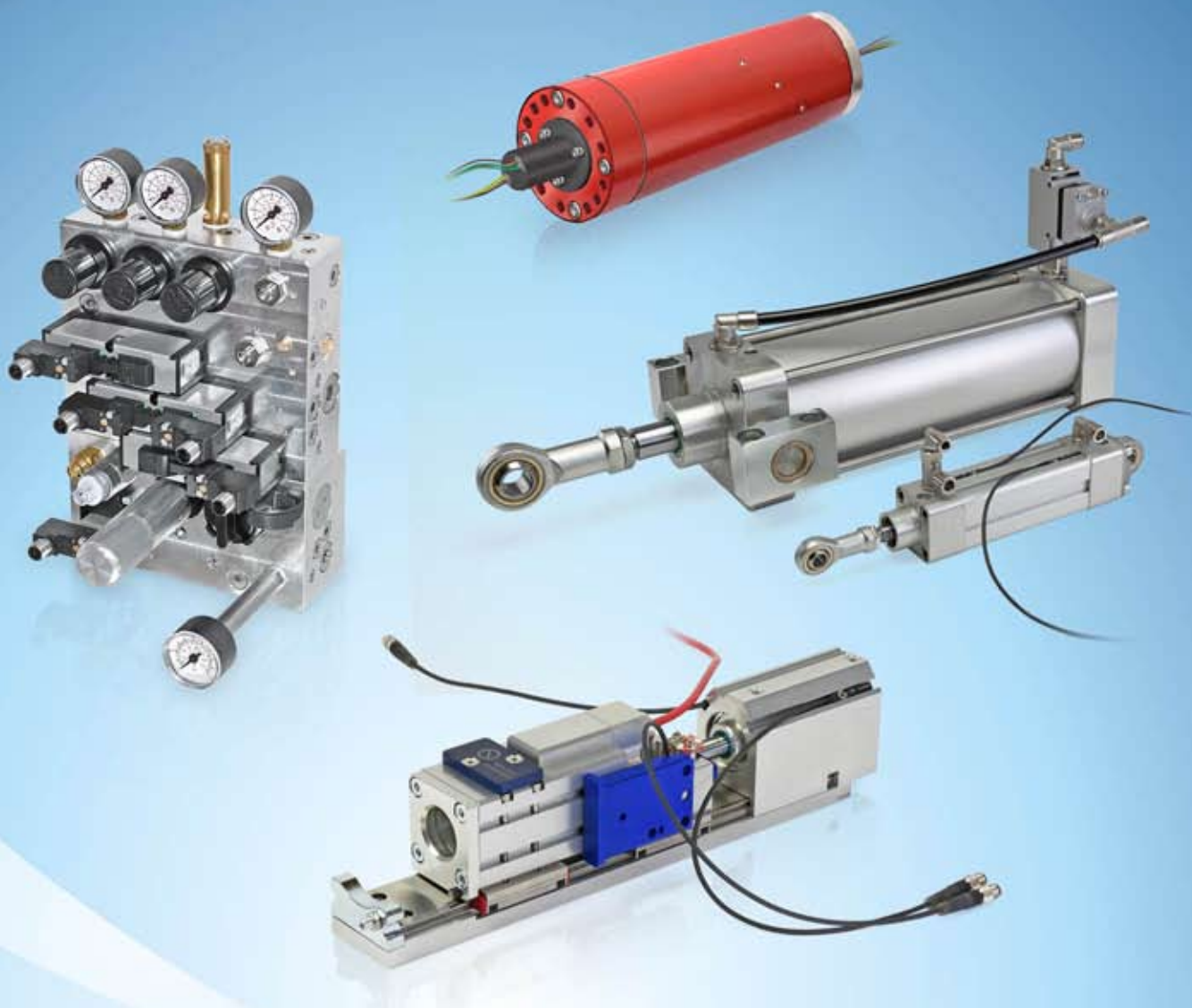


Innovations | **2021**



KONSTANDIN
PNEUMATIK • PNEUTRONIK





KONSTANDIN
PNEUMATIK · PNEUTRONIK



*We are committed to your success:
Dedicated, passionate, reliable,
Co-operative and fair.*

KONSTANDIN stands for sophisticated solutions, precision and quality in the field of special pneumatics.

We develop, plan and manufacture using the latest production facilities.

With over 40 years of experience, the very latest machinery and vertical integration, we are firmly among the top manufacturers in our industry.

Whether standard or custom solution - every product that leaves our house, boasts outstanding technology and the highest level of certified quality.



