C1-Series

Pneumatic and manual power clamps

International mount

INTERNATIONAL MOUNT

Pneumax clamps' series have all been developed with a modern and compact design which goes towards **enhancing the operational performances**, such as the cycle time, combined with a very limited total weight without compromising their **strength** and **resistance**.
Thanks to the material chosen for the housings and the clamping arms, a high quality aluminum alloy, as well as due to the compact design of the cylinder and the housings, to minimize any interfering contours, Pneumax devices are **the lightest and most compact power clamps in the market**.

Technical features

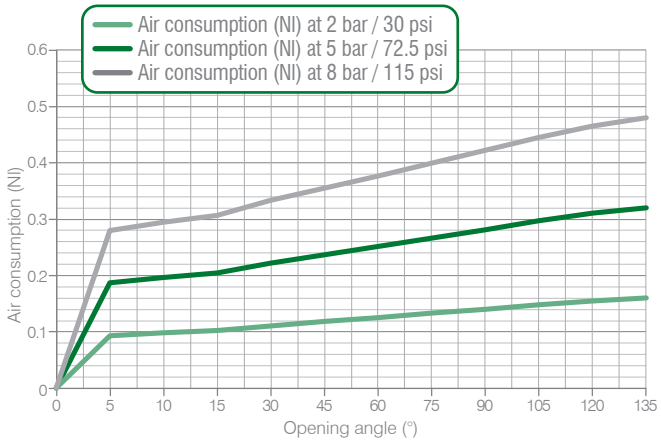
Manual release button to open the linkage when air pressure is removed during setup. **Pneumatic ports on both sides** of the cylinder.

Operating features	
Operating pressure	from 2 to 8 bar / from 30 to 115 psi
Lubrication	all the devices are lubricated for life at the factory. Inline air lubrication isn't required

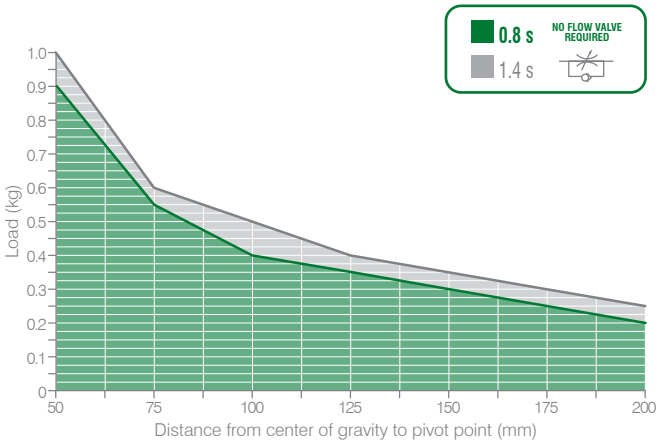
Functional charts

Size 25 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 17/06/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 18/11/2016

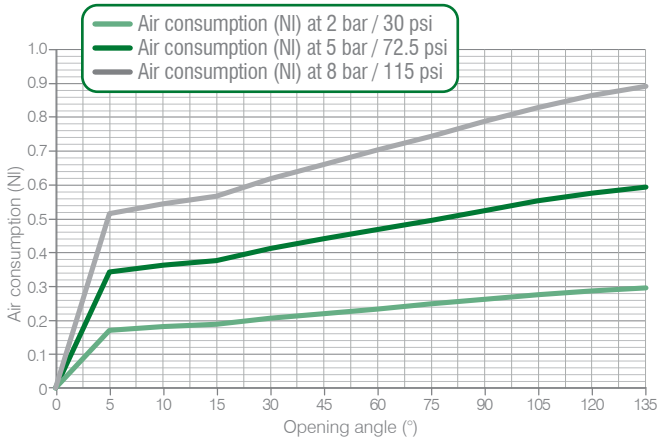


- **Clamping moment (at 5 bar / 72.5 psi)**
  50 N m / 36,87 lb·ft
- **Holding moment**
  75 N m / 55,31 lb·ft
- **Cycle time for max opening angle**
  < 0.8 s

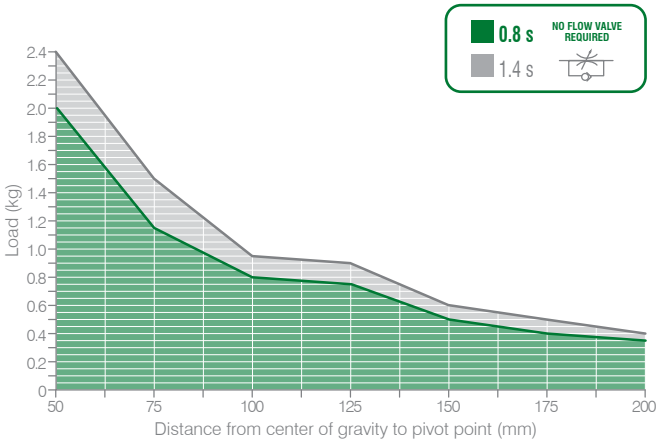
The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

Size 32 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 17/06/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 18/11/2016

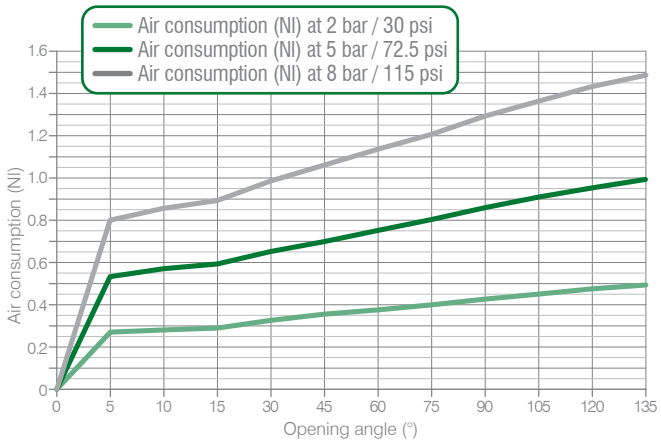


- **Clamping moment (at 5 bar / 72.5 psi)**
  75 N m / 55,31 lb·ft
- **Holding moment**
  250 N m / 184,39 lb·ft
- **Cycle time for max opening angle**
  < 0.8 s

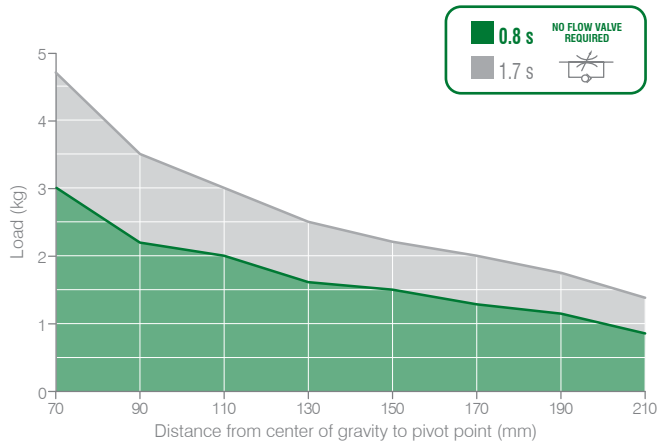
The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

Size 40 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 17/06/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 17/06/2015



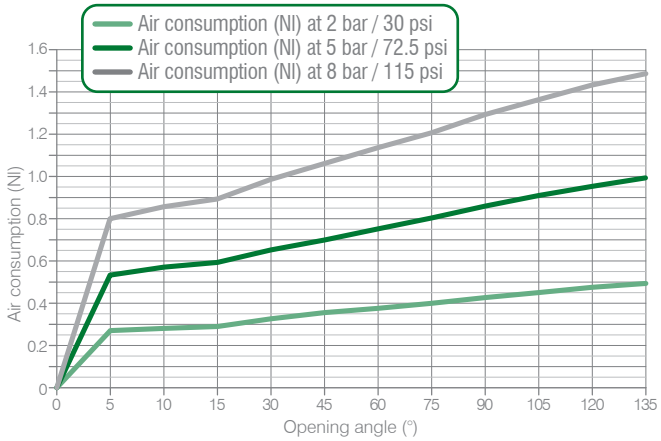
- **Clamping moment (at 5 bar / 72.5 psi)**
  130 N m / 95,88 lb·ft
- **Holding moment**
  380 N m / 280,27 lb·ft

The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

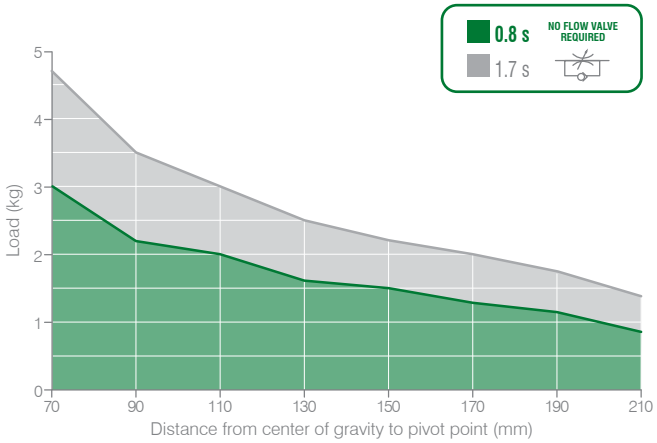
C1-Series / Functional charts (continued)

Series 45 - size 40 interchangeable to size 50 and 63 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 16/06/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 16/06/2015



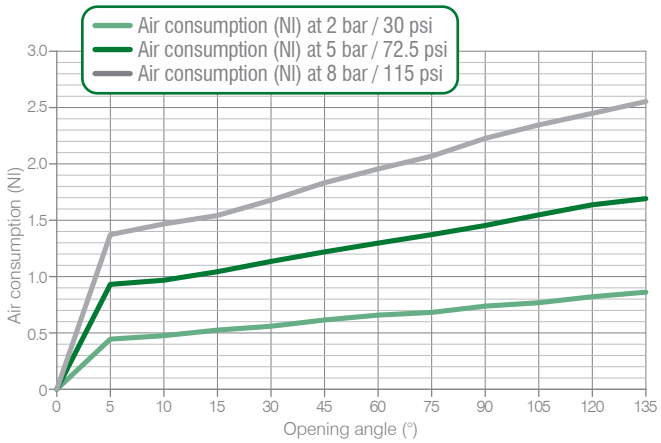
- **Clamping moment (at 5 bar / 72.5 psi)**
  130 N m/ 95,88 lb·ft

- **Holding moment**
  380 N m/ 280,25 lb·ft

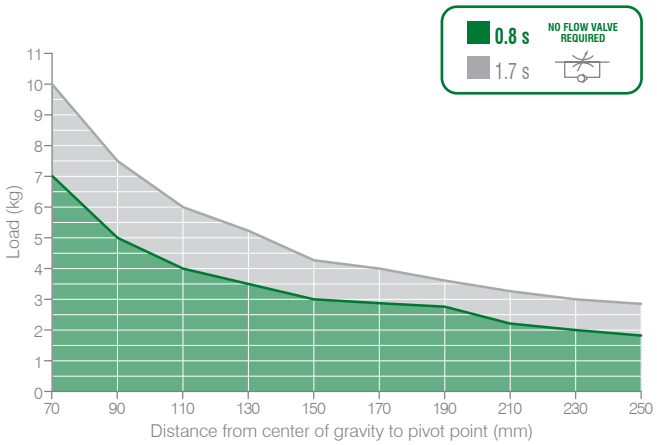
The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

Size 50 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 16/06/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 16/06/2015



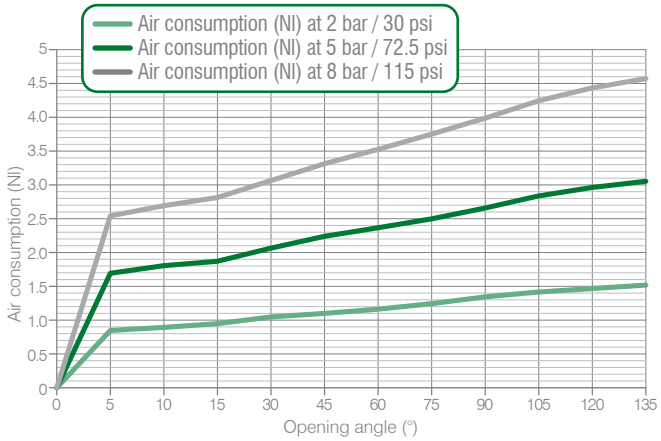
- **Clamping moment (at 5 bar / 72.5 psi)**
  185 N m / 136,44 lb·ft

