utilised in the protection of personnel when opening doors leading to dangerous areas. It acts by monitoring and interrupting the safety circuit during dangerous scenarios. The solenoid locks and unlocks access to the dangerous area, guaranteeing safety until the danger has stopped.

Available models

SLK-M

Retention mechanism actuated by a spring and unlocked by ON current. Guard locking by spring force, release by applying voltage to the guard locking solenoid.

SLK-E

Retention mechanism actuated by ON current and unlocked by spring. Guard locking by applying voltage to the guard locking solenoid, release by spring force.

Characteristics

Housing	Reinforced thermoplastic
Actuating head material	Plastic or metal
Contact material	Silver alloy, gold flashed
Number of guided contacts (door position)	2
Number of guided contacts (block monitoring)	1
Switching principle	Slow-action switching contact
Approach speed	Max. 20 m/min
Actuation frequency	1200 1/h
Actuating principle	Closed-circuit current
Forces	Locking force (Fmax): →1 kN (plastic), →2 kN (metal) Locking force (FZh): 1,5 kN 0,7 kN (plastic), 1,5 kN (metal) Retention force: 20 N / Extraction force: 30 N / Actuating force: 35 N
Solenoid operating voltage	24 V AC/DC -15% ... +10%
Short circuit protection	4 A
Switching voltage	12 V Min a 10 mA
Switching current	1 mA Min a 24 V
Power consumption	6 W
Protection grade	IP67

Safety levels

3 different safety functions according to the standard EN ISO 13489-1

Cat. 1 / PL c

1 Safelock + 1 safety relay AD SRE3C or 1 input of the Mosaic safety controller

Cat. 3 / PL d

1 Safelock + 1 safety relay AD SRE3C or 2 inputs of the Mosaic safety controller + fault exclusion according to the standard (EN ISO 13849-2)

1 Safelock + 2 Magnus RFID + safety relay AD SR1 or 2 inputs of the Mosaic safety vcontroller

2 Safelock + 1 safety relay AD SRE3C or 2 inputs of the Mosaic safety controller

Cat. 4 / PL e

2 Safelock + 2 safety relay AD SRE4C or 4 inputs of the Mosaic safety controller

NOTES

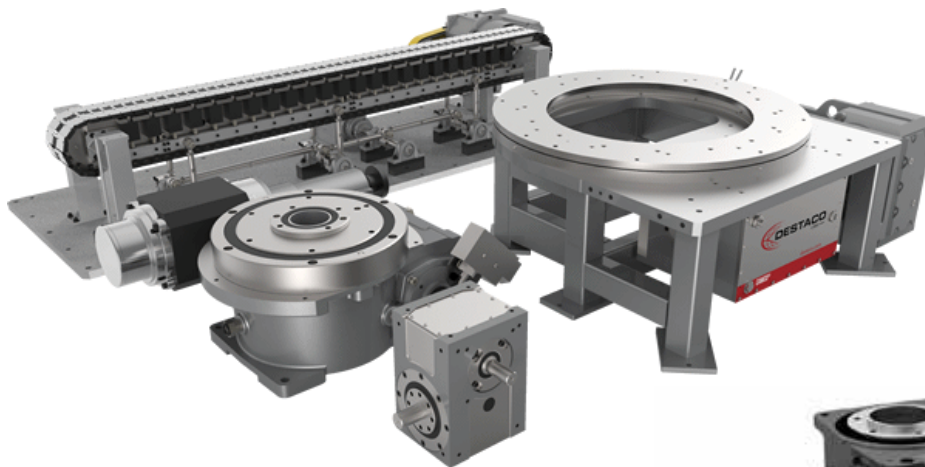


SMARTER PRECISION INDEXING

Rotary Indexers and Conveyor Solutions

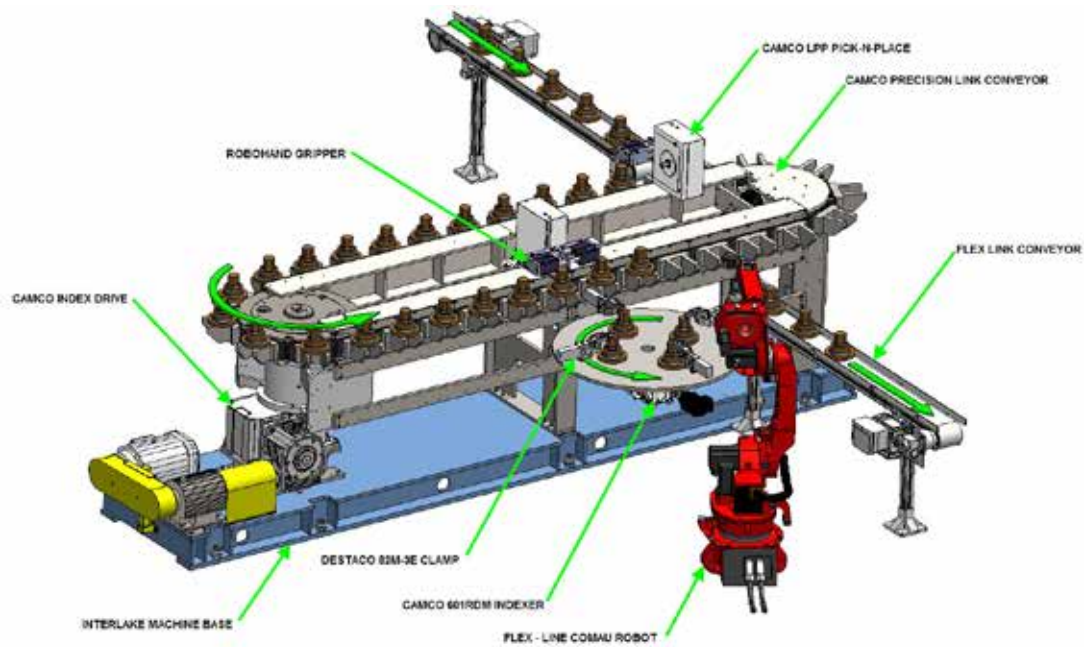


WORKHOLDING EQUIPMENT & AUTOMATION TOOLING SOLUTIONS





ROTARY CAM INDEXER



CAM ACTUATED ROTARY POSITIONING



DESTACO / CAMCO INDEXERS FOR AUTOMOTIVE, PHARMACEUTICAL & ELECTRONIC COMPONENTS For more than 50 years, Camco global products have been the industry standard for the highest quality cam-actuated, motion control products available. Camco Indexers and Servo Drives assist with device indexing. Indexing is the starting and stopping of a device in precise intervals at precise locations. Destaco's Camco cam-operated rotary indexers move a wide variety of products and components with precision. Larger E-Series indexers can rotate several tons of automotive body parts in seconds while smaller Parallel and Roller Gear indexing drives accurately index pharmaceutical or electronic components in milliseconds.

CAMCO SERVO ROTARY POSITIONERS FOR LIGHT TO HEAVY DUTY APPLICATIONS



Camco offers a range of high performance servo positioners for light to heavy duty applications. The series also features large, center thru-holes and zero backlash mechanisms. Larger positioners can rotate several tons of automotive body parts in seconds while smaller Parallel and Roller Gear indexing drives accurately index pharmaceutical or electronic components in milliseconds. Servo positioners are ideal for when the number of stations needs to be flexible and accommodate different parts.

DECELER VIBROTEK CONTROLS FACILATES ROTARY CAM INDEXER ASSEMBLY @ CHENNAI FACILITY

Why DESTACO INDEXER ?

Zero Backlash

Providing from 2 stations up to 60 station indexers.

Indexer capacity from 1 kg to 20 tons

Providing customized station indexers also – Odd number series 3,5,7

Indexer series 2,4,6,8 are exstock to provide quick service to our customers.

Life Time – 1 million indexer rotation with 1 year warranty

Proving Maintenance free indexers also & Accuracy and Repeatability.

60 or 30 indexing cycles per minute using an AC or DC motor and drive respectively

Providing customized solution for Motors depends upon the customer wish & Suitability

CAM ACTUATED ROTARY POSITIONING



HEAVY-DUTY, LARGE CAPACITY
ROTARY INDEX DRIVES – E-SERIES



CAMCO RING DRIVES FOR
AUTOMATION APPLICATIONS – RNG
SERIES



ROLLER GEAR INDEX DRIVES WITH
SHAFT OR FLANGE OUTPUT – RGD &
RGS SERIES



FLANGE OUTPUT ROTARY INDEXERS
FOR ROTARY DIAL APPLICATION –
RDM SERIES



HEAVY-DUTY ROTARY INDEX DRIVES
WITH WIDE-RANGE MOTION – RD
SERIES



RIGHT ANGLE, ROTARY INDEX DRIVES
WITH UNIVERSAL MOUNTING – RA
SERIES



ROTARY SERVO DRIVES FOR PRECISE
CONTROL – CAMCO 115RSD



SERVO POSITIONING ROTARY TABLES
FOR HIGH-TORQUE OUTPUT – GTB
SERIES

PART HANDLERS FOR ACCURATE ROTARY



When precise parts handling and pick-and-place capabilities are part of your automated system application, turn to Destaco's CAMCO parts handlers for the ideal Rotary or Linear configuration. No matter what your system demands—high speed, high load, high capacity—Destaco's CAMCO parts handlers deliver consistently reliable precision.

PRECISION, ROTARY PARTS HANDLERS – AUTOMOTIVE, PACKAGING & ELECTRONICS



The Camco RPP Cambot® rotary parts handler is designed for high precision and high capacity. This proven design can be used in a wide variety of industries including automotive, packaging and electronics among others. The RPP can be combined with other Camco products such as index drives and precision conveyors for a complete, automated system. The RPP is ideal for pick-and-place applications.

LINEAR, PRECISE PARTS HANDLING SYSTEMS FOR PICK-AND-PLACE APPLICATIONS



When precise parts handling and pick-and-place capabilities are part of your automated system application, turn to Destaco's Camco parts handlers for the ideal Rotary or Linear configuration. No matter what your system demands—high speed, high load, high capacity—Destaco's Camco parts handlers deliver consistently reliable precision.

