PNEUMATIC POWER CLAMPS

Pneumatic power clamps with compensation system, toggle-joint mechanism and stepless adjustable opening angle, tipically used for handling and holding metal sheets in welding applications, including the most demanding aluminium welding applications, characterized by high magnetic fields and fine dust:

- Fully adjustable opening angle
- Electronic sensor with M12 swivel connector or pneumatic sensor

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- Self-holding device for open position upon request
- ATEX version available

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AND NUMBER OF STREET

UNIVER





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

> A toggle-joint mechanism maintains the position even with air lack

COMPENSATION Allowing clamping of different thickness







Wide range of power clamps meeting the European standards, available in various versions:

- Pneumatic Ø 40 50 63 80 mm
- Pneumatic with hand lever Ø 40 50 63 80 mm
- Manual size 50 63 mm
- Double arm Ø 40 63 mm
- Fully protected version Ø 40 50 63 80 mm





Pneumatic power clamps meeting NAAMS standard (North American Automotive Metric Standard) available in both standard version and version with hand lever:

- Pneumatic Ø 50 - 63 - 80 mm

- Pneumatic with hand lever Ø 50 - 63 - 80 mm

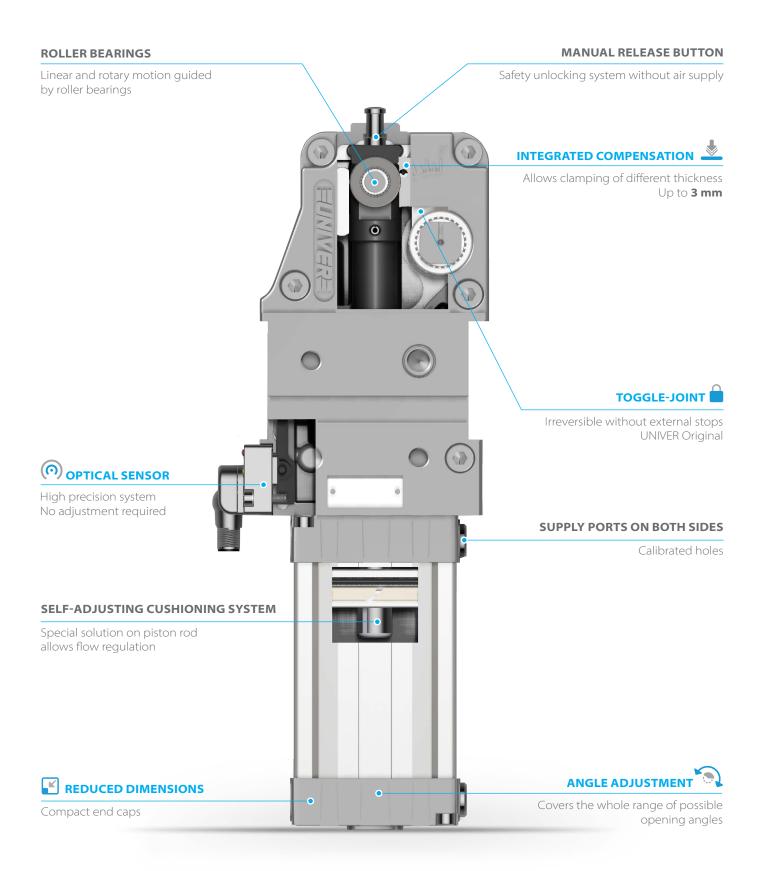




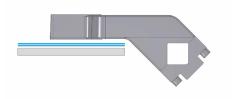
Air saving power clamps assuring a relevant reduction in air consumption without affecting the standard performances required from the market:

- Pneumatic size 32 40 50 63 80 mm
- Pneumatic with hand lever size 32 40 50 63 80 mm
- NAAMS Pneumatic size 50 63 80 mm
- NAAMS Pneumatic with hand lever size 50 63 80 mm

POWER CLAMPS FEATURES













INTEGRATED COMPENSATION

The original UNIVER integrated compensation system allows to compensate metal sheet thickness variations up to 3 mm

No need to modify the shims in case of clamping of different metal sheets inside the compensation range

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

ANGLE ADJUSTMENT 0°-135°

Stepless adjustment of the opening angle by means of a hex key from the bottom of the clamp

- No need to set the sensor
- Possibility to reduce the opening angle to the minimum required

One single device covers the whole range of opening angles aimed at stock reduction

TOGGLE-JOINT MECHANISM

The original UNIVER toggle joint system allows the clamp to maintain the position even with lack of air without external stops

Position repeatability

No backlash in closed position

COMPLEMENTARY PRODUCTS





Aluminium or Steel Different offsets for each arm size NAAMS arms available upon request



PNEUMATIC SENSOR

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



SELF HOLDING SYSTEM

UNIVER original Suitable for any opening angle Adjustable holding force

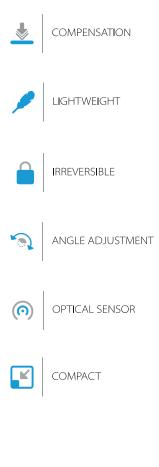


HAND LEVER

Ergonomic design Welding debris resistant

UNICLAMP





UCDP 40

Pneumatic power clamps Ø40 mm with double arm

Pneumatic power clamps size Ø40mm with double arm, compensation system, toggle-joint mechanism and stepless adjustable opening angle, typically used for holding and positioning metal sheets or workpieces.