- **Holding moment**
  800 N m / 590,04 lb·ft

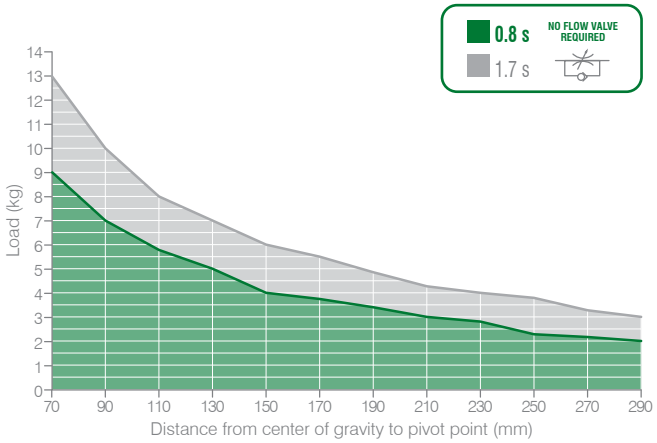
The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

Size 63 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 17/06/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 17/06/2015



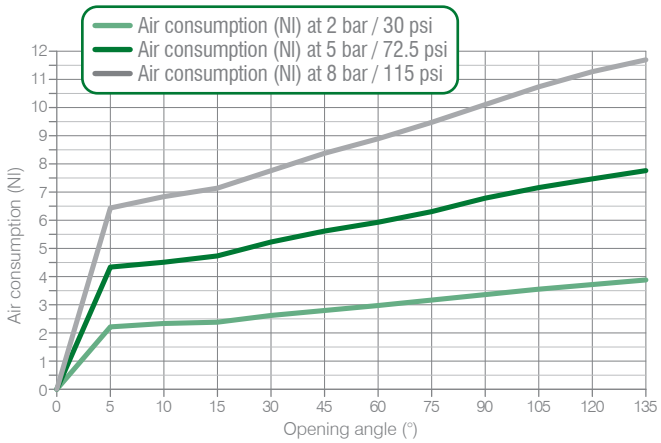
- **Clamping moment (at 5 bar / 72.5 psi)**
  390 N m / 287,64 lb·ft

- **Holding moment**
  1.500 N m / 1.106,34 lb·ft

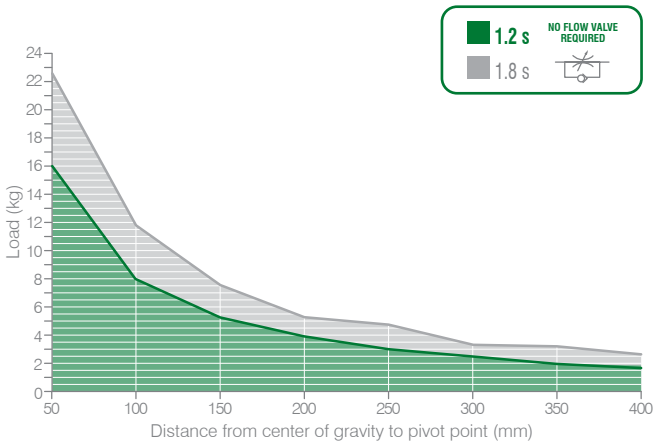
The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

Size 80 mm

- **Air consumption**
  Air consumption for complete cycle (opening and closing)
  REV. 00 - 29/05/2015



- **Tooling weight chart**
  5 bar operating pressure – 135° opening angle
  REV. 00 - 29/05/2016



- **Clamping moment (at 5 bar / 72.5 psi)**
  850 N m / 626,92 lb·ft

- **Holding moment**
  2.500 N m / 1.843,90 lb·ft

The above data are meant for correct working conditions of the clamp with the same performance level during its life time.
For applications which exceed the above data, please contact our sales representatives.

C1-Series / Ordering string

Nano Power Clamps

C	1	P	25	E	G	1	A	01

C	VERSION	**C** = clamp
1	MOUNTING PATTERN	**1** = international mount
P	OPERATION	**P** = pneumatic **D2** = pneumatic with manual operation (size 32 mm please see C5 Series) **D0** = output shaft for manual operation - no lever and no handle included (size 32 mm please see C5 Series)
25	SIZE	**25** = Ø 25 mm **32** = Ø 32 mm
E	SENSOR	**E** = electronic sensor with M12 swivel connector - PNP **A** = electronic sensor with M12 swivel connector - NPN **N** = no sensor **B** = electronic sensor with M8 swivel connector - PNP
G	PORTS	**G** = G thread – BSPP
1	ARM MOUNT	**1** =  **2** =  **3** =  **4** = 
A	ARM MATERIAL	**A** = aluminum
01	CLAMP ARM TYPE	**01** = wishbone, central, 0 mm offset **04** = wishbone, central, 10 mm offset **13** = H, 0 mm offset **14** = H, 10 mm offset

C5-Series

C	5	D2	32	E	4	1	A	01

C	VERSION	**C** = clamp
5	MOUNTING PATTERN	**5** = heavy duty style
D2	OPERATION	**M2** = manual Ø 32 **D2** = pneumatic with manual operation
32	SIZE	**32** = size 32 mm
E	SENSOR	**E** = electronic sensor with M12 swivel connector - PNP **A** = electronic sensor with M12 swivel connector - NPN **N** = no sensor **B** = electronic sensor with M8 swivel connector - PNP
4	FIXED OPENING ANGLE	**1** = 135° **2** = 120° **5** = 55° **7** = 20°
1	ARM MOUNT	**1** =  **2** =  **3** =  **4** = 
A	ARM MATERIAL	**A** = aluminum
01	CLAMP ARM TYPE	**01** = wishbone, central, 0 mm offset **04** = wishbone, central, 10 mm offset **13** = H, 0 mm offset **14** = H, 10 mm offset

Please see the charts in the datasheets for arm position as well as for max. opening angle

C1-Series

C	1	P	40	E	G	4	A	01

C	**VERSION**	**C** = clamp
1	**MOUNTING PATTERN**	**1** = International mount
P	**OPERATION**	**P** = pneumatic **D_** = pneumatic with manual operation **D0** = output shaft for manual operation - no lever and no handle included
40	**SIZE**	**40** = Ø 40 mm **63** = Ø 63 mm **50** = Ø 50 mm **80** = Ø 80 mm
E	**SENSOR**	**E** = electronic sensor with M12 swivel connector - PNP **A** = electronic sensor with M12 swivel connector - NPN **N** = no sensor **B** = electronic sensor with M8 swivel connector - PNP
G	**PORTS**	**G** = G thread – BSPP **N** = NPT
4	**ARM MOUNT**	**1** =  **2** =  **3** =  **4** = 
A	**ARM MATERIAL**	**A** = aluminum **S** = steel
01	**CLAMP ARM TYPE** * for size 80 mm = 20 mm offset	**01** = wishbone, central, 15 mm offset* **02** = wishbone, right, 15 mm offset* **03** = wishbone, left, 15 mm offset* **04** = wishbone, central, 45 mm offset **05** = wishbone, right, 45 mm offset **06** = wishbone, left, 45 mm offset

C1P45-Series

C	1	P	45	E	G	1	A	54

C	**VERSION**	**C** = clamp
1	**MOUNTING PATTERN**	**1** = International mount
P	**OPERATION**	**P** = pneumatic
45	**SIZE**	**45** = Ø 40 mm Mounting pattern interchangeable to 50 and 63 mm bore clamps
E	**SENSOR**	**E** = electronic sensor with M12 swivel connector - PNP **A** = electronic sensor with M12 swivel connector - NPN **N** = no sensor **B** = electronic sensor with M8 swivel connector - PNP
G	**PORTS**	**G** = G thread – BSPP
1	**ARM MOUNT**	**1** =  **2** =  **4** = 
A	**ARM MATERIAL**	**A** = aluminum
54	**CLAMP ARM TYPE**	**54** = wishbone, central, 45 mm offset **55** = wishbone, right, 45 mm offset **56** = wishbone, left, 45 mm offset

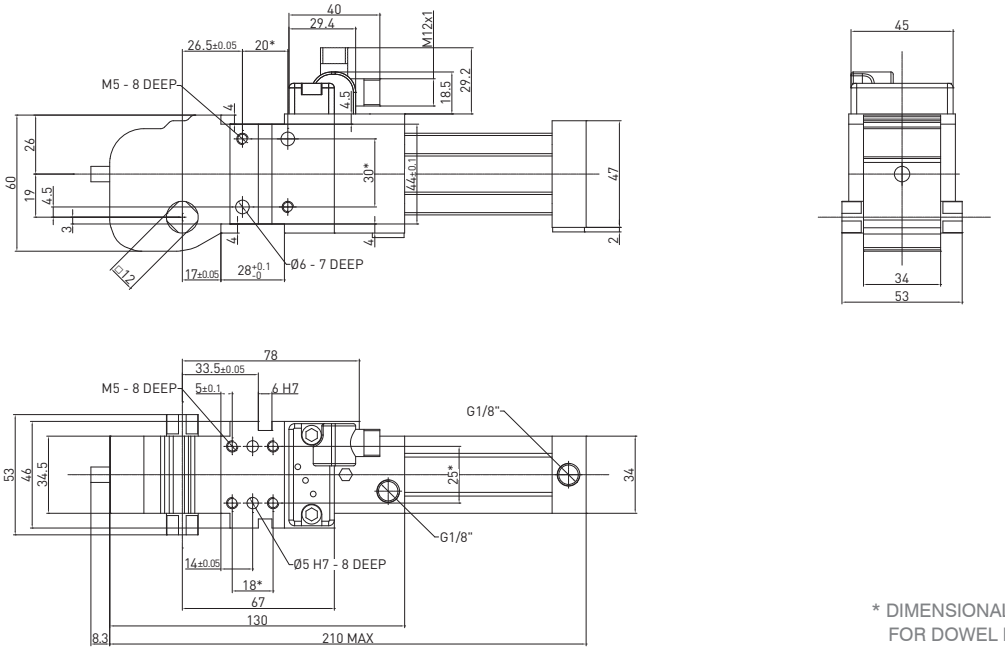
C1M-Series

C	1	M2	50	E	4	1	A	1

C	**VERSION**	**C** = clamp
1	**MOUNTING PATTERN**	**1** = international mount
M2	**OPERATION**	**M1** = manual with straight handle **M2** = manual with “D2” handle
50	**SIZE**	**50** = size 50 mm **63** = size 63 mm
E	**SENSOR**	**E** = electronic sensor with M12 swivel connector - PNP **A** = electronic sensor with M12 swivel connector - NPN **N** = no sensor **B** = electronic sensor with M8 swivel connector - PNP
4	**FIXED OPENING ANGLE**	**1** = 135° **2** = 120° **3** = 90° **4** = 60° **5** = 45° **6** = 55° **7** = 20°
1	**ARM MOUNT**	**1** =  **2** =  **3** =  **4** = 
A	**ARM MATERIAL**	**A** = aluminum
1	**CLAMP ARM TYPE**	**01** = wishbone, central, 15 mm offset **04** = wishbone, central, 45 mm offset For the other arm types, see ordering string of C1 series

