

PNEUMATIC LOCATING PIN UNITS

Pneumatic retractable locating pin unit, typically used in welding applications to locate metal sheets in a definite position.

Available version with hand lever and toggle-joint mechanism

- Metal rod scraper on single shaft only
- Antirotation system
- Electronic sensor with M12 swivel connector or pneumatic sensor



UNICLAMP
next generation

MILLIONS OF CYCLES

3 Millions of operations granted with no maintenance required



QR CODE

Helps identify products quickly and easily



LIGHTWEIGHT

Housing in aluminium alloy
The lightest among market equivalent devices



REDUCED DIMENSIONS



DOUBLE GUIDE

Precision





COMPACT SIZE 32

Pneumatic pin unit with very compact overall dimensions

- Pneumatic with side or rear sensor $\varnothing 32$ mm



SINGLE AND DOUBLE ROD

Standard range of pin units offering many version combinations with single or double rod and equipped with hand lever for manual operations

- Pneumatic $\varnothing 40-50-63$ mm
- Pneumatic with hand lever $\varnothing 50$ mm
- Manual 50 mm
- Wide range of shaft-ends



IRREVERSIBLE

Pin units equipped with toggle-joint mechanism to maintain the position even with lack of air

- Single and double rod $\varnothing 40-50$ mm
- With hand lever $\varnothing 40-50$ mm