- *Highly qualified employees*
- *In-house development team*
- *Preparation of digital 3D models*
- *Use of the latest technology*
- *Prototypes and series production*
- *Custom production runs*
- *Quality certified to ISO 9001*




*Application-specific solutions by KONSTANDIN:
Fast and seamless from
concept to prototype to production!*

KONSTANDIN
PNEUMATIK · PNEUTRONIK



Our solution process, also for complex and extreme applications, places you, the customer, right at the centre.



Compact control

Pneumatic chip

ZK3116-06



Pmax:

10 bar

Actuation:

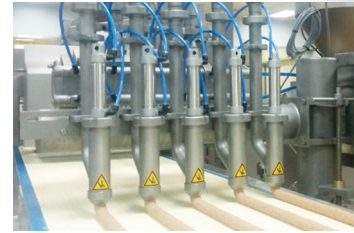
electrical and manual actuation

Components:

- Flanged directional control valves
- Integrated pressure regulators
- Start valve and ball valve
- Throttle check valve
- Non-return valve can be unlocked
- Pressure switch
- Safety relief valve
- Engraving

Advantages economy:

- Switch cabinet & hoses not required
- Shortest assembly times
- Smallest space requirements
- Assembly errors ruled out
- Fastest component change
- No machine downtime



Application
Adhesive- and
dosing technology



Low-friction cylinder



Application
Bottling plants

ZK3175-0240
R2 008-0240-SO



Piston diameter:	8 mm
Stroke:	240 mm
Pmax:	6 bar
Design:	double acting
Temperature range:	0°C to +80°C
Connection:	M5
Features:	<ul style="list-style-type: none">- Smooth running variant (extend 0.5 bar)- Magnetic piston- Static end position cushioning- Variable connection options on the floor

Balancer cylinder

AK1712-03-0710-50-01
DZS2 350-B-0710



Application:
Press construction

Piston diameter:	350 mm
Stroke:	710 mm
Pmax:	10 bar
Design:	single acting
Temperature range:	0°C to +80°C
Piston speed:	max. 1 m/s
Connection:	base 4x G1 1/4" lid 2x G2" / 4x G 1 1/4"
Features:	<ul style="list-style-type: none">- Special design cover- Lip seal- Sealing adapter- B-fixing to the floor



Brake cylinder



Application
Roller coaster

ZK3119-0030-B-SO-01

DZS1 100-0030-SO

Piston diameter: 100 mm
Stroke: 30 mm
Pmax: 10 bar
Design: double acting
Temperature range: -5°C to +60°C
Medium: compressed air

Features:

- Swivel attachment integrated in the cover
- Dynamic end position cushioning
- Inner spring for secure extension in the event of air failure
- Screw connections and valves (controlled check valve)



ZK3182-0080-A

TQZ 032-0080-SO

Piston diameter: 32 mm
Stroke: 80 mm
Pmax: 10 bar
Design: double acting, with magnet
Temperature range: 0°C to +60°C
Medium: compressed air

Features:

- Swivel mounting (bottom side)
- Dynamic end position cushioning
- Joint eye (piston rod side)
- Reed contacts
- Screw connections and valve (controlled check valve)