C1P25E / **Nano Power clamp** - International mount - 25 mm bore

WEIGHT 0.75 kg



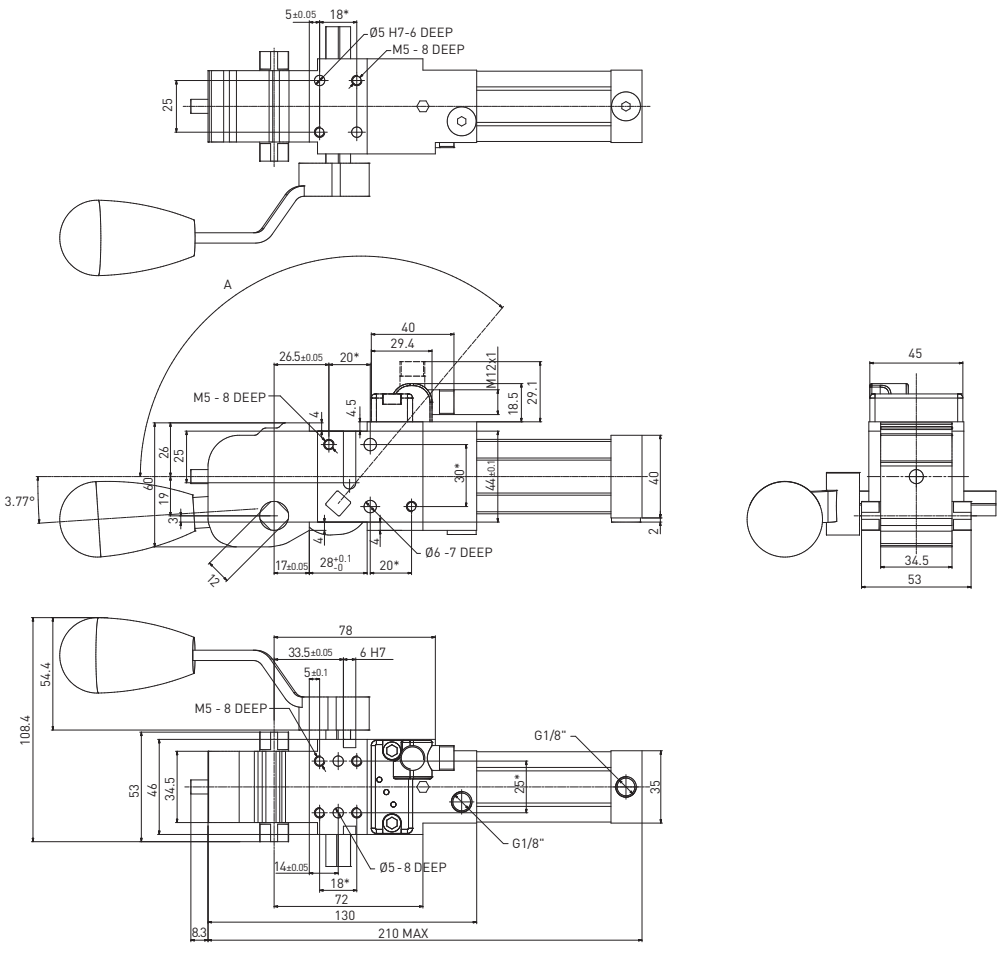
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 01 - 30/03/2021

C1D225E / **Nano Power clamp** - International mount - 25 mm bore with manual operation

WEIGHT 0.987 kg
D2 handle included



Handle swivel angle

Arm opening angle	A Handle swivel angle
0°	-3,77°
15°	19°
30°	35°
45°	53°
60°	74°
75°	94°
90°	109,5°
105°	120°
120°	126°
135°	130°

Max Hand Force: 200 N

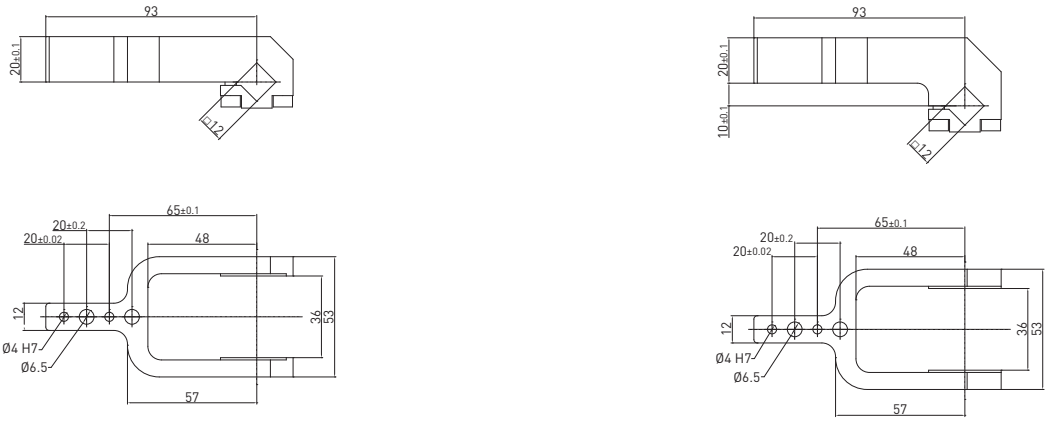
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 03 - 27/10/2021

Clamping arms / 12 mm shaft for clamps' size 25 mm

REV. 02 - 07/10/2015



12 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B12012	**Aluminum**	**Central**	**0.127**	**135°**	**105°**	**135°**	**90°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

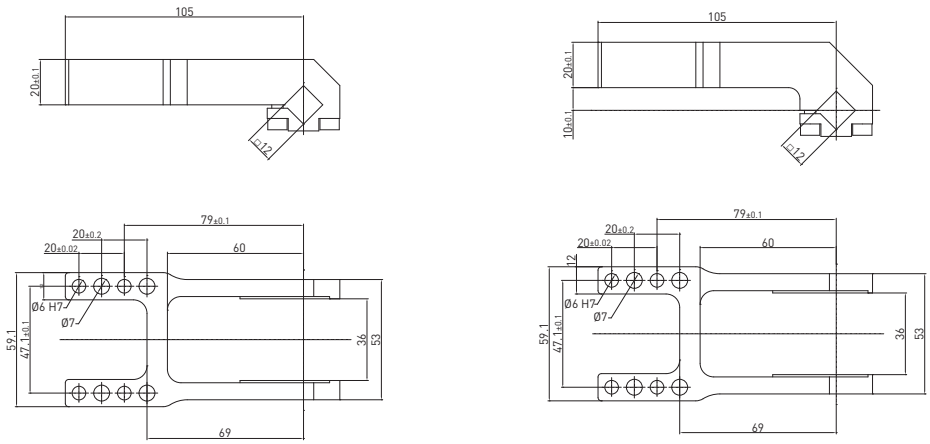
12 mm shaft – 10 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B12042	**Aluminum**	**Central**	**0.135**	**135°**	**120°**	**N/A**	**45°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

Clamping arms / 12 mm shaft for clamps' size 25 mm and size 32 mm mm - Left & right clamping surfaces

REV. 00 - 12/04/2017



12 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1213	**Aluminum**	**H**	**0.163**	**135°**	**115°**	**N/A**	**45°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

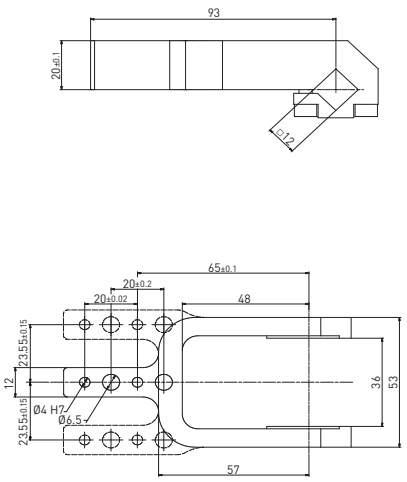
12 mm shaft – 10 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1214	**Aluminum**	**H**	**0.173**	**135°**	**115°**	**N/A**	**45°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

Clamping arms / 12 mm shaft for clamps' size 25 mm

REV. 00 - 11/02/2022



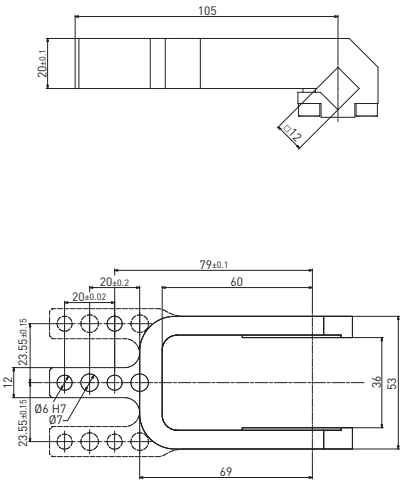
12 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B12022	**Aluminum**	**Right**	**0.127**	**135°**	**105°**	**135°**	**90°**
B12032	**Aluminum**	**Left**	**0.127**	**135°**	**105°**	**135°**	**90°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

Clamping arms / 12 mm shaft for clamps' size 32 mm

REV. 00 - 11/02/2022



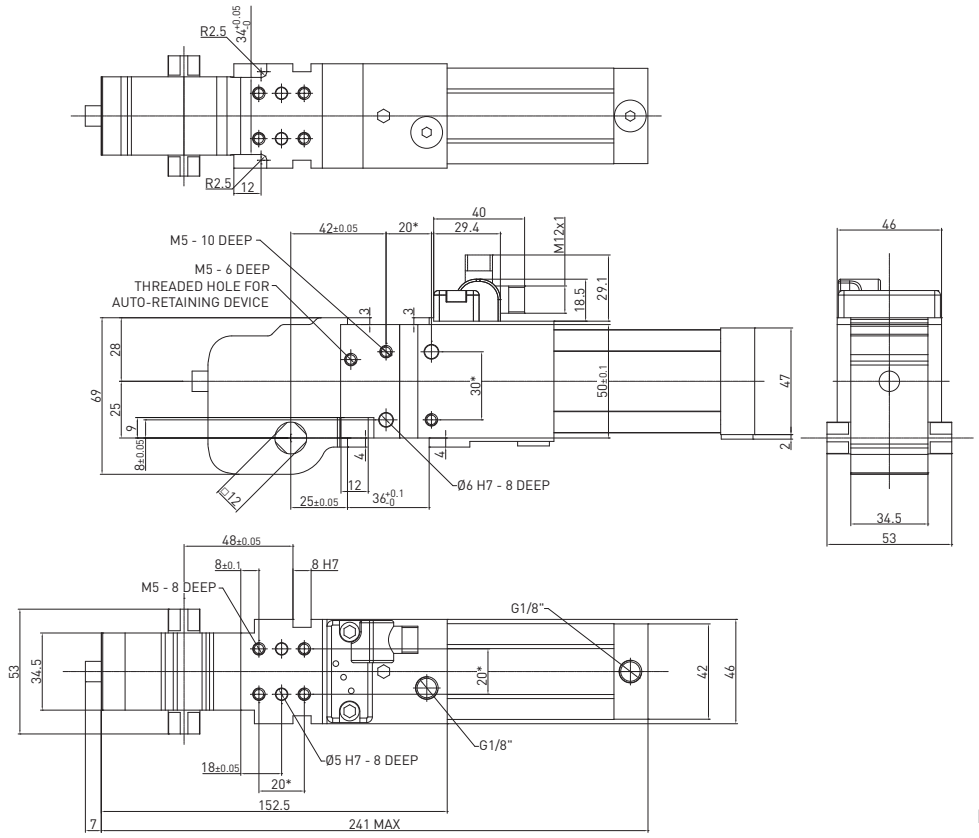
12 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B12023	**Aluminum**	**Right**	**0.135**	**135°**	**112°**	**135°**	**90°**
B12033	**Aluminum**	**Left**	**0.135**	**135°**	**112°**	**135°**	**90°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

C1P32E / **Nano Power clamp** - International mount - 32 mm bore

WEIGHT 0.987 kg



* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

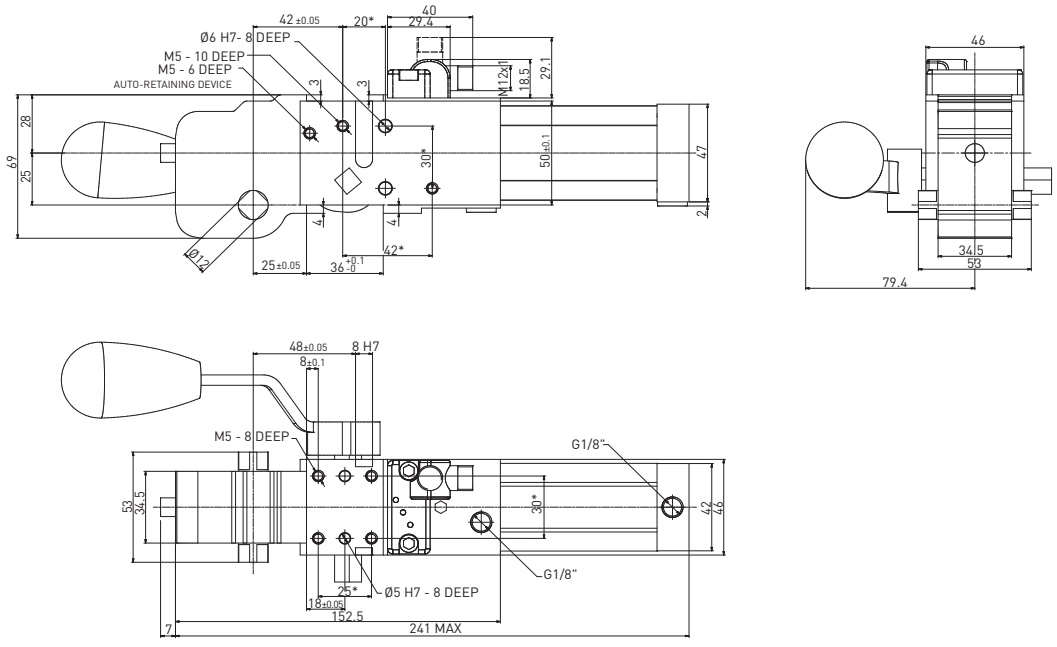
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 02 - 13/09/2017

