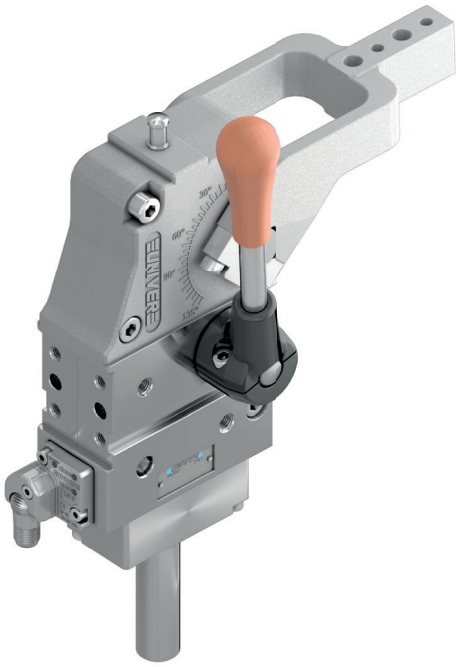
UCBL 450

Manual power clamps Ø50 mm



Manual power clamps size Ø50 mm with compensation system, toggle-joint mechanism and stepless adjustable opening angle, typically used for handling and holding metal sheets in welding applications

- Lightweight aluminium construction
- Integrated compensation system up to 1,7 mm
- Hand lever mount on both sides
- Fully optical electronic sensor or pneumatic sensor
- Fixing pattern on 4 sides
- Manual unlocking
- Self-holding system for open position available
- Clamping arm in aluminium or steel

CHARACTERISTICS

Operating temperature	**5° ÷ 45° C**
Opening angle*	**0° ÷ 135°**
Bore Ø	**50 mm**
Holding moment	**1750 Nm**
Clamping moment (0,5 MPa)	**420 Nm**
Weight (clamping arm not included)	**2,8 Kg**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP65**

