numatics®

Power Clamps

www.numatics.com

EMERSON
Industrial Automation

numatics®

Numatics, Inc. is a leading manufacturer of pneumatic products and motion control products. Our broad spectrum of standard, custom developed products and application components have made a significant impact on pneumatic innovation as well as pneumatic and motion control technology. Our company has an extensive history of generating innovative concepts and technological breakthroughs. Many of today's standard features in pneumatic technology were industry firsts from Numatics. We continue our innovative approach to product development by developing electric motion control solutions and enhancing our embedded Fieldbus and I/O products to continually meet and solve our customer's application requirements.

Today Numatics is proud to be a part of the Industrial Automation Division of Emerson Electric Co.
Emerson (NYSE:EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. For more information, visit www.Emerson.com.

EMERSON™
Industrial Automation

Table of Contents

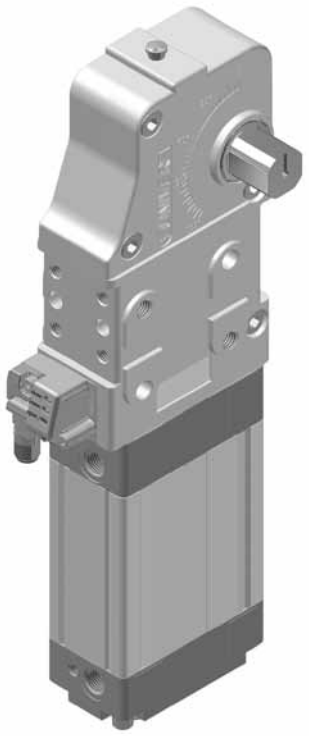
Power Clamps

Pnuematic

UNP Series Pneumatic Power Clamp

Features

- Conforms to NAAMS Standards
- Blade and foot mounting
- Fully adjustable opening angle
- Opening angle can be set with or without air pressure
- Unique linkage design ensures positional repeatability
- Linear and rotary motion guided by roller bearings
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the cylinder
- Manual release button to open mechanism when air pressure is removed
- Unique “programmable” all metal sensor with M12 swivel connector



General Specifications

Weight:
UNP50: 3.2 Kg (7.1 lbs)
UNP63: 3.6 Kg (7.9 lbs)
UNP80: 11.5 Kg (25.4 lbs)

Operating Pressure:
Minimum: 2.75 Bar (40 PSI)
Maximum: 8 Bar (115 PSI)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP65

Opening Angles:
UNP50, 63, 80: Fully adjustable from 0˚ to 135˚

Holding Capacity:
UNP50: 1250 Nm (11063 in-lbs)
UNP63: 1750 Nm (15488 in-lbs)
UNP80: 4000 Nm (35402 in-lbs)

How to Order

UN P 63 N N E N

Series
UN = UNIVERSAL power clamps conforming to NAAMS Standard fully adjustable opening angle

Version
P = Pneumatic standard

Size
50 = 50 mm
63 = 63 mm
80 = 80 mm

Port Type
N = 1/4" NPT
G = G 1/4"

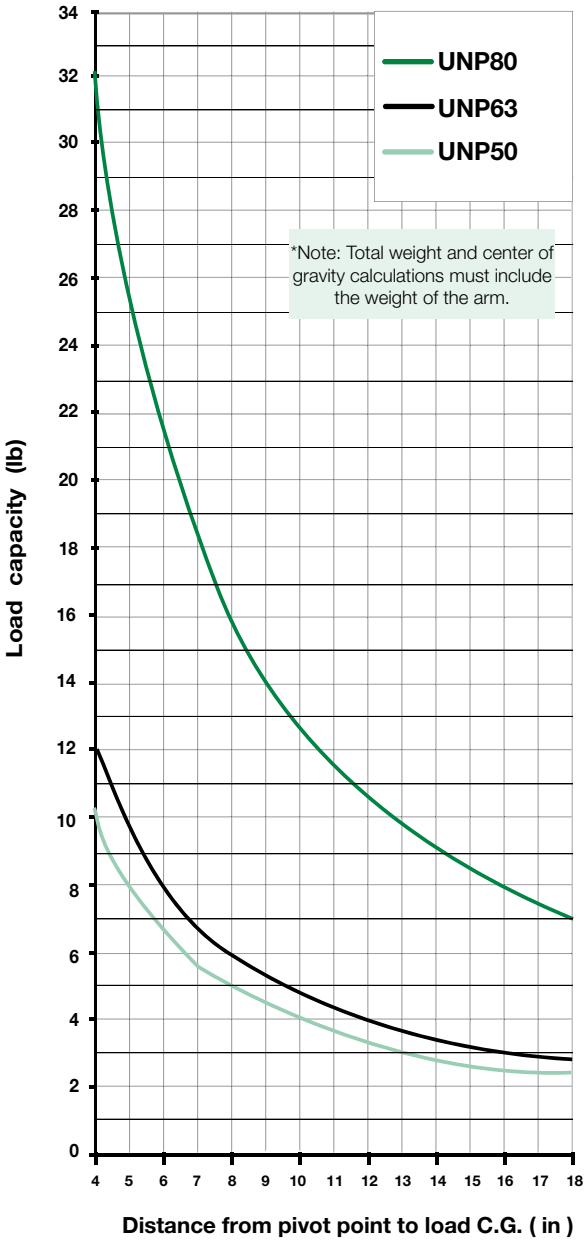
Sensing Style
N = No sensor
E = Electronic 24 VDC sensor with M12 swivel connector

Output Shaft
N = Dual shaft
L = Left side only
R = Right side only

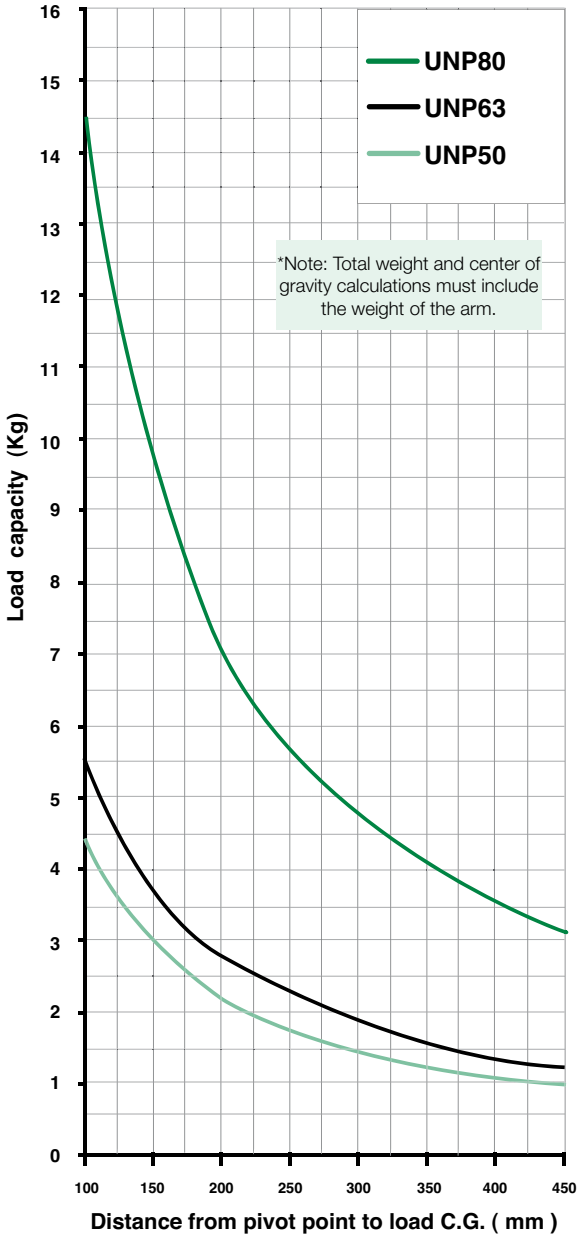
Clamping Arm
N = No arm

Maximum Applicable Load

English
operating pressure : 60 PSI



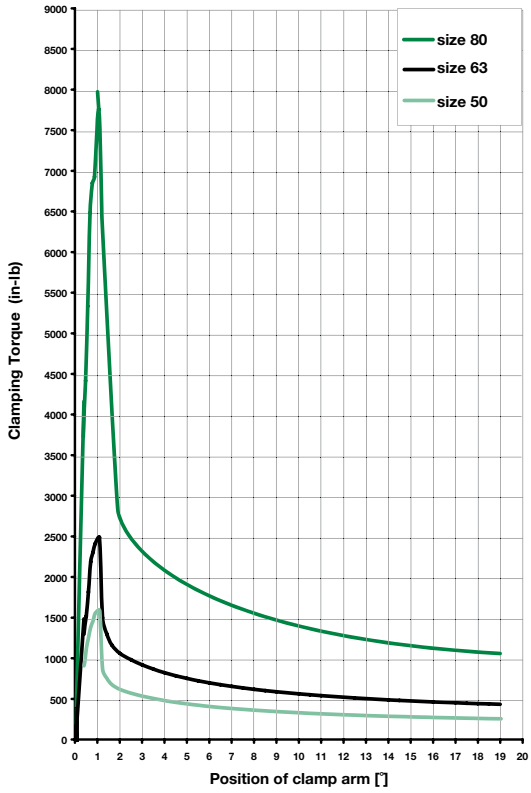
Metric
operating pressure : 4 bar



Maximum Clamping Torque

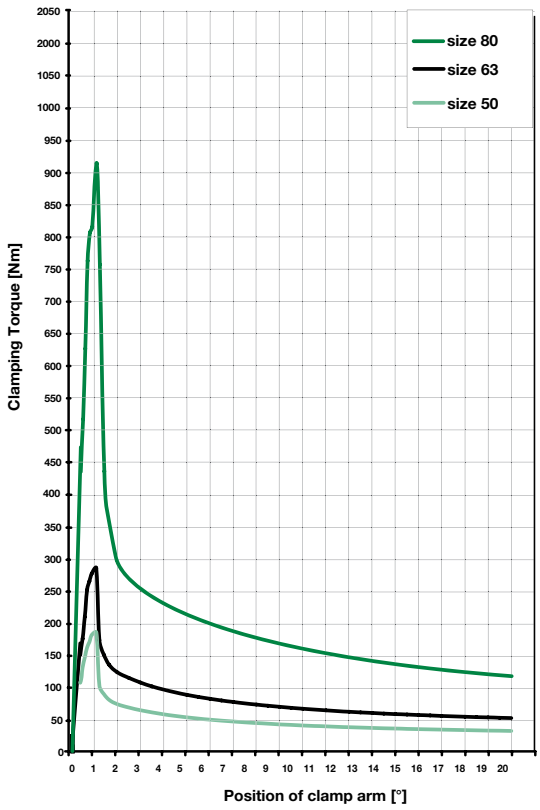
English

operating pressure : 60 PSI



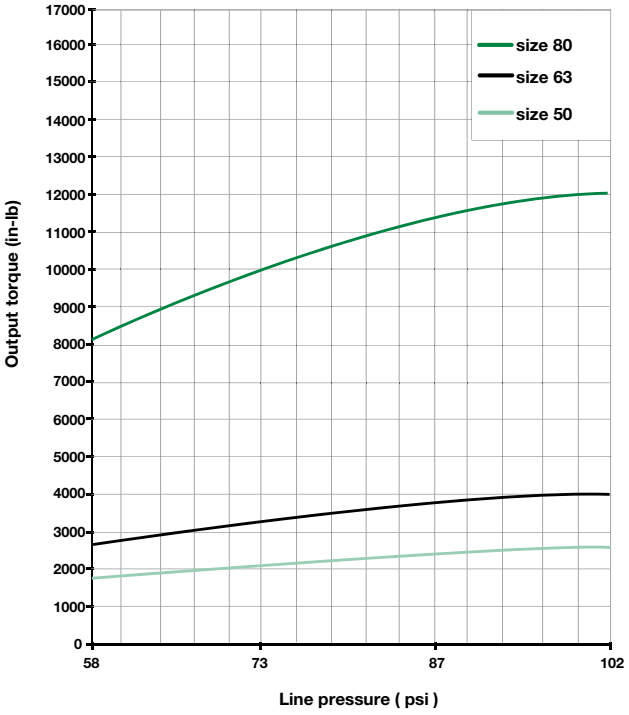
Metric

operating pressure : 4 bar

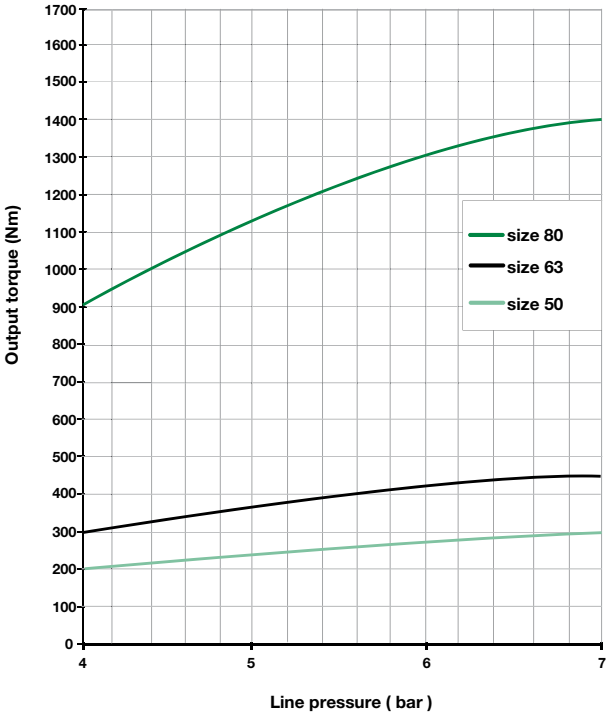


Maximum Output Torque

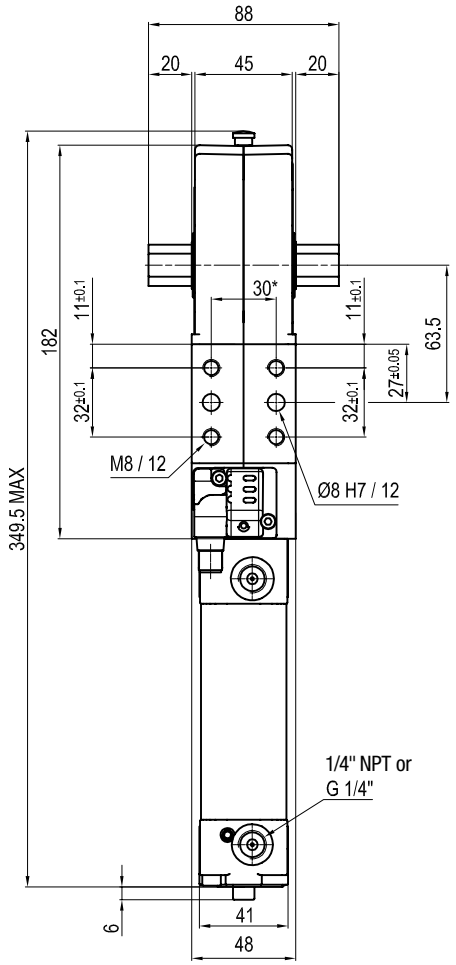
English

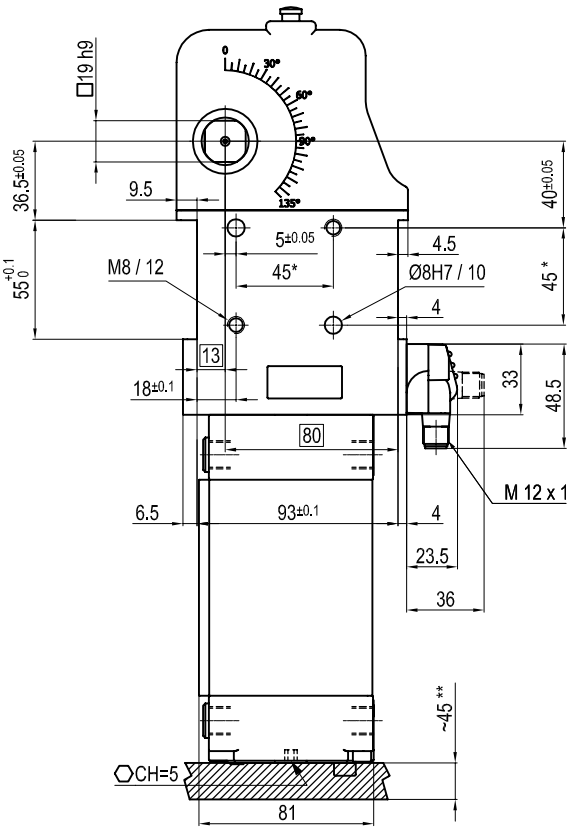


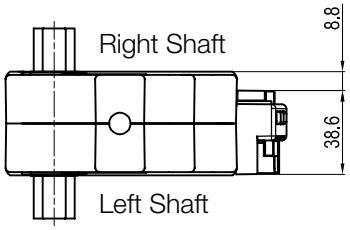
Metric



UNP50N_E Pneumatic Power Clamp

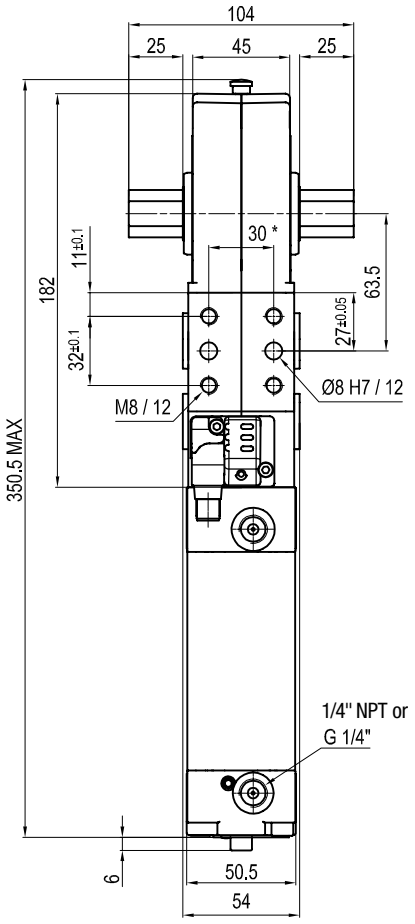


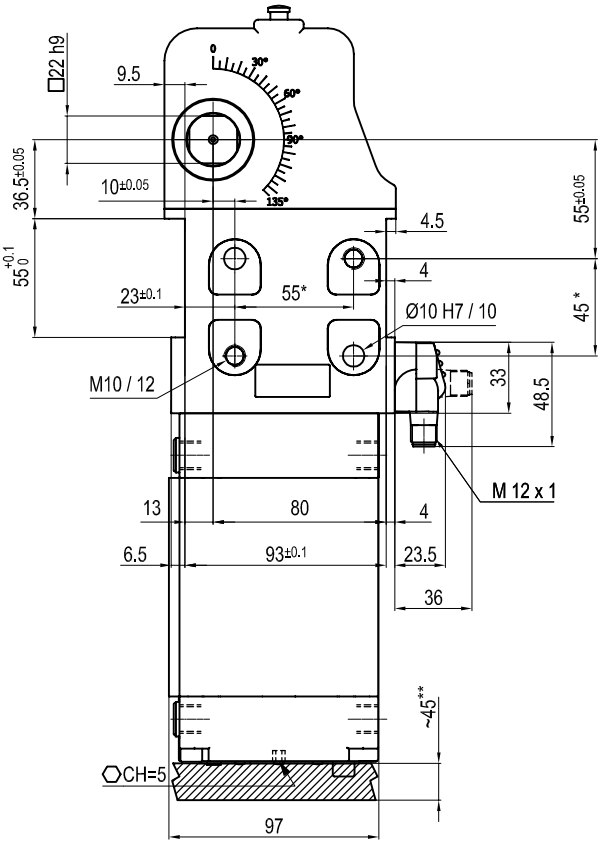


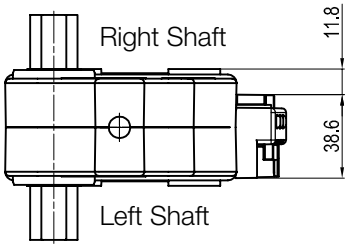


* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** Area to access angle adjustment