C5D232E / **Nano Power clamp** - heavy duty style - International mount - 32 mm bore with manual operation

WEIGHT 1.36 kg

D2 handle included



Handle swivel angle

Arm opening angle	Ⓐ Handle swivel angle
0°	3.5°
15°	28.5°
30°	45°
45°	68°
60°	90.5°
75°	115.5°
90°	130°
105°	139°
120°	144°
135°	147°

Max Hand Force: 200 N

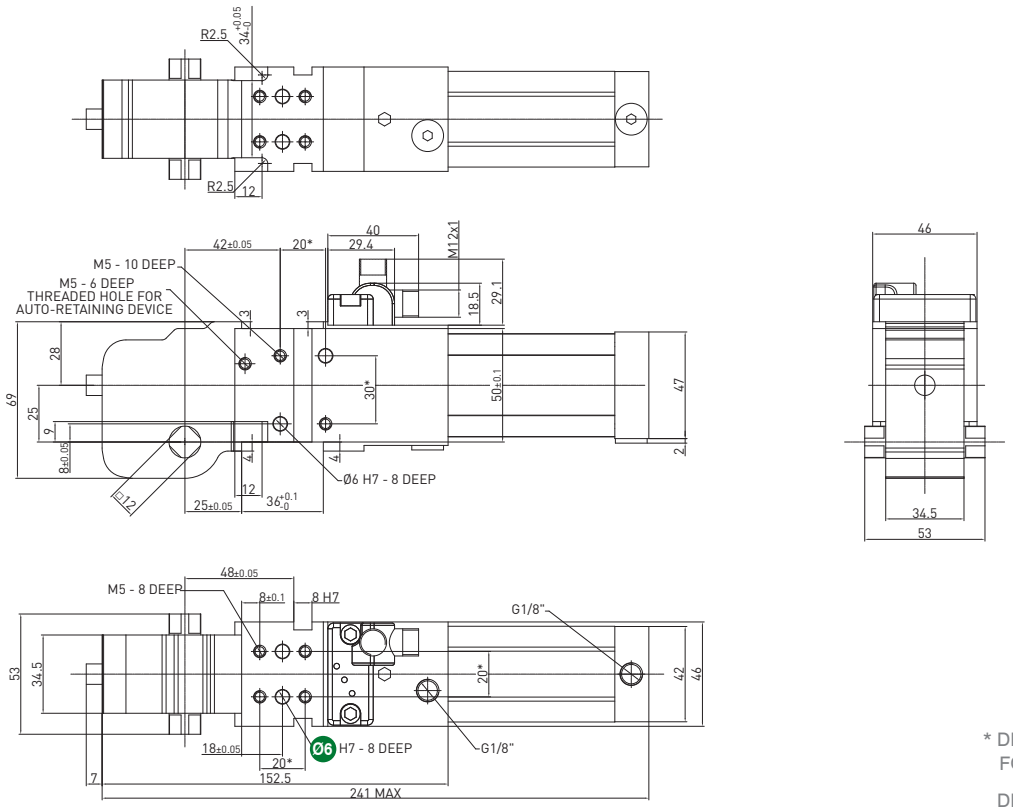
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 06/10/2020

C1P32E_ _A / **Nano Power clamp** - International mount - 32 mm bore

WEIGHT 0.98 kg



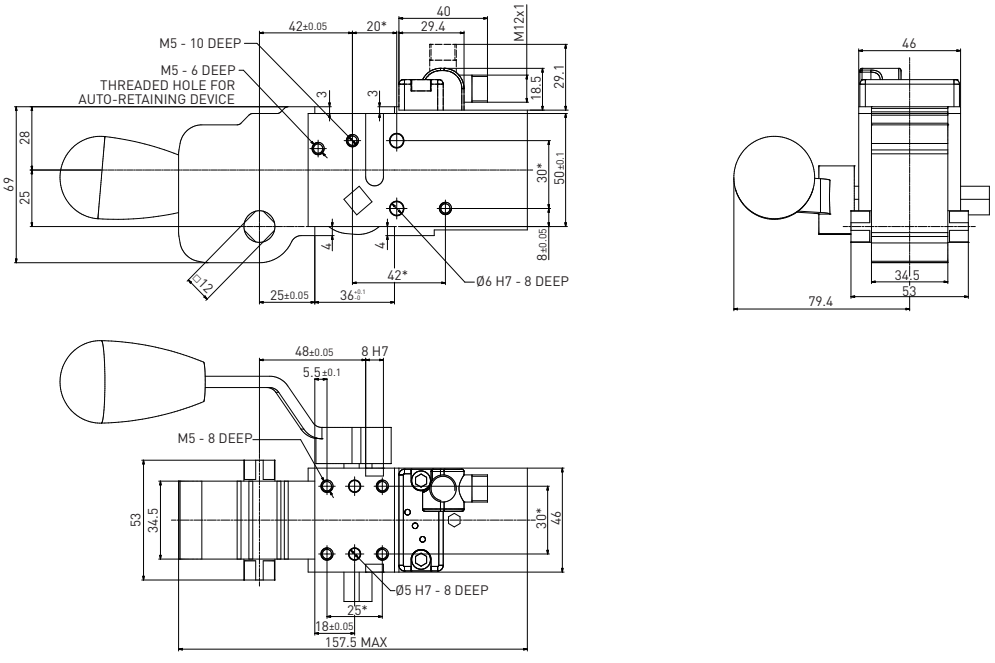
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 00 - 28/08/2017

C5M232E / **Nano Power clamp** - International mount - 32 mm bore

WEIGHT 1 kg
D2 handle included



Handle swivel angle

Arm opening angle	Ⓐ Handle swivel angle
0°	3.5°
15°	28.5°
30°	45°
45°	68°
60°	90.5°
75°	115.5°
90°	130°
105°	139°
120°	144°
135°	147°

Max Hand Force: 200 N

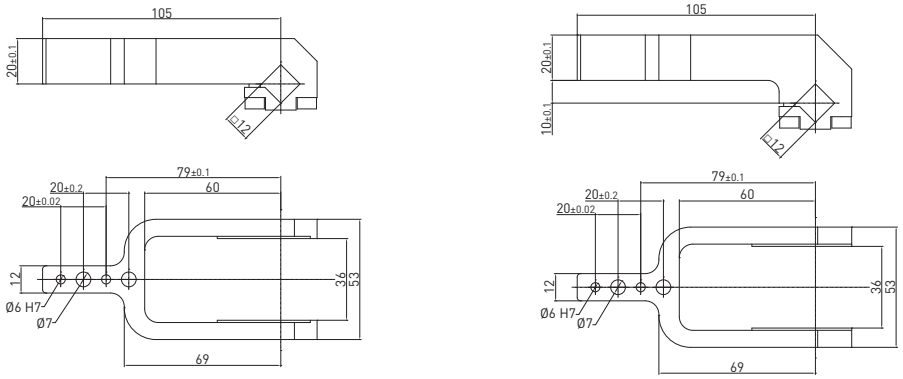
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 00 - 06/10/2020

Clamping arms / 12 mm shaft for clamps' size 32 mm

REV. 00 - 07/10/2015



12 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B12013	**Aluminum**	**Central**	**0.135**	**135°**	**112°**	**135°**	**90°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

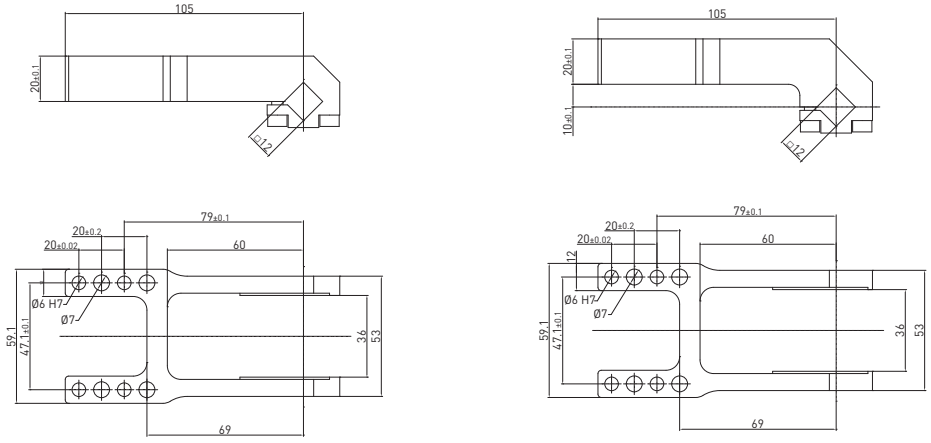
12 mm shaft – 10 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B12043	**Aluminum**	**Central**	**0.144**	**135°**	**123°**	**N/A**	**45°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

Clamping arms / 12 mm shaft for clamps' size 25 mm and size 32 mm mm - Left & right clamping surfaces

REV. 00 - 12/04/2017



12 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1213	**Aluminum**	**H**	**0.163**	**135°**	**115°**	**N/A**	**45°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

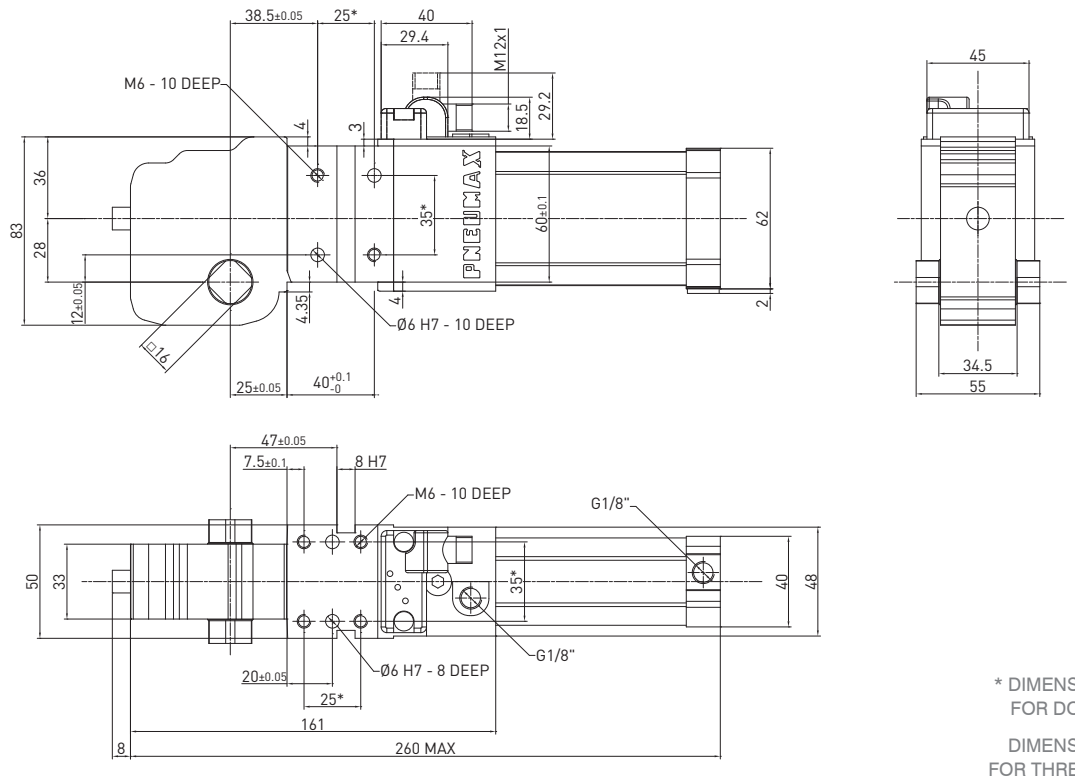
12 mm shaft – 10 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1214	**Aluminum**	**H**	**0.173**	**135°**	**115°**	**N/A**	**45°**

