



APEX PRECISION MECHATRONIX PVT.LTD.

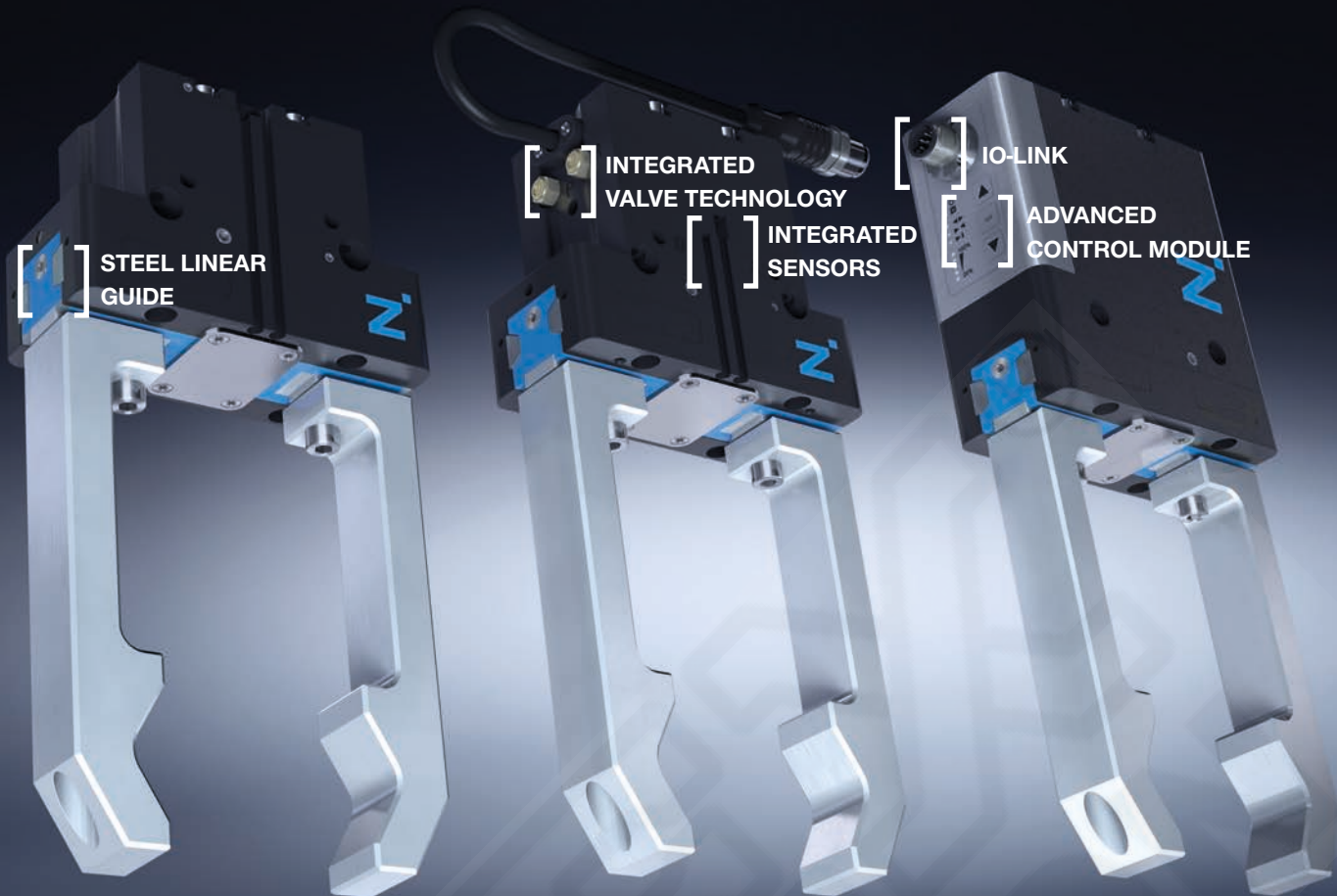
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HANDLING TECHNOLOGY

SWIVEL AND ROTARY MODULES

OUR EXPERTISE – YOUR ADVANTAGES

“Superior”

► Up to 100% more performance than the Benchmark

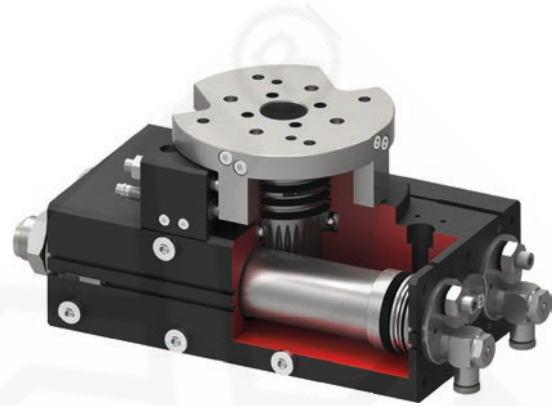
Superior end position damping lets you swivel more mass in the shortest amount of time, increasing your machine's component output