UNP63N_E Pneumatic Power Clamp

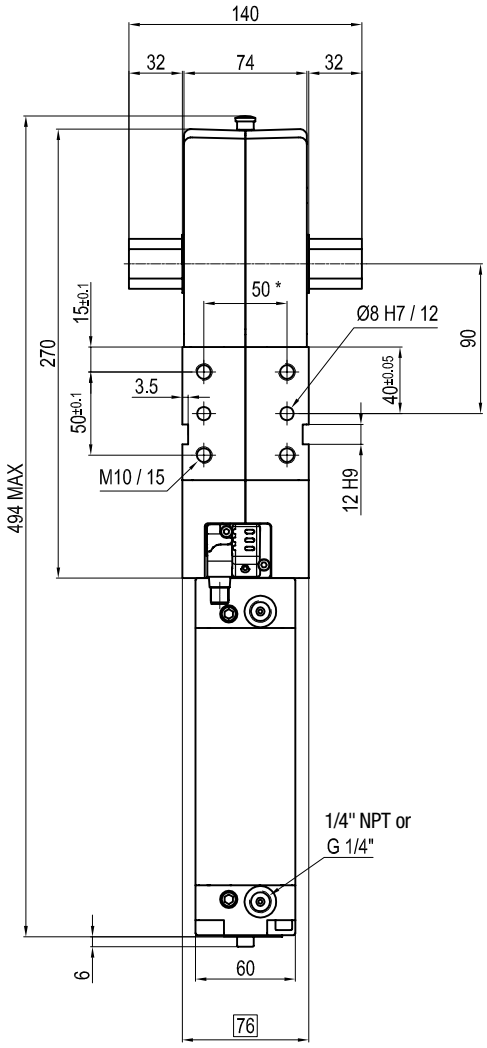


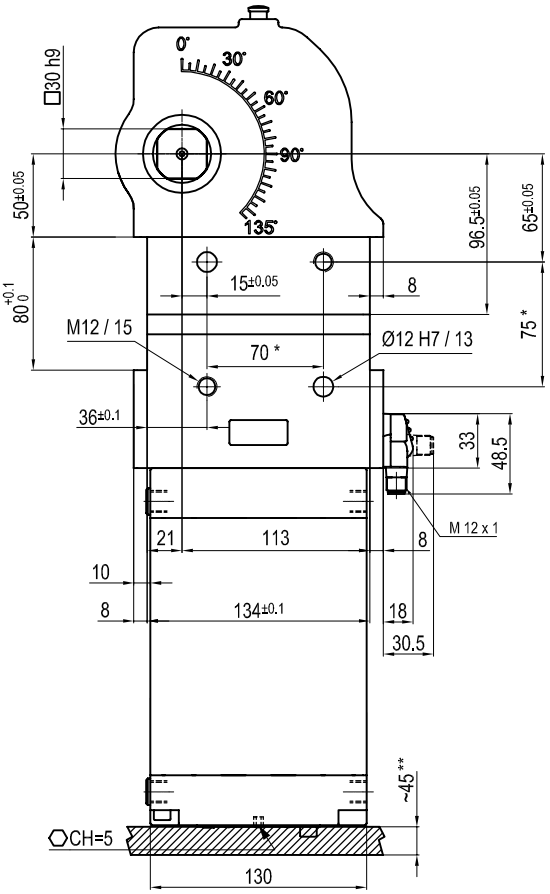


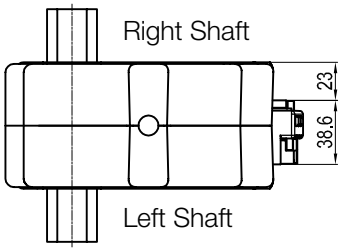


* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** Area to access angle adjustment

UNP80N_E Pneumatic Power Clamp

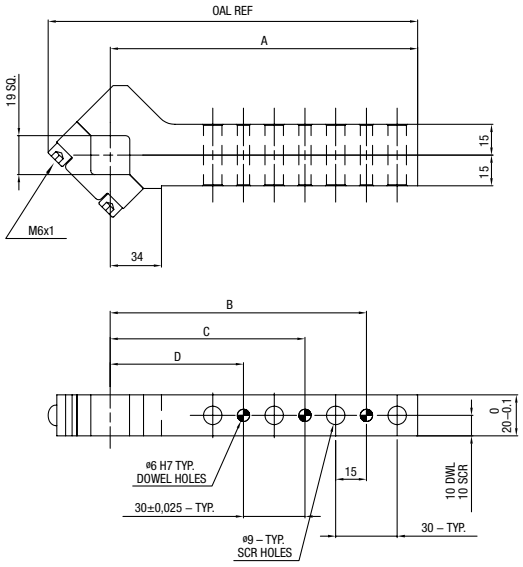






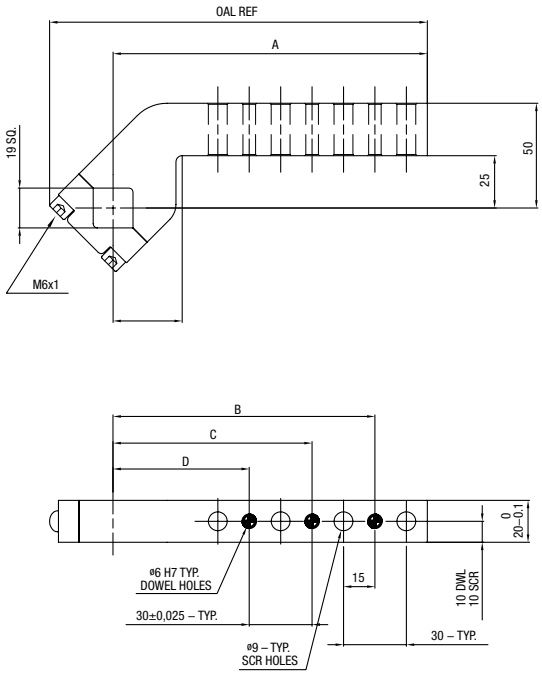
* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
** Area to access angle adjustment

UNP50 - NAAMS Arm - 19mm, Offset 0mm



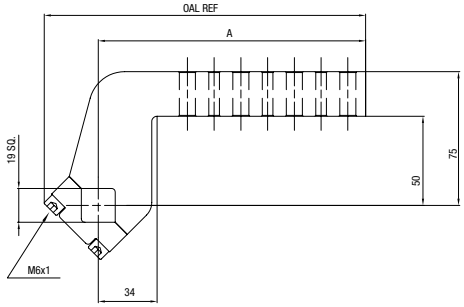
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	OAL (Ref)	Weight Kg
N206ME	ACA236M	90.0	65	-	-	120	0.53
N207ME	ACA237M	120.0	95	65	-	150	0.65
N208ME	ACA238M	150.0	125	95	65	180	0.77

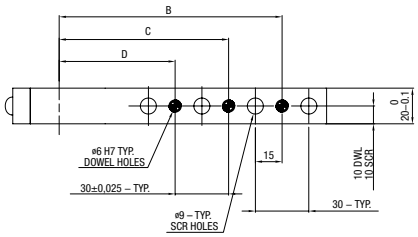
UNP50 - NAAMS Arm - 19mm, Offset 25mm



Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	OAL (Ref)	Weight Kg
N216ME	ACA246M	90.0	65	-	-	120	0.56
N217ME	ACA247M	120.0	95	65	-	150	0.66
N218ME	ACA248M	150.0	125	95	65	180	0.77

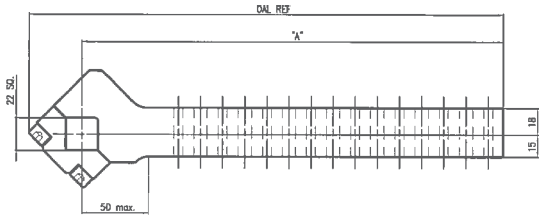
UNP50 - NAAMS Arm - 19mm, Offset 50mm

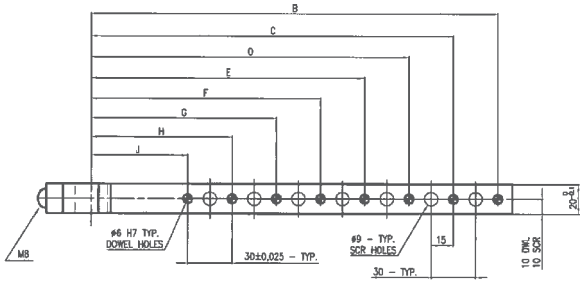




Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	OAL (Ref)	Weight Kg
N226ME	ACA256M	90.0	65	-	-	120	0.76
N227ME	ACA257M	120.0	95	65	-	150	0.86
N228ME	ACA258M	150.0	125	95	65	180	0.96

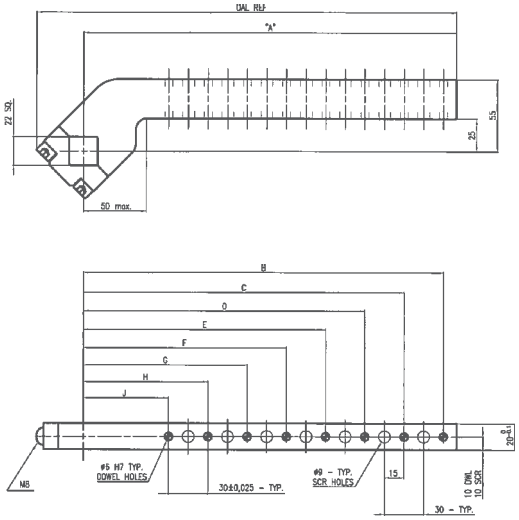
UNP63 - NAAMS Arm - 22mm, Offset 0mm





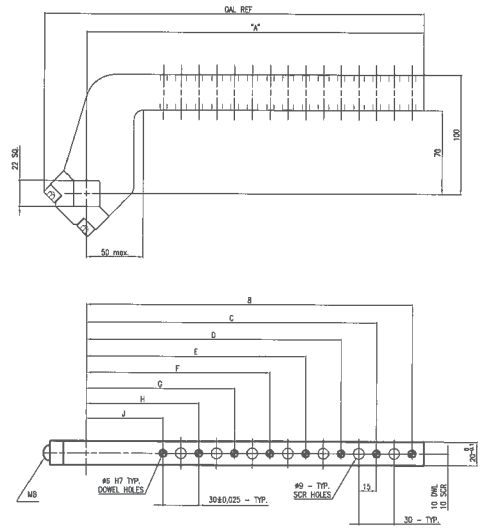
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	E	F Dowel	G	H Dowel	Dim 'J'	OAL (Ref)	Weight Kg
N007ME	GCA007M	135.0	125	95	65	-	-	-	-	-	171	0.91
N008ME	GCA008M	165.0	155	125	95	65	-	-	-	-	201	1.04
N009ME	GCA009M	195.0	185	155	125	95	65	-	-	-	231	117
N010ME	GCA010M	225.0	215	185	155	125	95	65	-	-	261	130
N011ME	GCA011M	255.0	245	215	185	155	125	95	65	-	291	143
N012ME	GCA012M	285.0	275	245	215	185	155	125	95	65	321	156

UNP63 - NAAMS Arm - 22mm, Offset 25mm



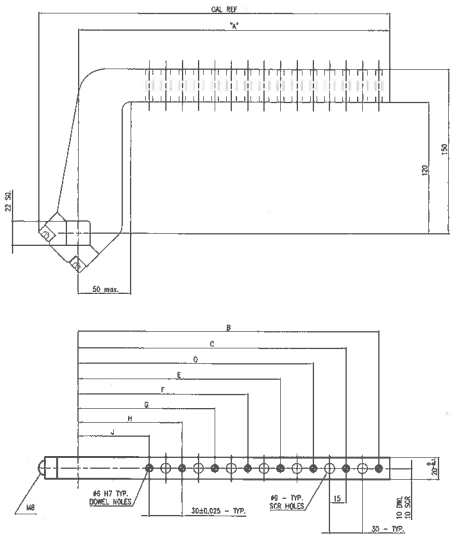
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	E	F Dowel	G	H Dowel	Dim 'J'	OAL (Ref)	Weight Kg
N019ME	GCA019M	135.0	125	95	65	-	-	-	-	-	171	0.94
N020ME	GCA020M	165.0	155	125	95	65	-	-	-	-	201	1.06
N021ME	GCA021M	195.0	185	155	125	95	65	-	-	-	231	1.18
N022ME	GCA022M	225.0	215	185	155	125	95	65	-	-	261	1.30
N023ME	GCA023M	255.0	245	215	175	155	125	95	65	-	291	1.42
N024ME	GCA024M	285.0	275	245	215	185	155	125	95	65	321	1.54

UNP63 - NAAMS Arm - 22mm, Offset 70mm



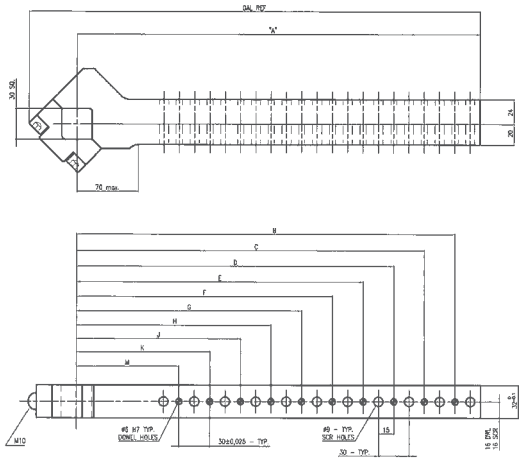
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	E	F Dowel	G	H Dowel	Dim 'J'	OAL (Ref)	Weight Kg
N031ME	GCA031M	135.0	125	95	65	-	-	-	-	-	171	1.29
N032ME	GCA032M	165.0	155	125	95	65	-	-	-	-	201	1.41
N033ME	GCA033M	195.0	185	155	125	95	65	-	-	-	231	1.53
N034ME	GCA034M	225.0	215	185	155	125	95	65	-	-	261	1.65
N035ME	GCA035M	245	215	185	155	125	95	65	-	-	291	1.77
N036ME	GCA036M	285.0	275	245	215	185	155	125	95	65	321	1.89

UNP63 - NAAMS Arm - 22mm, Offset 120mm



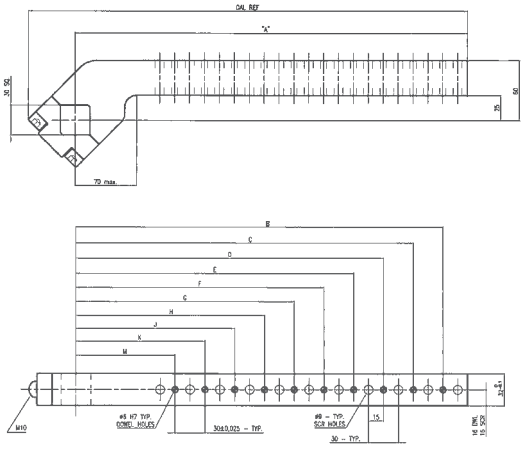
Part No.	NAAMS Code	Dim 'A' +1.5/-0	Dim 'B'	C	D Dowel	E	F Dowel	G	H Dowel	Dim 'J'	OAL (Ref)	Weight Kg
N043ME	GCA043M	135.0	125.00	95	65	-	-	-	-	-	171	1.67
N044ME	GCA044M	165.0	155.0	125	95	65	-	-	-	-	201	1.79
N045ME	GCA045M	195.0	185.00	155	125	95	65	-	-	-	231	1.91
N046ME	GCA046M	225.0	215.00	185	155	125	95	65	-	-	261	2.03
N047ME	GCA047M	255.0	245.00	215	185	155	125	95	65	-	291	2.15
N048ME	GCA048M	285.0	275.00	245	215	185	155	125	95	65	321	2.27