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

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

CODIFICATION KEY

UC	B	L	4	50	V	E	A	K	0		
1	2	3	4	5	6	7	8	9	10	11	

1 SERIES
UC = UNICLAMP Power clamps

2 STANDARD
B = European standard

3 VERSION
L = Manual power clamp with hand lever

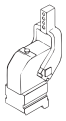
4 FIXING
4 = On 4 sides

5 SIZE
50 = Ø 50 mm

6 ARM POSITION
V = 90°



O = 180°



N = No arm



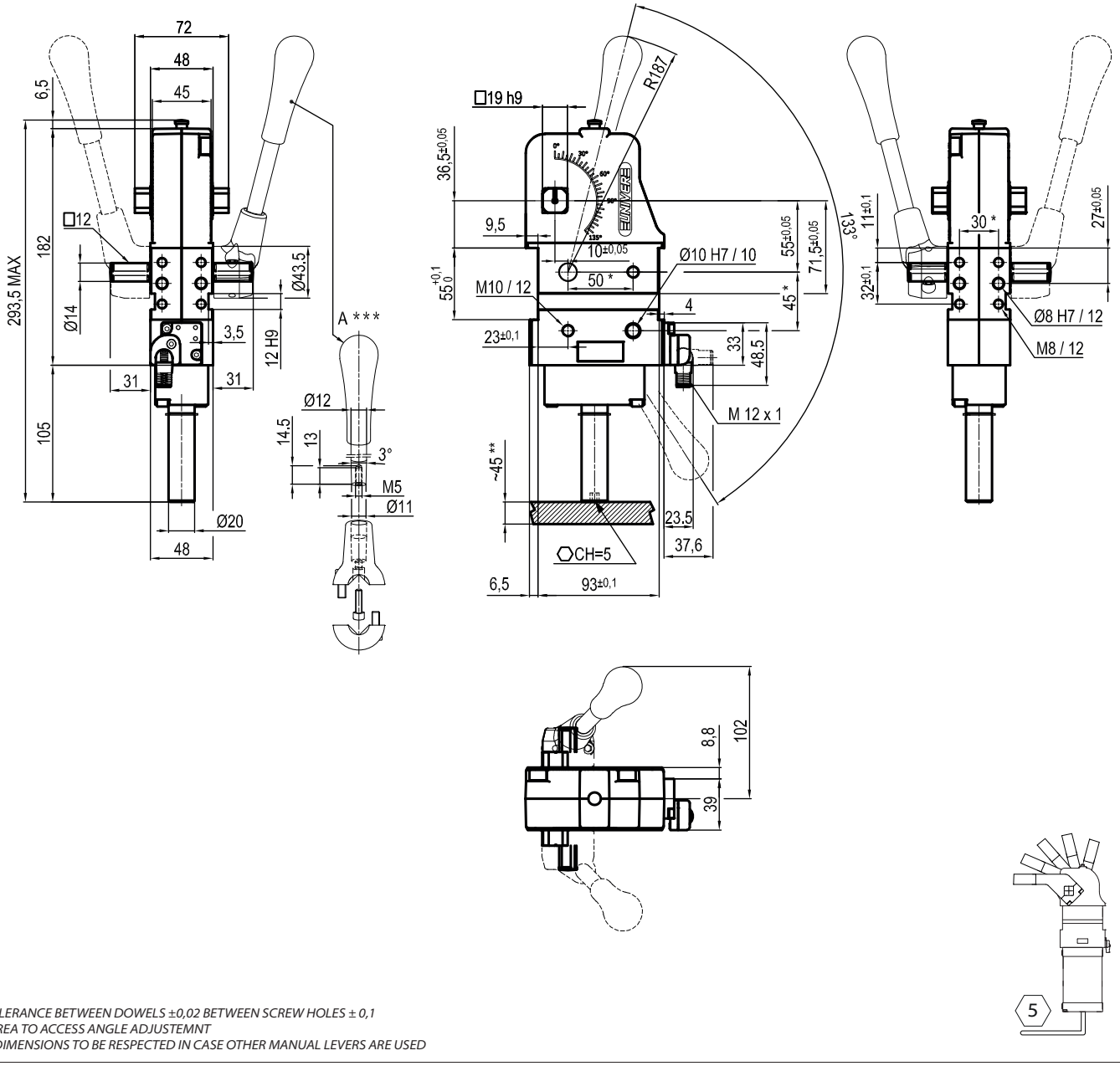
7 ARM STYLE
C = Central, 15 mm offset
D = Right, 15 mm offset
S = Left, 15 mm offset
E = Central, 45 mm offset
F = Right, 45 mm offset
L = Left, 45 mm offset
N = No arm
For other versions contact our Sales Dept.

8 ARM TYPE
A = Aluminium
S = Steel
N = No arm

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

10 PRODUCT REVISION
Assigned by UNIVER

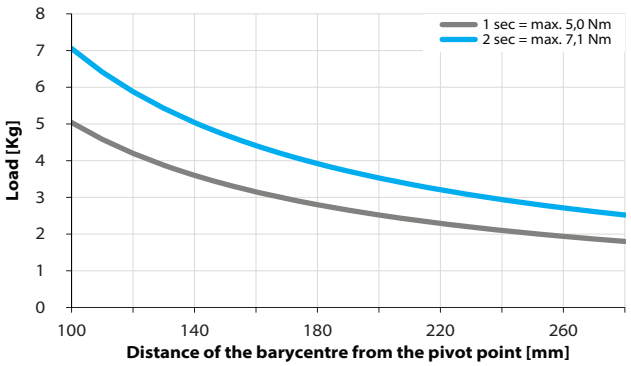
11 ATEX
X = ATEX option
See ATEX Catalogue for types and versions



TOLERANCE BETWEEN DOWELS ±0,02 BETWEEN SCREW HOLES ± 0,1
***AREA TO ACCESS ANGLE ADJUSTEMNT*
****DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED*