► Large center bore

Reduce the interference contours in your application by placing your power supply line directly through the middle of the rotary flange

► More than 100% higher radial bearing load than the Benchmark

The generously scaled bearings stand for robustness and long service life and provide the highest process reliability for your application



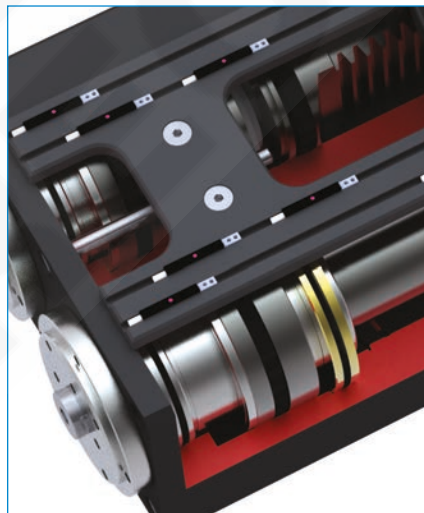
HIGH-PERFORMANCE

When it comes to swiveling, the shortest possible cycle time is the first priority. Our in-house developed shock absorbers with spiral groove technology provide the market's best end position damping – perfect for our [high-performance swivel units](#) with their extremely short cycle times.



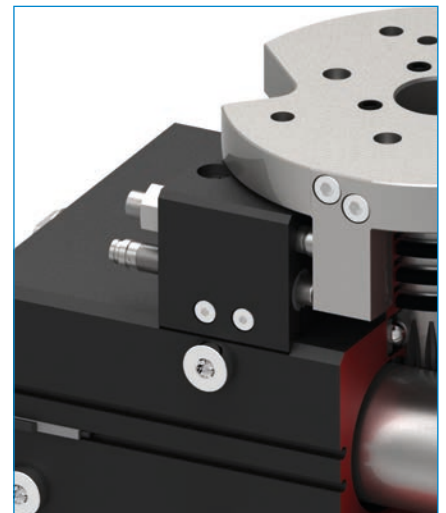
TRIED AND TESTED

As a pioneer from the very beginning, we are offering you a comprehensive product range that is constantly raising the bar. In addition to the world's first shock-absorbed angle pivot unit, we also developed products such as the first flat swivel unit with a [locking middle position](#).



ROBUST

Generously scaled bearings make it possible for our units to handle a great deal. Where others may lose a tooth now and then, we can offer you a virtually wear-free gear drive with [external stops](#).



HANDLING TECHNOLOGY

ROBOT ACCESSORIES

OUR EXPERTISE – YOUR ADVANTAGES

► Secure hold during pressure drop

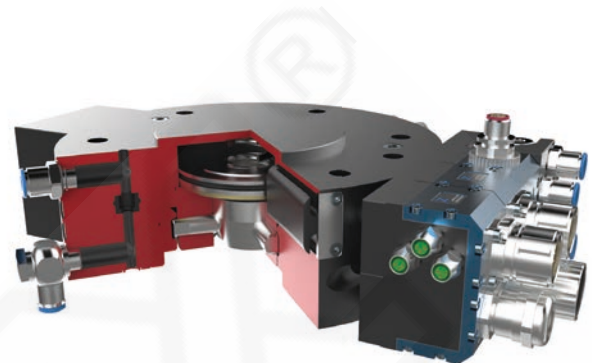
A redundant system, created by the combination of a spring accumulator and a self-locking mechanism, guarantees a safe machine

► Extremely flat design

This structure reduces the moment load for your robot to a minimum and makes it possible to use smaller and more affordable sizes

► Inexhaustible variety of media transfer systems

No matter which medium you would like to transmit, we will draw from our wealth of experience in implementing projects and find a solution to suit your needs



VARIETY

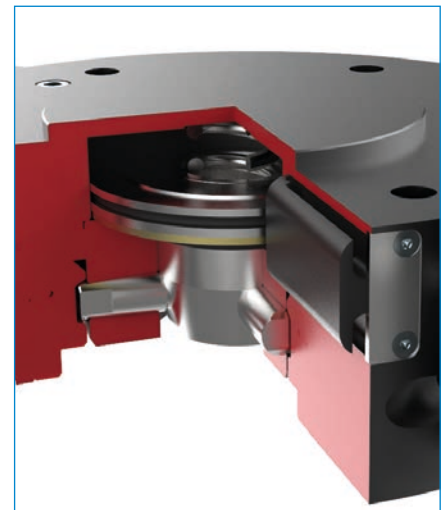
Do you want to custom-build your machine and have freedom in media transmission? Working with us allows you to select from a wide variety of standardized energy elements. We are also experienced to develop a [custom solution](#) for you.