Screws: M5x14 **Tightening torque:** 5 N m / 3.68 lb ft

C1P40E / **Power clamp** - International mount - 40 mm bore

WEIGHT 1.45 kg



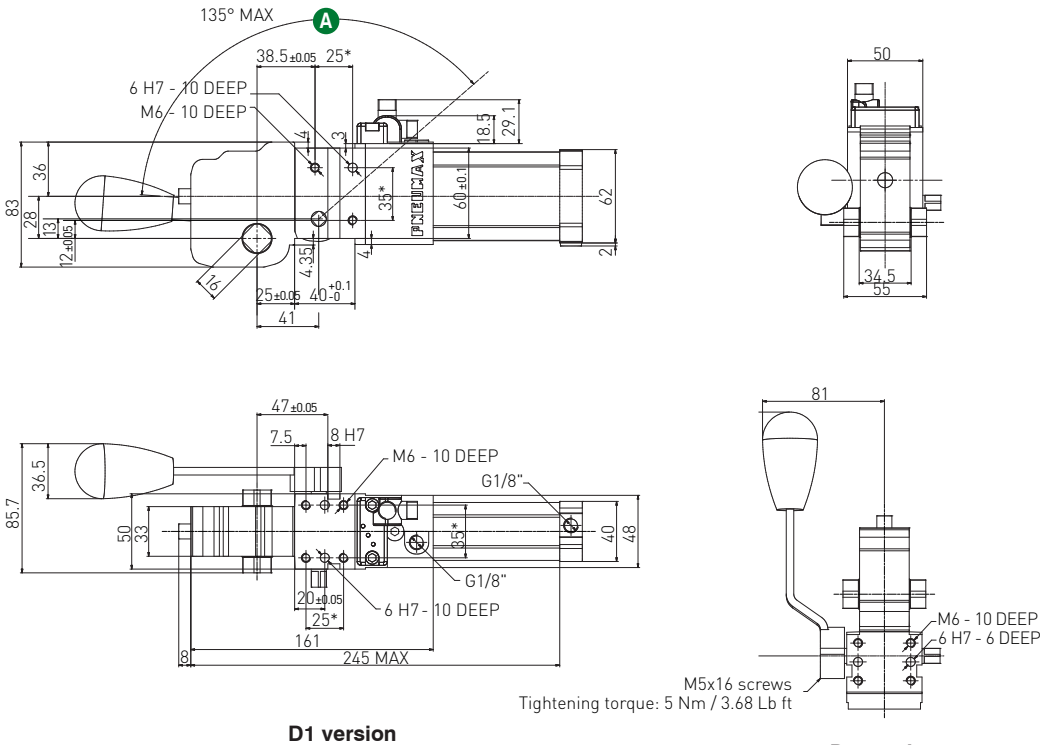
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 00 - 31/03/2015

C1D_40E / **Power clamp** - International mount - 40 mm bore with manual operation

WEIGHT 1.75 kg
D2 handle included



D1 version

D2 version

Handle swivel angle

Arm opening angle	A Handle swivel angle
0°	4.12°
15°	22.65°
30°	38.2°
45°	58.4°
60°	83.6°
75°	107.6°
90°	123.6°
105°	132.75°
120°	137.7°
135°	140°

Max Hand Force: 200 N

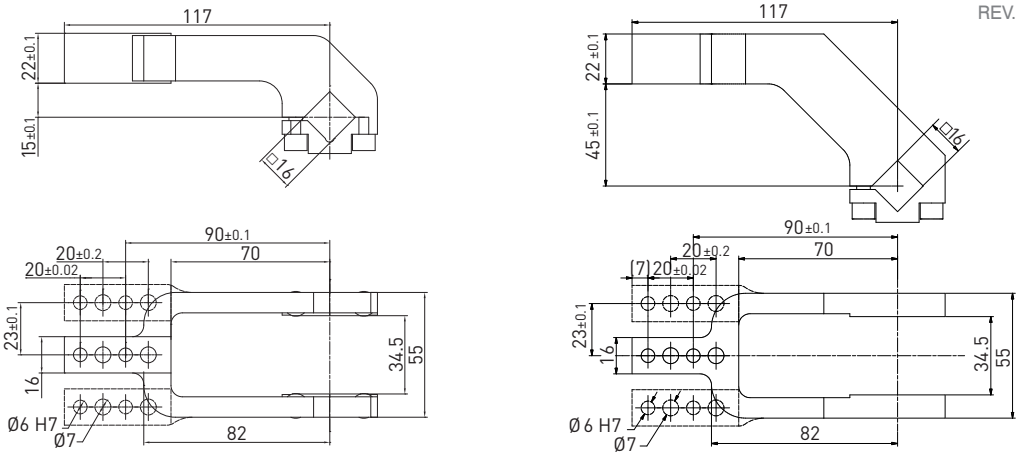
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

REV. 01 - 03/05/2022

Clamping arms / 16 mm shaft

REV. 00 - 31/03/2015



16 mm shaft – 15 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1601	**Aluminum**	**Central**	**0.24**	**135°**	**125°**	**N/A**	**45°**
Q1601	**Steel**	**Central**	**0.44**	**135°**	**125°**	**N/A**	**45°**
B1602	**Aluminum**	**Right**	**0.24**	**135°**	**125°**	**N/A**	**45°**
Q1602	**Steel**	**Right**	**0.46**	**135°**	**125°**	**N/A**	**45°**
B1603	**Aluminum**	**Left**	**0.24**	**135°**	**125°**	**N/A**	**45°**
Q1603	**Steel**	**Left**	**0.46**	**135°**	**125°**	**N/A**	**45°**

Screws: M6x20 **Tightening torque:** 10 N m / 7.37 lb ft

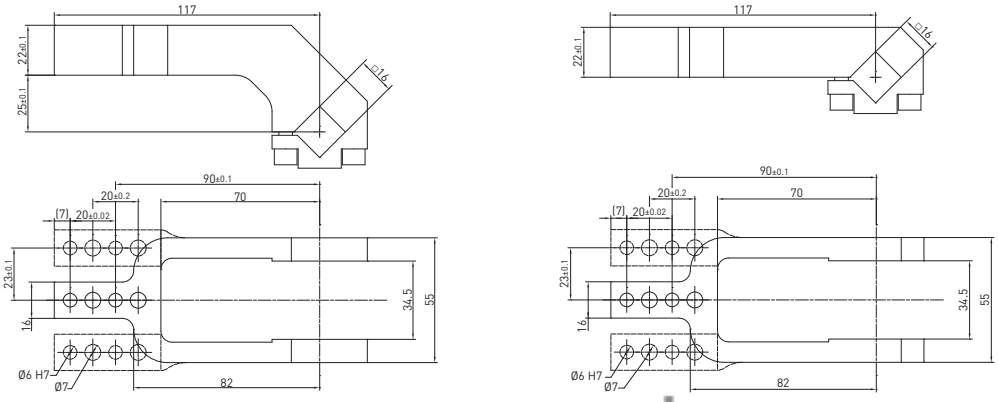
16 mm shaft – 45 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1604	**Aluminum**	**Central**	**0.3**	**135°**	**135°**	**N/A**	**45°**
Q1604	**Steel**	**Central**	**0.55**	**135°**	**135°**	**N/A**	**45°**
B1605	**Aluminum**	**Right**	**0.3**	**135°**	**135°**	**N/A**	**45°**
Q1605	**Steel**	**Right**	**0.57**	**135°**	**135°**	**N/A**	**45°**
B1606	**Aluminum**	**Left**	**0.3**	**135°**	**135°**	**N/A**	**45°**
Q1606	**Steel**	**Left**	**0.57**	**135°**	**135°**	**N/A**	**45°**

Screws: M6x20 **Tightening torque:** 10 N m / 7.37 lb ft

Clamping arms / 16 mm shaft

REV. 00 - 12/05/2017



16 mm shaft – 25 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1621	**Aluminum**	**Central**	**0.25**	**135°**	**135°**	**N/A**	**45°**
B1622	**Aluminum**	**Right**	**0.25**	**135°**	**135°**	**N/A**	**45°**
B1623	**Aluminum**	**Left**	**0.25**	**135°**	**135°**	**N/A**	**45°**

Screws: M6x20 **Tightening torque:** 10 N m / 7.37 lb ft

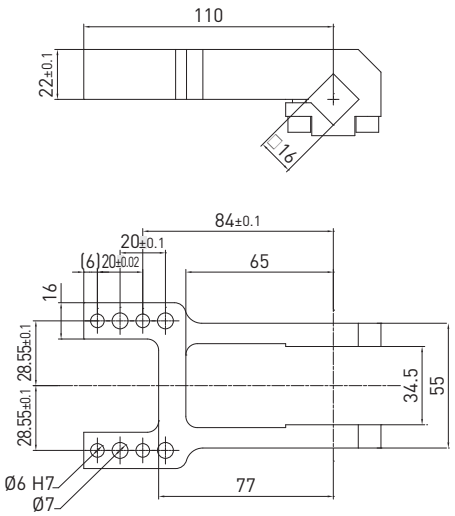
16 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1618	**Aluminum**	**Central**	**0.25**	**135°**	**105°**	**135°**	**90°**
B1619	**Aluminum**	**Right**	**0.25**	**135°**	**105°**	**135°**	**90°**
B1620	**Aluminum**	**Left**	**0.25**	**135°**	**105°**	**135°**	**90°**

Screws: M6x20 **Tightening torque:** 10 N m / 7.37 lb ft

Clamping arms / 16 mm shaft - Left & right clamping surfaces

REV. 00 - 07/11/2019



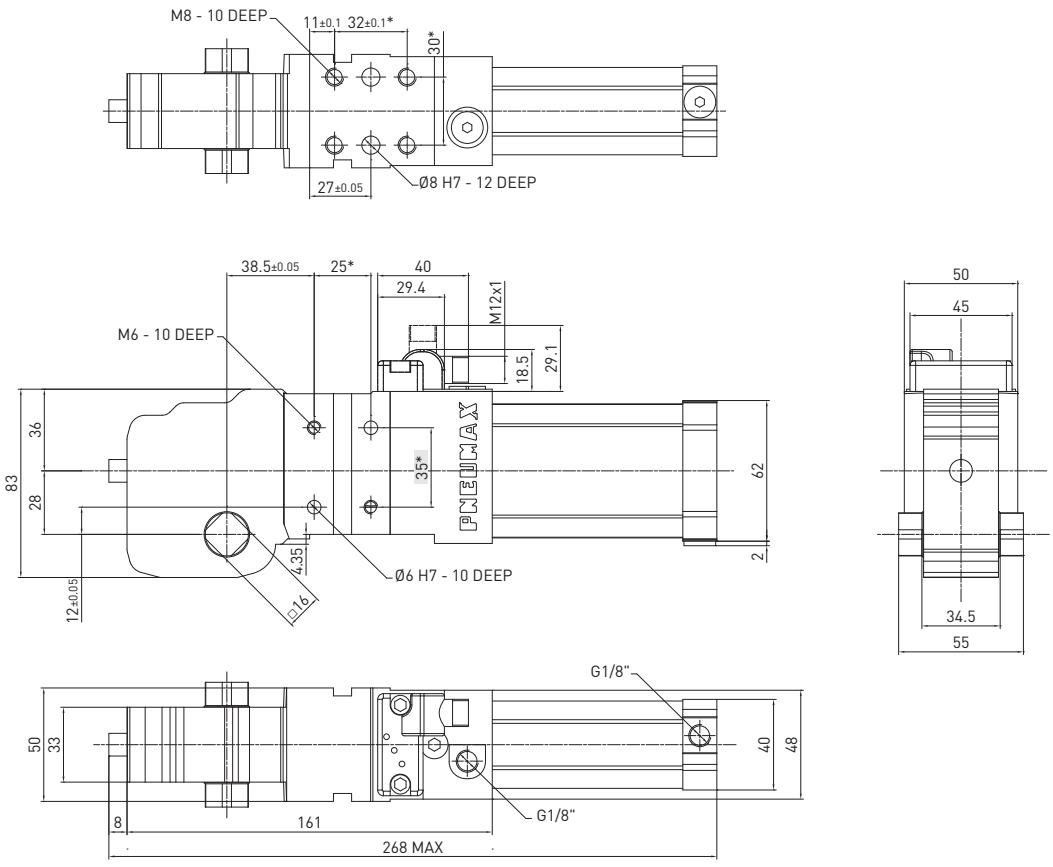
16 mm shaft – 0 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1613	**Aluminum**	**H**	**0.27**	**125°**	**45°**	**135°**	**35° MAX**

Screws: M6x20 **Tightening torque:** 10 N m / 7.37 lb ft

C1P45EG / **Power clamp** - 40 mm bore cylinder and mounting pattern interchangeable to 50 and 63 mm bore clamps

WEIGHT 1.45 kg



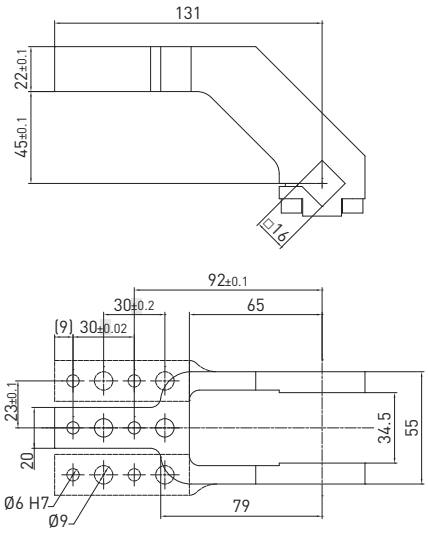
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 23/04/2019