UNP80 - NAAMS Arm - 30mm, Offset 0mm



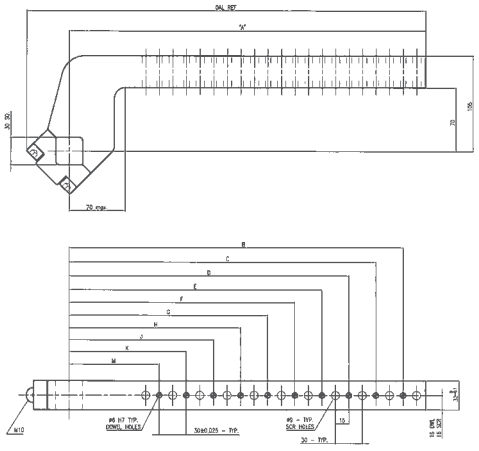
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	E	F Dowel	G	H Dowel	J	K Dowel	Dim 'M'	OAL (Ref)	Weight Kg
N110ME	GCA0110M	155.0	130	100	-	-	-	-	-	-	-	-	202	2.28
N111ME	GCA111M	185.0	160	130	100	-	-	-	-	-	-	-	232	2.57
N112ME	GCA112M	215.0	190	160	130	100	-	-	-	-	-	-	262	2.87
N113ME	GCA113M	245.0	220	190	160	130	100	-	-	-	-	-	292	3.17
N114ME	GCA114M	275.0	250	220	190	160	130	100	-	-	-	-	322	3.47
N115ME	GCA115M	305.0	280	250	220	190	160	130	100	-	-	-	362	3.77
N116ME	GCA116M	335.0	310	280	250	220	190	160	130	100	-	-	382	4.07
N117ME	GCA117M	365.0	340	310	280	250	220	190	160	130	100		412	4.37
N118ME	GCA118M	395.0	370	340	310	280	250	220	190	160	130	100	442	4.67

UNP80 - NAAMS Arm - 30mm, Offset 25mm



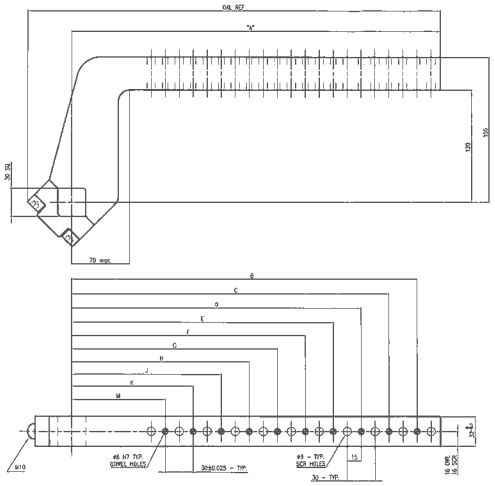
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	E	F Dowel	G	H Dowel	Dim 'J'	Dim 'K'	Dim 'M'	OAL (Ref)	Weight Kg
N130ME	GCA0130M	155.0	130	100	-	-	-	-	-	-	-	-	202	2.17
N131ME	GCA131M	185.0	160	130	100	-	-	-	-	-	-	-	232	2.42
N132ME	GCA132M	215.0	190	160	130	100	-	-	-	-	-	-	262	2.65
N133ME	GCA133M	245.0	220	190	160	130	100	-	-	-	-	-	292	2.88
N134ME	GCA134M	275.0	250	220	190	160	130	100	-	-	-	-	322	3.12
N135ME	GCA135M	305.0	280	250	220	190	160	130	100	-	-	-	362	3.36
N136ME	GCA136M	335.0	310	380	250	220	190	160	130	100	-	-	382	3.60
N137ME	GCA137M	365.0	340	310	280	250	220	190	160	130	100	-	412	3.84
N138ME	GCA138M	395.0	370	340	310	280	250	220	190	160	130	100	442	4.07

UNP80 - NAAMS Arm - 30mm, Offset 70mm



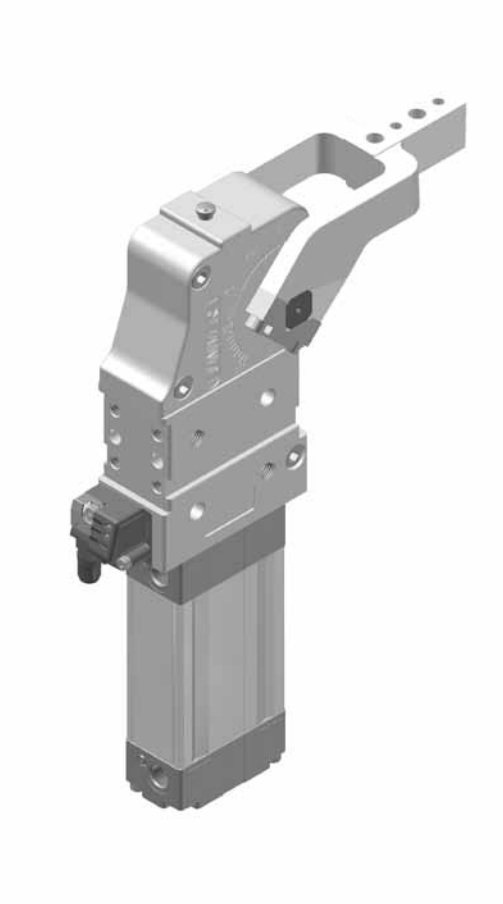
Part No.	NAAMS Code	Dim 'A' +1.5/-0	B Dowel	C	D Dowel	E	F Dowel	G	H Dowel	J	K Dowel	M	OAL (Ref)	Weight Kg
N150ME	GCA0150M	155.0	130	100	-	-	-	-	-	-	-	-	202	2.93
N151ME	GCA151M	185.0	160	130	100	-	-	-	-	-	-	-	232	3.17
N152ME	GCA152M	215.0	190	160	130	100	-	-	-	-	-	-	262	3.41
N153ME	GCA153M	245.0	220	190	160	130	100	-	-	-	-	-	292	3.65
N154ME	GCA154M	275.0	250	220	190	160	130	100	-	-	-	-	322	3.89
N155ME	GCA155M	305.0	280	250	220	190	160	130	100	-	-	-	362	4.12
N156ME	GCA156M	335.0	310	280	250	220	190	160	130	100	-	-	382	4.36
N157ME	GCA157M	365.0	340	310	280	250	220	190	160	130	100	-	412	4.60
N158M	GCA158M	395.0	370	340	310	280	250	220	190	160	130	100	442	4.84

UNP80 - NAAMS Arm - 30mm, Offset 120mm



Part No.	NAAMS Code	Dim 'A' +1.5/-0	Dim 'B'	Dim 'C'	Dim 'D'	Dim 'E'	Dim 'F'	Dim 'G'	Dim 'H'	Dim 'J'	Dim 'K'	Dim 'M'	OAL (Ref)	Weight Kg (lbs)
N170ME	GCA0170M	155.0	130	100	-	-	-	-	-	-	-	-	202	3.51
N171ME	GCA171M	185.0	160	130	100	-	-	-	-	-	-	-	232	3.74
N172ME	GCA172M	215.0	190	160	130	100	-	-	-	-	-	-	262	3.98
N173ME	GCA173M	245.0	220	190	160	130	100	-	-	-	-	-	292	4.22
N174ME	GCA174M	275.0	250	220	190	160	130	100	-	-	-	-	322	4.46
N175ME	GCA175M	305.0	280	250	220	190	160	130	100	-	-	-	362	4.70
N176ME	GCA176M	335.0	310	280	250	220	190	160	130	100	-	-	382	4.93
N177ME	GCA177M	365.0	340	310	280	250	220	190	160	130	100	-	412	5.17
N178ME	GCA178M	395.0	370	340	310	280	250	220	190	160	130	100	442	5.41

UB Series Pneumatic Power Clamp



Features

- Blade and foot mounting
- Fully adjustable opening angle
- Opening angle can be set with or without air pressure
- Unique linkage design ensures positional repeatability
- Linear and rotary motion guided by roller bearings
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the cylinder
- Manual release button to open mechanism when air pressure is removed
- Unique “programmable” all metal sensor with M12 swivel connector

General Specifications

Weight:
UBH40: 1.7 Kg (3.7 lbs)
UBP50: 3.2 Kg (7.1 lbs)
UBP63: 3.6 Kg (7.9 lbs)
UBP80: 11.5 Kg (25.4 lbs)

Operating Pressure:
Minimum: 2.75 Bar (40 PSI)
Maximum: 8 Bar (115 PSI)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP65

Opening Angles:
UBH40: Fully adjustable from 0˚ to 125˚
UBP50, 63, 80: Fully adjustable from 0˚ to 135˚

Holding Capacity:
UBH40: 600 Nm (5310 in-lbs)
UBP50: 1250 Nm (11063 in-lbs)
UBP63: 1750 Nm (15488 in-lbs)
UBP80: 4000 Nm (35402 in-lbs)

How to Order

UB P 63 V C E

Series
UB = UNIVERSAL power clamps fully adjustable opening angle

Version
H = Pneumatic standard 40 mm only
P = Pneumatic standard 50 & 63mm
Q = Pneumatic with manual lever 40mm only
M = Pneumatic with manual lever 50 & 63mm

Size
40 = 40 mm
50 = 50 mm
63 = 63 mm
80 = 80 mm

*Not available on 80mm Bore

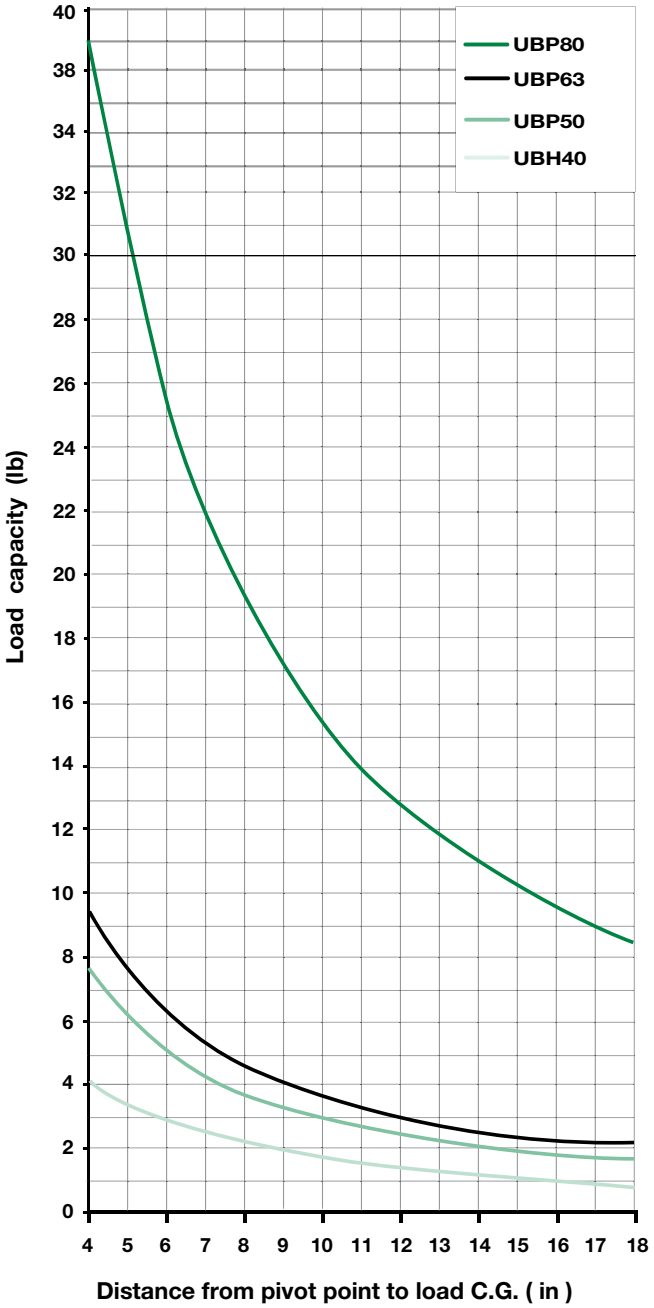
Sensing Style
N = No sensor (with protection plate)
E = Electronic 24 VDC sensor with M12 swivel connector

Arm Style
C = Central - standard
D = Right - standard
S = Left - standard
O = Central with self-holding system
P = Right with self-holding system
Q = Left with self-holding system
N = No arm

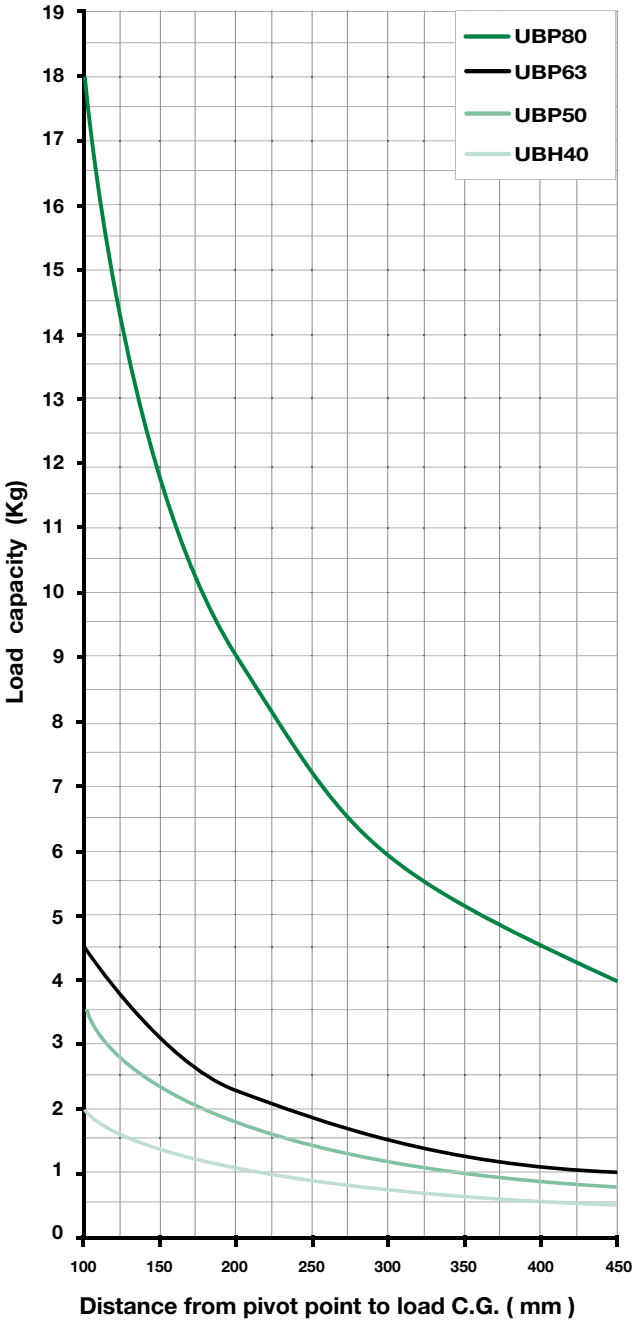
Arm Mount Position
V = 90˚
O = 180˚
N = No arm