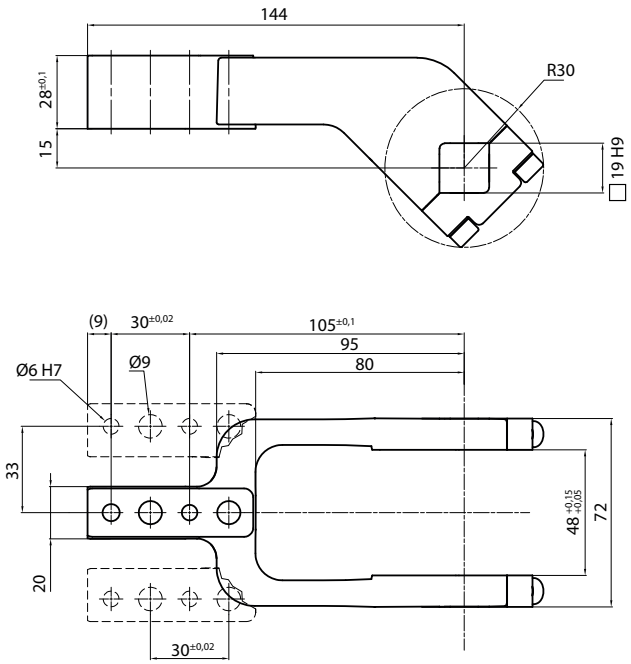
Maximum Applicable Load

Pressure: 5 bar - 90° cycle time (Open - Close)

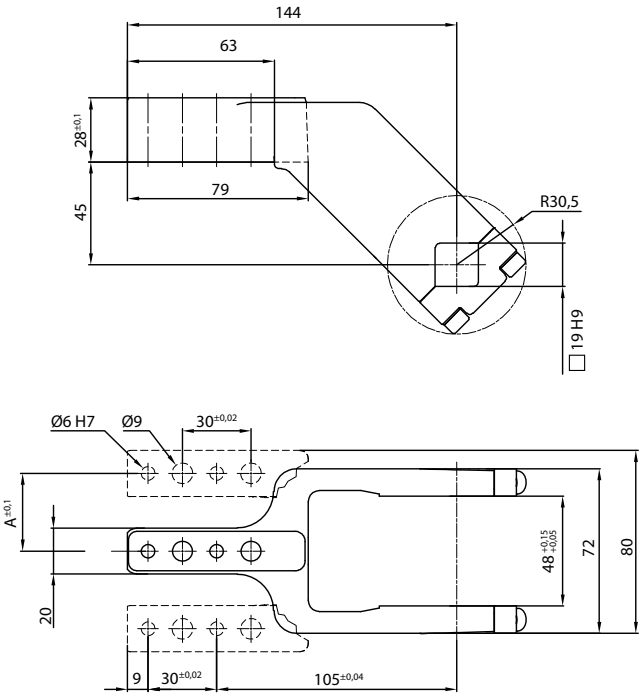


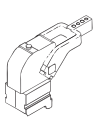
Clamping Arms

Arm Offset 15mm



Arm Offset 45mm







Armcode	Offset	Material	Arm style	Weight (Kg)	Opening angle (90°)	Opening angle (180°)
LKP00CL	15	ALUMINIUM	CENTRAL	0,4	0÷135°	0÷105°
LKP00DL	15	ALUMINIUM	RIGHT	0,4	0÷135°	0÷105°
LKP00SL	15	ALUMINIUM	LEFT	0,4	0÷135°	0÷105°
UP210151441G	15	STEEL	CENTRAL	0,8	0÷135°	0÷105°
UP210151442G	15	STEEL	RIGHT	0,8	0÷135°	0÷105°
UP210151443G	15	STEEL	LEFT	0,8	0÷135°	0÷105°
UKP5063E	45	ALUMINIUM	CENTRAL	0,45	0÷135°	0÷135°
UKP50F	45	ALUMINIUM	RIGHT	0,45	0÷135°	0÷135°
UKP50L	45	ALUMINIUM	LEFT	0,45	0÷135°	0÷135°
UKP5063ES	45	STEEL	CENTRAL	1,16	0÷135°	0÷135°
UKP50FS	45	STEEL	RIGHT	1,16	0÷135°	0÷135°
UKP50LS	45	STEEL	LEFT	1,16	0÷135°	0÷135°

Sensors



Electronic (optical)