STANDARDIZED

The height of the structure reduces the load capacity of your robot. That is why our robotic components form structures with minimal height and can be combined together without additional adapter plates. Direct mounting onto the robot takes place using the [mounting flange in accordance with EN ISO 9409-1](#).

SAFE

Production safety is a priority for us. That is why our tool changers offer you maximum reliability, with the integrated sensor technology, the spring installed for maintaining force and the extremely robust, [line contacting locking bolts](#).



ROBOT ACCESSORIES



CHANGE

MANUAL

HWR2000
HWR



Connection flange: TK31 - TK80
Recommended handling weight: 5 kg - 50 kg
Pneumatic energy transfer: 4 - 8 ports
Electrical energy transfer: Optional via energy element



TRANSMIT

MANUAL

DVR1000



Connection flange: TK125
Recommended handling weight: 200 kg
Pneumatic energy transfer: 8 ports
Electrical energy transfer: 4pin + PE



PNEUMATIC

WWR



Connection flange: TK40 - TK160
Recommended handling weight: 20 kg - 300 kg
Pneumatic energy transfer: 4 - 10 ports
Electrical energy transfer: Optional via energy element

DVR



Connection flange: TK40 - TK160
Recommended handling weight: 15 kg - 200 kg
Pneumatic energy transfer: 4 - 8 ports
Electrical energy transfer: 4 - 12pin

WWR1000



Connection flange: TK160 - TK200
Recommended handling weight: 500 kg - 1,000 kg
Pneumatic energy transfer: Optional via energy element
Electrical energy transfer: Optional via energy element



ENERGY ELEMENTS

ELECTRICAL / COMMUNICATION

WER

For transmitting signal and load currents



COMPENSATE

PNEUMATIC

FGR
XYR



Connection flange: TK40 - TK160
Recommended handling weight: 7 kg - 75 kg
Deflection in X/Y: 2 mm - 10 mm



PROTECT

PNEUMATIC

CSR



Connection flange: TK50 - TK125
Recommended handling weight: 6 kg - 150 kg
Z-axis deflection: 6 mm - 23 mm
Horizontal deflection +/-: 9° - 12.5°

FLUID

WER

For transmitting hydraulics, pneumatics and vacuum



ANGLE FLANGE

WFR



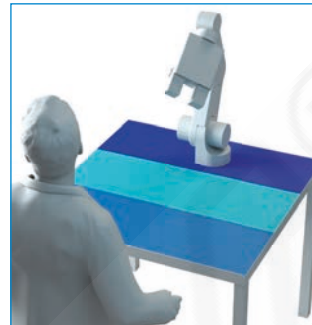
Suitable for more than 40 different robot types and combinable with 16 different grippers for machine loading

HANDLING TECHNOLOGY

HUMAN ROBOT COLLABORATION

HRC FROM THE EXPERTS

Zimmer Group is a pioneer and one of the world's leading manufacturers of components in the area of human/robot collaboration. We develop our products in pursuit of our goal to increase the efficiency of work processes by fostering the type of collaboration between humans and machines that makes optimal use of their potential.



Cooperation



Collaboration

2-JAW PARALLEL GRIPPERS

COOPERATIVE

ELECTRICAL

HRC-EP-017388

IO-Link



Stroke per jaw: 60 mm
Gripping force: 820 N
Weight: 1.8 kg
IP class: 40
Maintenance free (max.): 5 million cycles

Safety functions STO + mechanical self-locking mechanism in case of power failure

COLLABORATIVE

ELECTRICAL

HRC-EP-014654

IO-Link



Stroke per jaw: 60 mm
Gripping force (max.): < 140 N
Weight: 2.0 kg
IP class: 40
Maintenance free (max.): 5 million cycles

Safety functions STO + mechanical self-locking mechanism in case of power failure + safety gripper jaws prevent the excess of 140 N

HRC-EP-027988

IO-Link



Stroke per jaw: 10 mm
Gripping force (max.): < 140 N
Weight: 0.68 kg
IP class: 40
Maintenance free (max.): 10 million cycles

Mechanical self-locking mechanism in case of power failure

PNEUMATIC

HRC-PP-048748

IO-Link



Stroke per jaw: 6 mm
Gripping force (max.): < 140 N
Weight: 0.76 kg
IP class: 40
Maintenance free (max.): 10 million cycles

Gripping force safety device in case of pressure failure via integrated spring

2-JAW ANGULAR GRIPPERS

PNEUMATIC

HRC-PW-055639

IO-Link



Stroke per jaw: 37.5°
Gripping force (max.): < 140 N
Weight: 0.82 kg
IP class: 40
Maintenance free (max.): 10 million cycles

Gripping force safety device in case of pressure failure via integrated spring

HANDLING TECHNOLOGY

ROBOT MODULES

