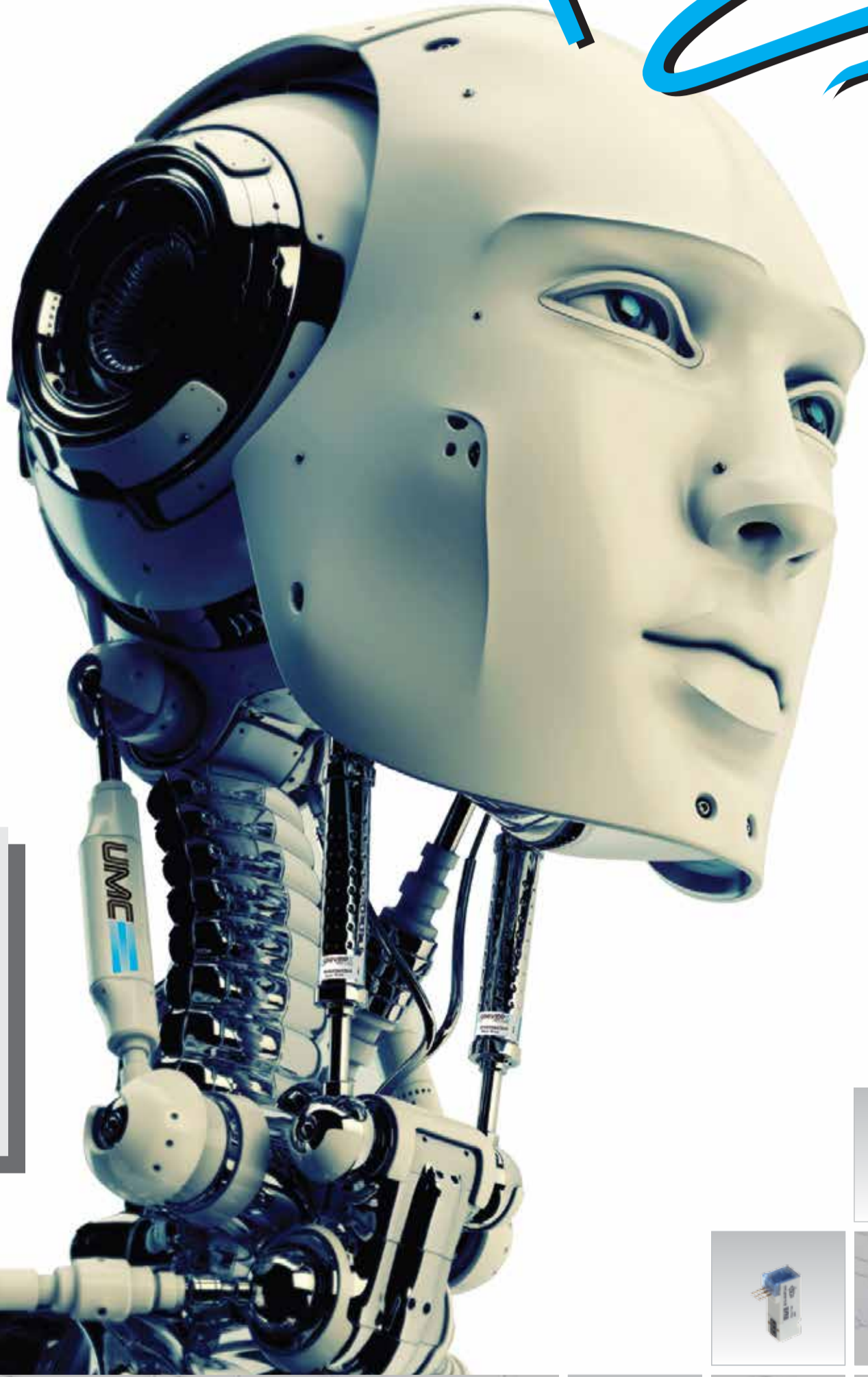
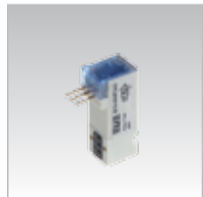