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



Pneumatic

DF-UPNW

Accessories



Handlever

UBF255063

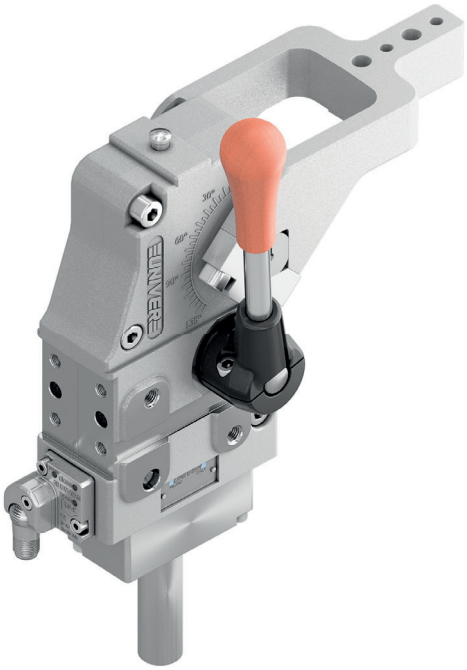


Self holding system

UBK46P19

UCBL 463

Manual power clamps Ø63 mm



Manual power clamps size Ø63 mm with compensation system, toggle-joint mechanism and stepless adjustable opening angle, typically used for handling and holding metal sheets in welding applications

- Lightweight aluminium construction
- Integrated compensation system up to 2,7 mm
- Hand lever mount on both sides
- Fully optical electronic sensor or pneumatic sensor
- Fixing pattern on 4 sides
- Manual unlocking
- Self-holding system for open position available
- Clamping arm in aluminium or steel

CHARACTERISTICS

Operating temperature	**5° ÷ 45° C**
Opening angle*	**0° ÷ 135°**
Bore Ø	**63 mm**
Holding moment	**1750 Nm**
Clamping moment (0,5 MPa)	**420 Nm**
Weight (clamping arm not included)	**2,95 Kg**
Sensor	**electronic (optical)**
Supply voltage	**10 ÷ 30 Vdc**
IP code	**IP65**