Maximum Applicable Load

English
operating pressure : 70 PSI



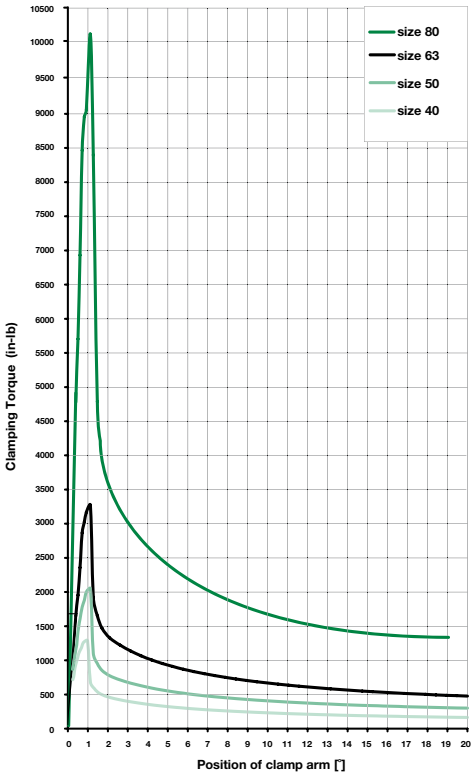
Metric
operating pressure : 5 bar



Maximum Clamping Torque

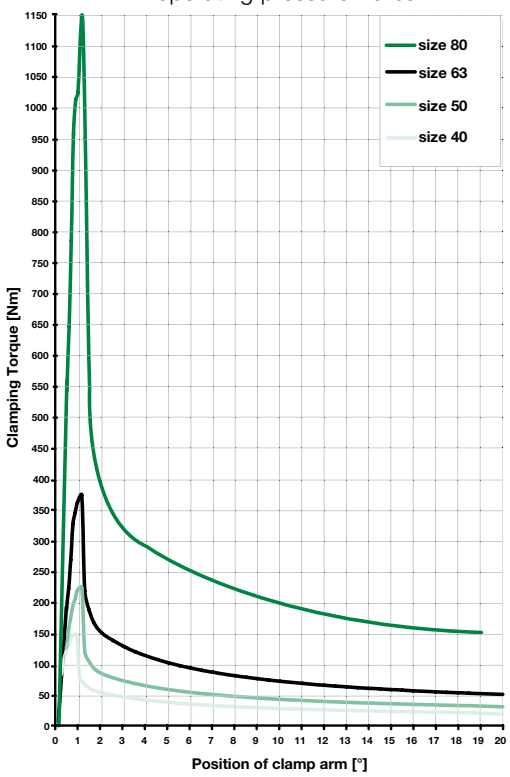
English

operating pressure : 70 PSI



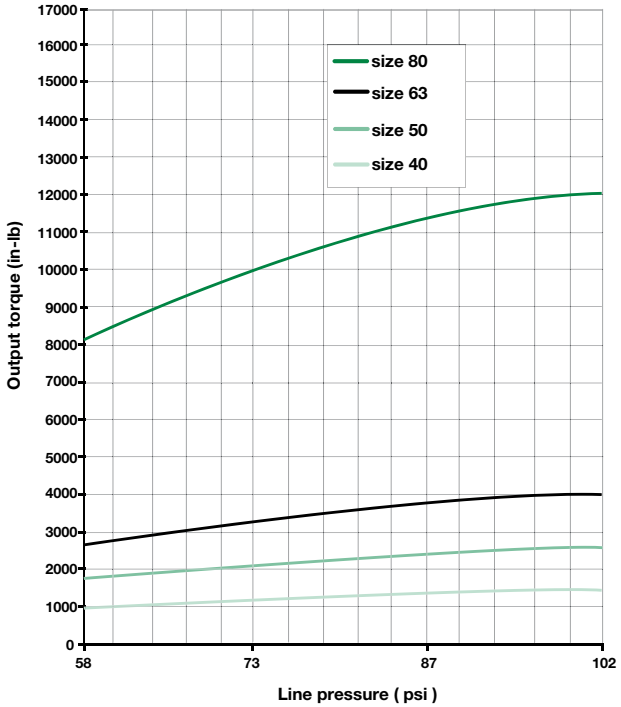
Metric

operating pressure : 5 bar

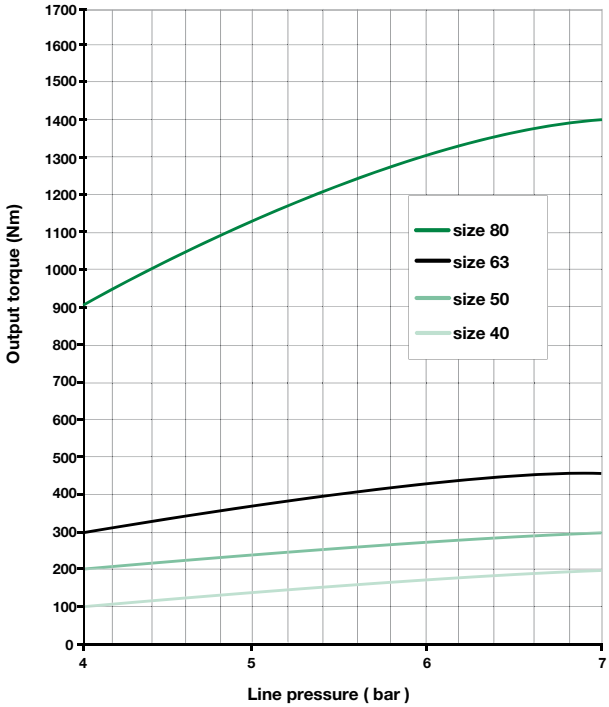


Maximum Output Torque

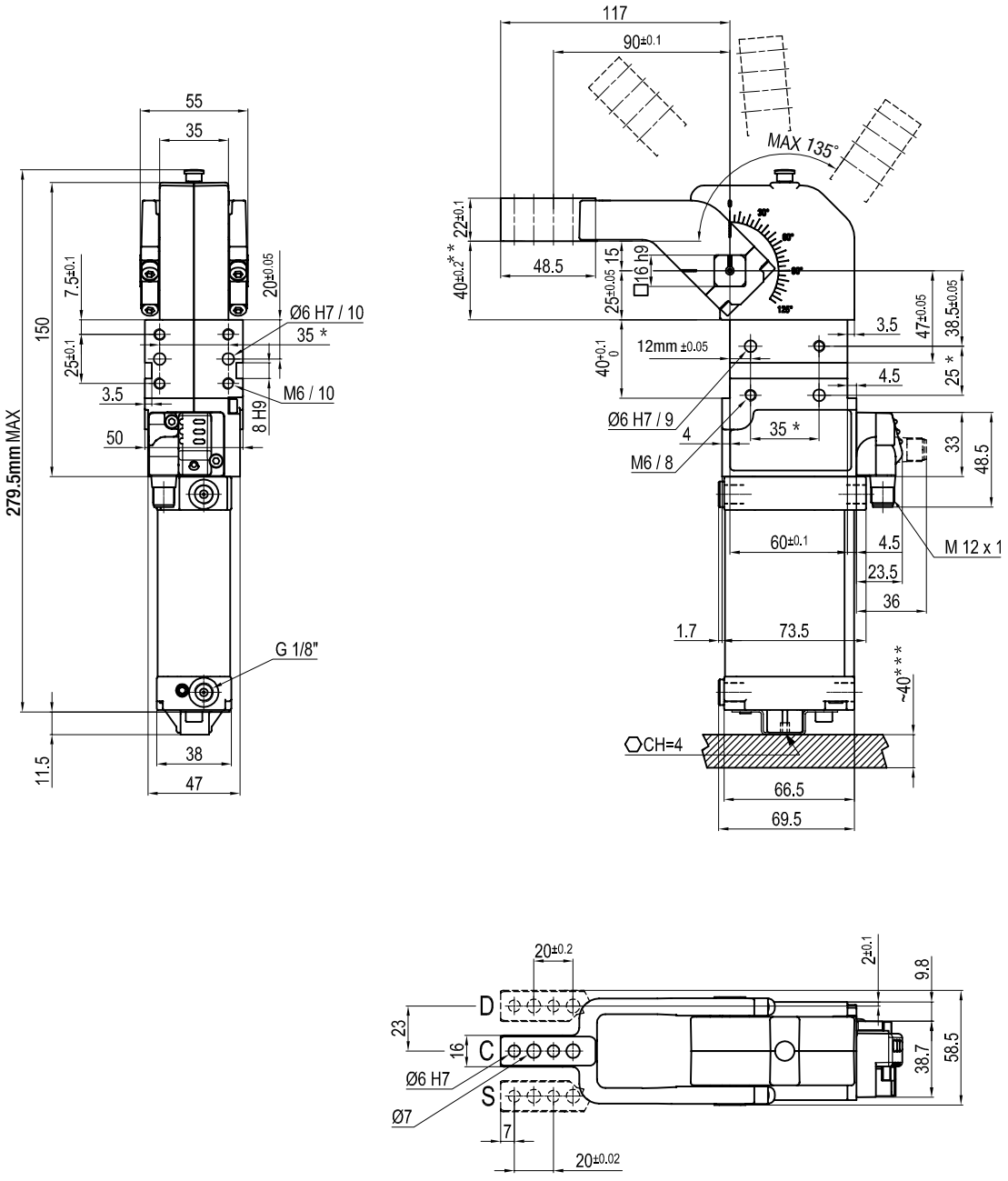
English



Metric

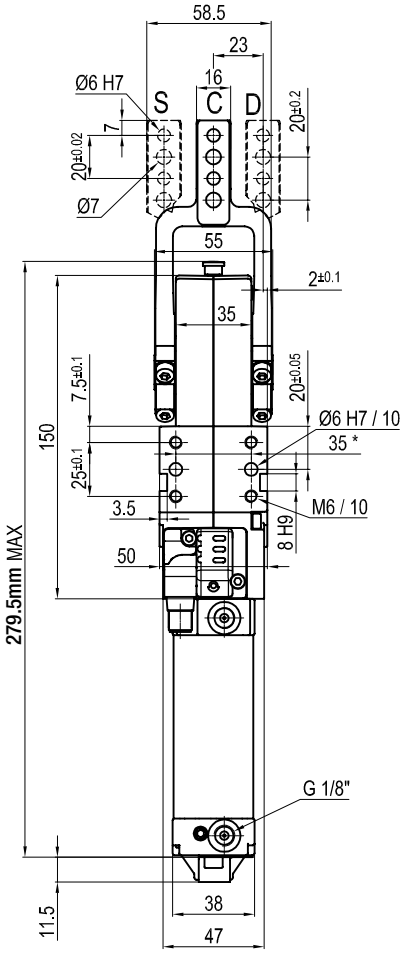


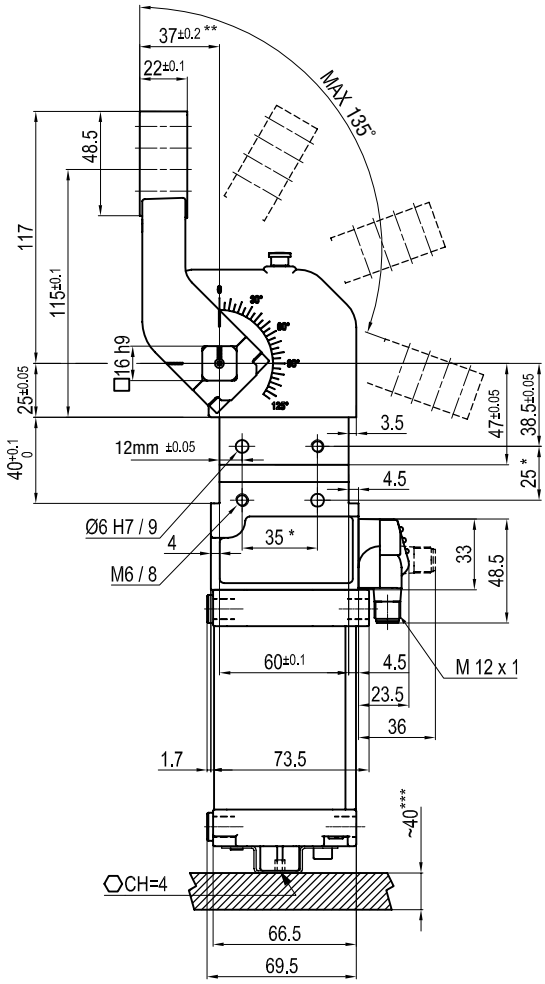
UBH40V_E Pneumatic Power Clamp

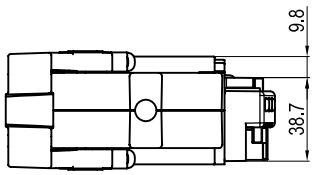


* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBH40O_E Pneumatic Power Clamp

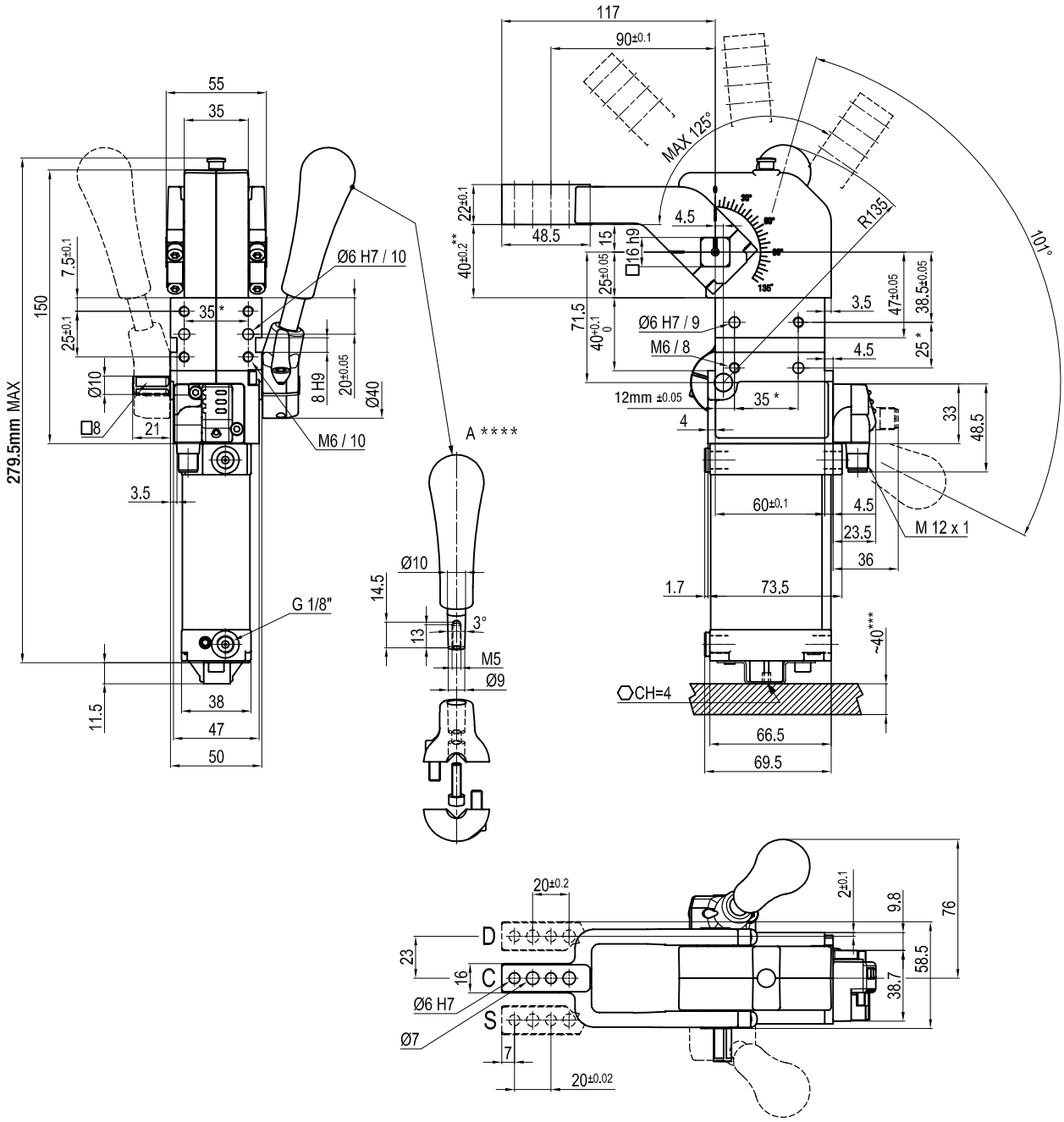






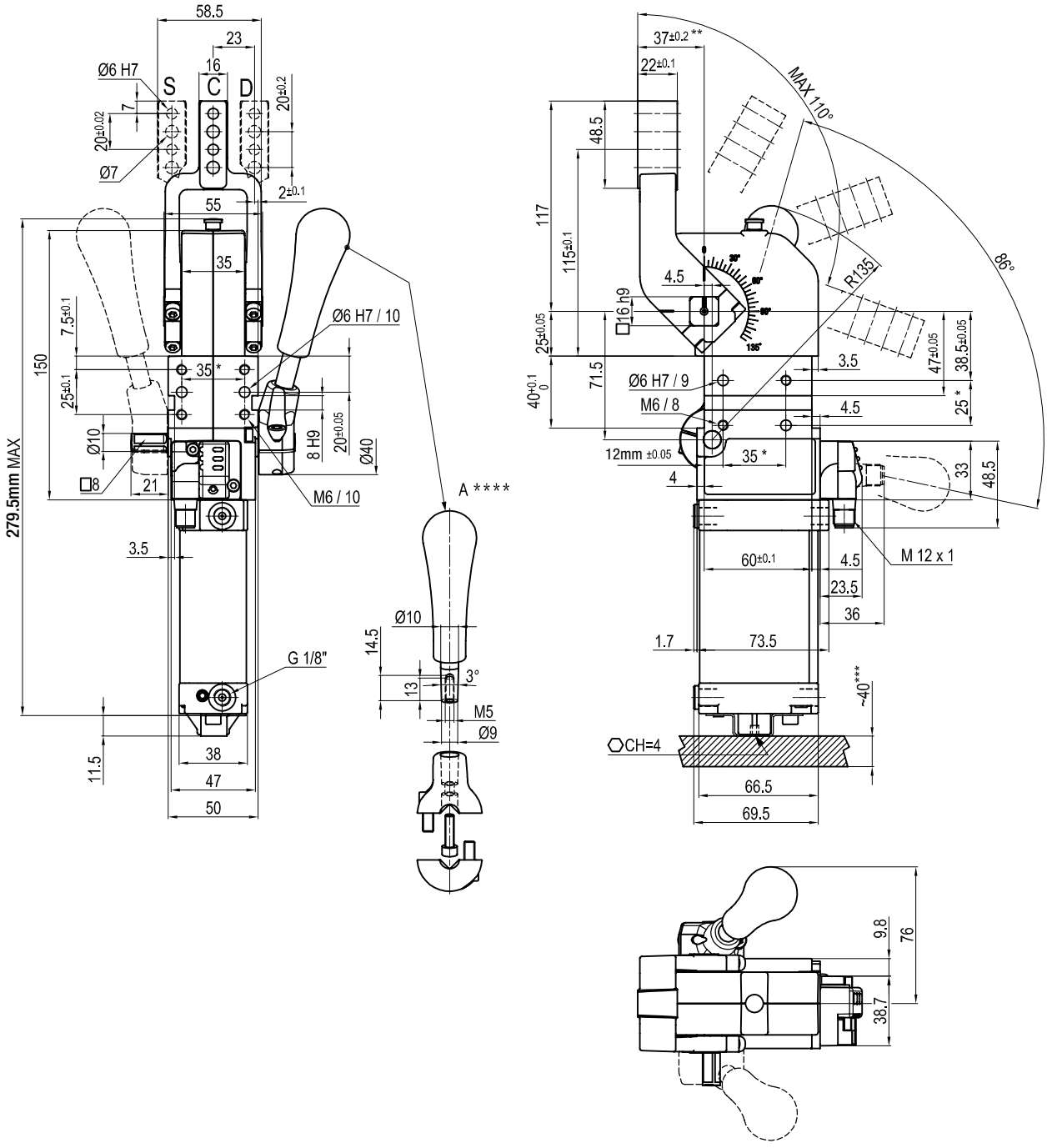
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBQ40V_E Pneumatic Power Clamp with Manual Lever