Clamping arms / 16 mm shaft

REV. 00 - 23/04/2019



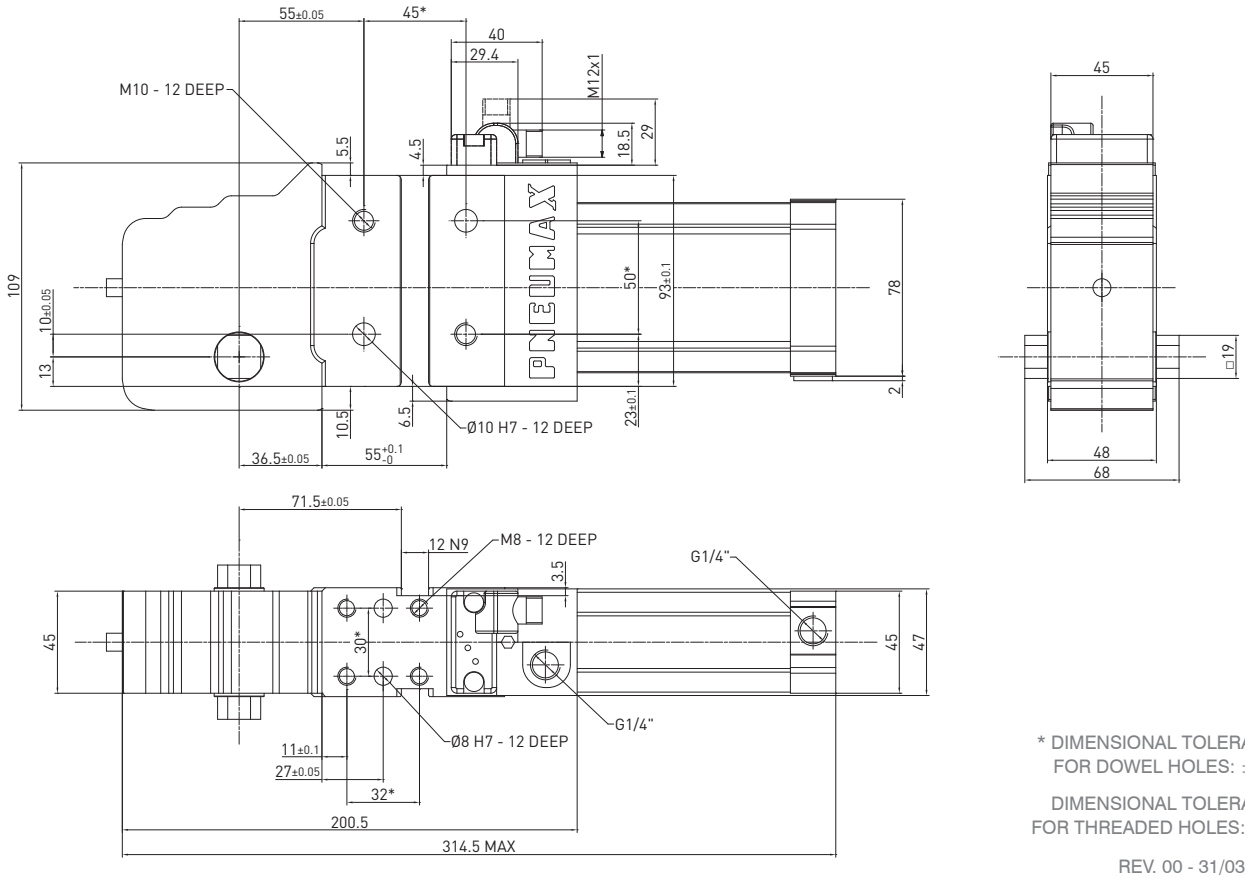
16 mm shaft – 45 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1654	**Aluminum**	**Central**	**0.3**	**135°**	**135°**	**N/A**	**45°**
B1655	**Aluminum**	**Right**	**0.3**	**135°**	**135°**	**N/A**	**45°**
B1656	**Aluminum**	**Left**	**0.3**	**135°**	**135°**	**N/A**	**45°**

Screws: M6x20 **Tightening torque:** 10 N m / 7.37 lb ft

C1P50E / **Power clamp** - International mount - 50 mm bore

WEIGHT 2.7 kg



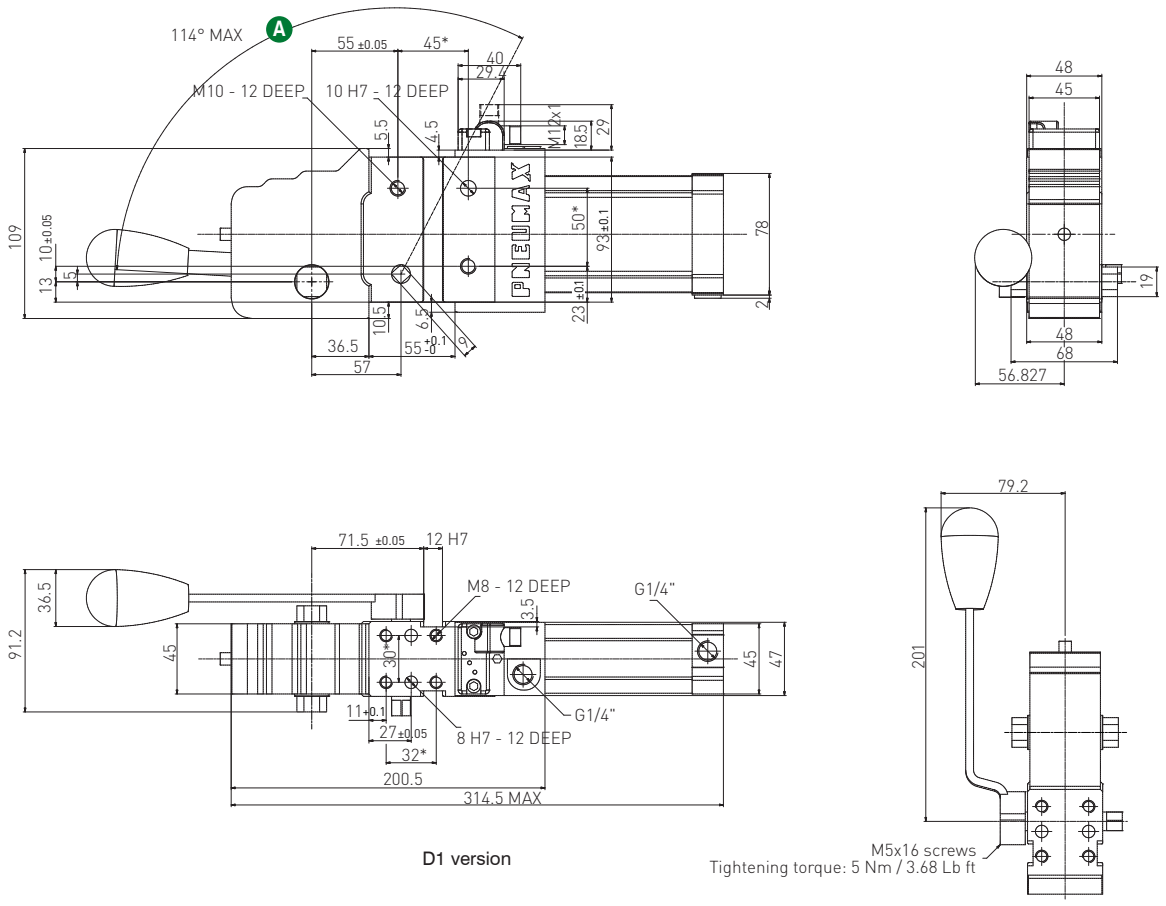
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 31/03/2015

C1D_50E / **Power clamp** - International mount - 50 mm bore with manual operation

WEIGHT 3.1 kg
D2 handle included



D1 version

D2 version

Handle swivel angle

Arm opening angle	A Handle swivel angle
0°	3.25°
15°	27°
30°	43°
45°	59.3°
60°	75.4°
75°	89.75°
90°	101°
105°	109°
120°	114.25°
135°	117.2°

Max Hand Force: 200 N

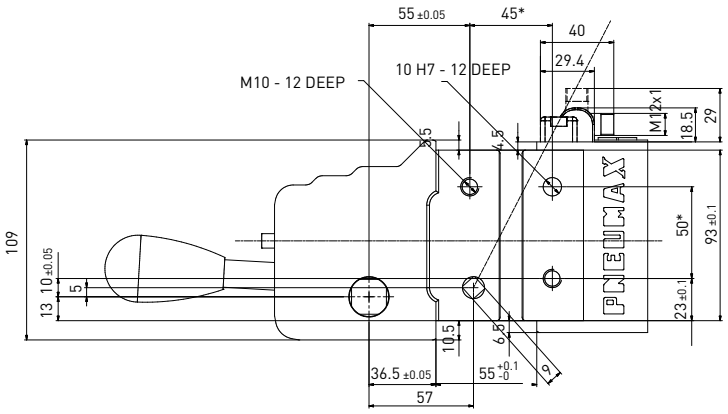
* DIMENSIONAL TOLERANCE
FOR DOWEL HOLES: ±0.02

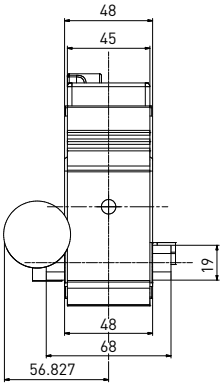
DIMENSIONAL TOLERANCE
FOR THREADED HOLES: ±0.1

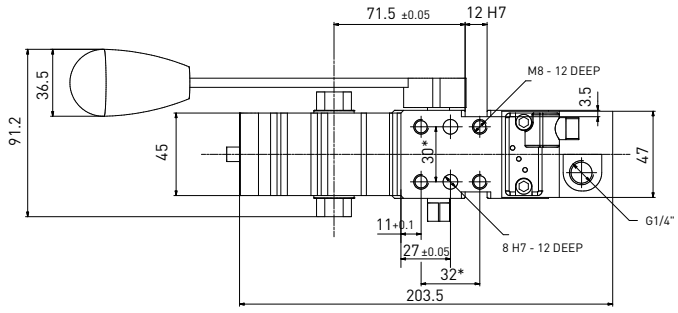
REV. 00 - 29/08/2017

C1M_50E / Manual power clamp - International mount

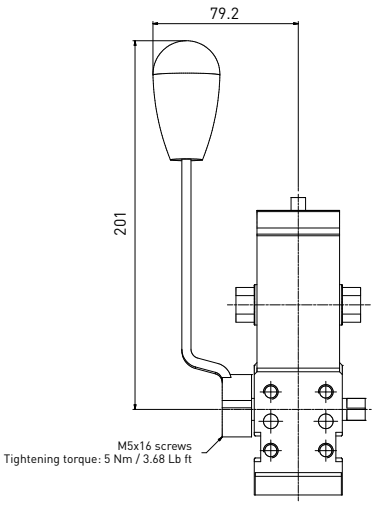
WEIGHT 2.9 kg
D2 handle included







D1 version



D2 version

Handle swivel angle

Arm opening angle	Ⓐ Handle swivel angle
0°	3.25°
15°	27°
30°	43°
45°	59.3°
60°	75.4°
75°	89.75°
90°	101°
105°	109°
120°	114.25°
135°	117.2°

Max Hand Force: 200 N

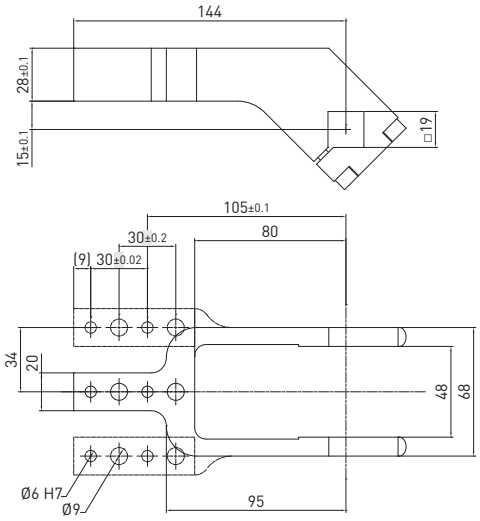
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 29/08/2017