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

COMPENSATION

LIGHTWEIGHT

IRREVERSIBLE

ANGLE ADJUSTMENT

OPTICAL SENSOR

CODIFICATION KEY

UC	B	L	4	63	V	E	A	K	0	
1	2	3	4	5	6	7	8	9	10	11

1 SERIES
UC = UNICLAMP Power clamps

2 STANDARD
B = European standard

3 VERSION
L = Manual power clamp with hand lever

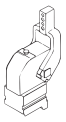
4 FIXING
4 = On 4 sides

5 SIZE
63 = Ø 63 mm

6 ARM POSITION
V = 90°



O = 180°



N = No arm



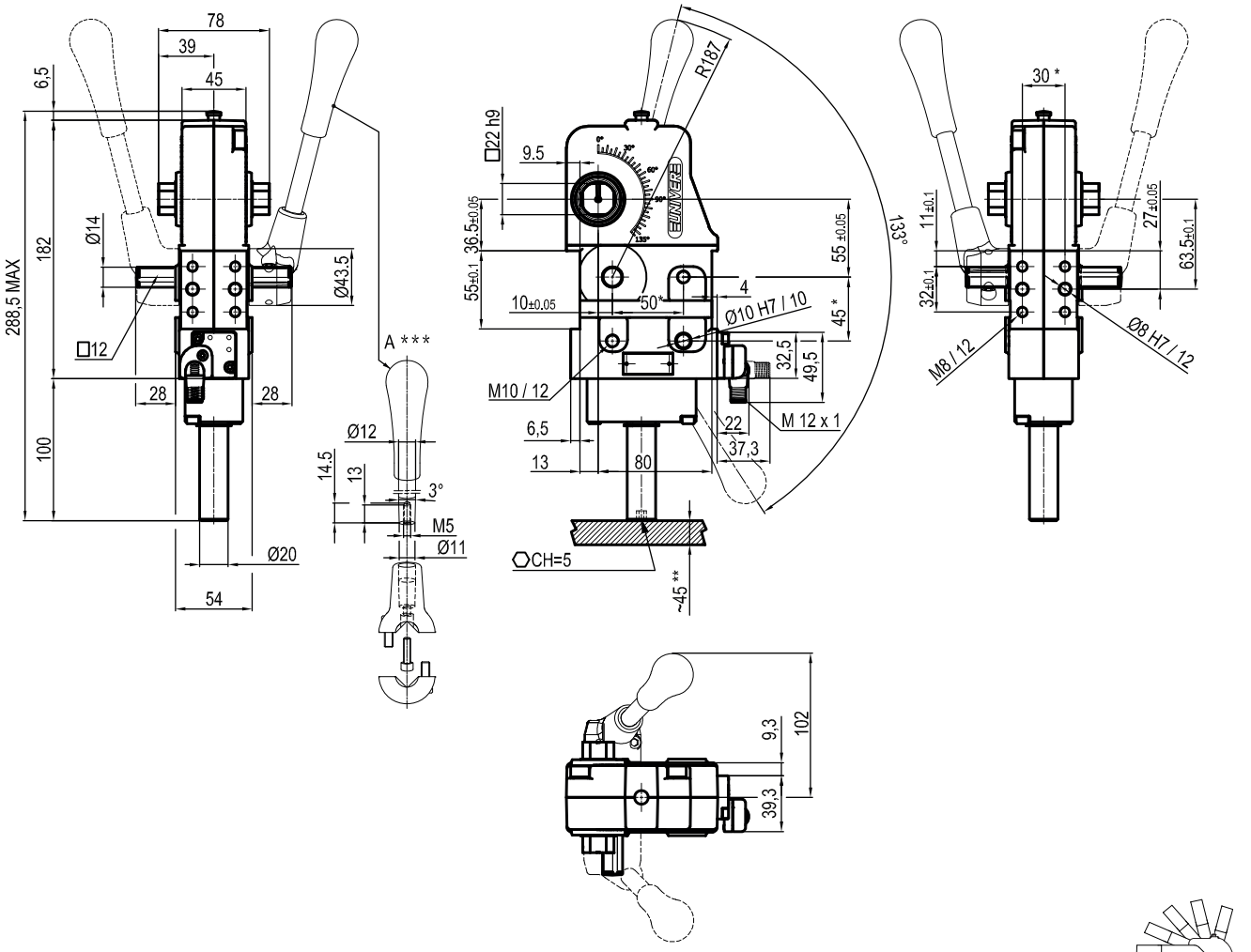
7 ARM STYLE
C = Central, 15 mm offset
D = Right, 15 mm offset
S = Left, 15 mm offset
E = Central, 45 mm offset
F = Right, 45 mm offset
L = Left, 45 mm offset
N = No arm
For other versions contact our Sales Dept.

8 ARM TYPE
A = Aluminium
S = Steel
N = No arm

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

10 PRODUCT REVISION
Assigned by UNIVER

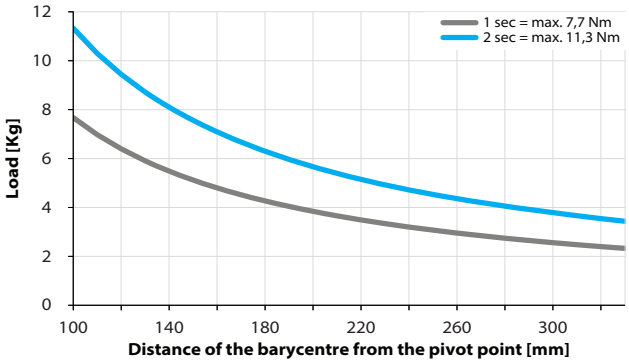
11 ATEX
X = ATEX option
See ATEX Catalogue for types and versions



**TOLERANCE BETWEEN DOWELS ± 0,02 BETWEEN SCREW HOLES ± 0,1*
***AREA TO ACCESS ANGLE ADJUSTMENT*
****DIMENSIONS TO BE RESPECTED IN CASE OTHER MANUAL LEVERS ARE USED*