ROBOHAND PNEUMATIC ROTARY ACTUATORS – ROTARIES



Destaco's Robohand Pneumatic Rotary Actuators (Rotaries) are available in a wide range of models: Shaft or flange output, high or low precision, light-duty to heavy-duty. Some models feature the DirectConnect hole pattern for easy integration with other Robohand products – no adapter plates! DRF Flange Rotaries with DirectConnect offer easy integration with other Robohand products and for applications requiring a precision end stop and zero backlash. DRG Shaft Output Rotaries with DirectConnect for applications where low precision, end-stop positioning and backlash are acceptable. RR light, medium and heavy-duty

PNEUMATIC CLAMPING

HEAVY-DUTY PNEUMATIC CLAMPING



Destaco's Pneumatic Power Clamps range from heavy duty sealed clamps for welding environments, to compact light duty clamps for a variety of clamping applications. These toggle-action pneumatic clamps offer exceptional clamping forces and holding capacities, far greater than clamps of a similar size. Models available include: Manual Power Clamps, Pneumatic Power Clamps, Hook Pin Clamps, Pivot Units, and Pin Packages.



LIGHTWEIGHT PNEUMATIC CLAMPS
FOR METAL SHEETS & PARTS – 82L-2
SERIES



ALUMINUM, PNEUMATIC POWER
CLAMPS FOR ASSEMBLY & HANDLING
– 82L-4 SERIES



82M-3E



TOLERANCE COMPENSATION POWER
CLAMPS WITH ARM MOVEMENT –
TCC-2E SERIES



MANUAL POWER
CLAMPS



ELECTRIC PIVOT UNITS WITH
PROGRAMMABLE STOP POSITIONS –
98W SERIES



Pneumatic Power
Cylinders



PIN PACKAGES FOR ACCURATE
POSITIONING OF SHEET METAL &
WORK PARTS



Pneumatic Round
Power Clamps

LIGHT-DUTY PNEUMATIC CLAMPING



Destaco Pneumatic Clamps use air-actuated cylinders to operate the clamping action. They are ideal for quick clamping in repetitive production operations, and yet are portable and economical to use on short run jobs with temporary fixturing.

BASIC TYPES OF DESTACO PNEUMATIC CLAMPS INCLUDE



LIGHTWEIGHT PNEUMATIC CLAMPS
FOR METAL SHEETS & PARTS – 82L-2
SERIES



ALUMINUM, PNEUMATIC POWER
CLAMPS FOR ASSEMBLY & HANDLING
– 82L-4 SERIES

PRECISION, ROTARY PARTS HANDLERS – AUTOMOTIVE, PACKAGING & ELECTRONICS

Since 1936, when the first manual toggle clamp was designed and manufactured, Destaco has been a world leader in workholding innovation and technology. Destaco offers a wide selection of manual toggle clamps from heavy duty, hold down clamps (vertical or horizontal handle) to latch clamps and straight action or squeeze-action clamps. Whatever your manual clamping needs, Destaco has a solution.



GRIPPING

GRIPPERS



Since 1980 with the release of its patented series of parallel grippers, the Robohand name has come to represent the best in innovation, quality and reliability. Offering a vast range of products and gripping solutions, Destaco's Robohand products serve all markets including stainless steel grippers for food and beverage, miniature clean room products for pharmaceuticals and heavy duty material handling solutions for industrial automotive applications.



HYDRAULIC & PNEUMATIC
ANGULAR GRIPPERS



ELECTRIC PARALLEL
GRIPPERS



PARALLEL
GRIPPERS

SHEET METAL GRIPPERS

Destaco Sheet Metal Grippers are ideal for robotic part handling applications. Destaco grippers are lightweight for high transfer speeds when used in stamping press applications. Other grippers are enclosed for use in harsh welding environments. The internal mechanism prevents grippers from opening during loss of air. All grippers feature a light weight and compact size, modular openings, many grip styles, and multiple contact points.



MODULAR, CAM-STYLE
PRESSROOM GRIPPER FOR
METAL SHEETS – 84L3-2
SERIES



ENCLOSED, MODULAR MINI-
CLAMP WITH SELF-LOCKING
LINKAGE – GR84 SERIES



MODULAR, CAM-STYLE
PRESSROOM GRIPPER FOR
METAL SHEETS – 84NI

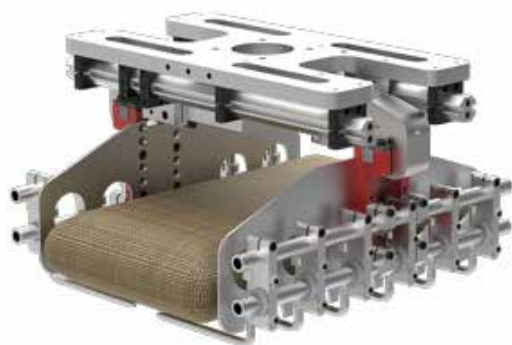


MODULAR SHEET
METAL GRIPPERS WITH
CONFIGURABLE PORTING &
SENSORS – GR1 SERIES

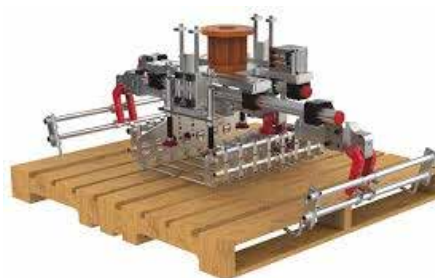
DESTACO DBG SERIES BAG GRIPPING END EFFECTORS



DESTACO DBG Series bag gripping end effectors offer a fast and reliable end-of-line, pick-and-place palletizing solution. The DBG bag gripper is a simplified, lightweight design using standard off-the-shelf components for a maintenance-free operation. It is offered in two standard sizes with optional backup, slip sheet pick and pallet pick configurations for load stabilization and slip-sheet and pallet handling application.



DBG 20 (20 Lb max Load)



DBG 50 (50 Lb max Load)

DBG 100 (100 Lb max Load)

DBG 150 (150 Lb max Load)

A NEW BEGINNING FOR THE END OF THE LINE

Speed



With rapid actuation and lightweight design, the DESTACO Bag Gripper can palletize up to 30 bags per minute when working in concert with robotic automation.

Secure Transfer



Our Bag Grippers utilize an enclosed, pneumatic toggle-lock power clamp with integrated open/close sensing to hold bags secure even if air pressure is lost. No need for complicated linkages.

More Options



Available options include pallet pick, slip sheet transfer, spring or pneumatically controlled back-up and multiple valve/controls packages.

CONVEYORS / END EFFECTORS

DESTACO / CAMCO PRECISION CONVEYORS FOR SPECIALTY AUTOMATION



The Destaco family of CAMCO Precision Conveyors for the specialty automation industry enables designers and engineers to conceptualize, cost, design, build and deliver automation systems quickly. For products ranging from automotive components to medical devices

PRECISION LINK CONVEYORS



Combining excellent accuracy with high load capacity to provide the versatility needed to meet virtually any automated assembly or manufacturing challenge. Offered in table top, modular table top, and heavy-duty versions, the Precision Link's roller bearings and precision ground cam followers ensure smooth transfer and long life. The conveyor's link size ranges from 2 inches (Table Top) to 12 inches (Heavy-Duty), and standard conveyor lengths from 3 feet to 40 feet, are designed to meet most application requirements.

HEAVY DUTY, PRECISION LINK CONVEYORS



Can be customized for specialized in-line automatic assembly operations, including: Conveyor length, Index distance and motion, Link fixture mounting pattern, Tooling plate configuration, Line shaft configuration, Support base design, Drive package components, and Drive package arrangement.

Markets: Food and Packaging, Industrial, Consumer Goods

MODULAR. TABLE TOP PRECISION LINK CONVEYORS



Enables designers and end users to design a built-to-order conveyor to a custom length using 18-inch modules. Tapped holes along the length of the conveyor receive custom or standard tooling plates and an open backbone allows electrical, pneumatic and mechanical components to pass through the conveyor. Central and offset jackshafts can be added easily.

OVERSIZED TOOLING, INDUSTRIAL & MEDICAL APPLICATIONS



Destaco's CAMCO Rite-Link Conveyor is a thin profile, preassembled, precision link system that offers maintenance free accuracy and durability for industrial conveying applications. The Rite-Link Conveyor offers the Right...Assembly, Size, Accuracy, and Operation needed for applications like these Precision positioning applications requiring higher precision or speed than roller chain can provide. Material conveying applications (industrial or medical): for example, narrow cleat or bucket conveyor for constant speed applications. The conveyor can be mounted for either over/under or carousel operation.

END EFFECTORS FOR ROBOTIC TOOLING



End effectors, also known as End-of-Arm Tooling (EOAT), are devices that are attached to end of a robotic arm. They are designed and used to act as robot wrists that interact with the environment. Destaco has been providing end effector tooling in nearly every global market segment for over 30 years offering full turnkey design, manufacturing and assembly of world class end effector solutions. Our global application engineers work with customers from concept to commission to design and build a system tailored to each unique application.



ROUND TOOLING FOR END EFFECTORS



SPIDERGRIP END EFFECTORS

AUTOMATIC TOOL CHANGERS FOR MULTI-TOOL & ROBOTIC APPLICATIONS

Destaco Automatic Tool Changers are perfect for flexible, multi-tool applications which use only one robot. These products were designed with exceptional repeatability, high rigidity and load capacity to make them ideal for any robotic application. End effector tooling and modular fixturing can be automatically changed, quickly and easily, to accommodate many different styles of parts in the same cell or machine. Destaco Manual Tool Changers, in combination with Automation Adapters and Press Nest Stands, allow you to quickly switch between various end effector tooling in seconds with the pull of a handle.