CNOMO STANDARD

Pin unit construction meeting CNOMO Standard

- Single rod $\varnothing 50-63$ mm
- With hand lever $\varnothing 50$ mm

DOUBLE ROD VERSION

180° ORIENTABLE RODS

Possibility to self-orientate the rods 180°
Stock reduction

METAL ROD SCRAPER

Protecting from the entry of dust and
welding debris

OPTICAL SENSOR

High precision system
No adjustment required

CHROMIUM-PLATED STEEL RODS

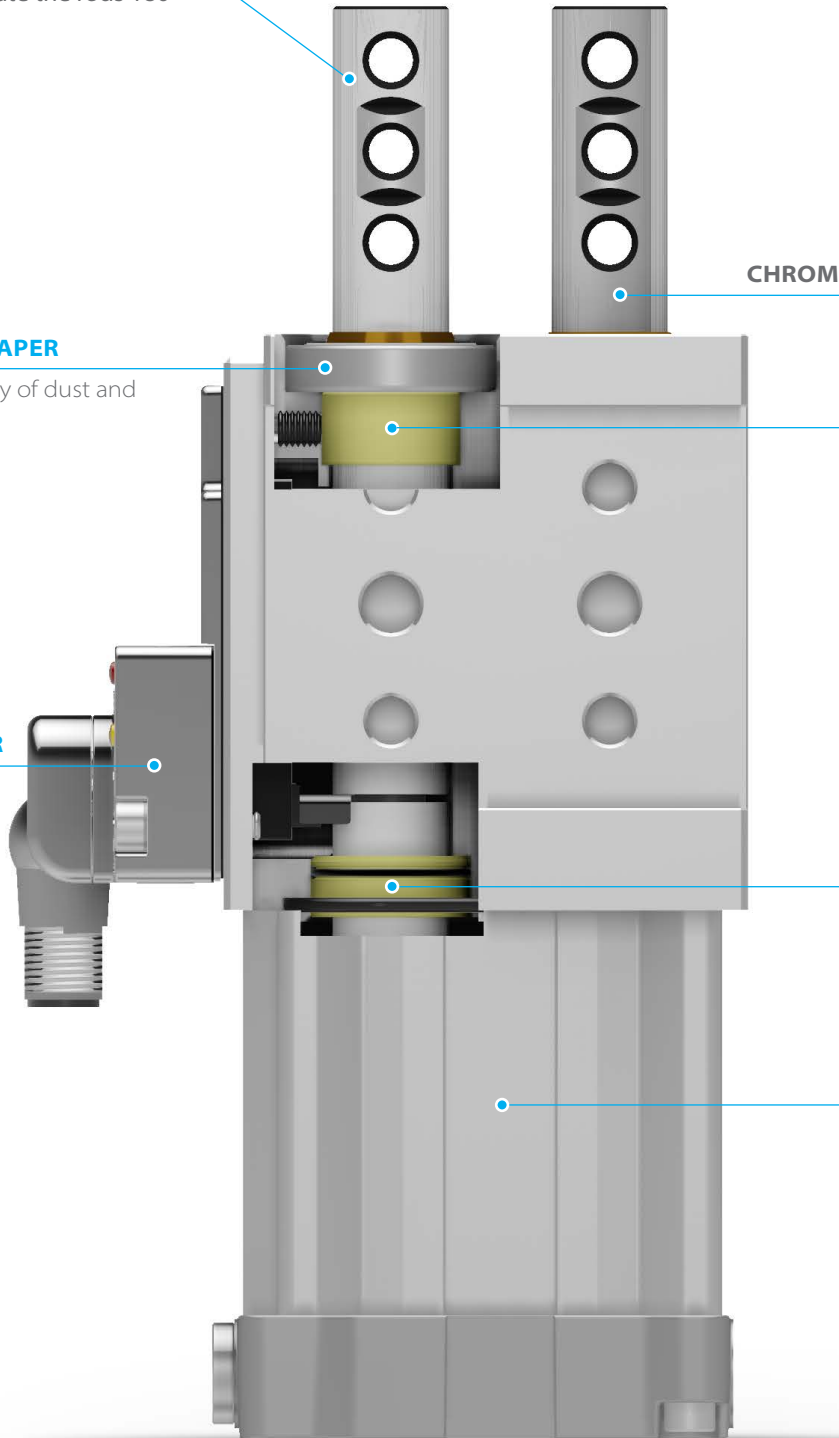
Preventing deterioration
and corrosion

DOUBLE GUIDE

Radial backlash free
Precision

REDUCED DIMENSIONS

Compact end covers



LOCATING PIN UNITS FEATURES

IRREVERSIBLE VERSION

ORIENTABLE ROD

Possibility to self-orientate the rods 180°
Stock reduction

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CHROMIUM-PLATED STEEL RODS

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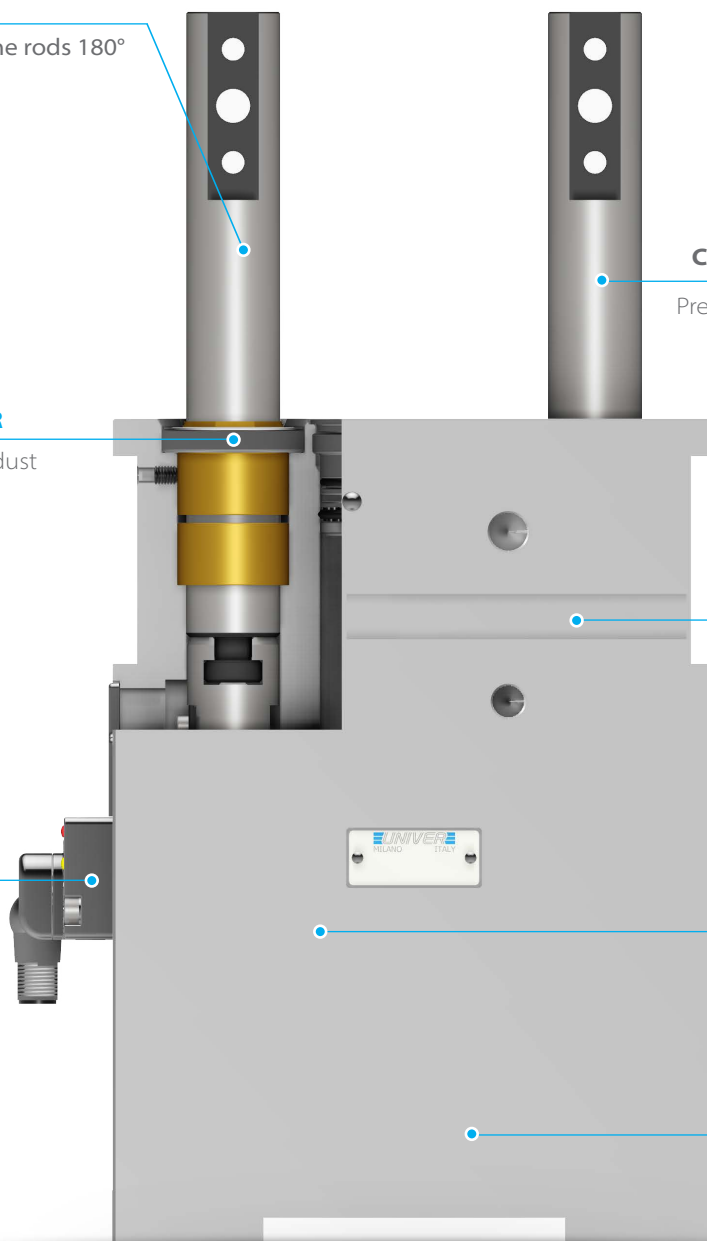
DOUBLE GUIDE