# UNIVER® news



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**NEW**  
**KL**

**CLEAN PROFILE**  
Easier to clean

**QUICK INSTALLATION**  
Sensors and connections on one side

**UNIVER TECHNOLOGY**  
Strong and Reliable

**ISO 15552**  
Interchangeability



## KL Series ISO Cylinders

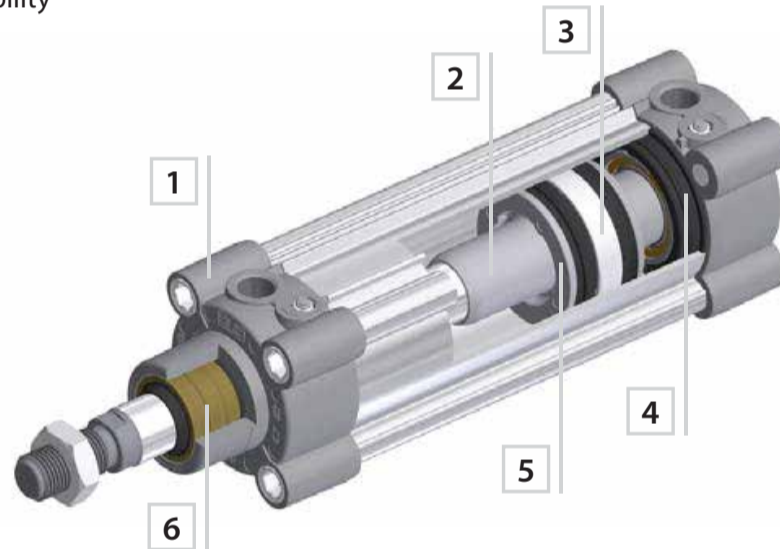
The new Univer KL Series cylinders are manufactured in accordance with ISO 15552 dimensional standards and are available in bore sizes 32mm to 125mm. The KL range has been designed with a new clean-line, aluminium profile in order to reduce weight. KL models are interchangeable with existing Univer K and KD series, however KL cylinders can now accommodate all Univer sensor types.

The existing K series cylinders are designed to accept DH type Reed and PNP switches, which are mounted onto the external corners of the cylinder by means of a "C" shaped bracket.

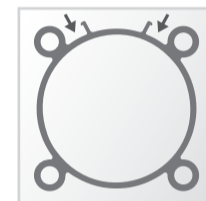
The existing KD series cylinders are designed to accept DF type Reed and PNP switches, which are flush mounted within the extrusion, requiring no bracket.

The new Univer KL Series cylinders, which are dimensionally interchangeable with the existing Univer K and KD series allow both DF and DH type Reed and PNP switches to be fitted to the extrusion.

The new KL cylinder, which incorporates the same flexible Bearing/Nose Seal technology as our existing models, has been introduced to meet the demands of high volume users.



- 1 Die-cast end caps in aluminium alloy
- 2 Die-cast piston in aluminium alloy
- 3 Guide slide in acetalic resin with integrated magnetic ring
- 4 Wear-resistant shock absorbers seals in nitrilic rubber compound
- 5 Lip piston seals in nitrile rubber compound
- 6 UNIVER Original self-aligning and self-lubricating guide bush for piston rod