AUTOMATIC TOOL CHANGERS FOR MULTI-TOOL
& ROBOTIC APPLICATIONS

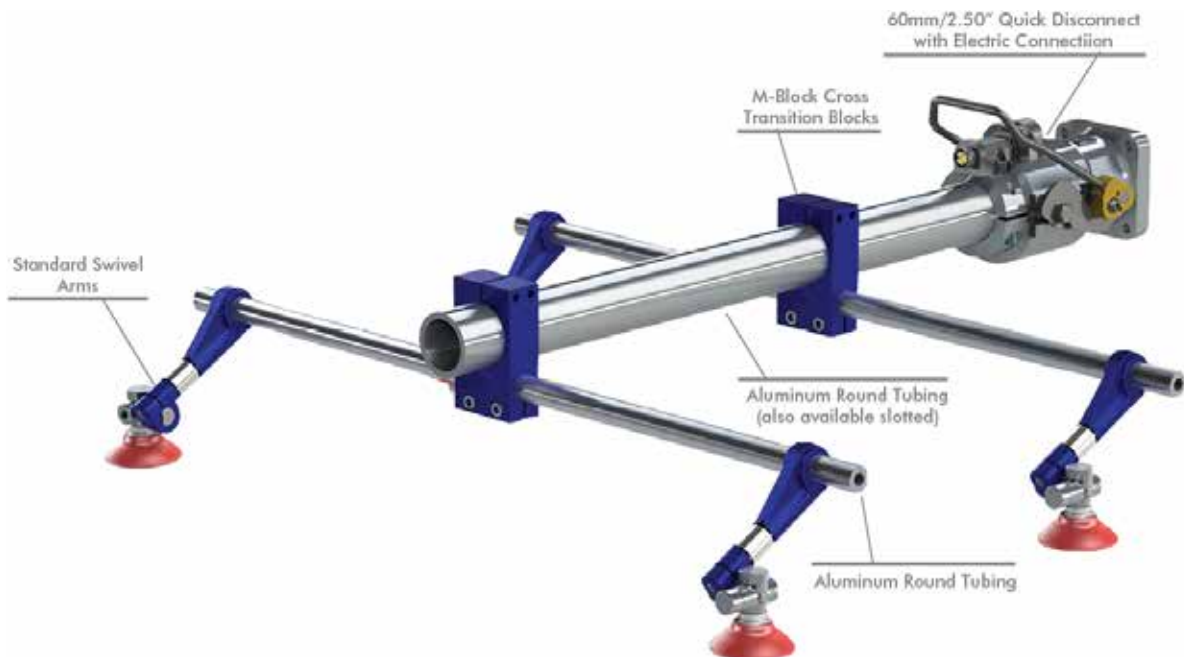


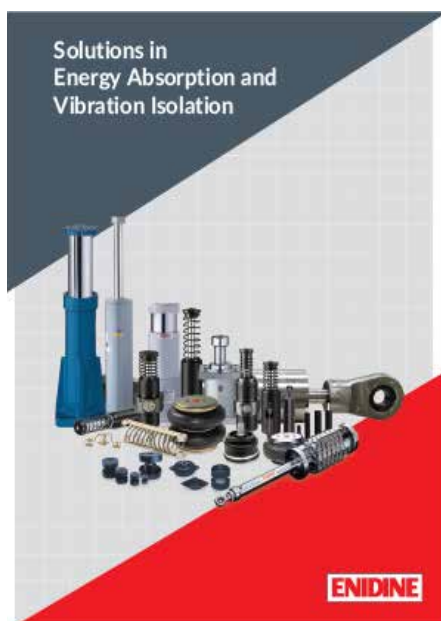
SPIDERGRIP END
EFFECTORS



MANUAL TOOL CHANGERS

Destaco Manual Tool Changers, in cooperation with Automation Adapters and Press Nest Stands, allow you to quickly switch between various end effector tooling in seconds with the pull of a handle. Optional integral air ports and electric connections provide immediate power to your system, eliminates manual re-connection of air lines or electric plugs, and reduces machine downtime.





WHY DECELER & ENIDINE ?



50 Years Reputed Brand



Well accepted in Industrial & defence organisations



Qualified Distribution Network



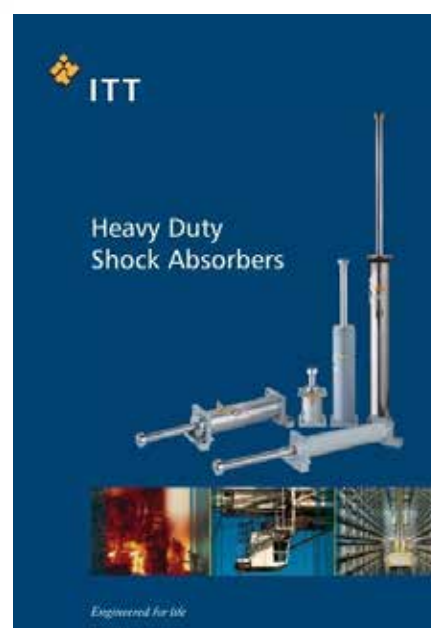
Global Presence



Diversified Product Ranges in Shock & Vibration



Custom Solution Development



SHOCK ABSORPTION

NON - ADJUSTABLE MICRO SIZE SHOCK ABSORBERS



Micro Size Shock Absorbers Enidine non-adjustable micro-bore hydraulic shock absorbers can accommodate varying energy conditions in a small package size. The TK Series is a versatile, miniature design which provides effective, reliable deceleration and vibration control for light loads. The Enidine STH Series offers the highest energy absorption capacity relative to its size. These custom-orificed shock absorbers are designed to meet exact application requirements. STH Series shock absorbers are available in fully threaded cylinder bodies, providing flexibility in mounting configurations.

Non - Adjustable ECO Shock Absorbers



High Performing, ROHS Compliant Shock Absorbers Why settle for less? When it comes to protecting your equipment from damaging energy forces we can provide you with the highest quality product at a competitive price that simply cannot be surpassed by the competition. When equipment uptime is critical, ECO series shock absorbers from Enidine provide you the protection and long lasting performance you deserve, saving you time and money.

Non - Adjustable ECO Shock Absorbers



Stable, Reliable Performance in a Small Shock Absorber Package ITT Enidine small bore non-adjustable hydraulic shock absorbers can accommodate varying energy conditions. This family of tamperproof industrial shock absorbers provides consistent performance, cycle after cycle. Small bore non-adjustable models are designed to absorb maximum energy within a compact envelope size while providing you with stable performance over the life of the product.

Non-Adjustable Mid-Bore Series Shock Absorbers



Maximum Energy Absorption Protection Enidine mid-bore non-adjustable hydraulic shock absorbers can accommodate varying energy conditions. This family of tamperproof industrial shock absorbers provides consistent performance, cycle after cycle. Mid-bore non-adjustable models are designed to absorb maximum energy providing you with protection from harmful impacts to your sensitive equipment.

ECO SERIES ADJUSTABLE SHOCK ABSORBERS



Environmentally Friendly Design

Why settle for less? When it comes to protecting your equipment from damaging energy forces we can provide you with the highest quality product at a competitive price that simply cannot be surpassed by the competition. When equipment uptime is critical, ECO series industrial shock absorbers from Enidine provide you the protection and long lasting performance you deserve, saving you time and money.

Adjustable Small Bore Series Shock Absorbers



Energy Absorption in a Small Package Enidine Adjustable Small Bore Hydraulic Series industrial shock absorbers offer the most flexible solutions to energy absorption application requirements when input parameters vary or are not clearly defined. By simply turning an adjustment knob, the damping force can be changed to accommodate a wide range of conditions and applications requiring limited space and flexibility.

Adjustable Mid-Bore Series Shock Absorbers



Tunable Energy Absorption Performance When input parameters vary or are not clearly defined, Enidine Mid-Bore Adjustable Hydraulic Series industrial shock absorbers offer a tunable solution to energy absorption and shock application requirements. By simply turning an adjustment knob, the damping force can be changed to accommodate a wide range of conditions allowing for wide variables in energy input.

Adjustable Large Bore Series Shock Absorbers



Shock Absorbers Adjusting to your Application Demands Enidine Large Bore Adjustable Hydraulic Series shock absorbers are products designed for energy absorption application requirements when input parameters vary or are not clearly defined. By simply turning the adjustment knob, the damping force can be modified to accommodate a wide range of conditions for your application.

SHOCK ABSORPTION

HEAVY DUTY (HD/HDN) SERIES SHOCK ABSORBERS



Deceleration of Large Equipment Enidine's HD/HDN Series of heavy duty shock absorbers protect equipment from large impacts in applications such as automated storage and retrieval systems as well as overhead bridge and trolley cranes. They are available in a wide variety of stroke lengths and damping characteristics to increase equipment life and meet stringent deceleration requirements.

All of Enidine's heavy duty hydraulic shock absorbers are engineered to meet OSHA, AISE, CMMA and other safety specifications such as DIN and FEM. TT Enidine Inc.'s heavy duty industrial shock absorbers are offered with a wide variety of optional configurations, including bellows, clevis mounts and safety cables. Standard adjustable or custom-orificed non-adjustable models are also available as well as optional fluids and seal packages to expand standard operating temperature range from (15° F to 140° F) to (-40° F to 210° F). For easy maintenance, all sizes of ITT Enidine Inc.'s heavy duty hydraulic shock absorbers are fully field-repairable. These products also offer piston rod extension sensor systems for reuse safety requirements.

Heavy Industry (HI) Series Buffers



Large Machinery Safety Stops Made Easy ITT Enidine Inc.'s Heavy Industry (HI Series) buffers safely protect heavy machinery, cranes and equipment during the transfer of materials and movement of products. The large-bore, high-capacity buffers are individually designed to decelerate moving loads under various conditions and in compliance with industry mandated safety standards. Control of bridge cranes, trolley platforms, overhead cranes, large container transfer and transportation safety stops are typical applications.

Jarret Series Buffers



Jarret Series Industrial Shock Absorbers utilize the unique compression and shear characteristics of specially formulated silicone elastomers. These characteristics allow the energy absorption and return spring functions to be combined into a single unit without the need for an additional gas or mechanical spring stroke return mechanism.

ENIDINE NON - ADJUSTABLE SHOCK ABSORBER

Catalog Model No	Thread Size	Stroke MM	Energy Nm Per Cycle	Energy Nm Per Hour
TK 6	M6 x 0.5	4	1	3,600
TK 8	M8 x 1.0	4	1	4,800
TK21	3/8 - 32 UNEF	6.35	2	4,100
ECO 8	3 /8 - 32 UNEF	6.35	4	6,125
TK 10M	M10 x 1.0	6.35	6	13,000
ECO 10	7 /16 - 28 UNEF	7.11	7	13,640
ECO 15	7 /16 - 28 UNEF	10.41	12	31,020
STH .25M	M14 X 1.0	6.35	11	4,420
SPM 25	1 /2 - 20 UNF	12.7	180	3,00,000
ECO 25	1 /2 - 20 UNF	16	235	3,50,000
ECOS 50	1 /2 - 20 UNF	12.7	180	3,00,000
ECO 50	3 /4 - 16 UNF	22.35	485	4,75,000
STH .5M	M22 X 1.5	12.7	65	44,200
ECO 100	1-12 UNF	25	800	622000
ECO 110	1-12 UNF	40	1,700	6,70,000
ECO 120	1 1/4-12 UNF	25	1,400	6,70,000
ECO 125	1 1/4-12 UNF	25	1,400	7,74,000
PMXT 1525	(IF) 13/4-12 UN	25	367	1,26,000
STH .75M	M30 X 2.0	19	245	88,400
ECO220	1 1/4-12 UNF	50	2,750	8,00,000
ECO 225	1 3 /8 - 12 UNF	50	2,750	9,00,000
PMXT 1550	(IF) 13/4-12 UN	50	735	1,67,000
STH 1.0M	M36 X 1.5	25	500	1,47,000
PMXT 1575M	(MF) M45 x 1,5	75	1,130	2,01,000
STH 1.0M X 2	M36 X 1.5	50	1,000	2,35,000
PMXT 2050	(IF) 2 1/2-12 UN	50	1,865	2,71,000
STH 1.5M X 1	M45 X 1.5	25	1,150	2,50,000
PMXT 2100	(IF) 2 1/2-12 UN	100	3,729	3,62,000
STH 1.5M X 2	M45 X 1.5	50	2,300	3,60,000
PMXT 2150	(IF) 2 1/2-12 UN	150	5,650	4,21,000