Radial backlash free
Precision

COMPACT DIMENSIONS

TOGGLE-JOINT

Irreversible rod extend position
High trust force





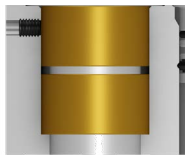
METAL ROD SCRAPER

To prevent dust and welding debris entering the unit body, each piston rod is equipped with a metal rod scraper



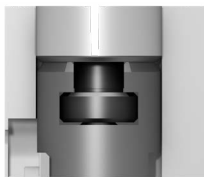
ANTIROTATION SYSTEM

Radial cylindrical ball-bearings enable the shaft not to rotate axially and guarantee positioning precision



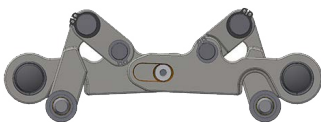
DOUBLE GUIDE

Internal piston rod double guide assures zero radial backlash and positioning precision



ORIENTABLE RODS

The piston rods on double rod models are 180° orientable by the user to offer installation flexibility and stock reduction



IRREVERSIBLE

Models equipped with the UNIVER original toggle-joint mechanism guarantee irreversibility of the extended piston rod and high thrust force

Irreversible even with lack of air and without external stops



OPTICAL SENSOR

Fully metal body

One single sensor for the whole range of products

IP67 protection

M12 swivel connector (0-90°)

High precision

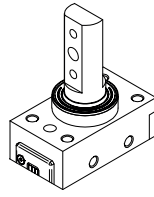
No set up

Two-parts design: electronic part outside the unit (available as spare part), optical part inside the unit (no touch point)

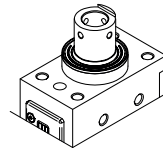
Insensitive to high magnetic fields, typical of new and modern welding systems like aluminium welding