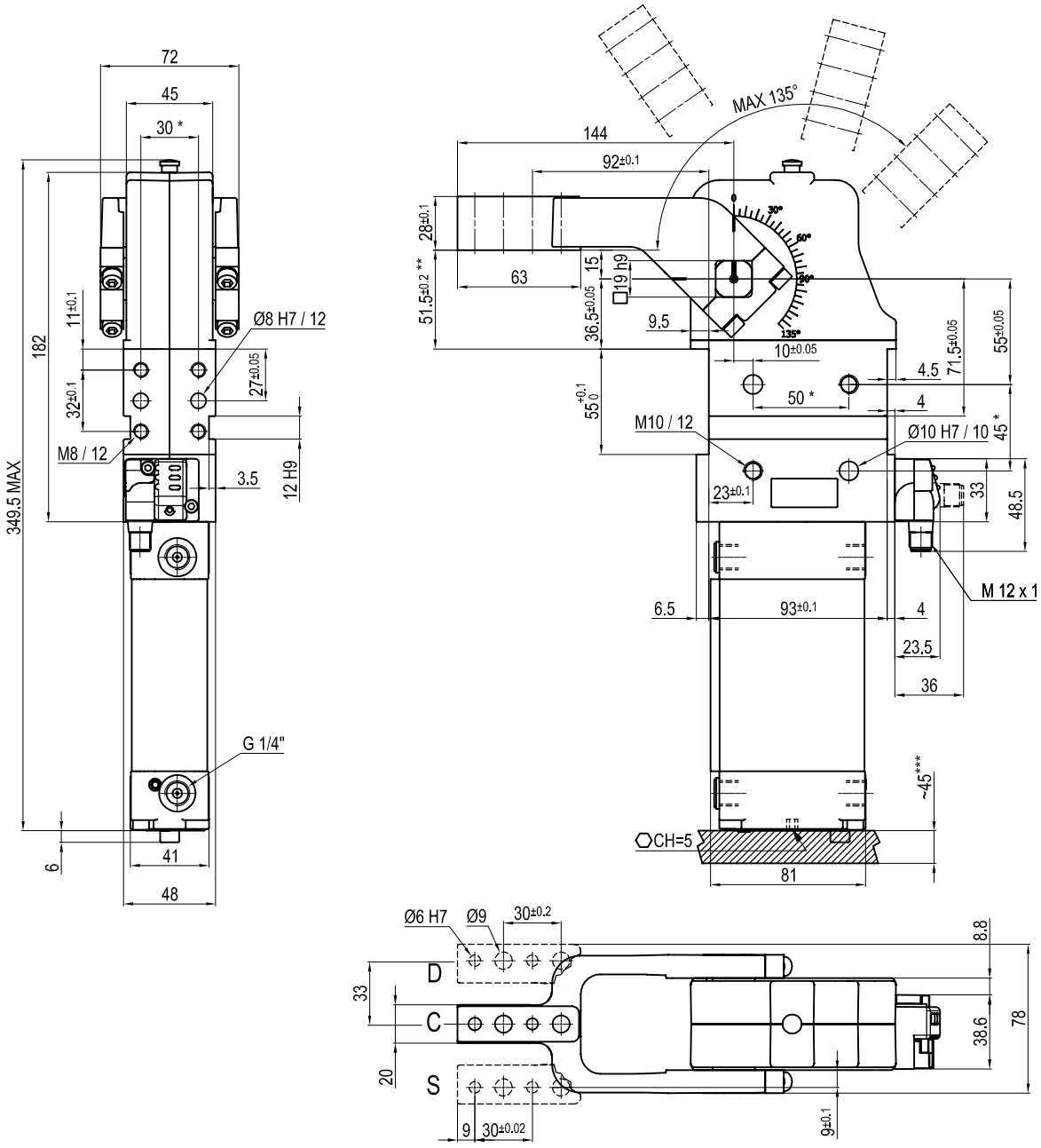
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

UBQ40O_E Pneumatic Power Clamp with Manual Lever



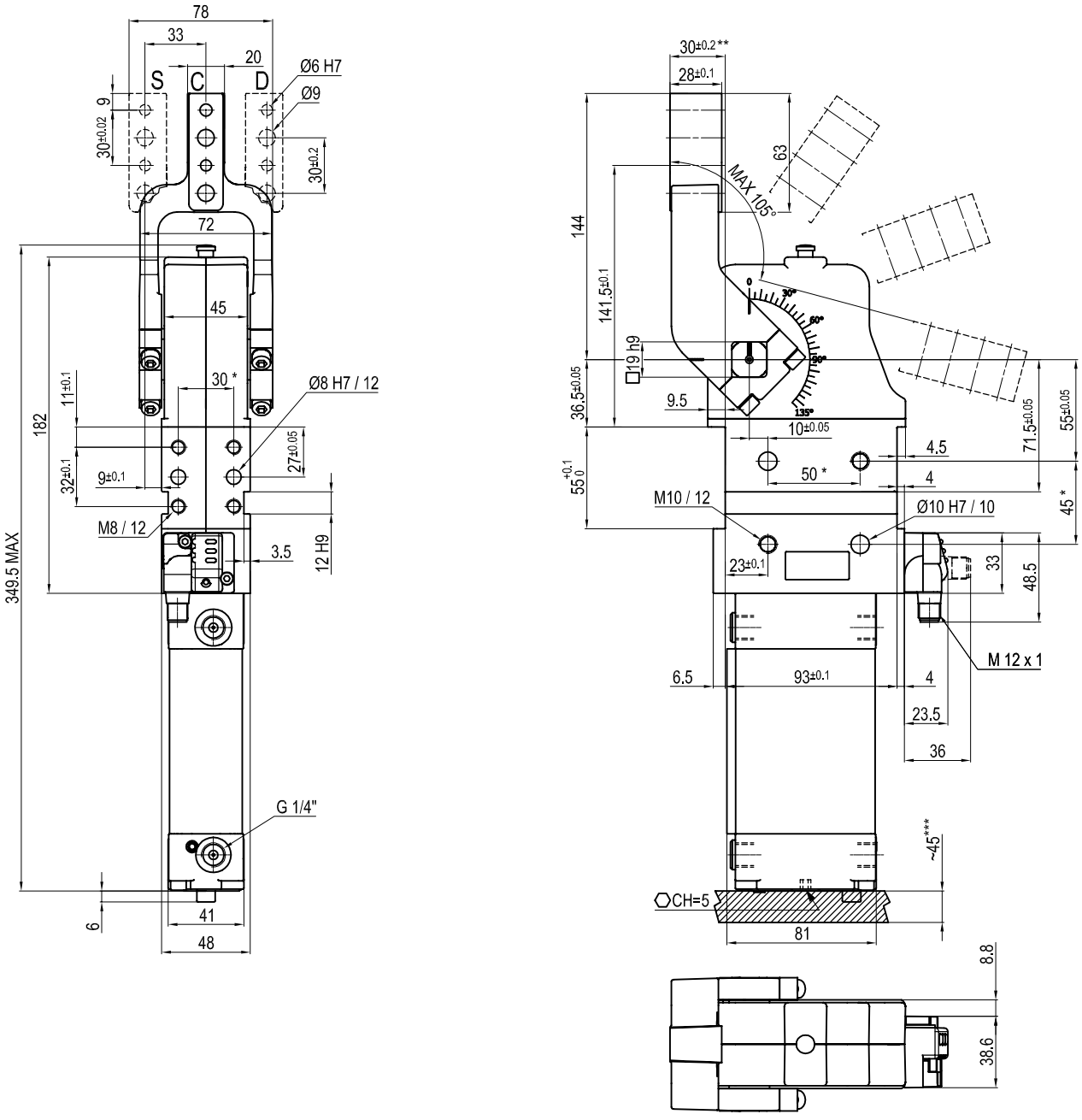
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

UBP50V_E Pneumatic Power Clamp



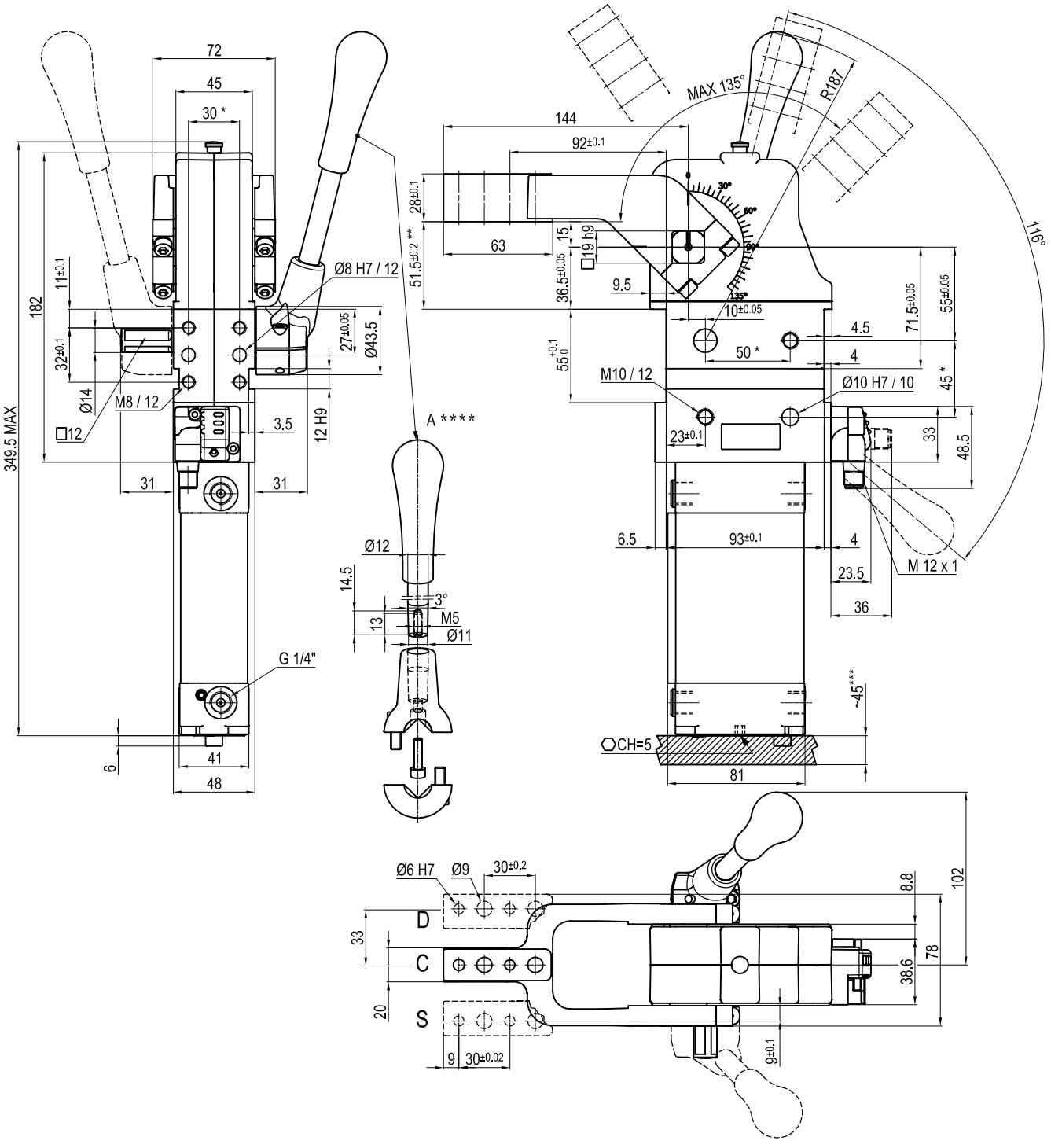
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBP50O_E Pneumatic Power Clamp



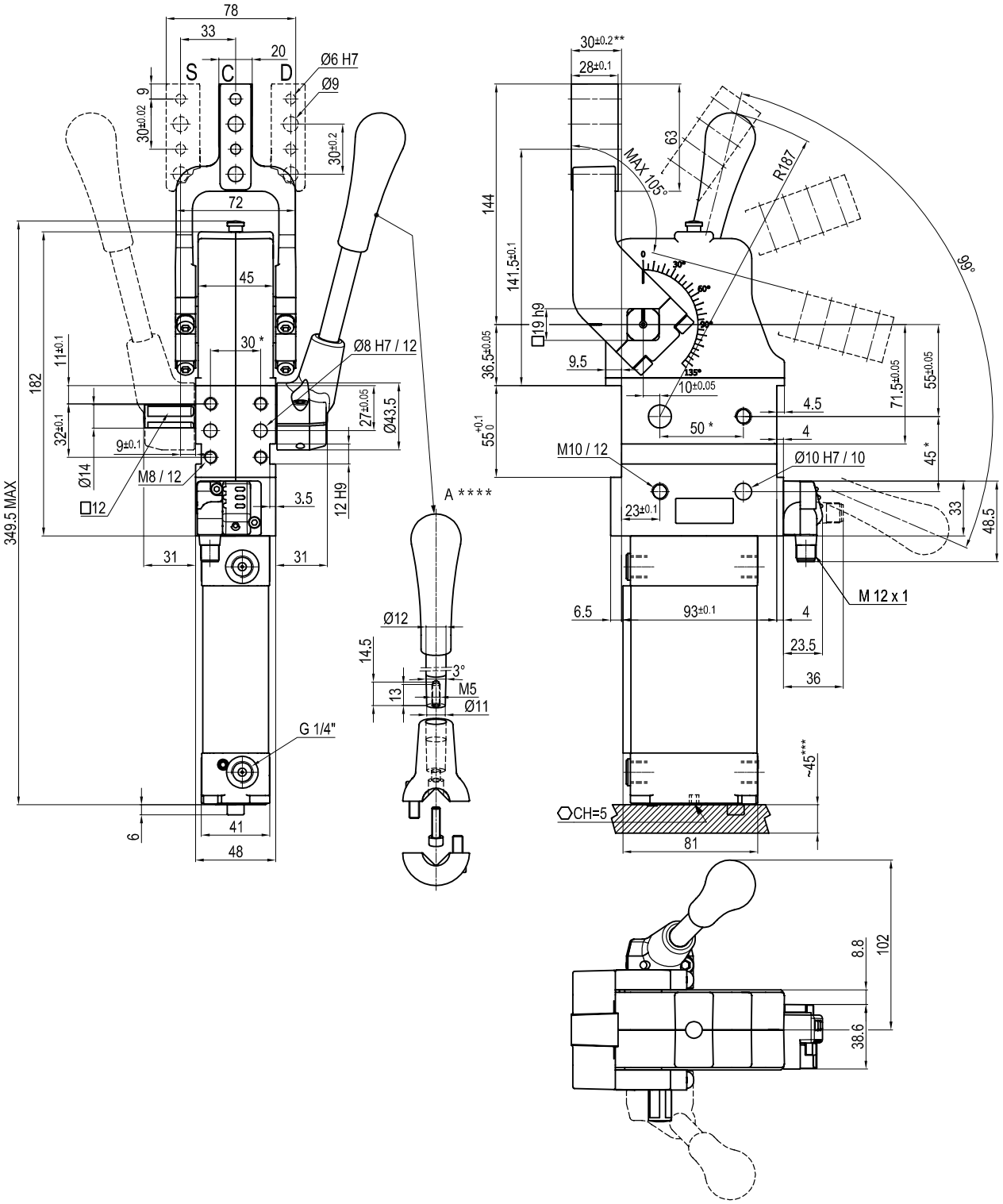
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBM50V_E Pneumatic Power Clamp with Manual Lever



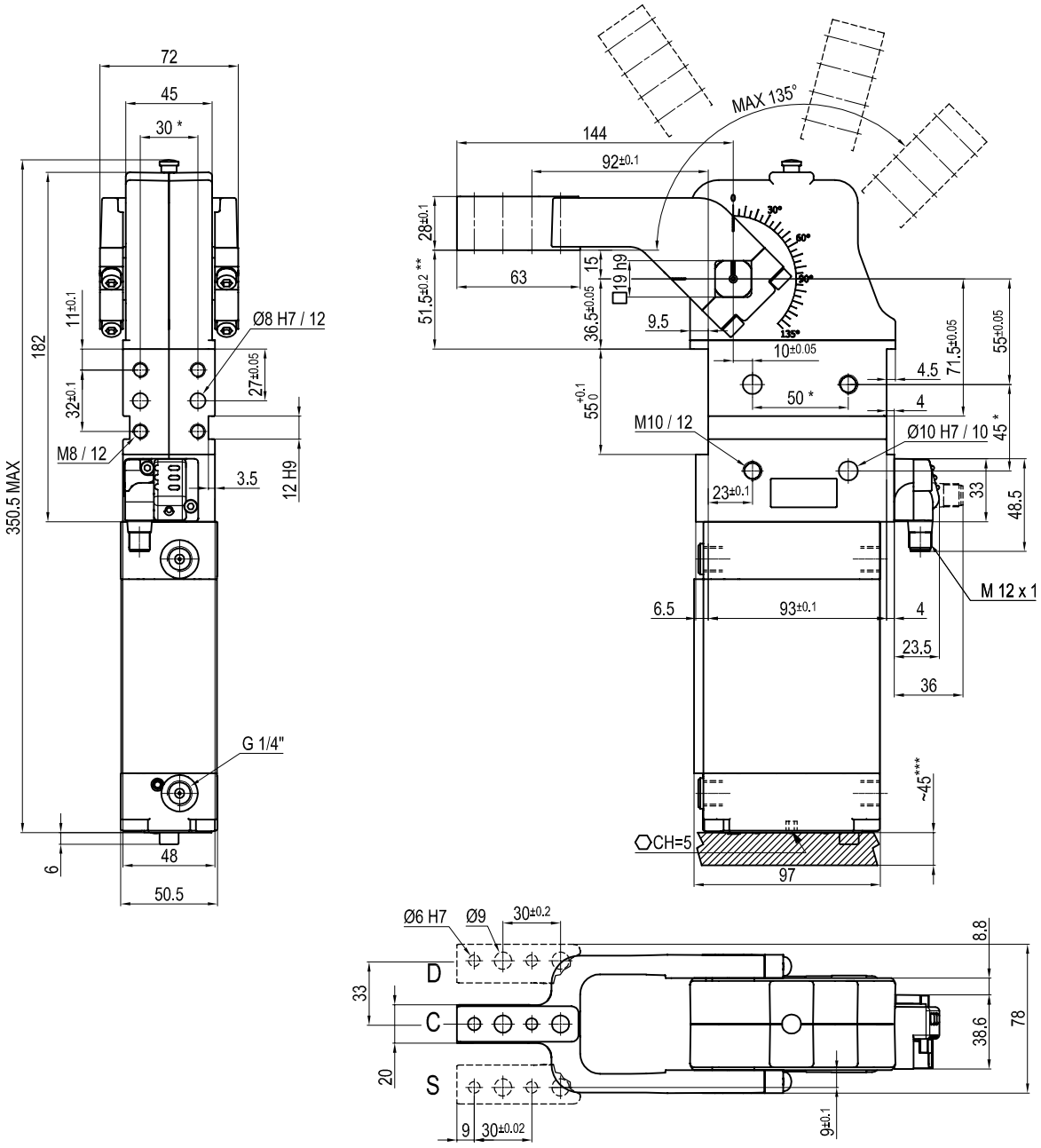
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