ENIDINE ADJUSTABLE SHOCK ABSORBER SERIES

Catalog Model No	Thread Size	Stroke MM	Energy Nm Per Cycle	Energy Nm Per Hour
OEM .1MB	M10 x 1,0	7	7	13,600
OEM .15MB	M12 x 1,0	10	7	20,900
OEM .25 B	1/2-20 UNF	10	7	22,000
LR OEM .25 B	1/2-20 UNF	10	7	22,000
OEM .35 B	9 /16-18 UNF	12	19	37,000
LR OEM .35B	9 /16-18 UNF	12	19	37,000
OEM .5B	3 /4-16 UNF	12.7	31	35,200
LR OEM .5 B	3 /4-16 UNF	12.7	31	35,200
OEM 1.0 B	1-12 UNF	25	715	6,81,000
LR OEM 1.0 B	1-12 UNF	25	715	6,81,000
OEM 1.15 X 1	1 1 /4 - 12 UNF	25	1,900	1,37,000
LR OEM 1.15X1	1 1 /4 - 12 UNF	25	1,900	2,37,000
OEM 1.15 X 2	1 1 /4 - 12 UNF	50	3,750	9,63,000
LR OEM 1.15X2	1 1 /4 - 12 UNF	50	3,750	9,63,000
OEM 1.25 X 1	1 3 /8 - 12 UNF	25	1,900	8,86,000
LR OEM 1.25 X 1	1 3 /8 - 12 UNF	25	1,900	8,86,000
OEM 1.25 X 2	1 3 /8 - 12 UNF	50	3,750	10,84,000
LR OEM 1.25 X 2	1 3 /8 - 12 UNF	50	3,750	10,84,000
LR OEMXT 3/4 X 1	1 3 /4 - 12 UN	25	3,750	11,20,000
OEMXT 3/4 X 1	1 3 /4 - 12 UN	25	3,750	11,20,000
LR OEMXT 1.5M X 1	M42 x 1.5	25	425	126 000
OEMXT 1.5M X 1	M42 x 1.5	25	425	126 000
LR OEMXT 3/4 X 2	1 3 /4 - 12 UN	50	7,500	14,75,000
OEMXT 3/4 X 2	1 3 /4 - 12 UN	50	7,500	14,75,000
LR OEMXT 1.5M X 2	M42 x 1.5	50	850	167 000
OEMXT 1.5M X 2	M42 x 1.5	50	850	167 000
OEMXT 3/4 X 3	3 /4 - 12 UN	75	11,500	17,75,000
OEMXT 1.5M X 3	M42 x 1.5	75	1 300	201 000
LR OEMXT 1 1/8 X 2	2 1 /2 - 12 UN	50	20,000	24,00,000
OEMXT 1 1/8 X 2	2 1 /2 - 12 UN	50	20,000	24,00,000
LR OEMXT 2M X 2	M64 x 2.0	50	2 260	271 000
OEMXT 2M X 2	M64 x 2.0	50	2 260	271 000
OEM 3M X 2	M85 x 2	50	20,000	32,90,000
OEMXT 1 1/8 X 4	2 1 /2 -12 UN	100	40,000	32,00,000
OEMXT 2M X 4	M64 x 2.0	100	4 520	362 000
OEM 4M X 2	M115 x 2	50	34,000	1,33,00,000
OEMXT 2M X 6	M64 x 2.0	150	6 780	421 000
OEM 4M X 4	M115 x 2	100	68,000	1,60,00,000

ENIDINE HEAVY DUTY SHOCKS

Catalog Model No	Stroke MM	(ET) Energy cycle Min./Max in.-lbs./cycle lin.-lb=11Nm		
HDN 1.5 X (stroke)	27,000		85,000	85,000
HDN 2.0 X (stroke)	2,12,000		6,80,000	6,80,000
HDN 3.0 X (stroke)	83,000		12,00,000	12,00,000
HDA 3.0 X (stroke)	40,000		2,40,000	2,40,000
HDN 3.5 X (stroke)	1,12,500		18,00,000	18,00,000
HD 4.0 X (stroke)	1,34,000		24,00,000	24,00,000
HDA 4.0 X (stroke)	1,20,000		6,00,000	6,00,000
HD 5.0 X (stroke)	4,14,000		41,50,000	41,50,000
HDA 5.0 X (stroke)	3,27,000		10,00,000	10,00,000
HD 6.0 X (stroke)	6,77,000		71,25,000	71,25,000
HDA 6.0 X (stroke)	5,40,000		16,25,000	16,25,000

ENIDINE HEAVY INDUSTRY SHOCKS

Catalog Model No	Stroke MM	(ET) Energy cycle Min./Max in.-lbs./cycle lin.-lb=11Nm		
HI 100 X (stroke)	50-800		88,000	11,50,000
HI 120 X (stroke)	100-1000		2,83,000	23,01,000
HI 130 X (stroke)	250-800		8,85,000	24,00,000
HI 150 X (stroke)	115-1000		5,48,000	24,00,000

JARRET BUFFER

Catalog Model No	Stroke MM	(ET) Energy cycle Min./Max in.-lbs./cycle lin.-lb=11Nm		
BC1N	12mm-80mm		8,85,000	1,23,910
BC5	105-108		2,21,000	13,27,612
XLR	150-800		53,000	13,27,612
LR	457-1295		8,85,000	88,50,746

VIBRATION ISOLATORS

WIRE ROPE / VIBRATION ISOLATOR WR 12 - WR 40 SIZE

High Performance Vibration Isolation Products



High Performance Vibration Isolation Products

Look to ITT Enidine Inc. for high performance Wire Rope Isolators and Compact Wire Rope Isolators. The wire rope isolators have stainless steel cable and RoHS compliant aluminum retaining bars, which provides excellent vibration isolation. The isolators are corrosion resistant, which makes them environmentally stable and high-performance in a variety of applications. The isolators are completely unaffected by oil, chemicals, abrasives, ozone, and temperature extremes.

The compact wire rope isolator



The compact wire rope isolator is smaller than a traditional wire rope and can absorb shock and vibration in small spaces. Single point mounting offers flexibility for integration into existing products. With versatile mounting options, crimping patterns, and size variation, helical isolator products may help your systems meet all requirements for industrial, defense, and commercial uses. ITT Enidine Inc. has a commitment to quality and all products are capable of the industry standards DEF-STND 0755, MIL-STD-810, BV43-44, MIL-STD-167, STANAG-042, MIL-S-901, and MIL-E-5400.

MATERIALS AND FINISHES



Standard

Wire Rope: 302/304 Stainless Steel

Mound Bars: 6061-T6 Aluminum, Chemical Conversion Coated per MIL-C-5541, Class 1A

Hardware: Alloy Steel per ASTM F835, Zinc Plated (WR12-WR40 Series)

Threads: Stainless Self Clinching Insert (WR2-WR8 Series), Threaded Bar (WR12-WR40 Series)



Optional

Wire Rope: Galvanized or Nylon Coated Stainless

Mount Bars: 6061-T6 Aluminum, Anodized per MIL-A-8625, Type II, Class 1 302/304 Stainless Steel per ASTM A276, Passivated

Hardware: 302/304 Stainless Steel (When stainless steel bars are specified) (WR12-WR40)

Threads: Stainless Steel Helical Inserts, Free Running or Self Locking (WR3 - WR40)
Threaded Aluminum (WR2 - WR8)



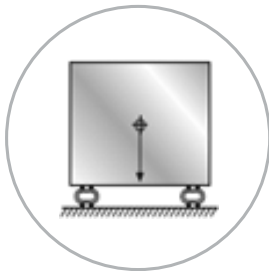
Special

Consult Deceler Vibrotek

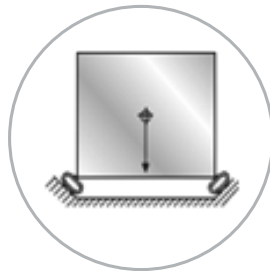


MOUNTING ORIENTATION

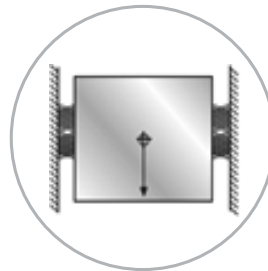
THE DIAGRAMS BELOW ILLUSTRATE



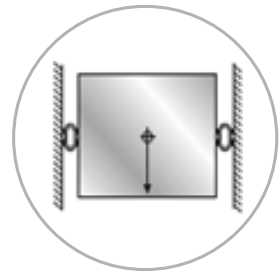
Compression



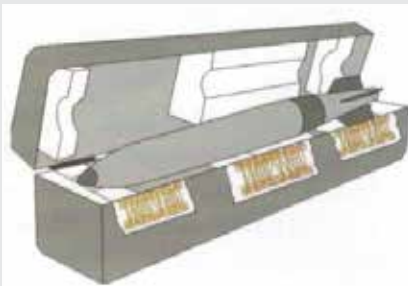
45° Compression / Roll



Fixed Shear



Fixed Roll



MOUNTING ORIENTATION



WR AND HERM APPLICATIONS

Carts, Trabsporters
& Gurney

Chemical Processing
Equipment

Chimneys, Scrubbers
& Vessels

Electronic
Cabinets

Navigation
Equipment

Over-the-road
Transport

Power plant Piping
Suspension

Pump, Generator
& Compressor Isolation

Over-the-road
Transport

Seismic
Isolation

Shipping Cases, Skids
& Containers

Transportable
Shelters

CR APPLICATIONS

Audio / Visual
Equipment

Catering
Carts

Communications
Packages

Medical
Devices

Sensitive Electronic
Equipment

Security
Cameras

Hard Drives
CD-ROM Drives

Electronics
Production

Radar
Application

HERM (High Energy Rope Mounts)



ITT Enidine Inc. developed the HERM (High Energy Rope Mount) Isolator for NAVY cabinet isolation and rafted deck systems. They have successfully passed barge testing and reduced shock inputs to levels compatible with COTS equipment. The HERM mount is an effective solution for cabinets, platforms, rafts, cradles, canisters and shipping containers requiring a shock, vibration and structure borne noise isolator.