Clamping arms / 19 mm shaft

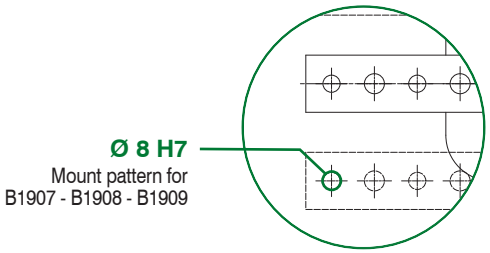
REV. 01 - 08/02/2019



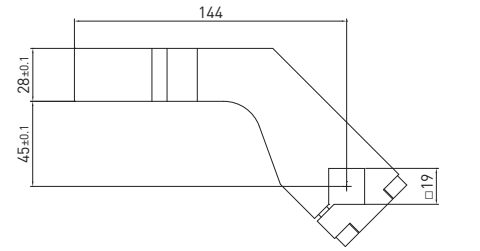
19 mm shaft – 15 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1901	Aluminum	Central	0.41	135°	115°	135°	80°
Q1901	Steel	Central	0.71	135°	115°	135°	80°
B1902	Aluminum	Right	0.43	135°	115°	135°	80°
Q1902	Steel	Right	0.79	135°	115°	135°	80°
B1903	Aluminum	Left	0.43	135°	115°	135°	80°
Q1903	Steel	Left	0.79	135°	115°	135°	80°
B1907	Aluminum	Central	0.41	135°	115°	135°	80°
B1908	Aluminum	Right	0.43	135°	115°	135°	80°
B1909	Aluminum	Left	0.43	135°	115°	135°	80°

Screws: M6x25 **Tightening torque:** 10 N m / 7.37 lb ft



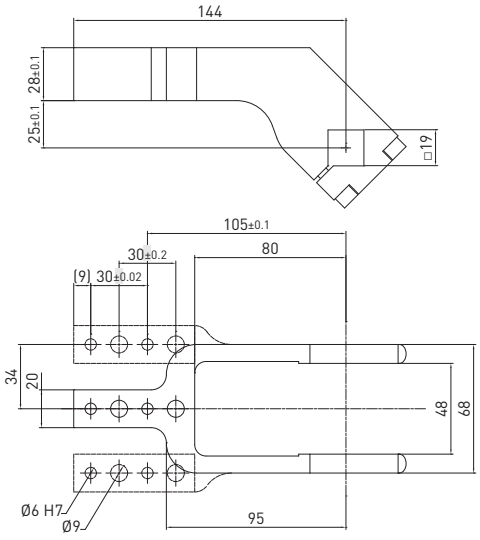
Ø 8 H7
Mount pattern for
B1907 - B1908 - B1909



19 mm shaft – 45 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1904	Aluminum	Central	0.45	135°	135°	135°	80°
Q1904	Steel	Central	0.77	135°	135°	135°	80°
B1905	Aluminum	Right	0.46	135°	135°	135°	80°
Q1905	Steel	Right	0.81	135°	135°	135°	80°
B1906	Aluminum	Left	0.46	135°	135°	135°	80°
Q1906	Steel	Left	0.81	135°	135°	135°	80°

Screws: M6x25 **Tightening torque:** 10 N m / 7.37 lb ft



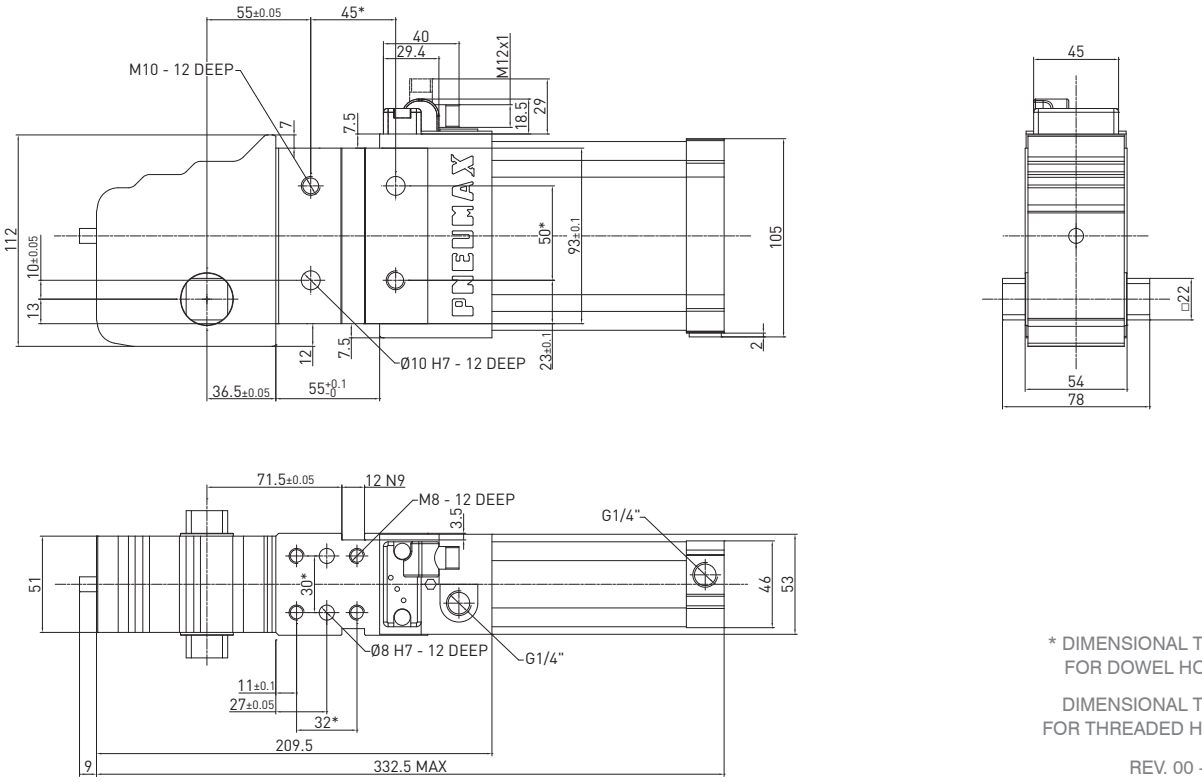
19 mm shaft – 25 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B1921	Aluminum	Central	0.43	135°	115°	135°	80°
B1922	Aluminum	Right	0.44	135°	115°	135°	80°
B1923	Aluminum	Left	0.44	135°	115°	135°	80°

Screws: M6x25 **Tightening torque:** 10 N m / 7.37 lb ft

C1P63E / **Power clamp** - International mount - 63 mm bore

WEIGHT 3.5 kg



* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

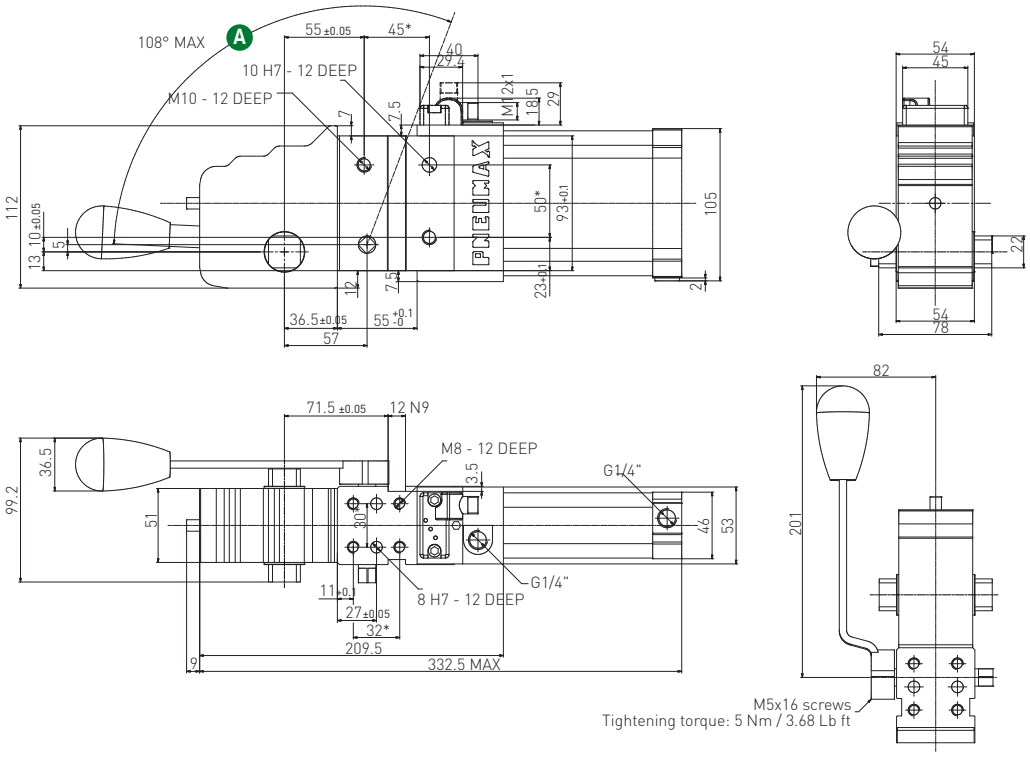
DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 31/03/2015

C1D_63E / **Power clamp** - International mount - 63 mm bore with manual operation

WEIGHT 3.93 kg

D2 handle included



D1 version

D2 version

Handle swivel angle

Arm opening angle	A Handle swivel angle
0°	2.65°
15°	26.35°
30°	41.38°
45°	56°
60°	70.38°
75°	83.43°
90°	94°
105°	102°
120°	107°
135°	110.7°

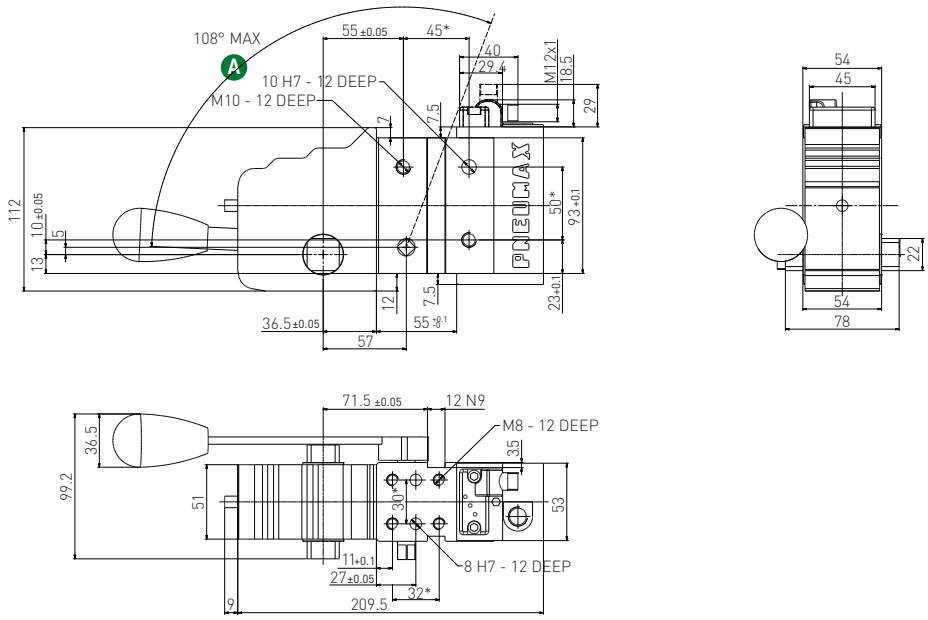
Max Hand Force: 200 N

* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 17/06/2015

C1M_63E / Manual power clamp - International mount



WEIGHT 3.3 kg
D2 handle included

Handle swivel angle

Arm opening angle	A Handle swivel angle
0°	2.65°
15°	26.35°
30°	41.38°
45°	56°
60°	70.38°
75°	83.43°
90°	94°
105°	102°
120°	107°
135°	110.7°

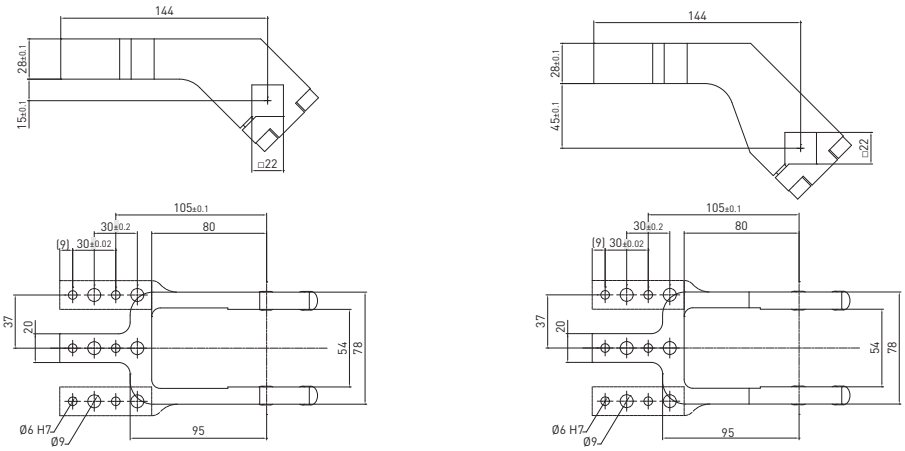
Max Hand Force: 200 N

* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 19/01/2022

Clamping arms / 22 mm shaft



REV. 01 - 08/02/2019

22 mm shaft – 15 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B2201	Aluminum	Central	0.52	135°	115°	135°	80°
Q2201	Steel	Central	0.9	135°	115°	135°	80°
B2202	Aluminum	Right	0.54	135°	115°	135°	80°
Q2202	Steel	Right	0.93	135°	115°	135°	80°
B2203	Aluminum	Left	0.54	135°	115°	135°	80°
Q2203	Steel	Left	0.93	135°	115°	135°	80°