UBM50O_E Pneumatic Power Clamp with Manual Lever



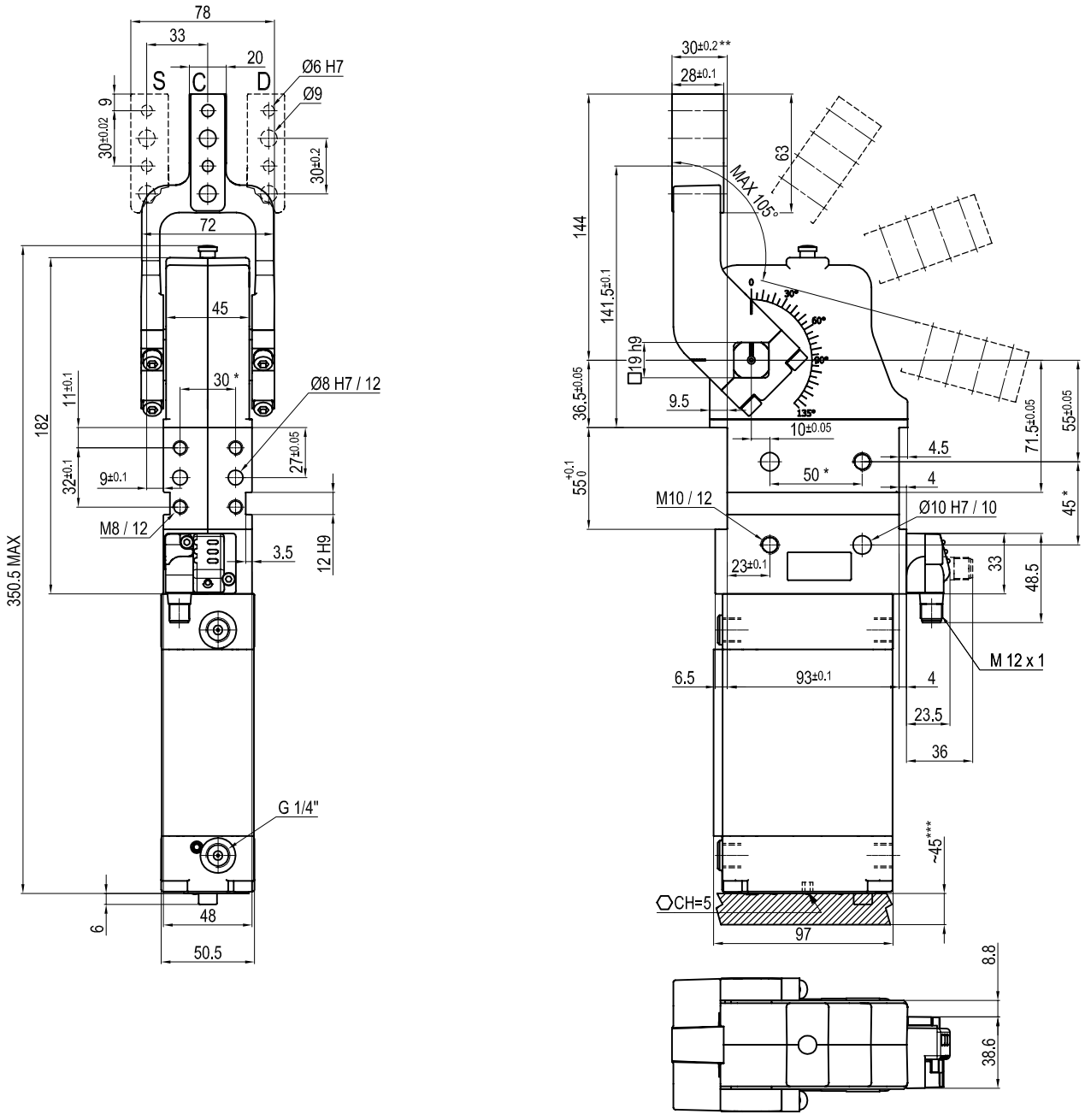
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

UBP63V_E Pneumatic Power Clamp



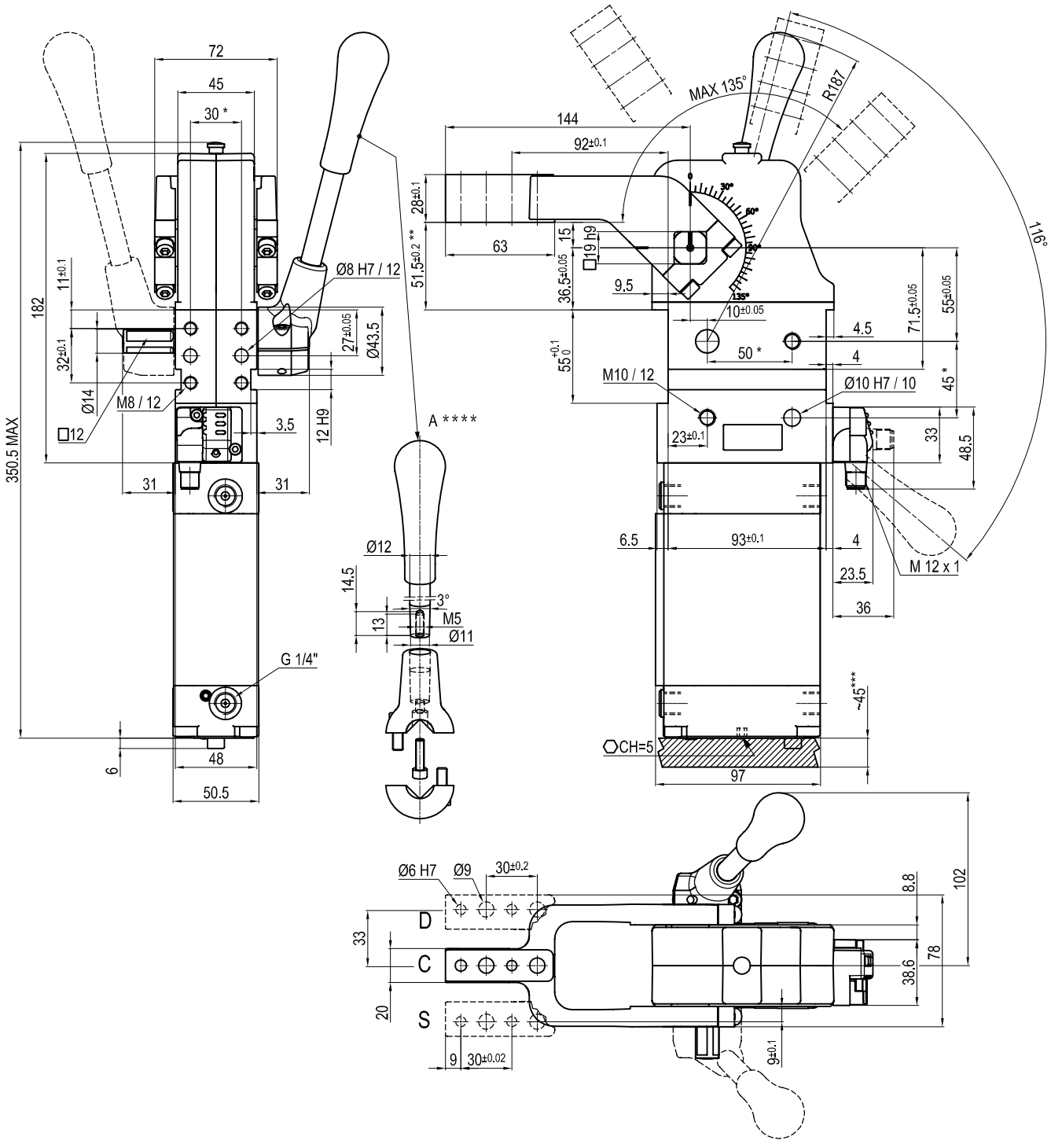
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBP63O_E Pneumatic Power Clamp



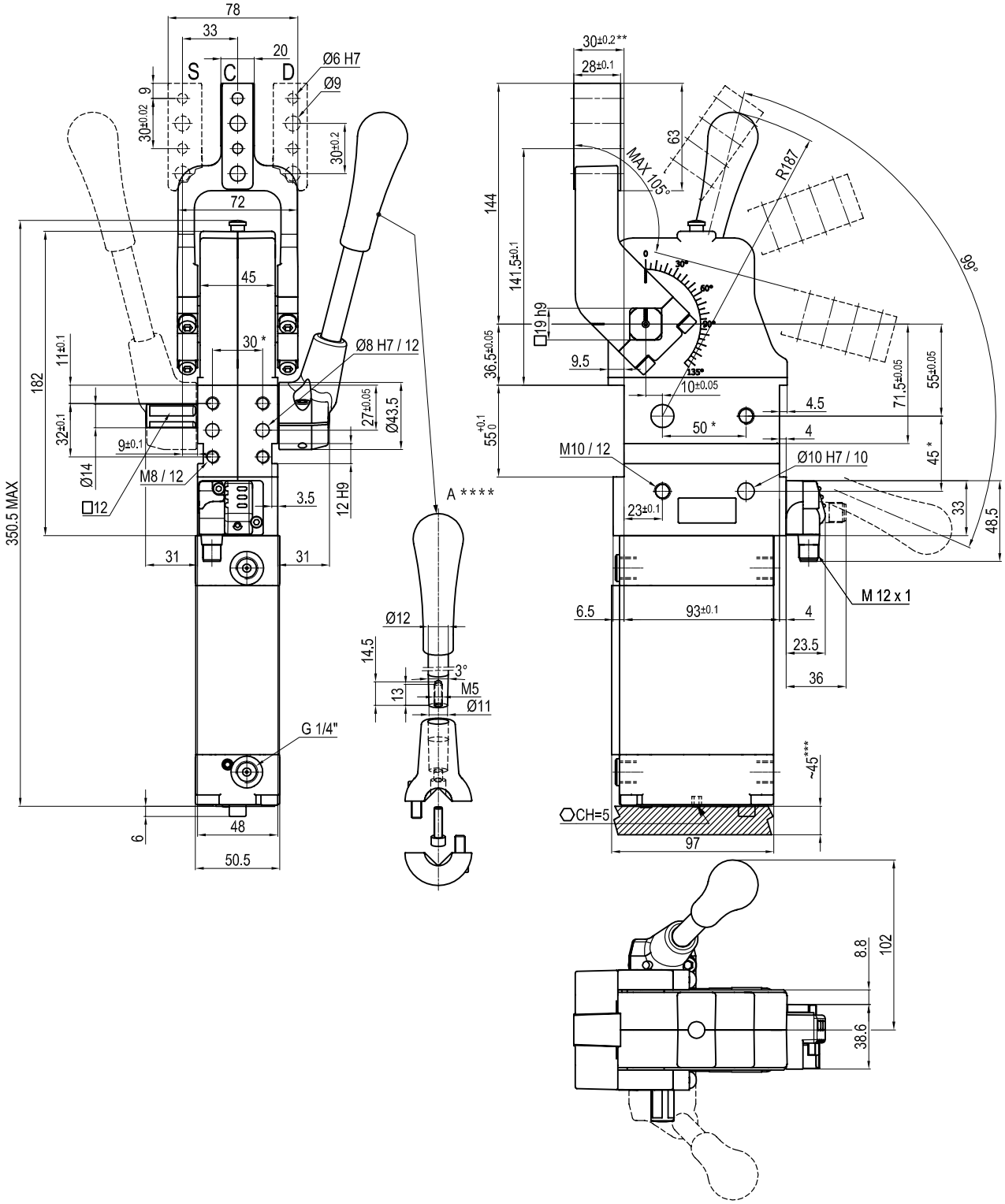
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBM63V_E Pneumatic Power Clamp with Manual Lever



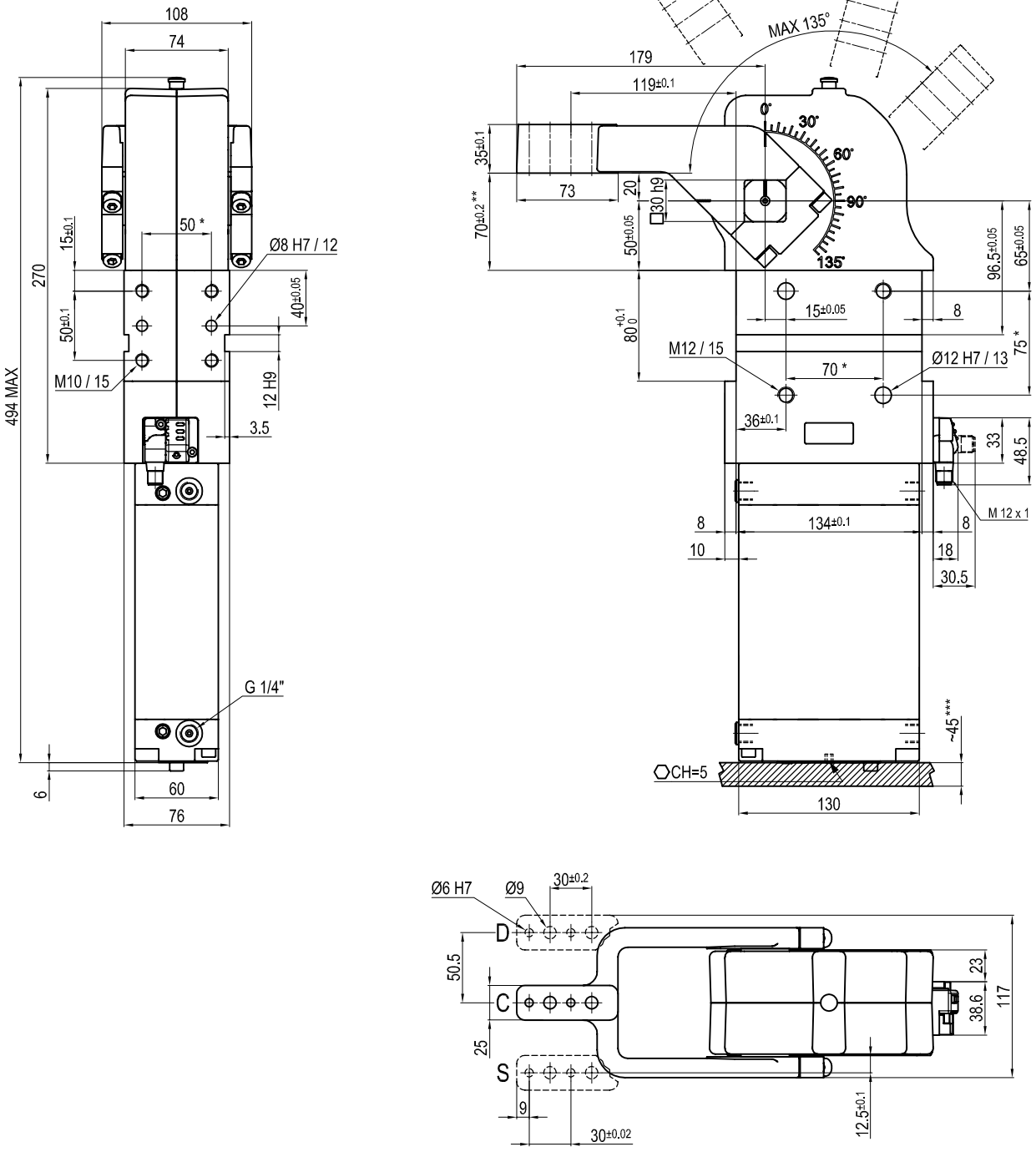
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