In addition to electronic cabinets, the HERM can successfully be used on other applications such as radar systems, weapons and vehicles. Any defense contractor needing vibration isolation mounts and vibration isolation pads offering protection over a wide deck frequency range could benefit from this application.



Specifications

- ⊗ Low Frequency (12 to 16 Hz)
- ⊗ Standard Product Selection
- ⊗ Shipboard Design Expertise
- ⊗ Systems Analysis and Integration
- ⊗ Multi-Axis Isolation
- ⊗ Minimum Sway Space

ADA Rate Controls

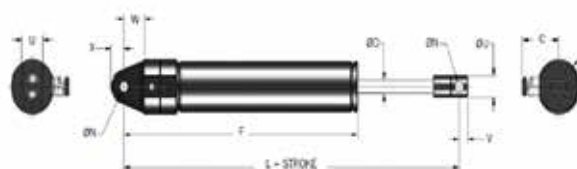


Regulated Motion Control Made Easy

ITT Enidine Inc. Rate Controls are used to regulate the speed or time required for a mechanism to move from one position to another. They use proven technology to enhance performance in a variety of product applications. Rate controls are typically used to control pneumatic cylinders, linear slides, lids, and other moving mechanisms.

The advantages of using rate controls include:

Adjustable, Double Acting (ADA 500 and ADA 700 Series) rate controls regulate speed in both tension and/or compression modes independently. ADA products let the user adjust the rate to suit specific application requirements. Fixed orifice interchangeable cartridges are available for the ADA 500 Series, which provide tamperproof operation once the red rate has been determined. An optional remote adjustment cable provides adjustment control in otherwise inaccessible locations for the ADA 500 Series.



Model Nos

ADA 505	ADA 510	ADA 520	ADA 525	ADA 705
ADA 505M	ADA 510M	ADA 520M	ADA 525M	ADA 710

AIR SPRINGS / POLY BUMPER

AIR SPRINGS



Air Actuation and Vibration Isolation ITT Enidine Inc. Air Springs are highly durable, precisely engineered and cost-effective for use in a wide variety of actuation and vibration isolation applications. With time-tested designs incorporating fabric-reinforced Wingprene™ or natural rubber flex-member construction and corrosion-protected end retainers, ITT Enidine Air Springs provide superior quality and performance. As actuators, Enidine Air Springs can provide either linear or angular motion.

POLYURETHANE BUMPER



Safety Stops for Crane Applications

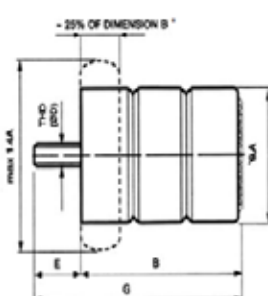
For over 40 years, Enidine's products have safely protected the crane operator and equipment during the transfer of materials and movement of products. These products are individually sized to decelerate moving loads under various conditions and in compliance with industry mandated safety standards. They are engineered to conform with OSHA, AISE, CMAA and other safety specifications such as DIN and FEM.

Our Polyurethane Bumper products are used in the following applications:

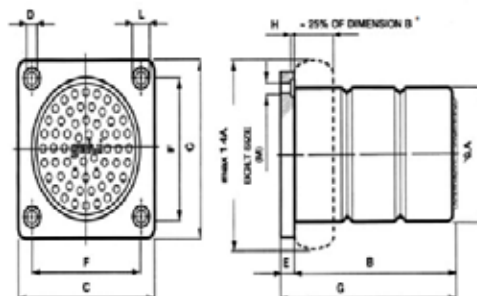


- ⊗ Control of Bridge Cranes (Cab Operated)
- ⊗ Portal Cranes
- ⊗ Harbor Cranes
- ⊗ Gantry Cranes
- ⊗ Stacker Cranes
- ⊗ Large Container Transport
- ⊗ Ladle Transfer Cars

RME



RMV







E.MC high quality products and golden service through our wide market channel and service network in Europe, in big America area, in the Middle East...about 117 countries and 82 cities all over the world.



E.MC devotes to be global leading automation solution platform

TODAY. E.MC ENJOYS

Over 85,000 m2 three factories

100+ World class facilities

40+ R&D engineers led by doctors & professors

50+ Patent rights

Over 85,000 m2 three factories

100+ World class facilities

Since founded in 1986, E.MC experienced over 30 years continuous innovation, exceeding and self-breakthrough, and becomes to be a national new high-tech enterprise with R&D, manufacturing, and brand operation. In 2010, with strong background of Fluid Power & Electromechanical System in Zhejiang university, E.MC set up China national class pneumatics and industrial automation R&D center, which gives an absolute leading competitive edge in fields of technology R&D, production innovation, process reengineering, system application and complete automation solution.

EMC GLOBAL NETWORK

E.MC enjoys a wide market network and deep service channels over 118 countries and 82 cities in China, most customers can easily receive E.MC high quality products and service very conveniently.



+91 - 94455 25883 / sales@deceler.in



E.MC provides very wide ranges of pneumatic cylinder styles to support the big automation industry system and daily increasing personalized industry demands, including many standard pneumatic cylinders and even more non-standard pneumatic cylinder, with bore sizes ranges from 6mm to 600mm. The pneumatic cylinder styles include tie-rod cylinder, micky mouse cylinder, square cylinder, mini cylinder, compact cylinder, double piston cylinder, three shaft cylinder, compact slide cylinder, precise slide cylinder, rodless cylinder, stop cylinder, pneumatic gripper, needle cylinder, rotary cylinder, clamping rotary cylinder, high temperature cylinder, welding cylinder, swing cylinder, multi-forced cylinder, multi-positioned cylinder, pneu-hydraulic cylinder, all etc. ing companies and become strategic partners. Till now, E.MC provides premium solutions for over 50 industries.



FV/FX series
ISO15552



TBC/XBC Series
Standard



VBC/LBC series
ISO15552



IA series
ISO6432 mini



RAL Series Mini
Pneumatic



RA Series Mini
Pneumatic



SJ Series Mini
Pneumatic



E.MC PNEUMATICS CYLINDER



EXH Series
High Precision Slide



SHZ Series
Parallel Type Air



SQ Compact
Cylinder (Long)



SQK Rotary
Clamp Cylinder



EMQ Series
Rotary Pneumatic



ESW Series
Rodless Cylinder



EUM Series
Minitype Free



Magnet
Switch



ESWT Guide
Rod Type Rodless

DIRECTIONAL VALVE



The strict selection of aluminum, coil wire, spring, pin plating, seal, grease, magnet...from a series of China and global suppliers, the high precision machining with special machining technics and highly controlled process, the automation production streamline for every core parts and assembling/testing makes every E.MC valve high quality assurance and stability. To support daily increasing industry new requirements, E.MC continually develop new ranges, including full range NR series low power directional solenoid valve, SR series valve island, RV series high performance directional solenoid valve, CV series compact solenoid valve, V523231 series 5/2-3/2 exchangeable Namur solenoid valve, V series classic solenoid valve and pneumatic valve, mechanical valve, hand pull valve, hand push valve, foot valve, rotary valve, quick exhaust valve, shuttle valve, slide valve, one way valve, pressure increasing valve, etc. These wide ranges give strong support for excellent pneumatic system

DIRECTIONAL VALVE



ET307



SR Series
Valve Island



RV series
directional valve



RV series NAMUR
solenoid valve



V32 Series
3/2 Way Solenoid



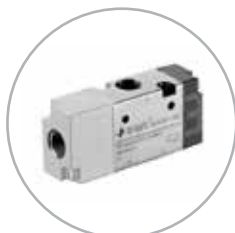
V52/V53 Series
directional



V Series
Directional Solenoid



RV Standard/Low Power



RV Series
Air Control Valve



RAL Series Mini
Pneumatic



QSC Series
Flow Control Valve



R Series
Rotary Valve



SV Solenoid Valve &
Valve+



V/RV
Manifold(5/2,5/3)



ESV Solenoid
Valve & Valve



V/RV
Manifold(3/2)



RV MAMUR
Air Control



QPC Pilot
No-return Valve

SOLENOID VALVE



30 years sufficient experience in solenoid valves give E.MC very wide ranges of standard and customized products, which may not listed in the catalog. E.MC solenoid valves have a high sizes ranges from 1mm to 300mm, max pressure could be over 100Bar, temperature ranges covering from -200 centigrade till +250 centigrade. The high quality from perfect design and composition of sealing and other fluid-touched parts, provides customers from wide fields a best choice. The big team of over 40 doctors and graduates continually provide easier low power solutions for new fluid control fields.



ELP Solenoid Valve



SLP Series 2/2 Solenoid



ZS Series 2/2 Solenoid



SLG Series 2/2 Solenoid



EMCP Plastic Actuator Series



ZSH Series 2/2 Solenoid



Connector + Coil



EMCP Plastic Actuator Series



ZS 2/2 Solenoid Valve(N.C.)



ZS-H 2/2 Solenoid Valve(N.O.)



FRLs includes air filter, air regulator, and lubricators. To meet wide industry fields application, E.MC pneumatics provides multiple design for FRL, including E series FRL, with very dependable and stable quality for over 20 years, EI series FRL with gauge integrated inside body, space saving, FE series European type FRL, very high acceptance in Europe other countries, HE series environment protective FRL, HNE series metal bowl FRL, AE/BE series economic FRL, EN series compact FRL, pressure switch, auto drain, high precision regulator, all etc. Especially the updated E/EI series FRL, with E.MC engineers deep study, test and special body design, it supports more than 9 Bar in actual application while normal FRL oilers break for long time use, which proves top technology in FRL field and give a better air source solution for higher pressure demands.



EAC3000
F.R.L Unit



EAC3010
F.R.L Unit



EA F.R.L
Combination



EAF
Filter



E Series Air Source
Treatment



EAW
F&R



HE Series Air Source
Treatment



EFRH F&R
High pressure



FEO



AE/BE Series
Air Source

PNEUMATIC ACCESSORIES



Not the most important thing, but in any conditions, these pneumatic accessories especially tubing and fittings are necessary in a pneumatic automation system!

Pneumatic accessories keep their function to connect different parts, to transfer the air pressure power or to lower the noise from the pneumatic system, so that the pneumatic systems can work smoothly and noiselessly. E.MC pneumatics has a wide range of pneumatic accessories for different situations, we have different kinds of plastic push in fittings, metal push in fittings, pneumatic connectors, pneumatic fittings, PU tubing, PA tubing, air silencers, pressure gauges, air guns, all etc. E.MC also supply all kinds of pneumatic accessories to many local manufactureres in different countries.