Screws: M8x25 **Tightening torque:** 25 N m / 18.43 lb ft

22 mm shaft – 15 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B2215	Aluminum	H	0,63	135°	115°	135°	80°

Screws: M8x25 **Tightening torque:** 25 N m / 18.43 lb ft

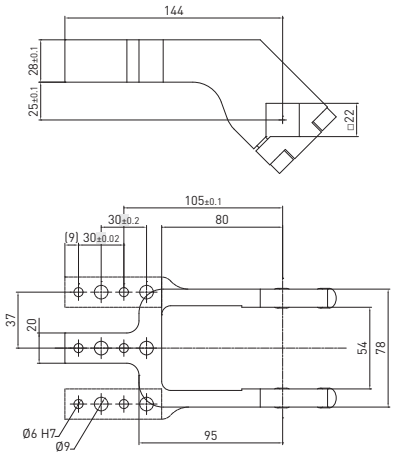
22 mm shaft – 45 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B2204	Aluminum	Central	0.57	135°	135°	135°	75°
Q2204	Steel	Central	0.98	135°	135°	135°	75°
B2205	Aluminum	Right	0.58	135°	135°	135°	75°
Q2205	Steel	Right	1.02	135°	135°	135°	75°
B2206	Aluminum	Left	0.58	135°	135°	135°	75°
Q2206	Steel	Left	1.02	135°	135°	135°	75°

Screws: M8x25 **Tightening torque:** 25 N m / 18.43 lb ft

Clamping arms / 22 mm shaft

REV. 01 - 08/02/2019



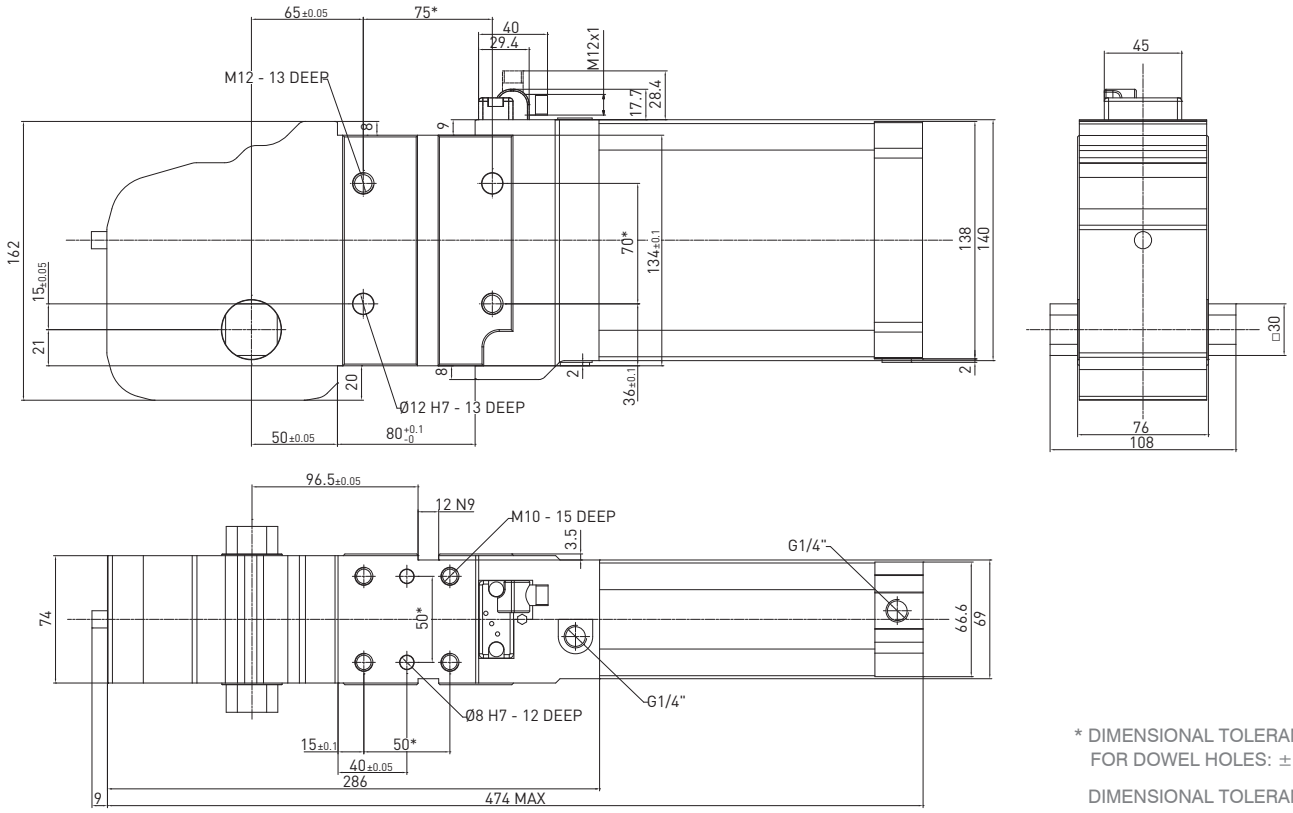
22 mm shaft – 25 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B2221	Aluminum	Central	0.55	135°	115°	135°	80°
B2222	Aluminum	Right	0.57	135°	115°	135°	80°
B2223	Aluminum	Left	0.57	135°	115°	135°	80°

Screws: M8x25 **Tightening torque:** 25 N m / 18.43 lb ft

C1P80E / Power clamp - International mount - 80 mm bore

WEIGHT 8.54 kg

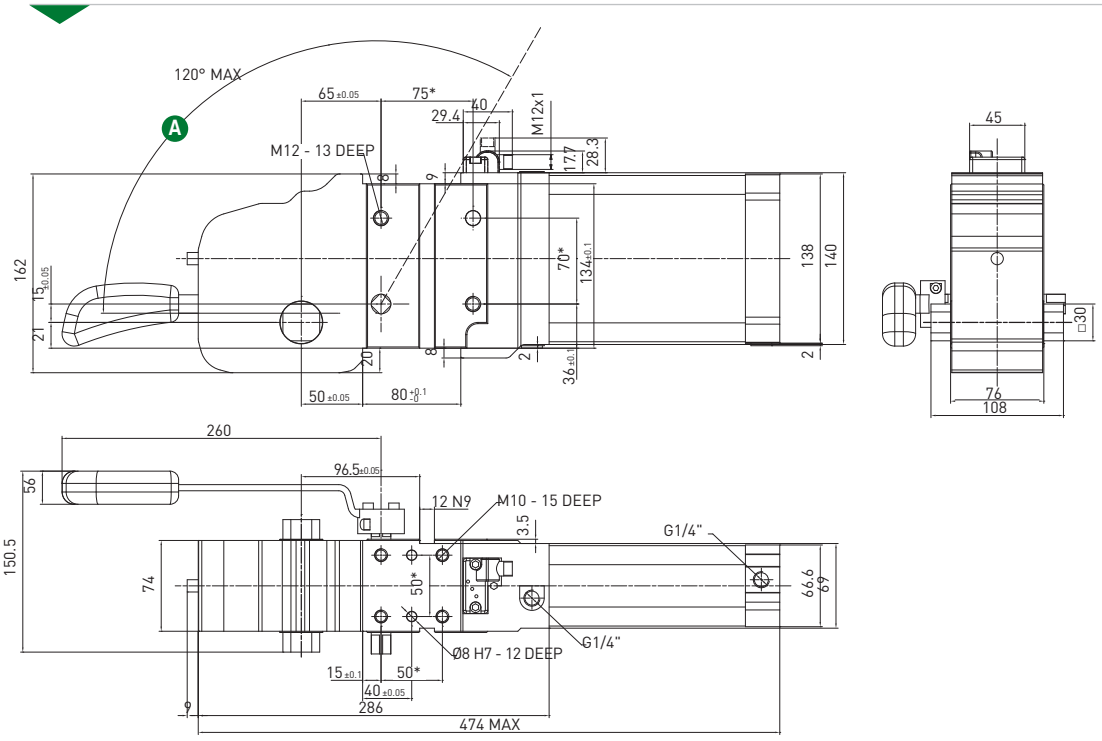


* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 31/03/2015

C1D280E / **Power clamp** - International mount - 80 mm bore with manual operation



WEIGHT 8.8 kg

Handle swivel angle

Arm opening angle	A Handle swivel angle
0°	3°
15°	22°
30°	36°
45°	51.3°
60°	68°
75°	84.2°
90°	98°
105°	108°
120°	115°
135°	119°

Max Hand Force: 200 N

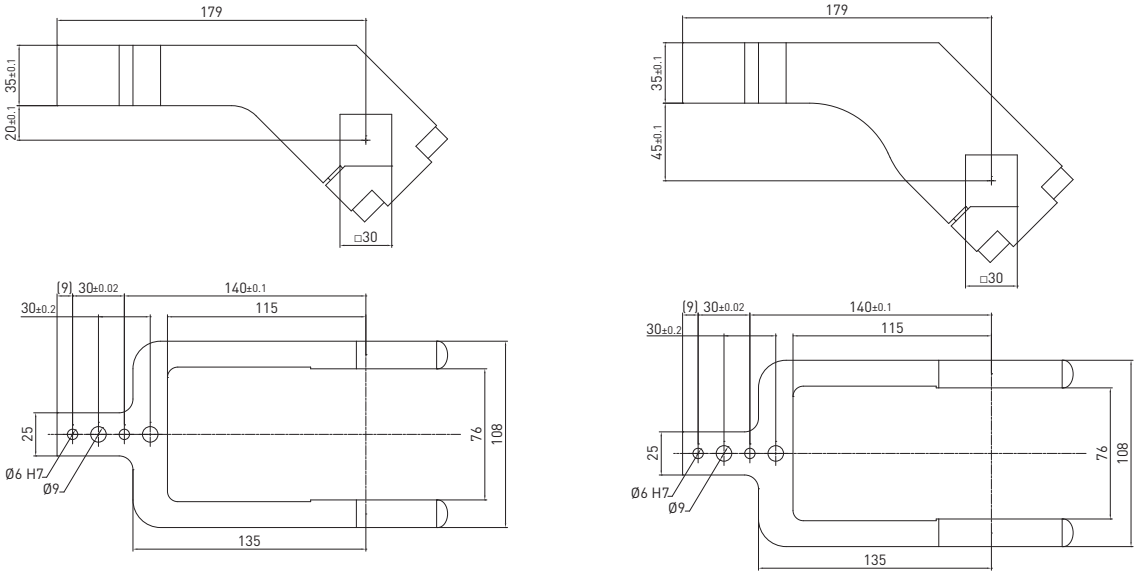
* DIMENSIONAL TOLERANCE FOR DOWEL HOLES: ±0.02

DIMENSIONAL TOLERANCE FOR THREADED HOLES: ±0.1

REV. 00 - 03/03/2017

Clamping arms / 30 mm shaft

REV. 01 - 08/02/2019



30 mm shaft – 20 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B3001	Aluminum	Central	1.1	135°	110°	135°	75°
B3002	Aluminum	Right	1.15	135°	110°	135°	75°
B3003	Aluminum	Left	1.15	135°	110°	135°	75°

Screws: M10x40 **Tightening torque:** 35 N m / 25.81 lb ft

30 mm shaft – 45 mm offset

Part no.	Material	Version	Weight (kg)	Max op. angle pos. 1	Max op. angle pos. 2	Max op. angle pos. 3	Max op. angle pos. 4
B3004	Aluminum	Central	1.18	135°	110°	135°	75°
B3005	Aluminum	Right	1.2	135°	110°	135°	75°
B3006	Aluminum	Left	1.2	135°	110°	135°	75°

Screws: M10x40 **Tightening torque:** 35 N m / 25.81 lb ft