Industry-recognized, tested and proven sensor

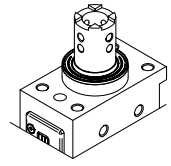
LOCATING PIN UNITS RODS



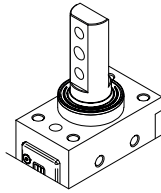
Rod for off-set pins



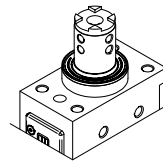
Profiled end



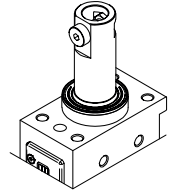
Cross-profiled Ø16



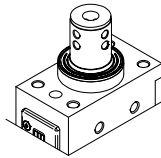
Oversized dowel holes



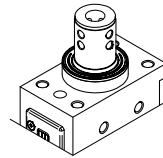
Cross-profiled Ø10



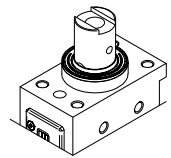
NAAMS COMPATIBLE Ø16



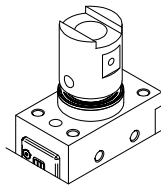
Flat Ø10



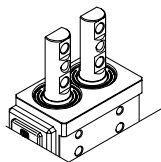
FLAT Ø12



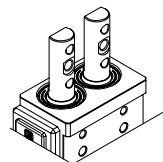
CNOMO Ø12



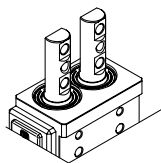
CNOMO Ø20



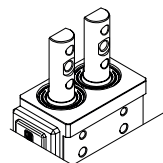
ROD FOR OFFSET PINS
2 SCREWS - 1 DOWEL



ROD FOR OFFSET PINS
1 SCREW - 2 DOWELS



ROD FOR OFFSET PINS
(ROD PLANE MATCHING
BODY MIDDLE AXIS)
2 SCREWS - 1 DOWEL



ROD FOR OFFSET PINS
(ROD PLANE MATCHING
BODY MIDDLE AXIS)
1 SCREW - 2 DOWELS

COMPLEMENTARY PRODUCTS



PNEUMATIC SENSOR

- Compact design
- Fully metal body
- Easy to be replaced
- One-piece construction



HAND LEVER

- Ergonomic design
- Welding debris resistant

ULB 32

Pneumatic retractable locating pin unit, single rod, Ø32 mm with rear sensor

Pneumatic retractable pin unit, single rod, with rear sensor typically used on grippers and in welding applications to locate metal sheets in a definite position.

- Metal rod scraper
- Antirotation system
- Double guide to avoid backlash
- Optical sensor
- Many rod end styles available
- Sensor placed in rear position to facilitate installation when assembled on EOAT



3

CHARACTERISTICS

Operating temperature	5° ÷ 45° C
Min./Max. operating pressure	0,4 / 0,6 MPa
Bore Ø	32 mm
Max Pull force (0,5 MPa)	300 N
Max Push force (0,5 MPa)	390 N
Max. Torque (6 Nm)	± 0,06 mm
Max. Deflection (5,5 Nm)	± 0,03 mm
Weight	1,0 Kg
Pneumatic supply ports	G 1/8
Sensor	electronic (optical)
Supply voltage	10 ÷ 30 Vdc
IP code	IP 65