Tube profile with integrated sensor grooves  
UNIVER Original since 2005



Recessed sensor DF series



Magnetic piston standard supplied



Fixing screws integrated in the end cap profile



Sensors mountable in multiple orientations



Possibility to mount DH sensors with brackets



Intermediate hinge with locking system guaranteed by UNIVER AUTOMOTIVE expertise



**KIT** Assembly Kit available for all series

# What's New About W Series Compact Cylinders?



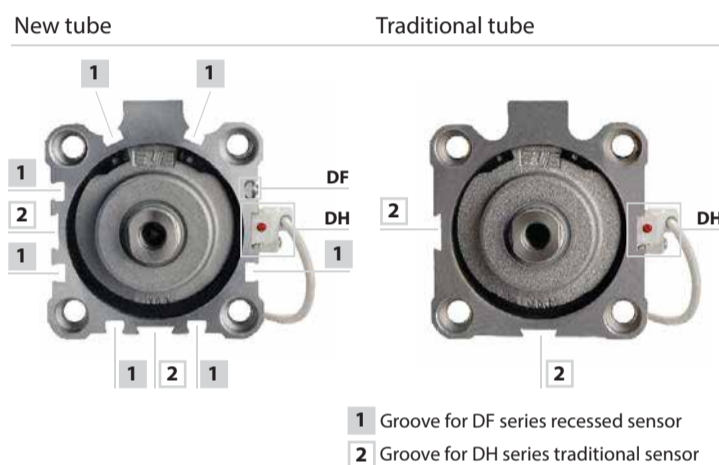
Pneumatic Cylinders

The popular W Series cylinder was introduced back in 1994 and has been a huge success in the world market. Whilst many of our competitors were battling to introduce the most "compact" cylinder in the market, Univer identified a growing need for heavy duty versions.

Traditionally compact cylinders were used for clamping purposes and such applications were rarely subjected to side load forces. However, as the trend for miniaturisation grew, Univer discovered the need for a more robust design and the market for W series, heavy duty cylinders expanded rapidly.

The new W series design now accommodates DF sensors, which fit flush into the new extrusion, as well as the traditional DH sensors. This allows the cylinders to be installed into tighter spaces.

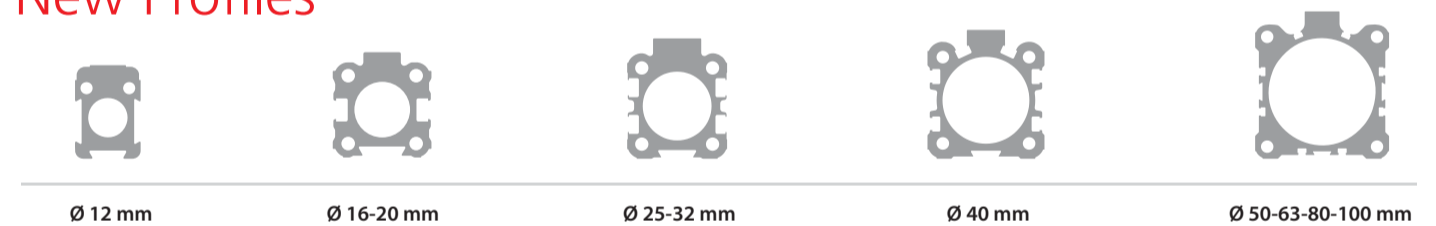
Ø 12 - 100 mm - Short stroke cylinders  
NEW TUBE DESIGN



