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







COMPACT SIZE 32

Pneumatic pin unit with very compact overall dimensions

- Pneumatic with side or rear sensor Ø32 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 Ø40-50-63 mm
- Pneumatic with hand lever Ø50 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 Ø40-50 mm
- With hand lever Ø40-50 mm



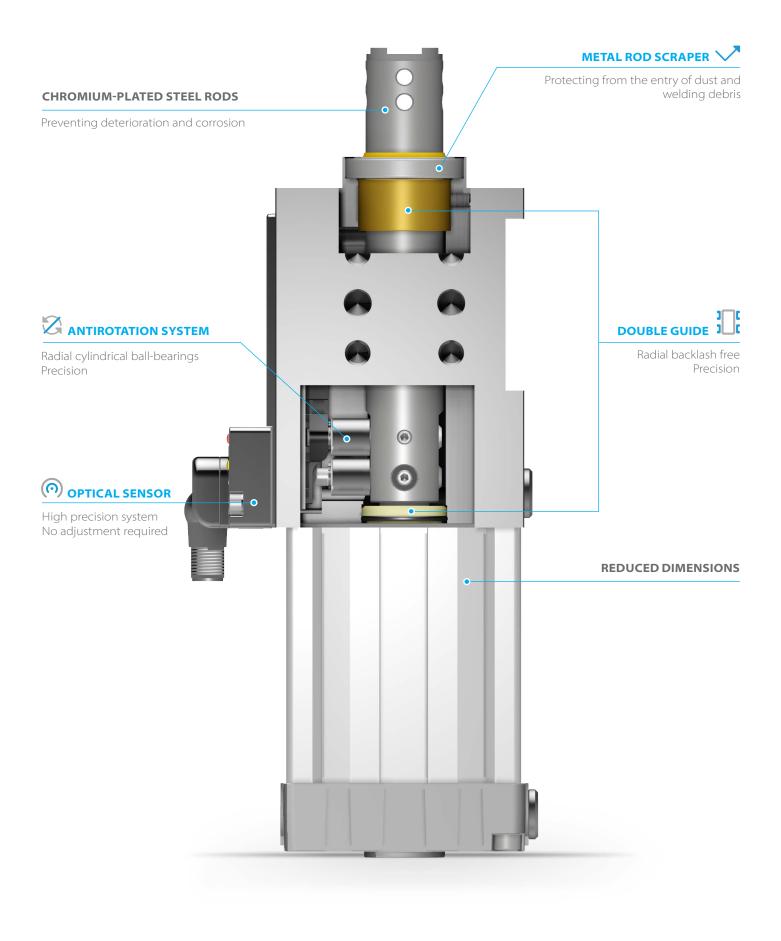
CNOMO STANDARD

Pin unit construction meeting CNOMO Standard

- Single rod Ø50-63 mm
- With hand lever Ø50 mm

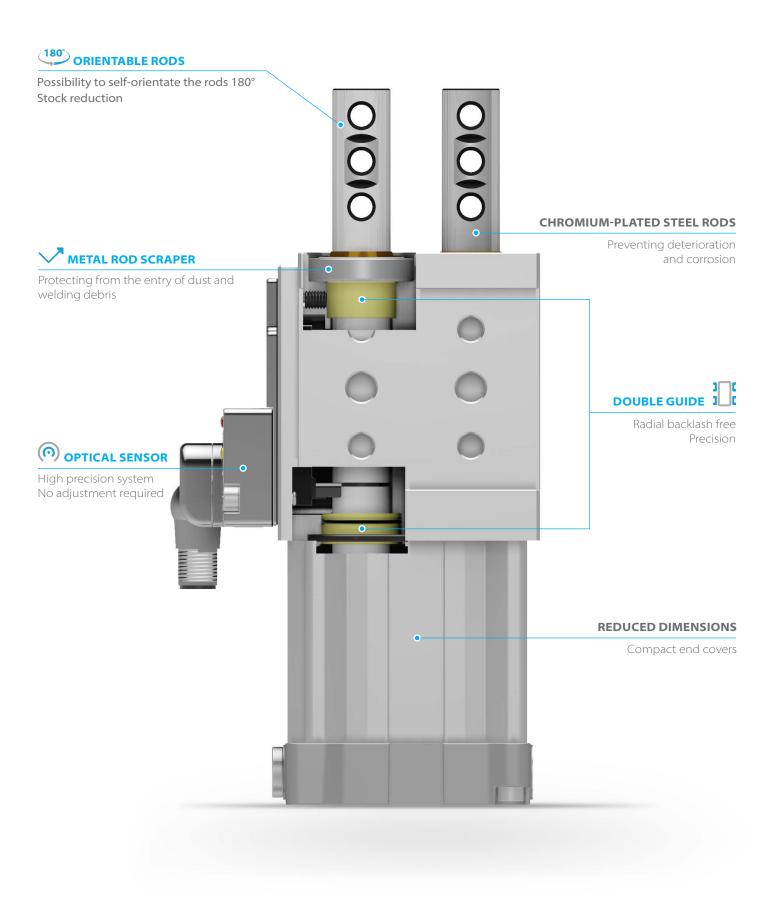
LOCATING PIN UNITS FEATURES

SINGLE ROD VERSION





DOUBLE ROD VERSION

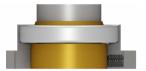


LOCATING PIN UNITS FEATURES

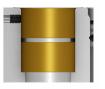
IRREVERSIBLE VERSION











METAL ROD SCRAPER

To prevent dust and welding debries 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 mechanismguarantee 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