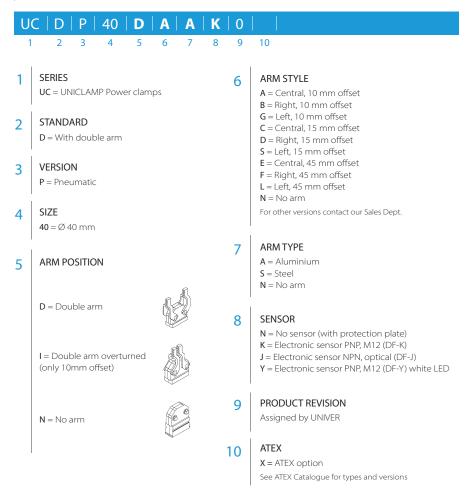
- Lightweight aluminium construction
- Compact dimensions
- Integrated compensation system up to 3 mm
- Fully optical electronic sensor
- Fixing pattern on 4 sides
- Clamping arm in aluminium or steel

CHARACTERISTICS

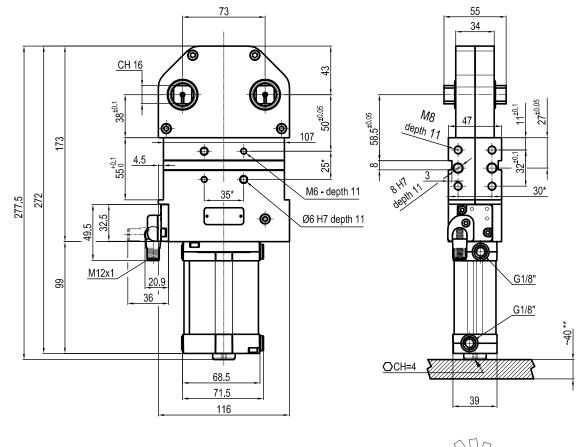
0,4 / 0,6 MPa
0, 4 /0,0 Mira
0° ÷ 180°
40 mm
55 Nm
2,7 Kg
G1/8 on both sides
electronic (optical)
10 ÷ 30 Vdc
IP65

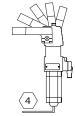
*The opening angle range may vary according to the arm position and style.

CODIFICATION KEY



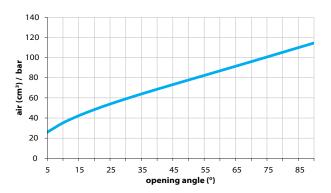






*TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ±0,1 **AREA TO ACCESS ANGLE ADJUSTMENT

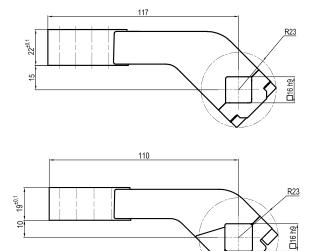
Air Consumption per Cycle



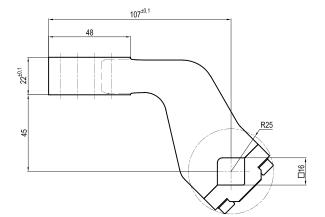


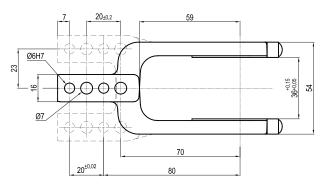
Clamping Arms

Arm Offset 10mm



Arm Offset 45mm





	68	-
		36+0,05 54
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90^{±0,1}

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Armcode	Offset	Material	Arm style	Weight (Kg)	Opening angle	Opening angle
LKP40A	10	ALUMINIUM	CENTRAL	0,2	0÷180°	0÷180°
LKP40B	10	ALUMINIUM	RIGHT	0,2	0÷180°	0÷180°
LKP40G	10	ALUMINIUM	LEFT	0,2	0÷180°	0÷180°
LKP01CST	15	ALUMINIUM	CENTRAL	0,2	0÷180°	-
LKP01DST	15	ALUMINIUM	RIGHT	0,2	0÷180°	-
LKP01SST	15	ALUMINIUM	LEFT	0,2	0÷180°	-
IKP40E	45	ALUMINIUM	CENTRAL	0,3	0÷140°	-
IKP40F	45	ALUMINIUM	RIGHT	0,3	0÷140°	-
IKP40L	45	ALUMINIUM	LEFT	0,3	0÷140°	-

Sensors

(7)



Electronic (optical)

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