UBM63O_E Pneumatic Power Clamp with Manual Lever



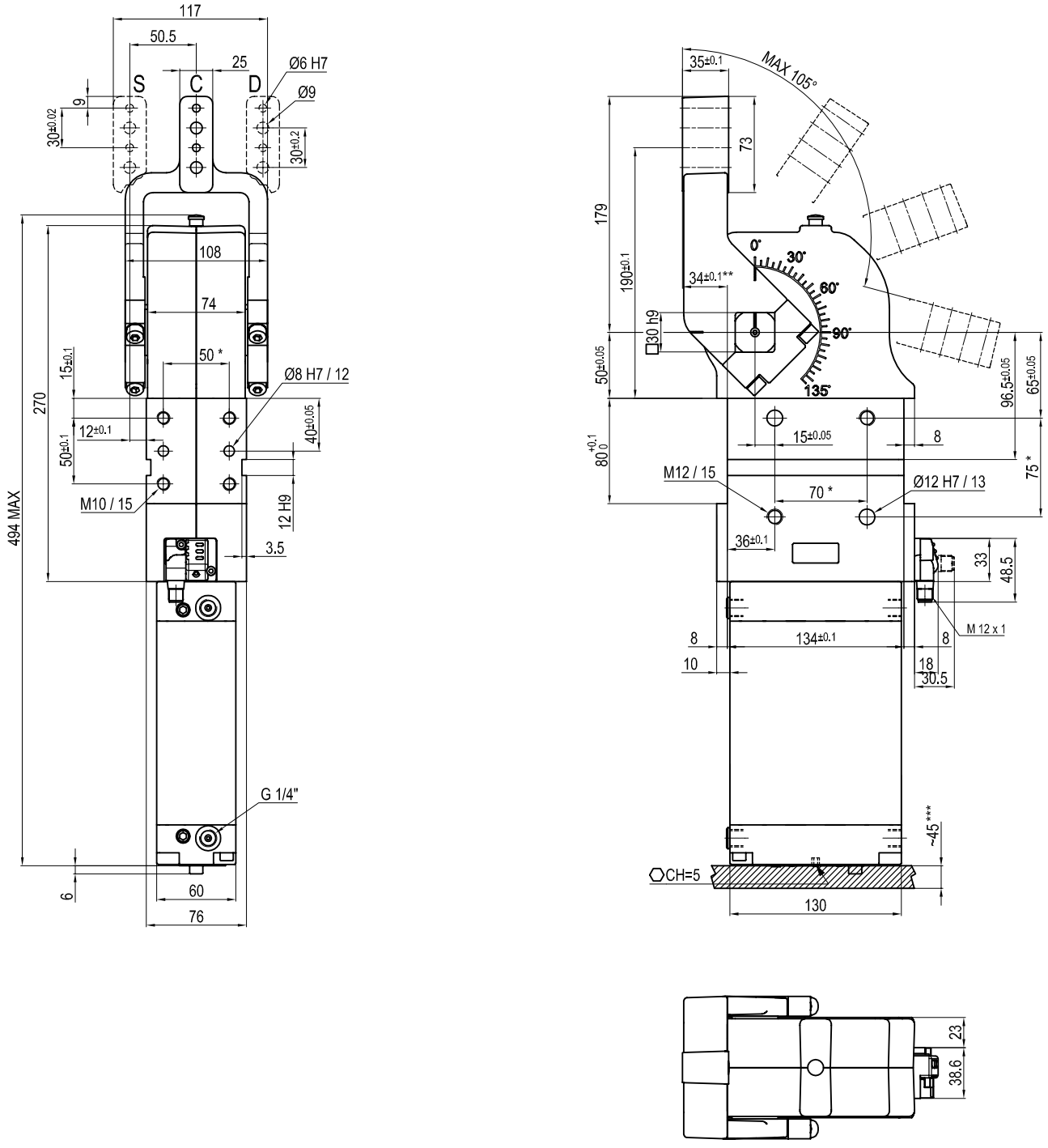
* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment
**** Dimensions to be respected in case other manual levers are used

UBP80V_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

UBP80O_E Pneumatic Power Clamp



* Tolerance between dowels ± 0.02, to screw holes ± 0.1
** Tolerance at 80mm from pivot point
*** Area to access angle adjustment

Handling, positioning and maintenance operations should only be performed by trained personnel who follow appropriate safety precautions. Warn operators of the risk of being crushed between the clamping arm and the shims mounted under the arm. As a preventive measure, manufacturer recommends that the user install an appropriate signaling device or security system near the dangerous areas to alert the operator.

Opening Angle Adjustment

1. Set the clamping arm in the open position
2. Slide the cover to access the angle adjustment
3. Insert the hex key until it has engaged with the screw
4. Keep the key pushed in and rotate it clockwìse to increase the opening angle or counter clockwlse to reduce the openlng angle
5. Close the cover

Clamping Arm Mounting

Tlghten the screws moderately; then tighten completely the corresponding pairs of screws, one on the right and the other on the left clamping arm.

Do not insert the dowels in the clamping arm when it is assembled on the clamp.

Screw	Tightening Torque
M5	14 Nm
M6	18 Nm
M8	30 Nm
M10	35 Nm

Mounting Instructions

The mounting of the unit to the equipment can be carried out by using the front, rear or side part of the housing of the clamp.

Mounting to the front or rear surface

Insert two hardened pins into the special seats to locate the clamp to the tooling:

Series	ø Dowels
UB_40	6
UB_50 and UB_63	8
UB_80	8

Fix it steadily by using the indicated screws, limiting the tightening torque:

Series	Screws	Thread	Tightening Torque
UB_40	M6	12 mm	8 Nm
UB_50 and UB_63	M8	12 mm	15 Nm
UB_80	M10	15 mm	25 Nm

Fixing to the side part of the housing of the clamp

Insert two hardened pins into the special seats to locate the clamp to the tooling:

Series	ø Dowels
UB_40	6
UB_50 and UB_63	10
UB_80	12

Fix it steadily by using the indicated screws, limiting the tightening torque:

Series	Screws	Thread	Tightening Torque
UB_40	M6	12 mm	8 Nm
UB_50 and UB_63	M10	12 mm	25 Nm
UB_80	M12	15 mm	45 Nm

Instructions for the connection of the clamp to its energy source

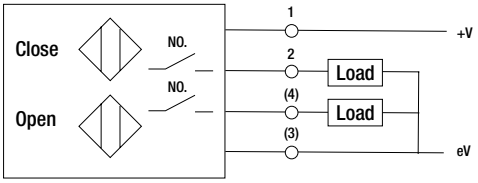
Connect the sensor of the clamp to its electric supply unit.
Then connect the pneumatic tube by means of suitable pneumatic fittings according to the specification below:

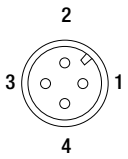
- Series UB_40 -> G¼" fittings
- Series UB_50, UB_63 and UB_80 -> G¼" fittings

Operating pressure from 4 to 8 bar

Electric Sensor

Electric Features	
Supply voltage	10÷30 Vdc
Supply current without load	< 20 mA
Rated operational current	Max 30 mA
Output logic	PNP N.O.
Led-supply	green
Led-close position-pin 2	red
Led-open position-pin 4	yellow





M12 Male Connector

How to orient the connector

1. Unscrew the screw of the connector
2. Open the cover
3. Rotate the connector
4. Close the cover and screw

How to replace the sensor

1. It is not necessary to remove air supply
2. Unscrew the sensor's screw
3. Insert a new sensor
4. Screw the sensor to its housing

Type and frequency of controls and/or maintenance work

The unit has been designed and constructed in such a way that specific programmed maintenance is not necessary; a monthly external cleaning of the welding deposits with suitable, non-aggressive and non-corrosive detergents is recommended.

Electronic 24 VDC Sensor Cartridge

Model Number	Sensor Cartridge Part Number
UNP50 Clamp	DF-U
UNP63 Clamp	DF-U
UNP80 Clamp	DF-UBO170
UBH40 Clamp	DF-U
UBP50 Clamp	DF-U
UBP63 Clamp	DF-U
UBP80 Clamp	DF-UBO170
UGP40 Gripper	DF-U
LSP50 Pin Clamp	DF-USGU
LTP50 Pin Clamp	DF-USGU
UAGP170 Power Pivot	DF-UBO170
UAGP300 Power Pivot	DF-UO300
UAGP600 Power Pivot	DF-UO600
LAGP170 Power Pivot	DF-UBO170
LAGP300 Power Pivot	DF-UO300
LAGP600 Power Pivot	DF-UO600

Seal Kits

Model Number	Clamp Part Number
UBG0140	For UBH40
UBG0150	For UBP50
UBG0163	For UBP63
UBG0180	For UBP80

Tie Rod Kits

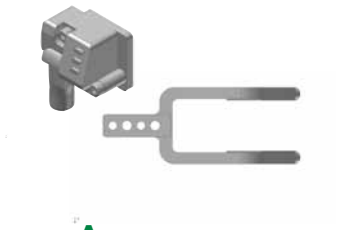
Model Number	Clamp Part Number
UBK3740	For UBH40
UBK3750	For UBP50
UBK3763	For UBP63
UBK3780	For UBP80

UBQ & UBM Replacement Lever Arms

Model Number	Clamp Part Number
UBF2540	For UBQ40
UBF255063	For UBM50 & 63

Sensor Cover Plate

Model Number	Clamp Part Number
UBK5340	40mm Clamps
UBK535063	50 & 60mm Clamps



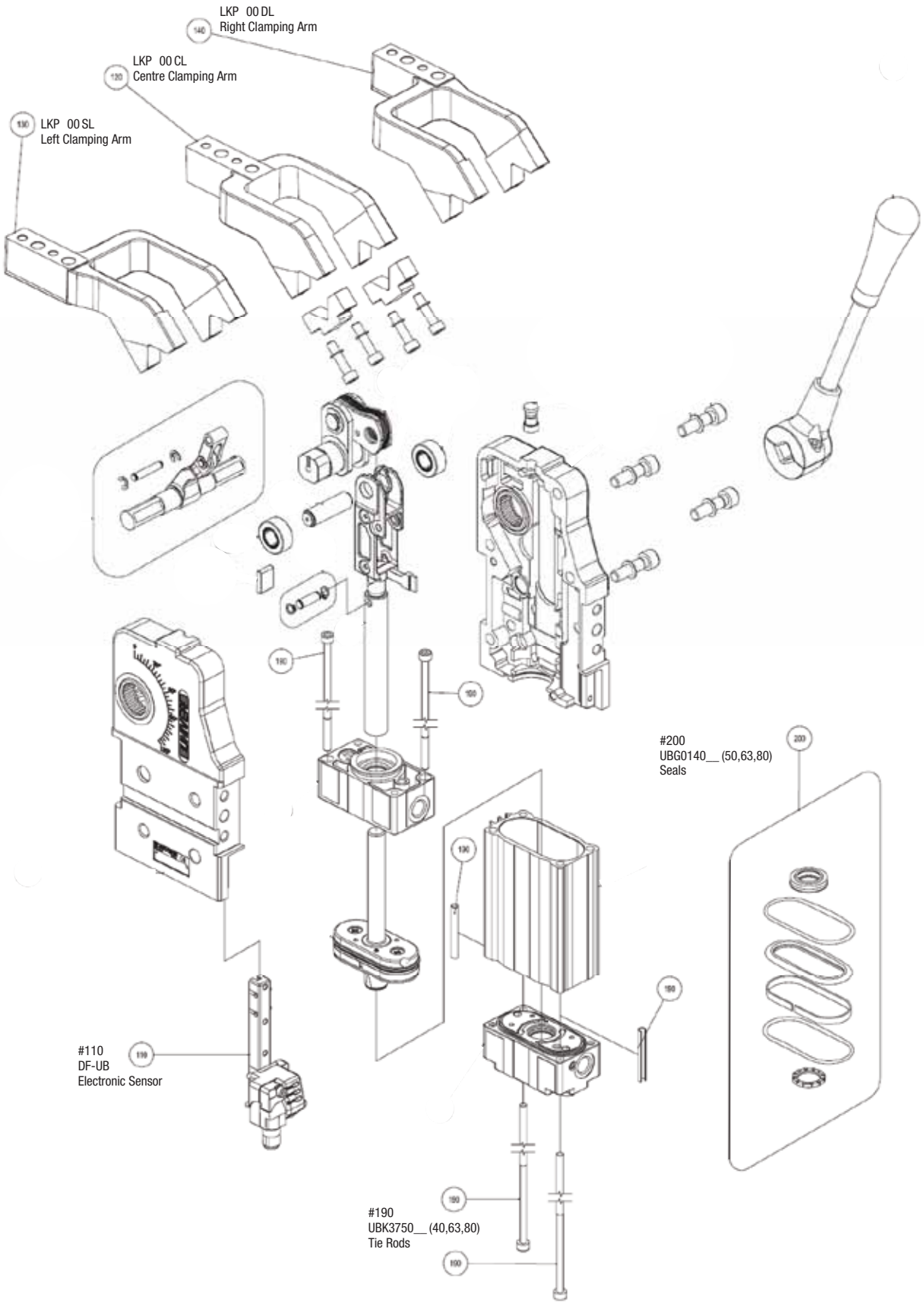
UB Series Standard Wishbone Arms

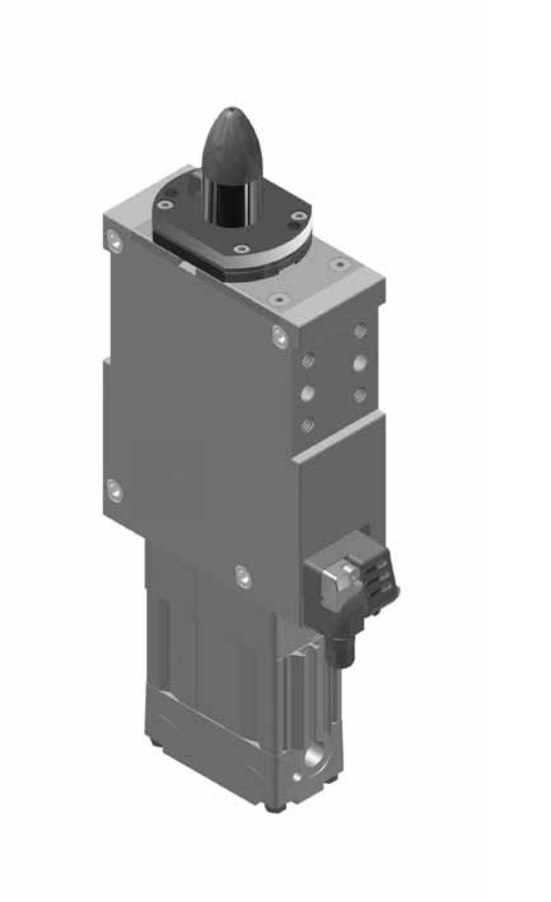
Pneumatic Power Clamps with 90º Arm Mount Position			
Base Clamp	**Arm Number**	**Completed Unit**	**Arm Style (standard)**
UBH40NNE UBQ40NNE	LKP01CST	UBH40VCE	Centre
	LKP01DST	UBH40VDE	Right
	LKP01SST	UBH40VSE	Left
UBP50NNE UBM50NNE	LKP00CL	UBP50VCE	Centre
	LKP00DL	UBP50VDE	Right
	LKP00SL	UBP50VSE	Left
UBP63NNE UBM63NNE	LKP00CL	UBP63VCE	Centre
	LKP00DL	UBP63VDE	Right
	LKP00SL	UPB63VSE	Left

Pneumatic Power Clamps with 180º Arm Mount Position			
Base Clamp	**Arm Number**	**Completed Unit**	**Arm Style (standard)**
UBH40NNE UBQ40NNE	LKP01CST	UBH40OCE	Centre
	LKP01SST	UBH40ODE	Right
	LKP01DST	UBH40OSE	Left
UBP50NNE UBM50NNE	LKP00CL	UBP50OCE	Centre
	LKP00SL	UBP50ODE	Right
	LKP00DL	UBP50OSE	Left
UBP63NNE UBM63NNE	LKP00CL	UBP63OCE	Centre
	LKP00SL	UBP63ODE	Right
	LKP00DL	UPB63OSE	Left

Note: The same centre arm part numbers are used for 90° and 180° centre arm mount posiition clamp assemblies. Left and Right arm part numbers change due to a difference in mounting. For example, UBH40VDE (90° right arm mount position) uses arm LKP01DST, while UBH400DE (180° right arm mount position) uses arm LKP01SST.

Power Clamp Spare Parts





Features

- Designed to both locate and clamp material
- Multiple pin sizes available
- Different working heights available
- Unique system prevents weld slag from entering unit
- Hardened pins, hooks and scrapers for extended life
- Orthogonal version for applications with very demanding dimensional limitations
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the cylinder
- Unique “programmable” all metal sensor with M12 swivel connector

General Specifications

Weight:
LSP50G: 3.2 Kg (7.1 lbs)
LSP50U: 2.2 Kg (4.9 lbs)

Operating Pressure:
Minimum: 2.75 Bar (40 PSI)
Maximum: 8 Bar (115 PSI)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP54

Maximum Clamping Force

Model Number	4 Bar (58 PSI)	5 Bar (72 PSI)
LSP50G	2850 N (640 lbs)	3500 (786 lbs)
LSP50U	3250 N (730 lbs)	4000 N (899 lbs)

How to Order

LS P 50 G U 3 1 0 000

Series
LS = Pneumatic pin clamp

Version
P = Pneumatic standard

Size
50 = ø 50 mm

Model
G = Inline
U = Orthogonal

Progressive Numbering
Progressive numbers for special products are assigned by the Sales Dept.