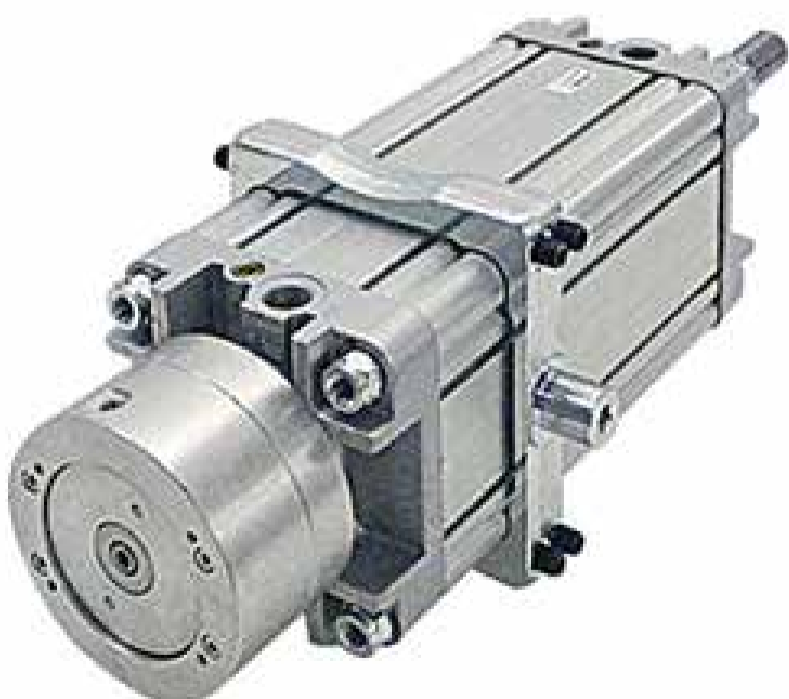
### FIXING ELEMENTS AND ACCESSORIES

Ø	Nipple	DF sensor and DHF covering strip	Cable clamping for DF sensor	DH sensor
12	WF-50012	DF DHF-0020100	DF-001	DH
16	WF-50012			
20	WF-50020			
25	WF-50020			
32	WF-50032			
40	WF-50040			
50	WF-50050			
63	WF-50063			
80	WF-50080			
100	WF-50080			

## New Profiles



## New Ø160 & 200mm NFZ Series Cylinders with Locking Units



NFZ cylinders incorporate a mechanical locking unit at the rear of the cylinder, which is connected to an internal screw. The screw is attached to the rear end cap and extends into the cylinders hollow piston rod. As the piston rod moves the screw rotates.

The Locking Unit applies an external braking force onto the rotary screw stopping the piston rod in the desired position.

NFZ cylinders are now available in all bore sizes from 32mm to 200mm.

**Ø160 & 200**

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# Locking Unit with Optical Position Sensor

Locking units are now available fitted with an optical sensor (optional) for positional control. This allows the PLC system to verify when the locking unit is in the 'lock' or 'released' position.



**ORIGINAL**

Locking system UNIVER Original since 1998

**STATIC/DYNAMIC**

Static locking and dynamic braking in a single device

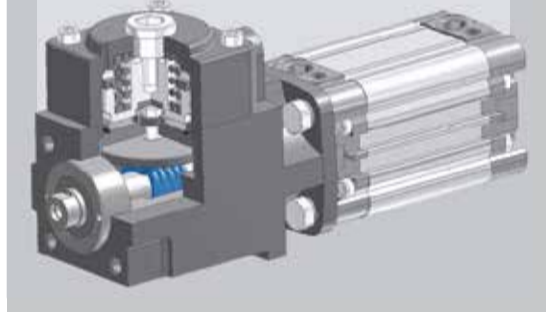
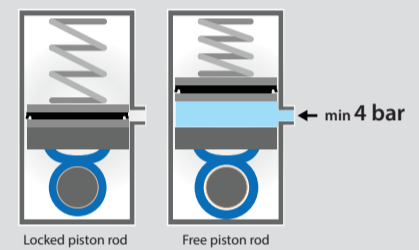
**POWERFUL**

The highest locking force among market equivalent devices

**SAFE**

No rod slipping even if affected by oil and grease

**Working principle**



## The NEW YMP 30 Series Gripper

The new low profile gripper has specifically been designed for high load applications with minimal space. A hardened steel guide with roller bearings is ideal for side loads whilst maintaining high accuracy. YMP 30 grippers are available in three bore sizes:

**Ø12 - 16 - 20mm**

Low profile parallel pneumatic gripper with linear guide



Part No.	Ø	Max frequency (cycles/min)	Gripping force (N)*		Stroke (mm)	Sensor
			Opening	Closing		
YMP30012	12	180	48	48	12-2-48	DF-T 200
YMP10016	16	180	91	91	16-32-64	
YMP10020	20	(long strokes)	138	138	20-40-80	

\* = Gripping force at 5 bar, gripping point 30 mm

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# New Additions to B Series NANO Valve Family

NANO Valves

Two new members to the NANO valve family include the high power B11, for higher pressure applications, and the B12 for high flow applications. The B12 provides 100% more flow in comparison to NANO valves. All NANO versions are now available with flying leads.



Standard

Low consumption

High flow rate

Magnetic memory

**B11**

**NEW**

**B10**

**B12**

**NEW**

**LATCHING**

1 w  
15 NI/min



0,3 w  
15 NI/min



0,6 w  
30 NI/min

Special version  
40 NI/min



Energizing through short impulse, de-energizing through the same impulse with inverted polarity.