One Touch-in
Fitting



Hand
Valve



Stop Fitting/Check
Valve



Italian Style Metal One
Touch-in



Air Gun



PU/PE & PUS/PES
Tube



PA Tube/PU
Cutter



Pressure
Switch



SS One Touch
Fitting



Metal
Fitting

SPEED CONTROLS

D E S C H N E R

KINECHEKS®



SPEED REGULATORS FOR MOVING DEVICES

THE ORIGINAL SLIMLINE KINECHEK SPEED REGULATOR!



KINECHEKS are available in stroke lengths of $\frac{1}{2}$ ", 1, $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2, 3, 4, and 6 with capacity of up to 1200 lbs. There are no sliding seals, and no heavy springs to make the plunger bind or jerk so KINECHEKS give smooth, consistent control of moving devices whether the force is 2- $\frac{1}{2}$ or 1200 lbs. Constant speed month after month! Kinecheks are absolutely leakproof in any position because the plunger rod is hermetically sealed by a patented frictionless rolling diaphragm seal. They won't leak even a drop of fluid a year unless damaged! More precise in movement than conventional hydraulic speed regulators because their super-clean silicone fluid is sealed in for life and filtered every stroke. No dirt, dust or lint can contaminate the fluid so the internal flow aperture never silts to cause variation in plunger speed. Easy to adjust to your exact needs because the range of adjustment is over 300° with a very smooth, gradual rate of change. Each and every Deschner product is tested at its rated capacity to check constancy, load-holding ability and adjustability. KINECHEK speed regulators are the ideal velocity control to regulate the feed rate of pneumatic drills, second operation lathes, mill tables, or any equipment that requires a constant rate of movement.

KINECHEK SPEED REGULATORS



- **10,000,000** cycles successfully tested with out leaking oil
- Single adjustable orifice
- Constant rate throughout the entire stroke length
- Patented rolling diaphragm seal, which make the units leak proof

KINECHEK – HYDRAULIC SPEED REGULATOR



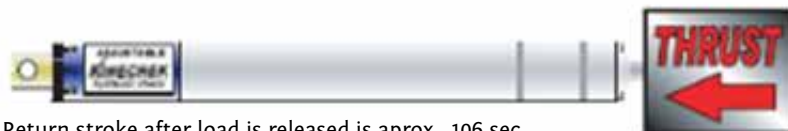
Start of first stroke, rod fully extended just prior to application of thrust. Kinecheks operate in the compression portion of the stroke only.



Force applied, rod in compression stroke, constant feed speed controlled by adjustable Kinechek. Feed rate will remain constant through out the entire stroke of the Kinechek until the load is released and the rod extends.



Full stroke time for a Standard 2" Stroke Kinechek is variable from 0 sec. to 10 minutes dependent upon load and the adjustment setting of the Kinechek.



Return stroke after load is released is approx. .106 sec



End of compression stroke, load is removed and the rod return to its starting position, fully extended. Compression stroke is slow and steady. Return stroke is very quick.

SLIMLINE



The SLIMLINE KINECHEK is the original hydraulic check that has set the industry standards for compactness, reliability and constancy in feed control. It is available in stroke lengths of 1/2 inch, 1 inch, 2 inch and 3 inch; all with a 1200 lb. maximum capacity. The wide selection of models described below will provide a solution to most of your motion control problems. Please contact factory if you have requirements for thrust loads greater than 1,200 lbs.

SPECIFICATIONS

1	2	3	4	5	6	7	8	9		
Model No. of Kinechek Slimline	Description	Stroke	Minimum Force That Will Operate Plunger Full Stroke	Plunger Return Spring Force	Time Req'd for Plunger to Return Outward if Released Suddenly	Load That Will Push Plunger 1 in. Per Sec. at Fastest Adjustment	Load That Will Push Plunger 4 in. Per Sec. at Fastest Adjustment	Time for Full Stroke of Plunger at Slowest Adjustment		
								1000 lb. Load	500 lb. Load	100 lb. Load
1001-31-1/2	extra fast	1/2 in.	5 lbs.	4 lbs.	.015 sec.	6 lbs.	10 lbs.	0.5 sec.	1 sec.	5 sec.
1003-31-1/2	fast				.020 sec.	9 lbs.	19 lbs.	4 sec.	9 sec.	50 sec.
1002-31-1/2	standard				.031 sec.	11 lbs.	33 lbs.	8 sec.	18 sec.	150 sec.
1004-31-1/2	slow speed				.186 sec.	30 lbs.	90 lbs.	38 sec.	90 sec.	12.5 min.
1001-31-1	extra fast	1 in.	5 lbs.	4 lbs.	.030 sec.	6 lbs.	10 lbs.	1 sec.	2 sec.	10 sec.
1003-31-1	fast				.041 sec.	9 lbs.	19 lbs.	8 sec.	18 sec.	100 sec.
1002-31-1	standard				.063 sec.	11 lbs.	33 lbs.	15 sec.	35 sec.	5 min.
1004-31-1	slow speed				.378 sec.	30 lbs.	90 lbs.	75 sec.	180 sec.	25 min.
1001-31-2	extra fast	2 in.	5 lbs.	4 lbs.	.052 sec.	6 lbs.	10 lbs.	2 sec.	5 sec.	20 sec.
1003-31-2	fast				.070 sec.	9 lbs.	19 lbs.	15 sec.	35 sec.	200 sec.
1002-31-2	standard				.106 sec.	11 lbs.	33 lbs.	30 sec.	70 sec.	10 min.
1004-31-2	slow speed				.730 sec.	30 lbs.	90 lbs.	150 sec.	6 min.	50 min.
1001-31-3	extra fast	3 in.	5 lbs.	4 lbs.	.115 sec.	6 lbs.	10 lbs.	3 sec.	7 sec.	30 sec.
1003-31-3	fast				.155 sec.	9 lbs.	19 lbs.	23 sec.	55 sec.	5 min.
1002-31-3	standard				.235 sec.	11 lbs.	33 lbs.	45 sec.	105 sec.	15 min.
1004-31-3	slow speed				1.620 sec.	30 lbs.	90 lbs.	225 sec.	9 min.	75 min.

Capacity: 1200 lbs. Maximum – Including Impact When Load Strikes Plunger

135°F Maximum Continuous Operating Temperature

DIMENSIONS AND WEIGHTS

Model No.	Stroke	Weight	A	B	C
1__ __-31-1/2	1/2 in.	11.5 oz.	6.33	.687	4.28
1__ __-31-1	1 in.	12.5 oz.	7.83	1.187	5.28
1__ __-31-2	2 in.	16.5 oz.	10.87	2.187	7.31
1__ __-31-3	3 in.	19.2 oz.	13.87	3.187	9.31

FIGURE 14

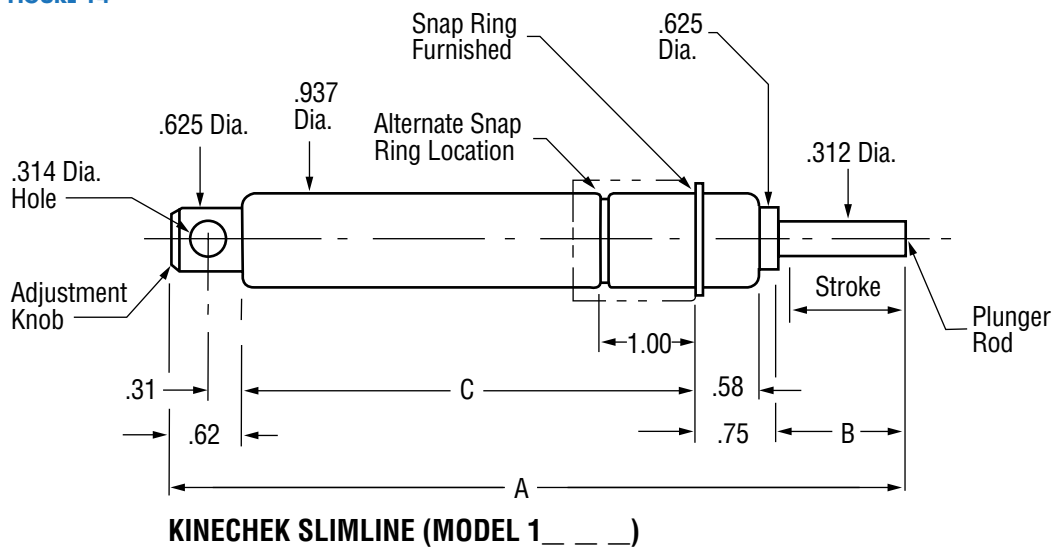
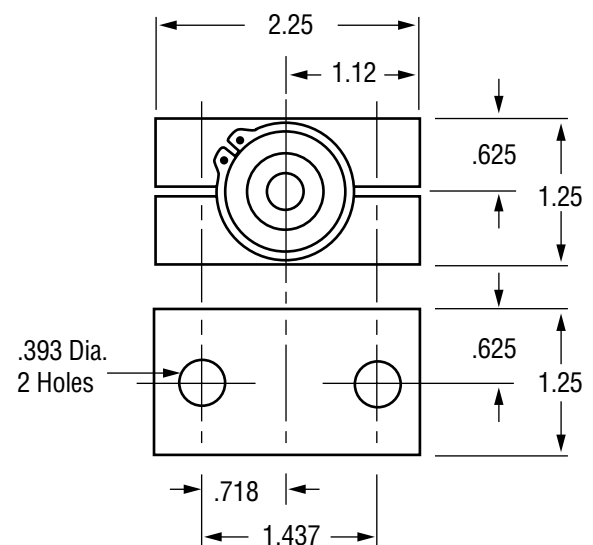


FIGURE 15

MOUNTING BLOCK NO. A10031 (SLIMLINE)



APPLICATIONS



- ⊗ Regular Drilling (Automatic and Manual)
- ⊗ Automated Drilling machines
- ⊗ Manual drill press
- ⊗ Air feed drills and hand held drills

- ⊗ Regular Drilling (Automatic and Manual)
- ⊗ Automated Drilling machines
- ⊗ Manual drill press
- ⊗ Air feed drills and hand held drills



Auto Ball NUT Drilling System

- ⊗ Other applications where a controlled feed rate or precise impact absorption is critical

ROTARY UNION & JOINTS, SWIVEL JOINTS.
TORQUE ACTUATED CORE CHUCKS, SLIP RINGS.