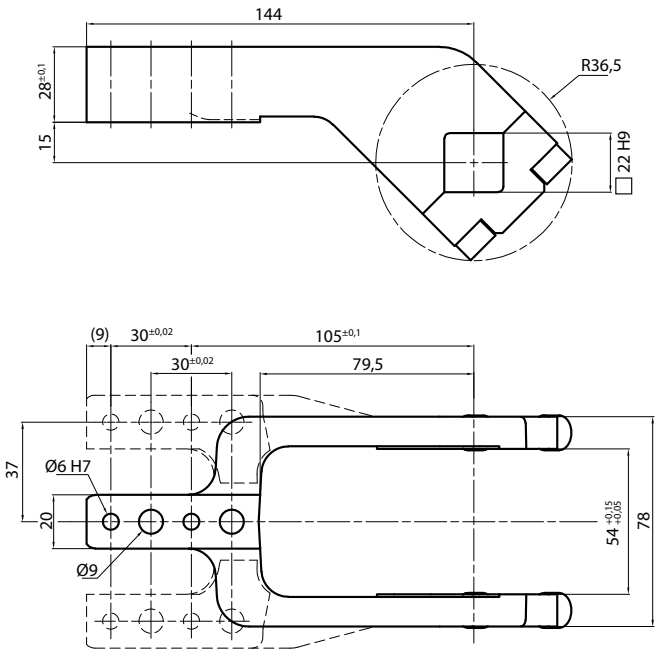
Maximum Applicable Load

Pressure: 5 bar - 90° cycle time (Open - Close)

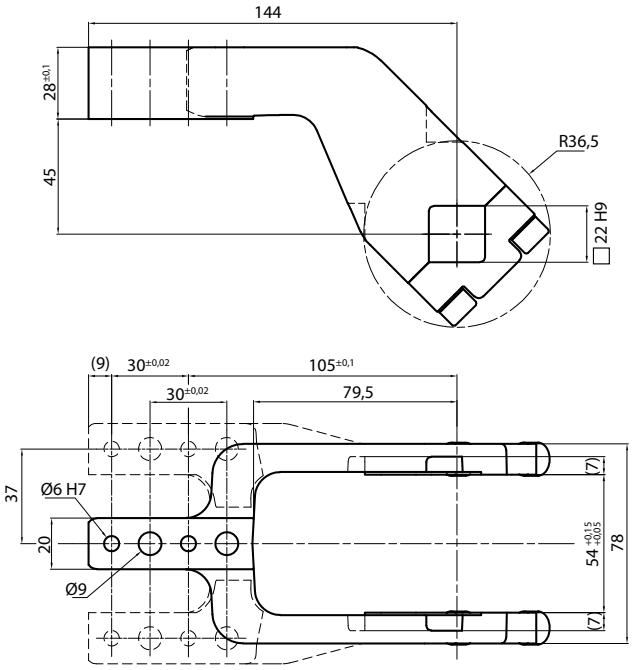


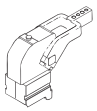
Clamping Arms

Arm Offset 15mm



Arm Offset 45mm







Armcode	Offset	Material	Arm style	Weight (Kg)	Opening angle (90°)	Opening angle (180°)
UP310151441A	15	ALUMINIUM	CENTRAL	0,3	0÷135°	0÷110°
UP310151442A	15	ALUMINIUM	RIGHT	0,3	0÷135°	0÷110°
UP310151443A	15	ALUMINIUM	LEFT	0,3	0÷135°	0÷110°
UP310151441G	15	STEEL	CENTRAL	1,2	0÷135°	0÷110°
UP310151442G	15	STEEL	RIGHT	1,2	0÷135°	0÷110°
UP310151443G	15	STEEL	LEFT	1,2	0÷135°	0÷110°
UP310451441A	45	ALUMINIUM	CENTRAL	0,3	0÷135°	0÷135°
UP310451442A	45	ALUMINIUM	RIGHT	0,3	0÷135°	0÷135°
UP310451443A	45	ALUMINIUM	LEFT	0,3	0÷135°	0÷135°
UP310451441G	45	STEEL	CENTRAL	1,4	0÷135°	0÷135°
UP310451442G	45	STEEL	RIGHT	1,4	0÷135°	0÷135°
UP310451443G	45	STEEL	LEFT	1,4	0÷135°	0÷135°

Sensors



Electronic (optical)

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



Pneumatic

DF-UPNW

Accessories



Handlever

UBF255063



Self holding system

UBK46P22