## Connector Options



Manual override (standard)



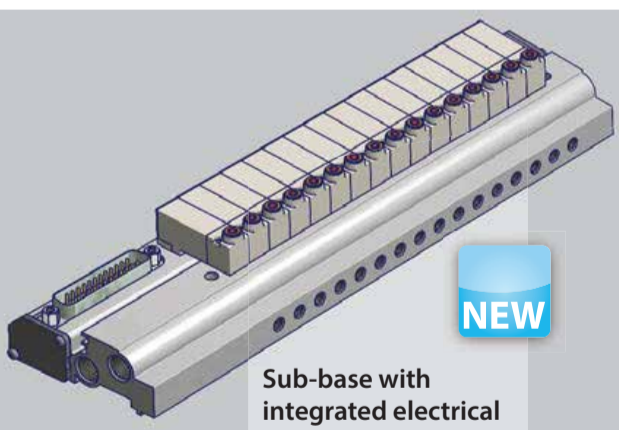
No override (upon request)



ISO 15218 interface



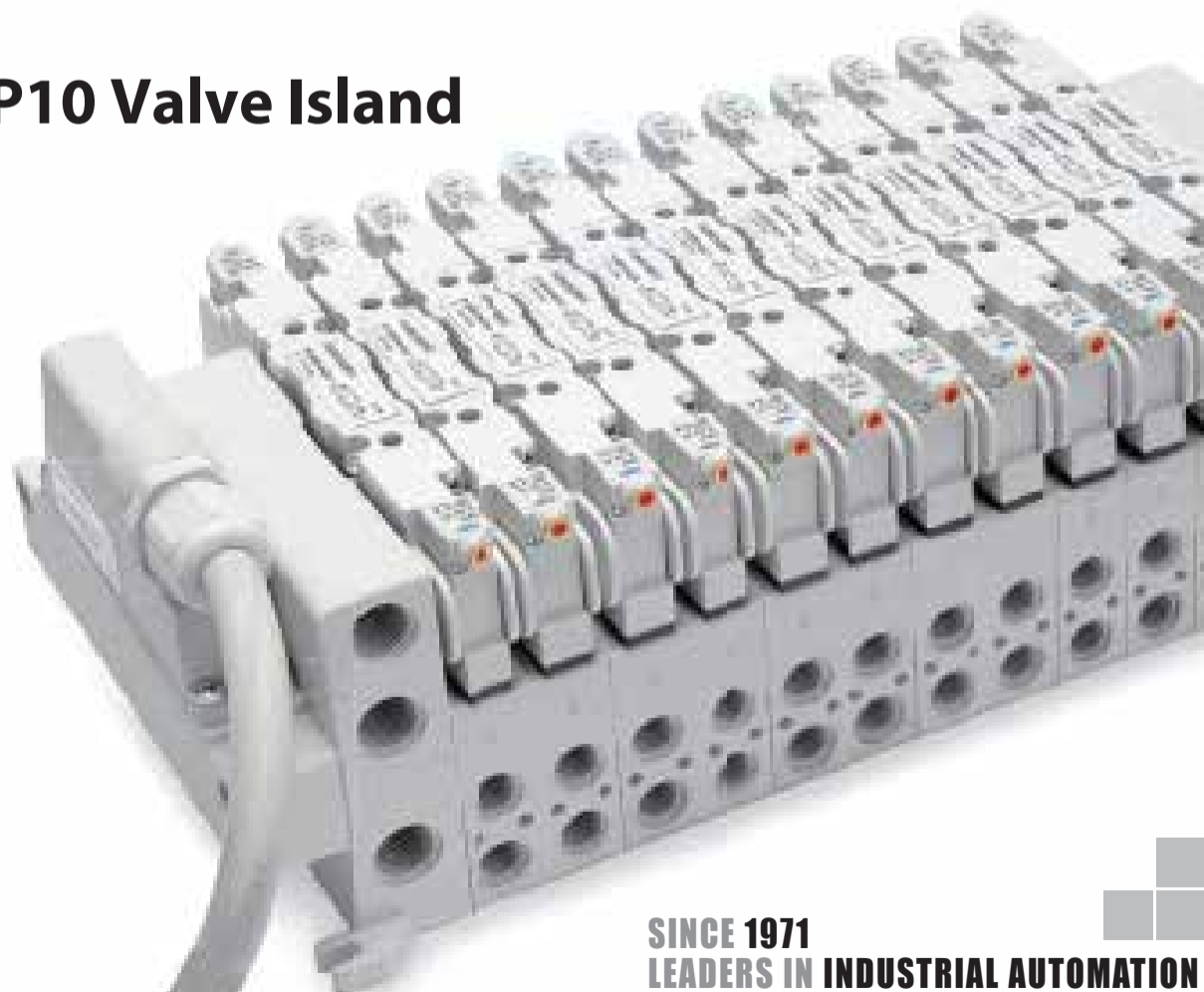
LED



**NEW**

Sub-base with integrated electrical connection