Supplying
High Performance
Rotary Joints
to The World



ROTARY JOINTS & UNIONS

From mechanical seal to spherical seal, from rotary seal to hydrostatic seal, we have developed many standard rotary joint models of different sealing solutions in order to meet the requirements for today's rotary seal applications. We also offer custom designed solutions for special applications with our expertise gained throughout years of experience. Since we understand the design process is the foundation of all the other processes, we have the most experienced engineers within the industry and use the latest CAD software to ensure every product is designed consistently per the application's specifications. We adopt a unique quality control system to make sure a consistent quality is applied not only to the finished products, but also to the components. We cover industries like Automation Car Wash, Chemical, Corrugating Converting, Machine Tool, Military, Paper, Making, Pharmaceutical, Printing, Rubber & Plastics, Steel, Textile, Wind Energy Many More...

BA SERIES

BA SERIES FOR WATER SERVICE



FEATURES

- Mono flow and dual flow design
- Self supported
- Mechanical seal type
- Brass housing for water service
- Stainless steel rotor



OPERATING PARAMETERS

Max. Water Pressure	-	11 bar
Max. Temperature	-	120°C
Max.Speed DN 8-32	-	1,000 RPM
DN 40-50	-	500RPM
DN 65	-	350RPM

BH SERIES

BA SERIES FOR WATER SERVICE



FEATURES

- Mono flow and dual flow design
- Replaceable seal allow on-shaft repair
- Balance mechanical seal
- High precision bearings with water-proof design
- Stainless steel rotor and head



OPERATING PARAMETERS

Max. Water Pressure	-	11 bar
Max. Temperature	-	120°C
Max.Speed DN 10-25	-	3,000 RPM
DN 32-40	-	2500RPM
DN 50-65	-	750RPM
DN 80-100	-	500RPM
Media	-	Water

*Other media or parameters above ratings, consult fluid seal

BC SERIES

BC SERIES FOR AIR & HYDRAULIC SERVICE



★ FEATURES

- Mono flow design
- Balanced Mechanical seal
- Aluminum housing
- Stainless steel rotor
- High quality ball bearings



OPERATING PARAMETERS

Max. Air Pressure	- 10 bar
Max. Hydraulic Pressure	- 16 bar
Max. Temperature	- 120°C
Max. Speed	- 3,000RPM
Media	- Air & Hydraulic Oil

C SERIES

C SERIES FOR CONTINUOUS CASTER OF STEEL INDUSTRY



★ FEATURES

- Mono flow and dual flow design
- In the shaft mounting
- Brass/SS Parts for water services
- Special design to accommodate misalignment
- Customized design available



OPERATING PARAMETERS

Max. Pressure	- 11 bar
Max. Temperature	- 120°C
Max.Speed	- 100 RPM
Media	- Cooling Water

M SERIES

M SERIES FOR AIR & HYDRAULIC SERVICE



★ FEATURES

- Multi-passage design
- Special seals ensure long service life
- Hardened sealing surface
- Drain passage design
- High quality ball bearings
- Customized joints available



OPERATING PARAMETERS

Max. Pressure	- 10 bar
Max. Hydraulic Pressure	- 200 bar
Max. Temperature	- 80°C
Max.Speed	- 250 RPM
Media	- Air & Hydraulic Oil

ROTARY JOINTS & UNIONS

MT SERIES

MT SERIES FOR AIR & HYDRAULIC SERVICE



★ FEATURES

- ⌚ Mono flow and dual flow design
- ⌚ Special seals ensure long service life
- ⌚ Hardened sealing surface
- ⌚ Drain passage design
- ⌚ High quality ball bearings



OPERATING PARAMETERS

Max. Air Pressure	- 10 bar
Max. Hydraulic Pressure	- 200 bar
Max. Temperature	- 80°C
Max. Speed	- 250 RPM
Media	- Air & Hydraulic Oil

MQR SERIES

MQR SERIES FOR PNEUMATIC SERVICE



★ FEATURES

- ⌚ Multi-passage design
- ⌚ Special seals ensure very long service life
- ⌚ Low rotation torque
- ⌚ High precision ball bearings
- ⌚ Up to 8-passage models available



OPERATING PARAMETERS

Operating Pressure	- -100kpa to 1MPa
Max. Temperature	- 80°C
Max. Speed MQR02	- 2,000 RPM
MQR04	- 1,500 RPM
MQR06	- 900 RPM
MQR08	- 900 RPM
Media	- Air & Vacuum

SK SERIES

SK SERIES FOR THERMAL OIL SERVICE



★ FEATURES

- ⌚ Mono flow and dual flow design
- ⌚ Self-supported
- ⌚ Compressed carbon seal design
- ⌚ Ductile iron housing and rotor



OPERATING PARAMETERS

Max. Pressure	- 7 bar
Max. Temperature	- 315°C
Max.Speed	- 250 RPM
Media	- Thermal Oil

SA SERIES

SA SERIES FOR STEAM SERVICE



★ FEATURES

- Mono flow and dual flow design
- Self-supported
- Special surface treatment for steam service
- Compressed carbon seal design



OPERATING PARAMETERS

Max. Pressure	- 17 bar
Max. Temperature	- 200°C
Max. Speed	- 250 RPM
Media	- Steam

NA SERIES

NA SERIES FOR STEAM SERVICE



★ FEATURES

- Mono flow and dual flow design
- External-supported
- Special surface treatment for steam service
- Ductile iron housing and rotor



OPERATING PARAMETERS

Max. Pressure	- 17 bar
Max. Temperature	- 220 °C
Max. Speed	- 300 RPM
Media	- Steam

BP SERIES

BP SERIES FOR AIR & HYDRAULIC SERVICE



★ FEATURES

- Dual flow design
- Balanced mechanical seal
- Replaceable sealing kits
- Both passages can be pressurized
- Low torque
- High quality ball bearings



OPERATING PARAMETERS

Air. Pressure	- 10 bar
Hydraulic Pressure	- 70 bar
Temperature	- 3,000 RPM
Max.Speed	- Steam
Media	- Air & Hydraulic Oil

ROTARY JOINTS & UNIONS

K SERIES

K SERIES FOR HYDRAULIC SERVICE



★ FEATURES

- Multi-passage design
- Special seals ensure very long service life
- Low rotation torque
- Drain passage design
- High precision ball bearings
- Customized joints available



OPERATING PARAMETERS

Max. Hydraulic Pressure	- 210 bar
Max. Temperature	- 80°C
Max. Speed	- 3,000 RPM
Media	- Hydraulic Oil

CORE CHUCKS

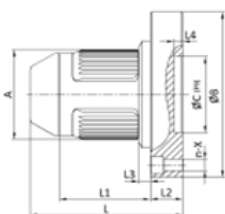
TORQUE ACTIVATED CORE CHUCKS



★ FEATURES

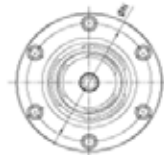
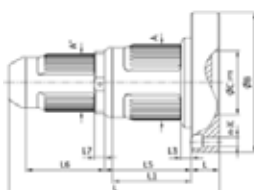
- Long service life
- Low maintenance cost
- Single core and dual core design
- Size available from 3" to 12"
- Quick replacement of top chuck

SPECIFICATIONS



Single Core Model - For Use of Single Core Size

DN	A	B	C	n-X	N	L	L1	L2	L3	L4
80	80	195	195	6-13.5	166	164.5	104.5	37	13.5	10
100	100	195	195	6-13.5	166	175	104.5	37	13.5	10
150	150	250	250	6-13.5	220	165	104.5	37	13.5	10
300	300	400	400	6-18	360	170	109.5	40	18.5	15



Dual Core Model - For Use of Multiple Core Size

DN	A	A'	B	C	n-X	N	L	L1	L2	L3	L4	L5	L6	L7
100	4"	3"	195	90	6-13.5	166	280	104.5	37	13.5	10	115.5	104.5	13.5
150	6"	3"	250	110	6-13.5	220	284	104.5	37	13.5	10	119.5	104.5	13.5
300	12"	6"	400	150	6-18	360	290	108.5	40	18.5	15	130	104.5	13.5

HOW TO ORDER



S K S	S T	0 0 6	S K S	S T	0 0 6	S P
Maker	Model	Channel	Maker	Model	Channel	Flange Type / Special

Type	Model	Channel	Outer Diameter	Thru Bore	Rotating Speed	Signal & Data compatible
General	SS Series	12, 16	ø36.5	-	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
	ST Series	6 - 36	ø55	-	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
	S Series	12 - 72	ø83	-	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net

HOW TO ORDER



S K S	S T	0 0 6	S K S	S T	0 0 6	S P
Maker	Model	Channel	Maker	Model	Channel	Flange Type / Special

Type	Model	Channel	Outer Diameter	Thru Bore	Rotating Speed	Signal & Data compatible
Bore Type (Small)	CB Series	12, 24	ø32.8	ø15	Max 200 rpm	Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
	T Series	6 - 24	ø55	ø12.5	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
	H Series	12 - 60	ø83	ø13	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
Bore Type (Medium)	B Series	12 - 100	ø114	ø27	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
	D Series	6 - 75	ø100	ø38	Max 200 rpm	Heater Sensor, Standard Sensor, Ethernet, Encoder, RS, CC-LINK, Device Net
Bore Type (Large)	BB Series	12 - 300	ø160	ø70	Max 200 rpm	Heater Sensor, Standard Sensor, RS, CC-LINK, Device Net
	DB Series	12 - 60	ø229	ø100	Max 200 rpm	Heater Sensor, Standard Sensor, RS
	DD Series	12 - 48	ø260	ø120	Max 200 rpm	Heater Sensor, Standard Sensor, RS



NOTES



CE Marked Product
ROHS Compliant Product
In technical Collaboration with KENT
GAS SPRINGS, UK

deceler  vibrotek
selling solutions ...

SUPER GAS SPRINGS



INDUSTRIAL GAS SPRINGS

"Lift the mass with less hand force"



INDUSTRIAL GAS SPRINGS



PUSH Type Gas Spring

PULL Type Gas Spring

Super Systems is a leading manufacturer and supplier with a 22 years history of delivering high quality gas springs and accessories to various industries. The company is one of the largest manufacturers in India for gas springs and is focused on 100% satisfaction of its customers by providing them with quality products that their customers can rely on.

Be it a small or large quantity we have the high precision and flexible and modern manufacturing processes that guarantee quality products and short lead times. Continuous improvement through world-class processes drives our operations as we deliver solutions that move your world.