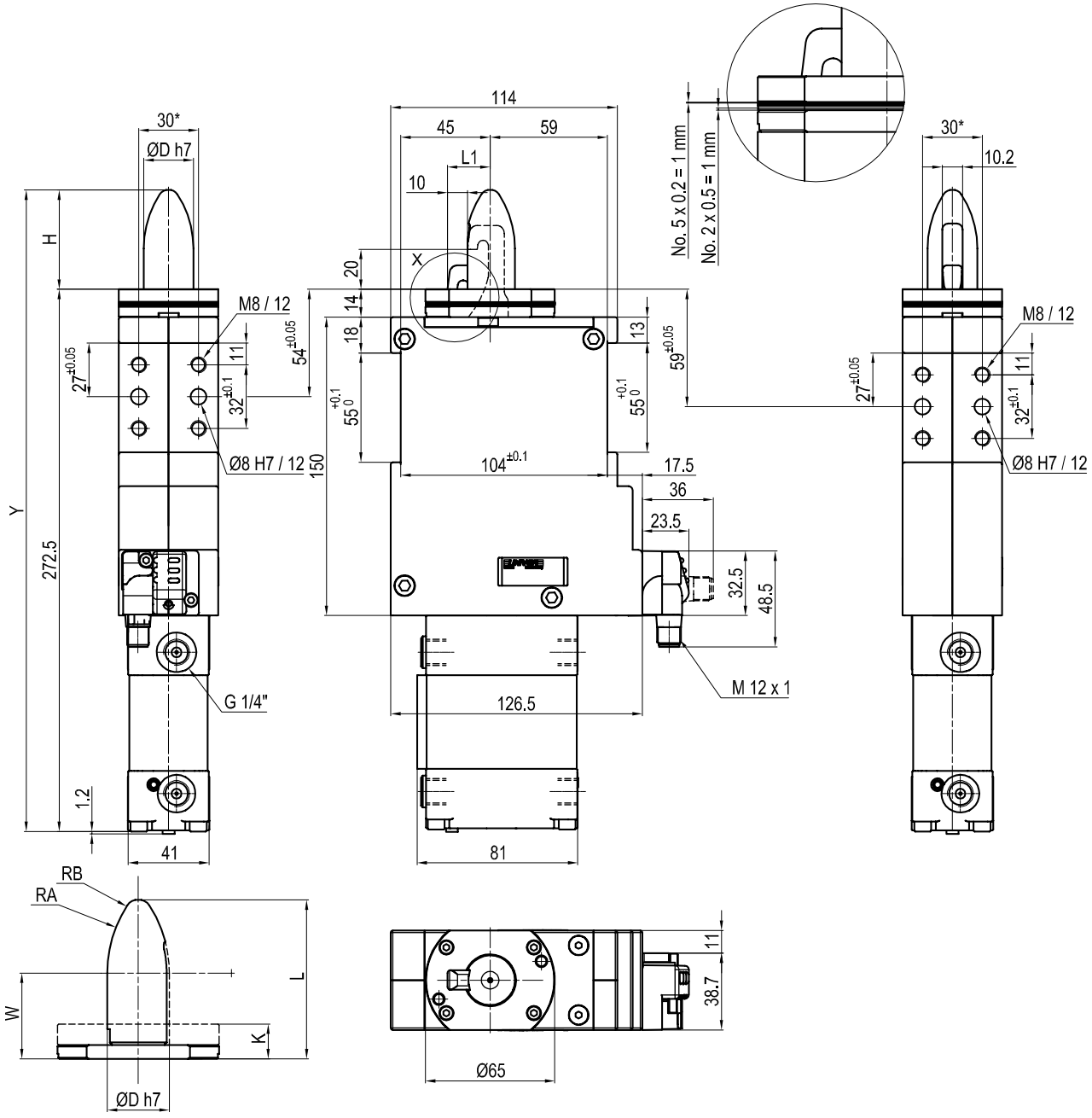
Working Height
0 = Standard
Others upon request

Locating Pin
0 = Locating pin not included
1 = Locating pin included

Pin Diameter
2 = ø 20 mm
3 = ø 25 mm
4 = ø 30 mm
5 = ø 35 mm
6 = ø 40 mm*
*Not available on orthogonal version

Sensing Style
U = Electronic 24 VDC sensor with M12 swivel connector

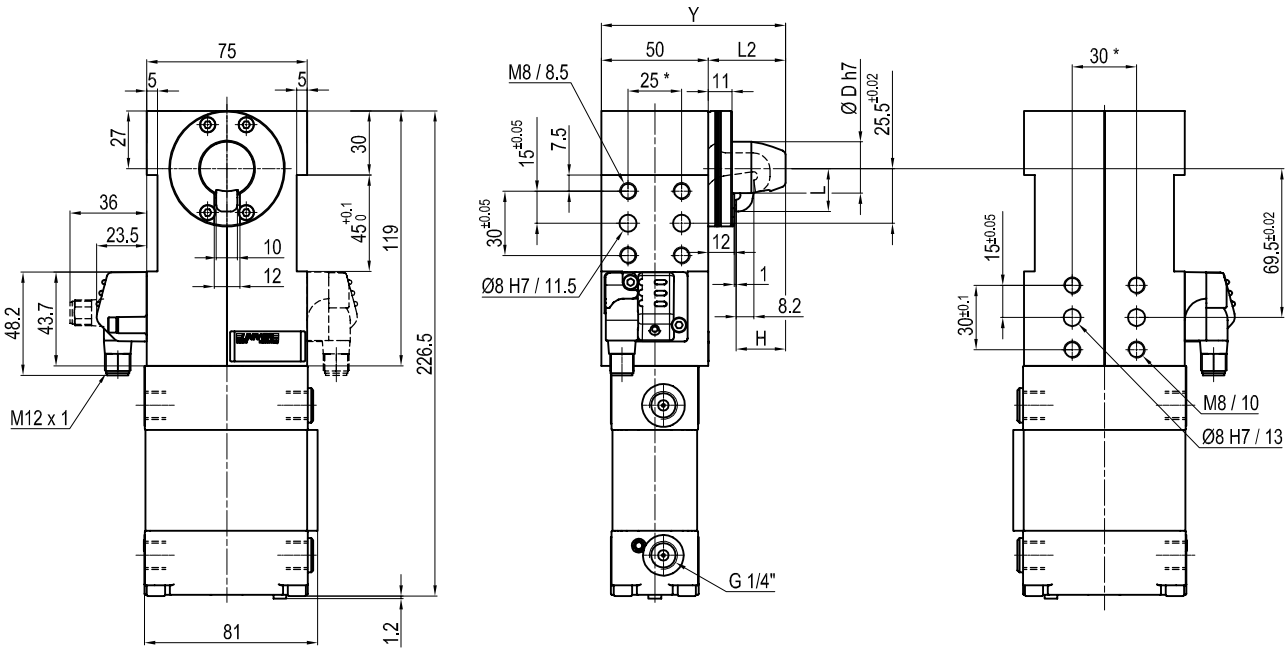
LSP50GU_10 Pneumatic Pin Clamp

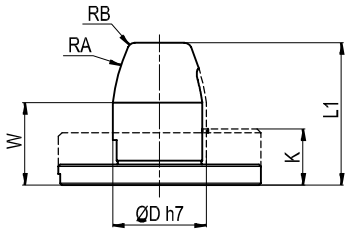


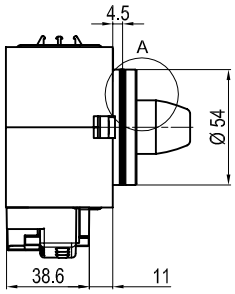
ØD	H	K	L	L1	RA	RB	W	Y
20	45	14	59	19	65	5	34.5	317.5
25	50	14	64	21.5	50	5	34.5	322.5
30	50	14	64	24	50	5	34.5	322.5
35	50	14	64	26.5	48	2	29	322.5
40	50	14	64	29	48	2	29	328.5

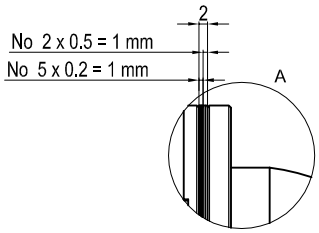
* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

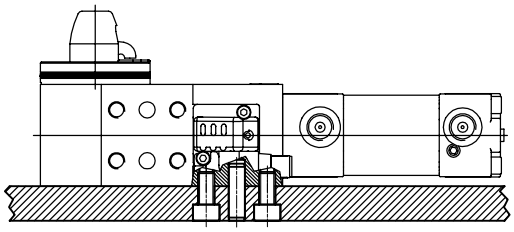
LSP50UU_10 Pneumatic Pin Clamp







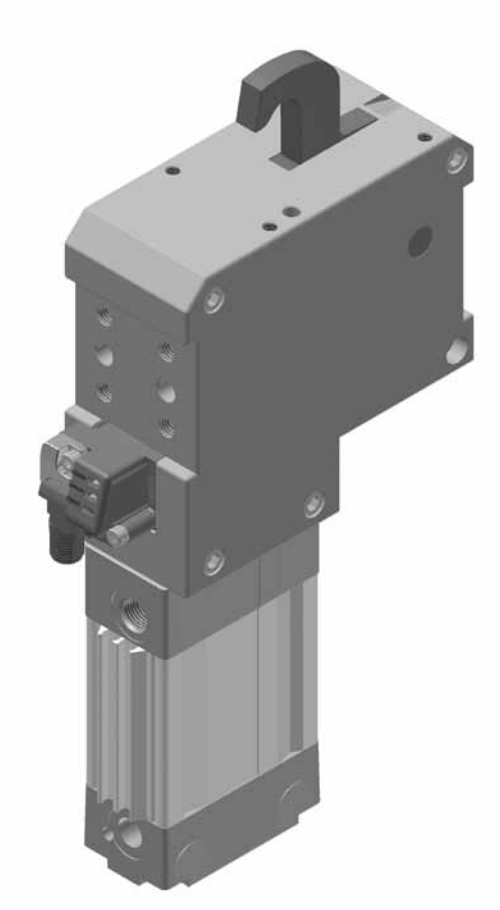




ØD	H	K	L	L1	L2	RA	RB	W	Y
20	23	14	17.5	38	36	70	2	22	86
25	23	14	20	38	36	55	2	22	86
30	30	14	22.5	45	42	33	2	22	92
35	30	14	25	45	42	28	2	22	92

* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1
The sensor can be mounted on either right or left side

LTP Series Pneumatic Pin Clamp



Features

- Vanishing hooks provides low profile
- Multiple pin sizes available
- Unique system prevents weld slag from entering unit
- Long travel of hook designed for increased engagement of sheet metal in oval slots
- Hardened pins, hooks and scrapers for extended life
- Remains locked in closed position even when air pressure is removed
- Pneumatic ports on both sides of the cylinder
- Unique “programmable” all metal sensor with M12 swivel connector

General Specifications

Weight:
LTP50T: 3.2 Kg (7.1 lbs)

Operating Pressure:
Minimum: 2.75 Bar (40 PSI)
Maximum: 8 Bar (115 PSI)

Operating Temperature: 5˚ to 45˚ C (40˚ to 113˚F)

Class Protection: IP54

Maximum Clamping Force

Model Number	4 Bar (58 PSI)	5 Bar (72.5 PSI)
LTP50T	2850 N (640 lbs)	3500 (786 lbs)

How to Order

LT P 50 T U 2 0 0 000

Series
LT = Pin clamp with vanishing hook

Version
P = Pneumatic

Size
50 = ø 50 mm

Model
T = With vanishing hook

Progressive Numbering
Progressive numbers for special product are assigned by the Sales Dept.

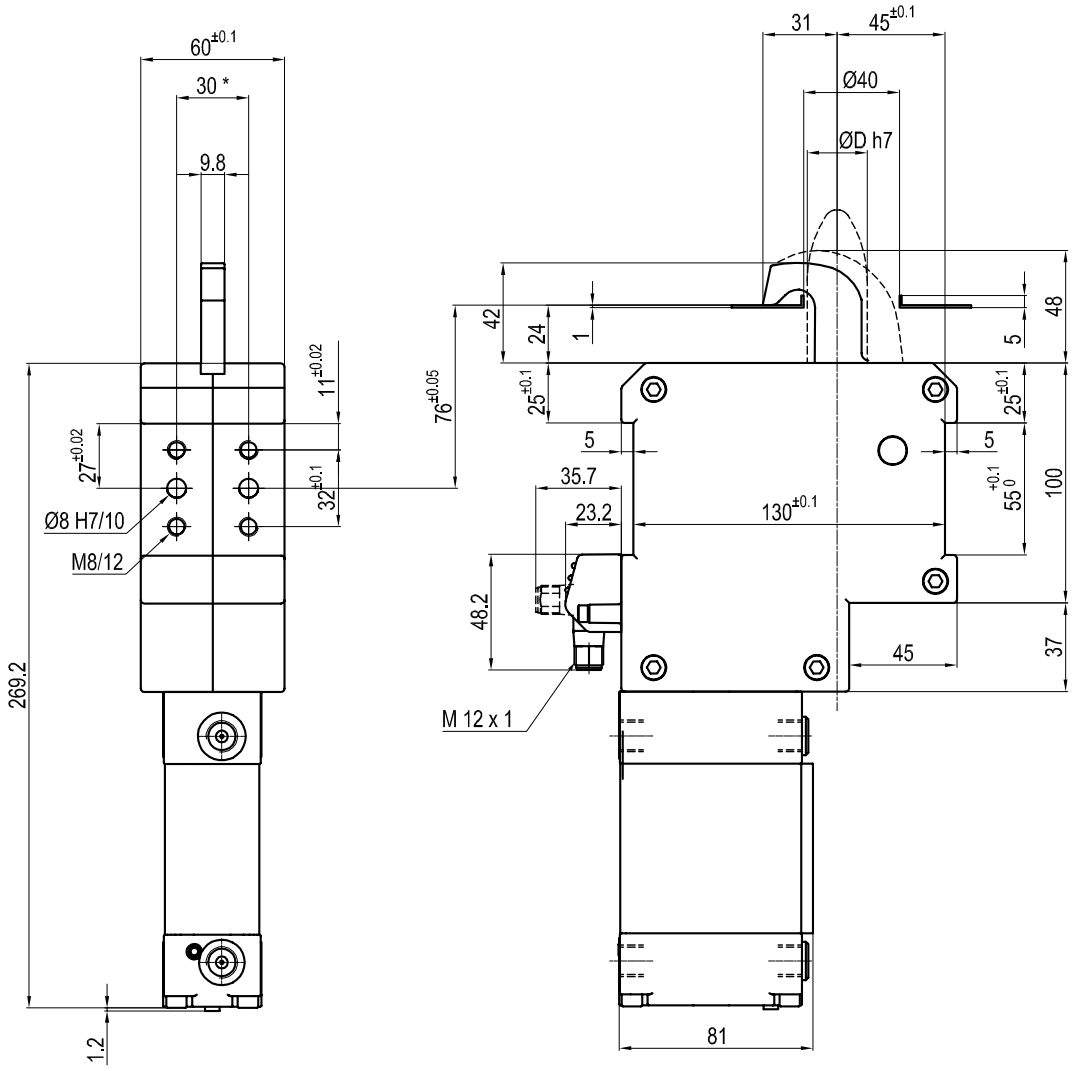
Working Height
0 = Standard

Locating Pin
0 = Locating pin non included
1 = Locating pin included

Pin Diameter
2 = ø 20 mm
3 = ø 25 mm
4 = ø 30 mm
5 = ø 35 mm
6 = ø 40 mm

Sensing Style
N = No sensor (with protection plate)
U = Electronic 24 VDC sensor with M12 swivel connector

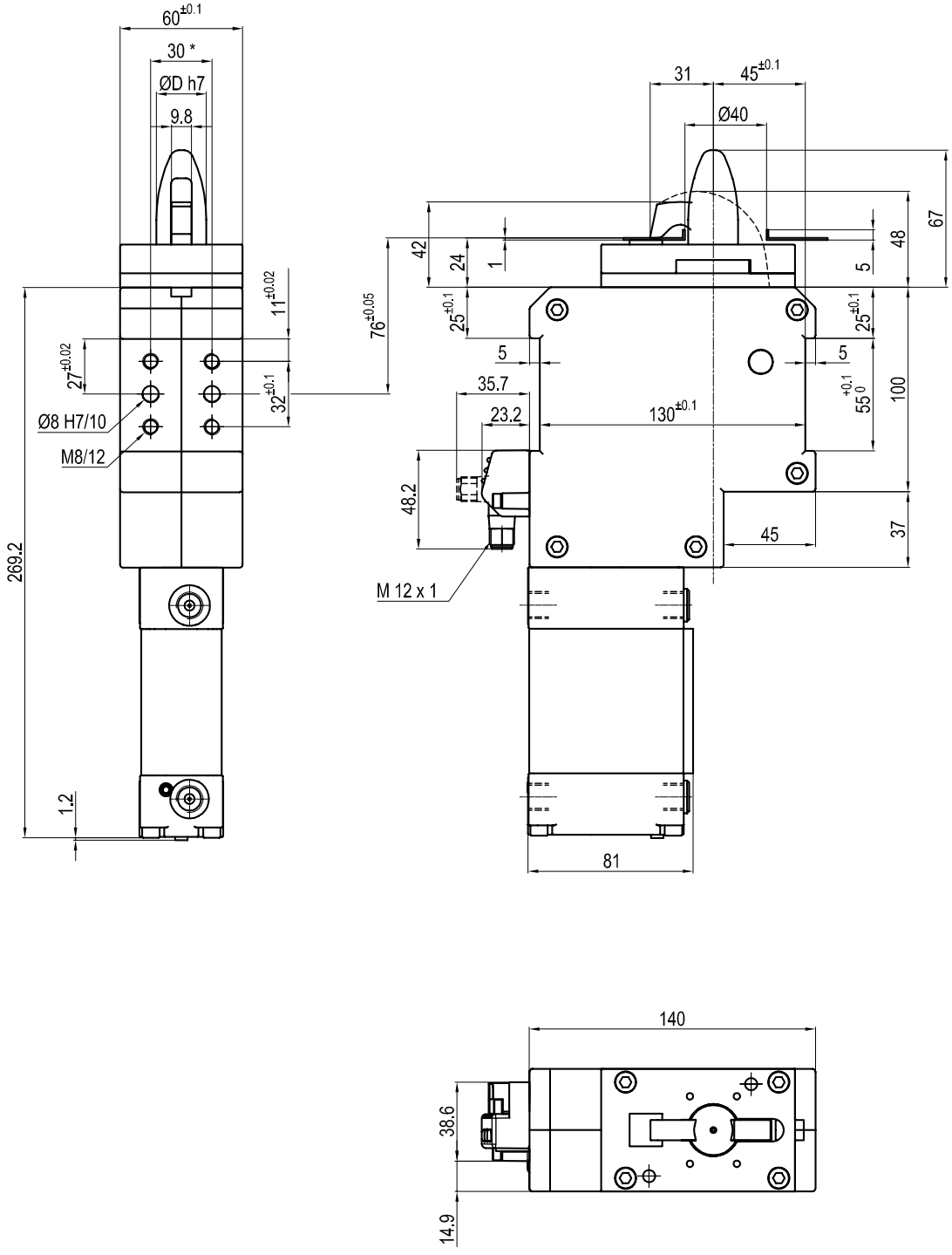
LTP50TU_OO Pneumatic Pin Clamp with Vanishing Hook



ØD
20
25
30
35
40

* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

LTP50TU_10 Pneumatic Pin Clamp with Vanishing Hook



ØD
20
25
30
35
40

* Tolerance between dowel holes ± 0.02, to screw holes ± 0.1

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LT-PowerClamp Rev 11/13
10M-IPC-1/09