## P10 Valve Island



The new B11 NANO valve will shortly be available as standard on all P10 & P15 valves

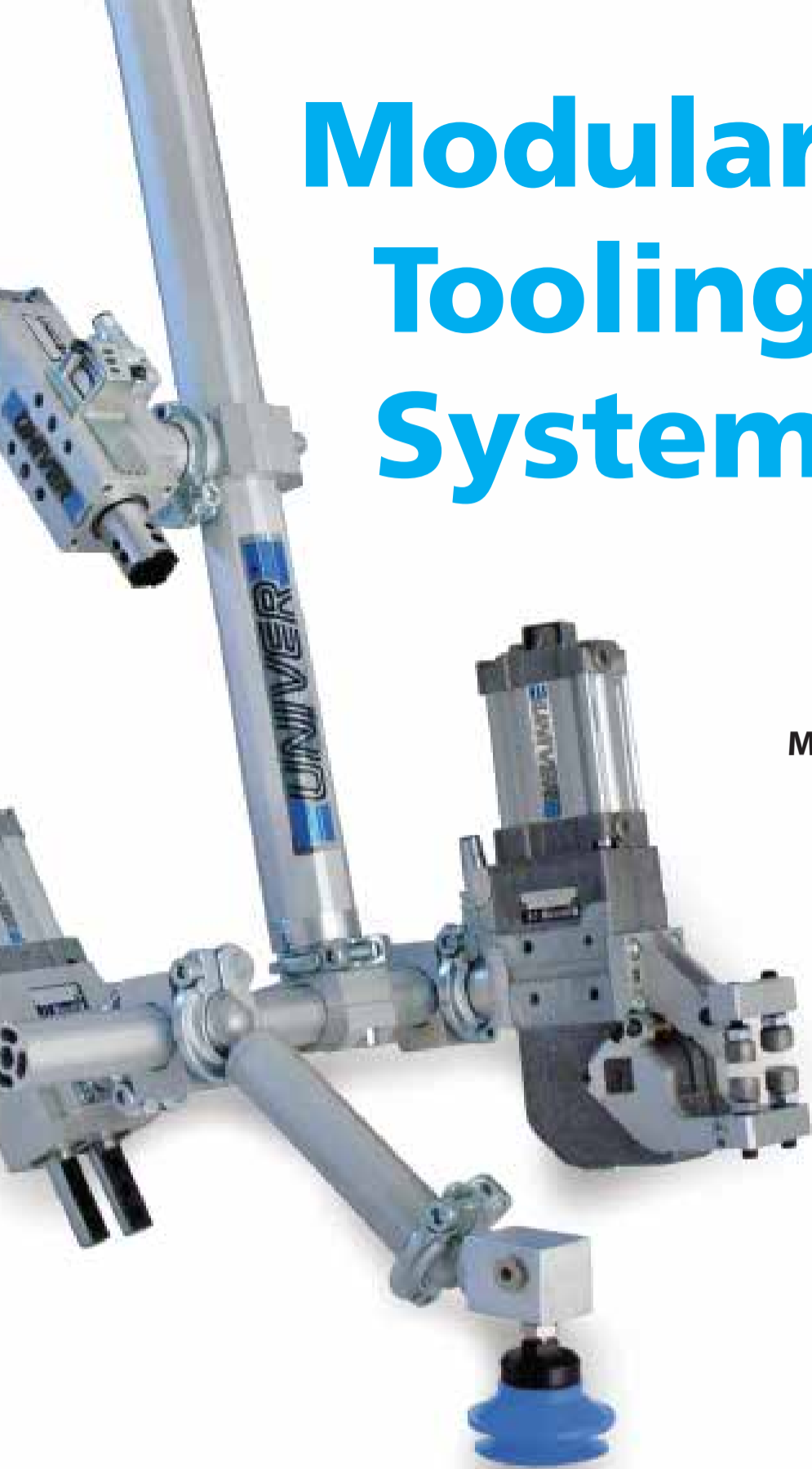
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# Modular Tooling System