CODIFICATION KEY

UL | B | 32 | 040 | B | K | 0 | |

1 2 3 4 5 6 7 8



LIGHTWEIGHT



METAL SCRAPER



OPTICAL SENSOR



DOUBLE GUIDE



ANTI ROTATION



COMPACT

1 SERIES
UL = UNICLAMP locating pin unit

2 VERSION
B = Pneumatic, rear sensor, single rod

3 SIZE
32 = Ø32 mm

4 STROKE
020 = 20 mm
040 = 40 mm

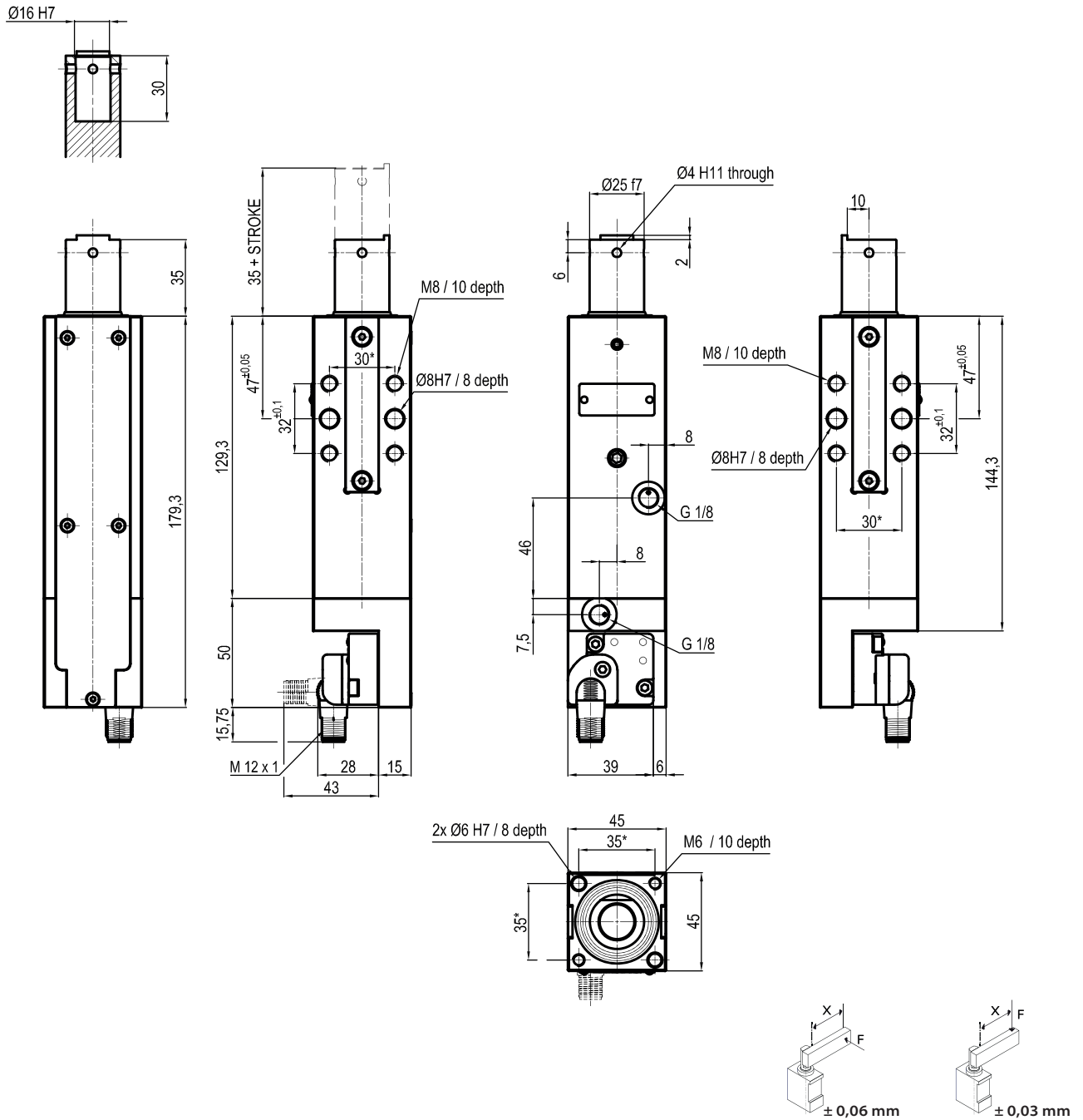
5 ROD END STYLE
B = Rod with profiled end
C = Rod with cross-profiled end inner Ø16 mm
E = Rod with cross-profiled end inner Ø10 mm

6 SENSOR
N = No sensor (with protection plate)
K = Electronic sensor PNP, M12 (DF-K)
J = Electronic sensor NPN, optical (DF-J)
Y = Electronic sensor PNP, M12 (DF-Y) white LED

7 PRODUCT REVISION
Assigned by UNIVER

8 ATEX
X = ATEX option
See ATEX Catalogue for types and versions

B Rod with profiled end



*TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1

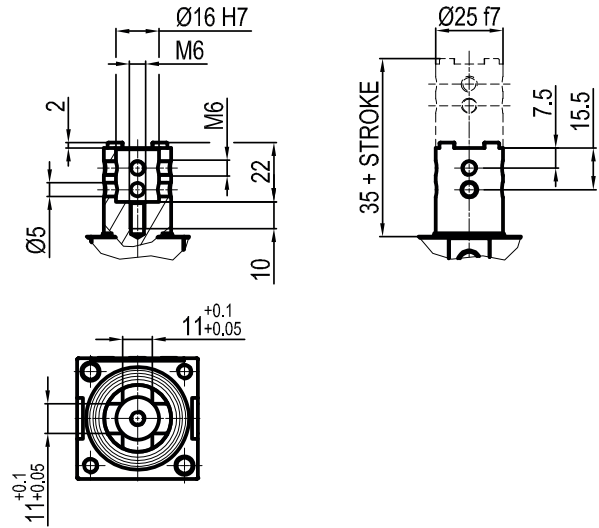
Sensors



Electronic (optical)

- DF-K PNP M12
- DF-J NPN M12
- DF-Y PNP M12 White LED

C Rod with cross-profiled end
Inner Ø16 mm



E Rod with cross-profiled end
Inner Ø10 mm