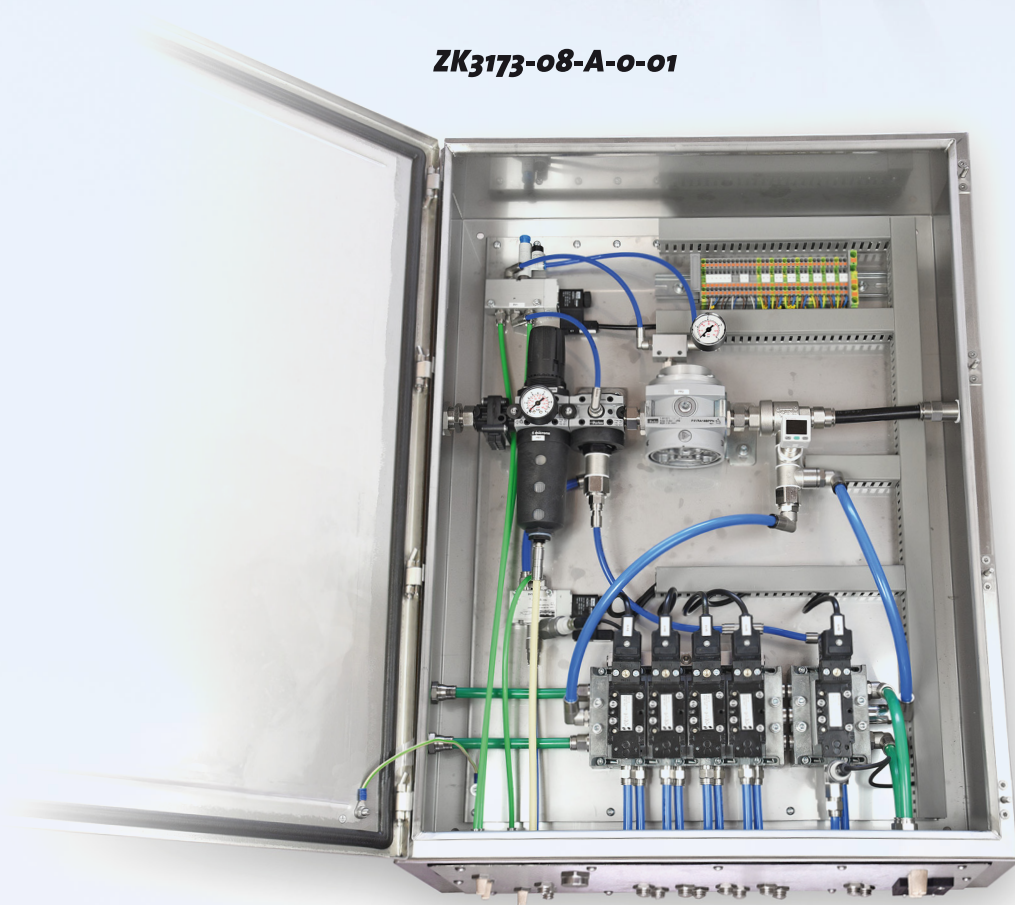


Control cabinet for brake cylinders

ZK3173-08-A-0-01



Application
Roller coaster



P_{max}: 10 bar
Temperature range: 0°C to +60°C
Connection: G 1/2"

Features:

- Stainless steel control cabinet
- Pressure monitoring
- Quick exhaust valve
- Terminal strip
- Individual equipment with ISO valves (4 to 9 pieces)



Hydraulic cylinder



Application
Coating technique

ZK1659-0145-SO-02
HZS2 125-0145



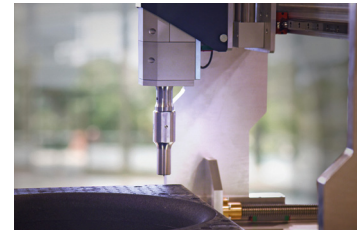
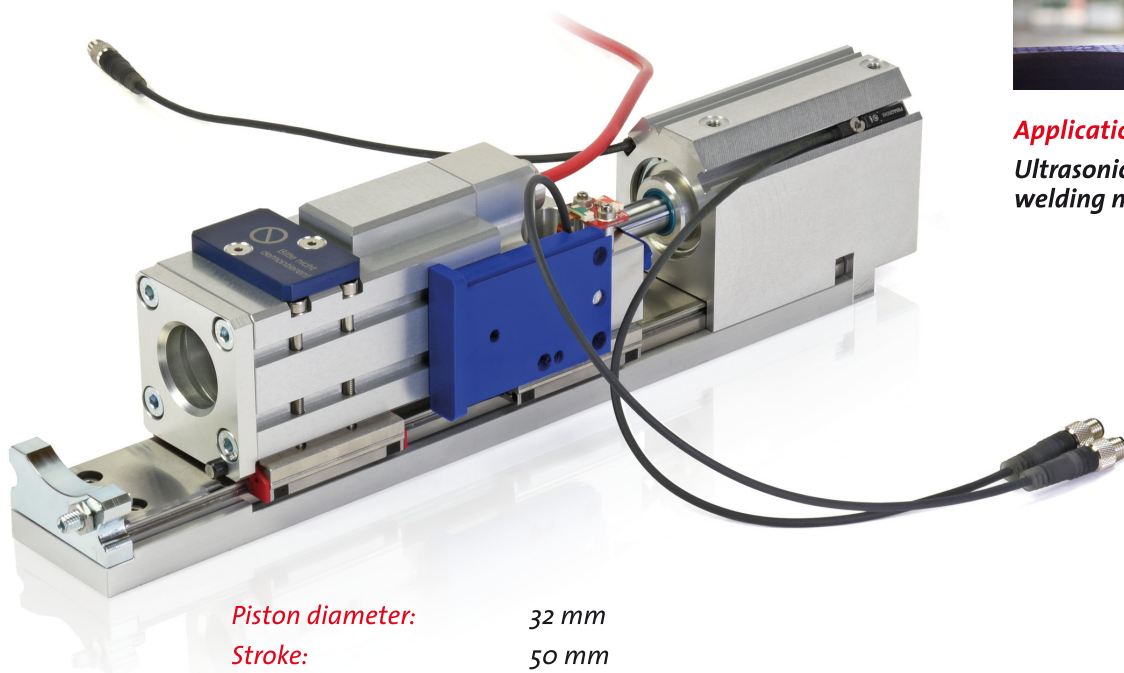
Piston diameter:	125 mm
Stroke:	145 mm
Pmax:	200 bar
Design:	double acting
Piston rods diameter:	80 mm
Connection:	G1/2"
Features:	<ul style="list-style-type: none">- Connections on both sides- Borehole for venting- Special design