**NEW** PATENT PENDING



Automotive Clamps



## HIGH PRECISION

High level of positional repeatability;  
low deflection

## MODULAR COMPONENTS

Considerable reduction of mounting  
components

## QUICK INSTALLATION AND SET UP

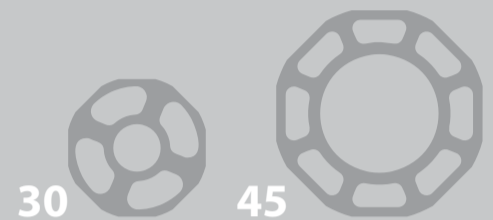
No welding or doweling required,  
easily replaceable components

## FULLY ADJUSTABLE

Unlimited orientation in space and  
free configurations

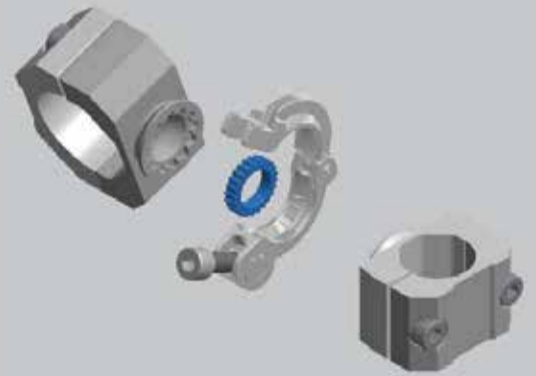
### Ø 30 and 45 booms

Maximum stiffness and minimum weight  
optimization



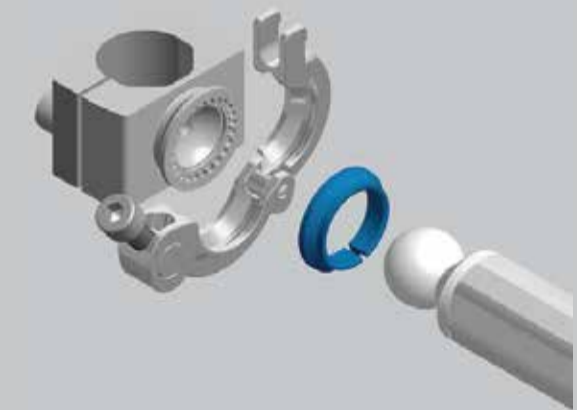
### Locking ring

Precise and efficient system to guarantee a  
high level of positional accuracy



### Ball mounting

Unlimited swivel rotation



## NEW Electrical Clamp

### STEPLESS ADJUSTMENT

Opening angle adjustment 0 ÷ 135°

### LIGHT-WEIGHT

Clamping arm and clamp housing in aluminium alloy

### UNIVER ORIGINAL LINKAGE DESIGN

Ensures positional repeatability

### UNIVER ORIGINAL METAL SENSOR

Metal case

M12 swivel connector

## Industry Approved

UNIVER power clamps  
meet the requirements of  
the Automotive and sheet  
metal industries; they are  
mostly used for sheet  
metal handling, BIW  
applications and welding  
fixtures production.

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