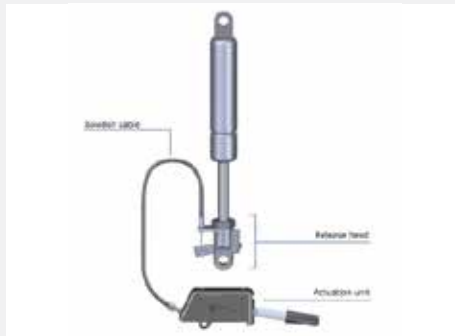


Compression Gas Springs

6 - 15	10 - 28
8 - 18	14 - 28
10 - 22	20 - 42

Tension Gas Springs

10 - 28



HYDRAULIC ACTUATOR FOR HOSPITAL FURNITURE

The Product has been precisely designed and manufactured covering medical applications like, trolley, bed, operation table etc. The product has been precisely designed and manufactured under the most favourable & modern manufacturing conditions. Quality control is carried out at every stage of production under the supervision of dedicated, qualified & experienced group of professionals. We believe in 100% customer satisfaction, so, these actuators are fully guaranteed & can be customised as per client requirement.

About Product,

Variants in terms of length & strokes are available for these actuators, Standard strokes available are 150mm (VS-06), 200MM (VS-08), 250 mm (VS-10), 300MM (VS-12). Weight carrying capacity is 400Kg. We also provide foot operated pedals for easy operation & long life of these actuators.

NOTES



TECHNOLOGY FOR THE BEST



获得CE标志认证
CE MARK Certified



获得ISO9001(ISO9001)认证
Q93001(ISO9001) Certified



The EC Directive 97/23/EC



BESTEC GAS SPRINGS

The Best Quality and Long Life...
More Compact and More Powerful

GUARANTEES "100" MILLION MM LIFE CYCLES



GUARANTEES "100" MILLION MM LIFE CYCLES



**The Best Quality and Long Life...
More Compact and More Powerful**



TOOL DIE NITROGEN CYLINDER / GAS SPRING



Bestec Co., Ltd. produces gas springs and standard parts for molds.

Since our foundation in 1998, we have been developing and producing standard parts for molds, and we are working with all employees to reduce costs and improve customer value by introducing MES manufacturing execution systems and optimizing production sites.

In addition, our gas springs for molds, which were developed for the first time in Korea, have been selected as quality certifications by prominent agencies such as ISO 9001, ISO 14000, CE, PED, RoHS, and excellent products from the Public Procurement Service. We have distributors in countries and export to all over the world.



BESTEC Cylinder **guarantees long life more than 100million mm** of total strokes thanks to the self-designed high performance gas-holding seal and the fine finished rod surface which has $Ra \leq 0.04$ of surfaceroughness and over Hv900 of hardness, the most important factors to the cylinder life. Government authorized life test from SMBA, the gas-leakage was under 5% after 100million strokes



Rigid seamless cylinder body and mechanical latched piston-rod different from competitors who use welded tube and lock-ring keep you safe from any of accident.



BEST SAFETY. LONG LIFE



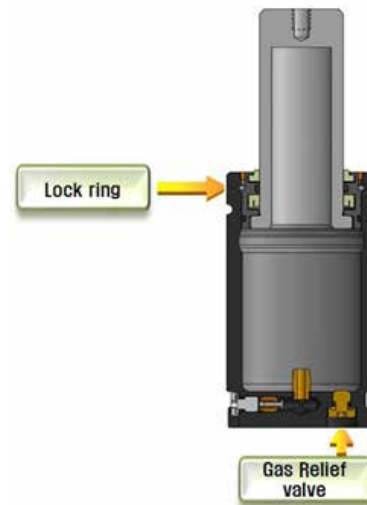
GURANTEES "100" MILLION MM LIFE CYCLES

INTERGRAL IN CYLINDER WITH ROD



100% Safe
at any cases

SEPARATE ASSEMBLY IN CYLINDER WITH ROD



Gas Relief valve will prevent from damage caused
by the over-stroke



The integral gas spring is,

- 1.No risk of the Rod bouncing off even during slant working.
- 2.Utilizing full length of spring rod (Others recommend only 90%)
- 3.Screw assembly ensures stronger structure



The integral gas spring is,

- 1.No risk of the Rod bouncing off even during slant working.
- 2.Utilizing full length of spring rod (Others recommend only 90%)
- 3.Screw assembly ensures stronger structure



DIFFERENT MOUNTING OPTIONS



PRESSURE CONTROL UNIT



MULTI DISTRIBUTOR UNIT



CHARGING UNIT



BOOSTER UNIT

NOTES

CLUTCHES BRAKES

TANGYING DEDICATE
IN THE HIGH QUAL-
ITY OVER 30 YEARS

AIR DISC BRAKES & CLUTCHES
SAFETY DISC SPRING BRAKES
AIR SHAFT BRAKES & CLUTCHES



STEKI
Industrial Automation

AIR DISC BRAKE - EDGE POSITION CONTROL

Use in high accuracy tension control situation, can provides many kinds of torque control, has a great ability of radiation, can have a widely application in processing of industries, as the packing, tissue paper and corrugated paper. The friction disc of chucks brake can choose at will, convenient for the installation and the maintenance, it can use with the user brake disc. DBK air brake already available in on equipment of brand-new design and also equipment transformation. This model can supply the type with cooling fan or not.



DBK Air Brakes (Type Of Cooling And Fan)



DBG Air Disc Brakes



DBH Air Disc Brakes (Horizontal-type)



DBKF Air Disc Clutches



DBK10/DBK20.2/DBK20.4 Air-actuated Disc Brakes



DBF Air Disc Brakes

AIR CLUTCHES / BRAKES



NAC (Standard) Air Through Shaft Clutches



NAB (Standard) Air Through Shaft Brakes



NAC (Miniature) Air Through Shaft Clutches



NAB (Miniature) Air Through Shaft Brakes

AIR HYDRAULIC BRAKES



DBM3003 oil hydraulic
disc brake



DBM1001 oil hydraulic
disc brake



DBM1603 oil hydraulic
disc brake



BM0601 oil hydraulic
disc brake

AIR HYDRAULIC BRAKES



PKB BRAKES



PKC BRAKES



PMB BRAKES



PMC BRAKES



PHC HOLLOW SHAFT

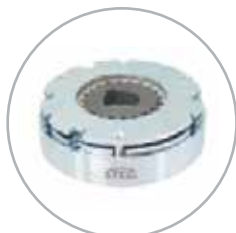
NON EXCITED BRAKES



SEB model non-excited
brakes



SWB model non-excited
brakes Servo Motor
Specialized Type



SWB model non-excited
brakes Servo Motor
Specialized Type



SWB model non-excited
brakes

SAFETY CHUCKS



Safety chucks
(FLW/FLO)



Strip-type
air shaft

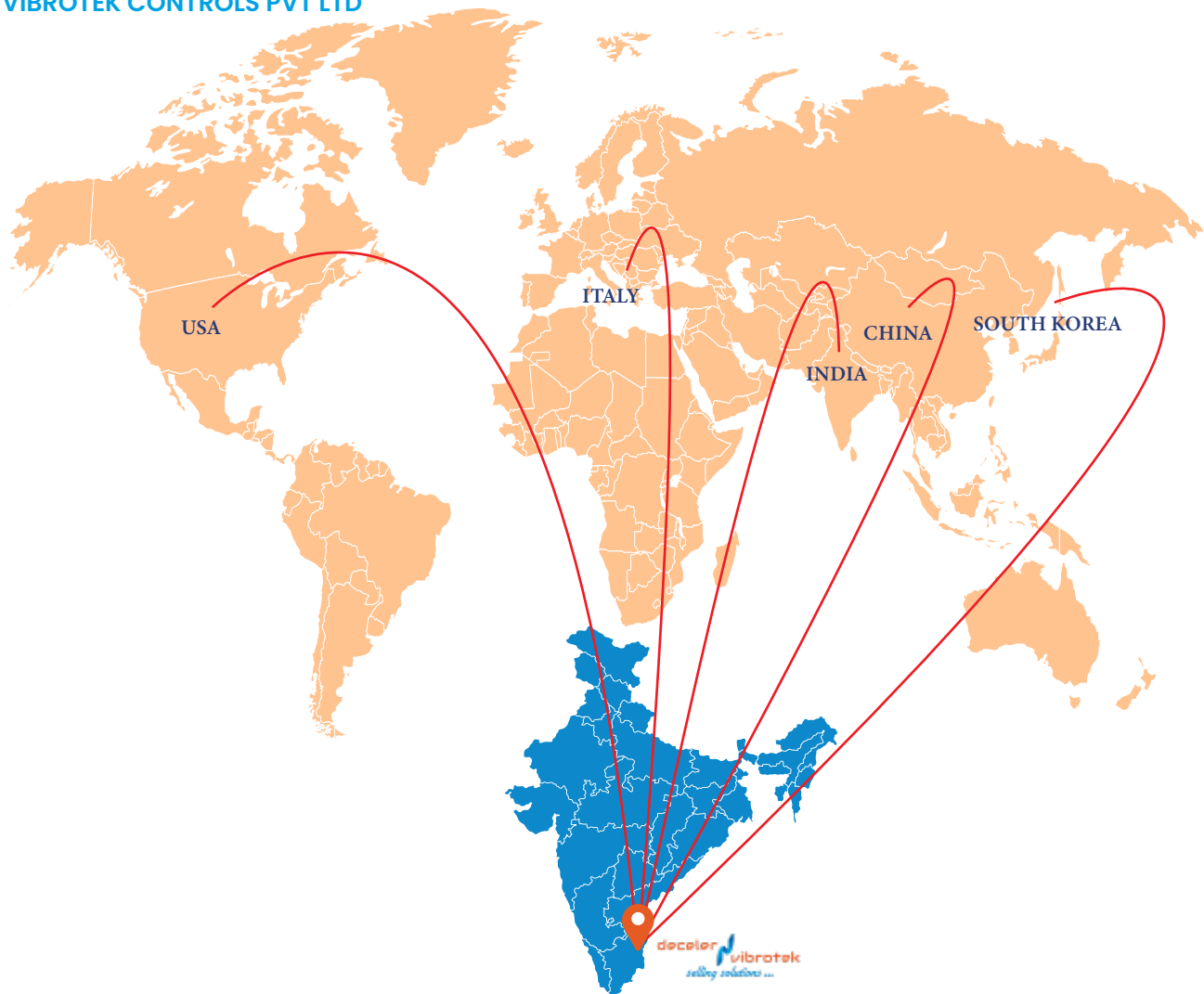


Key-type
air shaft

DECELER

VIBROTEK CONTROLS PVT LTD

GLOBAL PRODUCTS



Registered Office



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