Guide units

ZW4100-0050

SZS6 032-0050-T-W



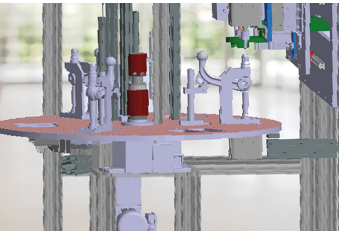
Application
Ultrasonic
welding machines

Piston diameter:	32 mm
Stroke:	50 mm
Pmax:	10 bar
Design:	double acting
Temperature range:	0°C to +60°C
Connection:	M5
Features:	<ul style="list-style-type: none">- Quick change system without tools- Integrated linear guide- Position query possible- Adjustable end position



Rotary union

Medium



ZK5109-SO-01
DDF-2-M5-SO

Application:

*Installation in rotary indexing table,
automation technology*



Channels:	2
Connection:	M5 / DIA 03
Rotation speed:	200 rpm
Rotary movement:	clocking, oscillating
Pmax:	10 bar / -0,8 bar
Medium:	Compressed air / vacuum
Temperature range:	+10°C to +80°C
Features:	<ul style="list-style-type: none">- Special geometry for installation in rotary indexing tables- Front connection on the housing to reduce the installation dimensions- Ball bearings with sealing lips

Rotary union

Medium



ZK5160
DDF-2-1/8"-SO



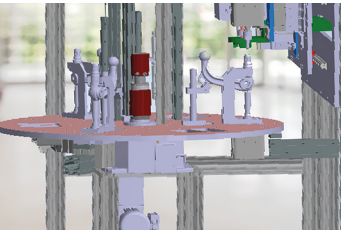
Application:
Robot application

Channels:	2
Connection:	G 1/8"
Rotation speed:	250 rpm
Rotary movement:	continuous
Pmax:	0 bar / -0,8 bar
Medium:	Compressed air / vacuum
Temperature range:	+10°C to +100°C
Features:	<ul style="list-style-type: none">- Special seals- Hollow shaft with media handover to customer shaft (DIA 40 H7)



Rotary union

Medium



Application

Installation in rotary indexing table

ZK5159
DDF-8-M5-SO



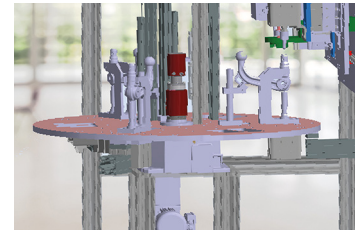
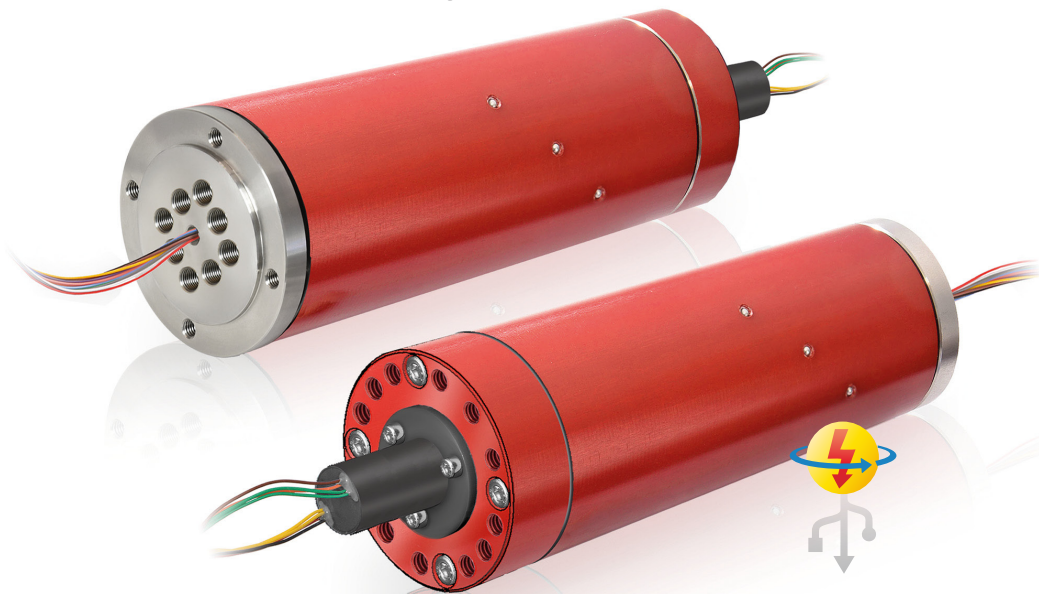
Channels:	8
Connection:	M5 / DIA 03
Rotation speed:	200 rpm
Rotary movement:	pulsed
Pmax:	8 bar / -0,8 bar
Medium:	Compressed air / vacuum
Temperature range:	0°C to +80°C
Features:	<ul style="list-style-type: none">- Special geometry (small housing diameter)- Frontal connection housing- Ball bearings with sealing lips