Profiled end







Cross-profiled Ø16



NAAMS COMPATIBLE Ø16



CNOMO Ø12

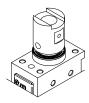
Oversized dowel holes



Flat Ø10



FLAT Ø12



CNOMO Ø20





ROD FOR OFFSET PINS 2 SCREWS - 1 DOWEL



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



ROD FOR OFFSET PINS 1 SCREW - 2 DOWELS



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

COMPLEMENTARY PRODUCTS



PNEUMATIC SENSOR

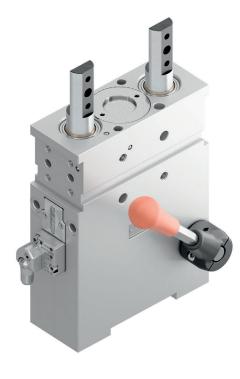
Compact design Fully metal body Easy to be replaced One-piece construction



HAND LEVER

Ergonomic design Welding debris resistant

UNICLAMP









ULX 50

Irreversible pneumatic retractable locating pin unit, double rod, Ø50mm with hand lever

Irreversible pneumatic retractable locating pin unit, double rod, typically used in welding applications to locate metal sheets in a definite position.

- Metal rod scraper
- Optical sensor
- Rod orientation adjustable by the user

CHARACTERISTICS

Operating temperature	5° ÷ 45° C
Min./Max. operating pressure	0,4 / 0,6 MPa
Bore Ø	50 mm
Min. Pull force (0,5 MPa)	500 N
Max Push force (0,5 MPa)**	7150 N
Max. Torque (20 Nm)	± 0,1 mm
Max. Deflection (20 Nm)	± 0,07 mm
Max. side load	400 N
Max. deflection (40 mm stroke at max. load)	0,1 mm
Max. offset (from middle point)	200 mm
Weight	7,3 Kg
Pneumatic supply ports	G1/8
Sensor	electronic (optical)
Supply voltage	10 ÷ 30 Vdc
IP code	IP 65
**Max. push force at end stroke position	

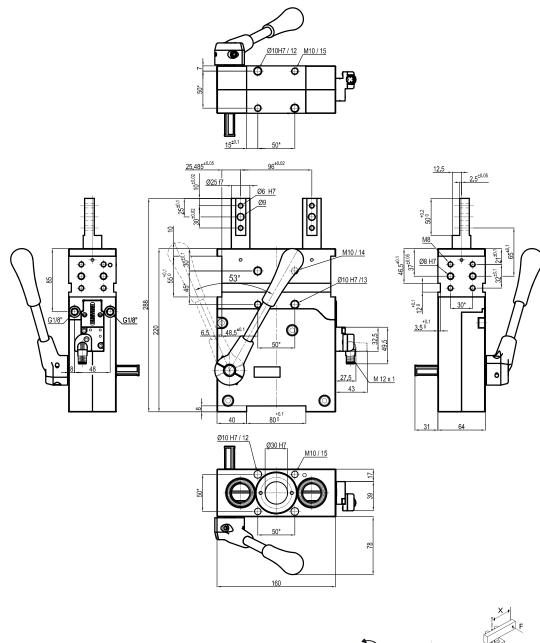
CODIFICATION KEY

UI 1	L X 50 040 G K 0 2 3 4 5 6 7 8		
1	SERIES UL = UNICLAMP locating pin unit	6	SENSOR N = No sensor (with protection plate) K = Electronic sensor PNP, M12 (DF-K)
2	VERSION X = Pneumatic, with toggle-joint mechanism double orientable rod and hand lever		J = Electronic sensor NPN, optical (DF-J) Y = Electronic sensor PNP, M12 (DF-Y) white LED
		7	PRODUCT REVISION
3	SIZE		Assigned by UNIVER
<u> </u>	50 = Ø50 mm		
		8	ATEX
4	STROKE	-	X = ATEX option
	040 = 40 mm		See ATEX Catalogue for types and versions
י 			I
5	ROD END STYLE		
	 A = Rod for offset pins G = Rod for offset pins (rod plane matching body middle axis) 		



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Rod for offset pins



X = 100 mm

± 0,07 mm

Max. deflection moment 20 Nm X = 100 mm

*TOLERANCE BETWEEN DOWELS \pm 0,02 BETWEEN SCREW HOLES \pm 0,1

Sensors



Electronic (optical)

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

3

Accessories



Handlever

Α





G

Rod for offset pins Rod plane matching body middle axis