Electric rotary union

Medium + Electric

LK101912-18-A
DDFS 8-M5-18-SO



Application
Installation in rotary indexing table

Channels:	8
Connection:	M5 / DIA 03 (Flange)
Rotation speed:	max. 200 rpm
Rotary movement:	pulsed
Medium part:	
Pmax:	8 bar / -0,8 bar
Medium:	Compressed air / vacuum
Temperature range:	0°C to +80°C
Power part:	
Number of poles:	12
Amperage (max.):	1 A
Voltage (max.):	24 V
Cable length:	Flange: approx. 1,8 m / Housing: approx. 2,0 m
Use:	Signals (e.g. limit switches)
Cable:	Control line AWG 28
Electrical protection:	IP51
Material medium part:	
Wave:	Stainless steel 1.4305
Casing:	Anodized aluminum
Seals:	NBR (FKM possible)
Ball-bearing:	Steel

Features:

- Special geometry (small housing diameter)
- Front connection on the housing



Valve



Application
Emissions test

ZK3171
DDF-4-1 1/4"-SO



Anschluss: 1/8" NPT
Medium: compressed air
Betätigung: pneumatic
Function: 5/2 ways
Pmax: 10 bar
Temperature range: 0°C to +80°C

Features:

- Housing made of stainless steel 1.4301
- Seals: POM / FKM
- Resistant to various gases

KONSTANDIN launches into a CO₂-neutral future

Commitment and opportunity at the same time – that is the "Green Deal" in the eyes of the European Commission. But how do medium-sized companies like KONSTANDIN GmbH regard the issue of sustainability?

Even before these turbulent times, sustainable behaviour was more than just a trend. Even in times of crisis, the tasks and opportunities of the "Green Deal" do not become any less important. This is an opportunity to "rethink" the economy and to develop existing potential.



European companies in particular, and especially German companies, are more firmly committed to environmental and sustainability issues than ever before, always keeping the long-term goal of climate neutrality in their sights.

KONSTANDIN is intensifying its efforts to save energy and improve its carbon footprint

Without a doubt, climate protection is one of the greatest challenges. We need to take action now and correct our past actions to create a more sustainable world. In the past few months, we have addressed the concept of sustainability more intensively than before and have

decided to develop it further on the basis of our values and our philosophy.

For us, sustainable behaviour is mandatory for our generation, but primarily also where future generations are concerned.

Going forward, the issue of sustainability will be anchored in KONSTANDIN's strategic thinking, in order to find the respective solutions in good time. For us, remaining sustainable means acting in harmony with nature, but also continuing to innovate.

Voluntary compensation of the corporate carbon footprint

For Managing Director Jörg Konstandin, the primary goal for companies today is: "Prevent emissions extensively through sustainable management".

Since this is not always possible, countermeasures with a regional focus are set.



We would like to invite you to accompany KONSTANDIN GmbH on its journey to becoming a climate-neutral company. We post updates about the progress of the implemented measures on our homepage www.konstandin.com.

Back to nature:
Real wood floors in German oak
and wall elements made of stone
pine in the construction,
conference and office rooms of
KONSTANDIN GmbH



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