

**C10**

Hexagonal Design C10

- Two- to Six-Finger Hollow Gripper -

Characteristics:

- centric, linear and parallel or swiveling finger movement, can also be combined
- adjustable in finger length, amount and position.
- inside and outside gripper
- lubrication and maintenance free slide bearings
- constant hollow tube (Ø75mm)
- self-locking free
- stepless stroke adjustment with shock absorbing action, or
- object retention at blackout through gas spring
- multiple position monitoring through proximity switch, optional



Illustration: type C110-600200-A-PNO-00

Technical Data						
Type C10		Finger Length (F)				
		0 mm	50 mm	100 mm	150 mm	200 mm
Finger Movement A (parallel open / parallel close)	Stroke [mm]	103				
	Gripping Width* [mm]	311 to 414				
	Gripping Force*** [N]	893 to 8.100				
Finger Movement B** (parallel open / swiveling close)	Stroke [mm]	110	134	158	182	213
	Gripping Width* [mm]	304 to 414	280 to 414	256 to 414	232 to 414	201 to 414
	Gripping Force*** [N]	855 to 7.120	717 to 4.595	616 to 3.392	541 to 2.689	482 to 2.227
Finger Movement C** (swiveling open / swiveling close)	Stroke [mm]	112	158	204	250	304
	Gripping Width* [mm]	306 to 418	285 to 443	264 to 468	243 to 493	215 to 519
	Gripping Force*** [N]	846 to 7.178	684 to 2.914	574 to 1.848	494 to 1.354	434 to 1.068
Drive		pneumatic				
Operating Air Pressure / Voltage		2,5 to 6 bar				
Cycle Time (undamped)		0,5 s				
Energy Consumption per Cycle		2,75 liter (at 6 bar)				
Operating Temperature		-30 to +80°C				
Mass	Operating Unit	8,5 kg				
	per Finger Mechanism	max. 1,25 kg				
Loading Capacity* per Finger with Gripping Mass and Acceleration	Mx max.	31 Nm ⇒ (Fy _{max.} : 155 N at finger length F = 200mm)				
	My max.	61 Nm ⇒ (Fx _{max.} : 305 N at finger length F = 200mm)				
	Mz max.	30 Nm				
	Fz max.	3000 N				

* data referring to fingers' outer edge

** larger strokes through adjustment of gripping width and pivoting angle on request

*** higher gripping force always at finger position "open" (data referring to 6 bar air pressure)

* loading capacity autonomous of gripping force



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Quantity and Position of Fingers



Basic Shape C10

C110-200

C110-300

C110-400



C110-410

C110-420

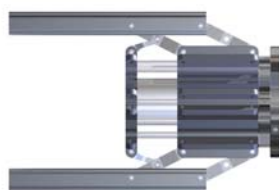
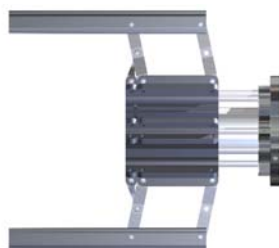
C110-500

C110-600

Finger Movement

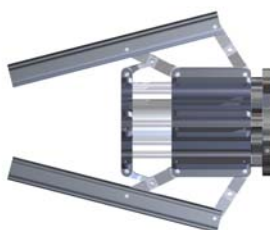
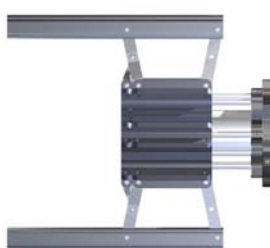
Shape A

(parallel open / parallel close)



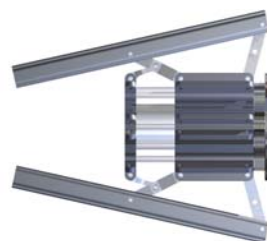
Shape B

(parallel open / swiveling close)



Shape C

(swiveling open / swiveling close)



Special Movement through combining shapes are possible upon request!



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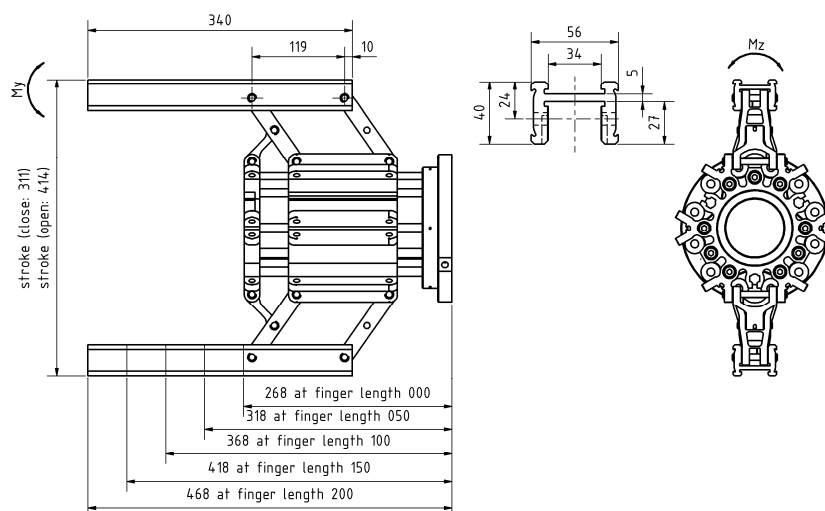
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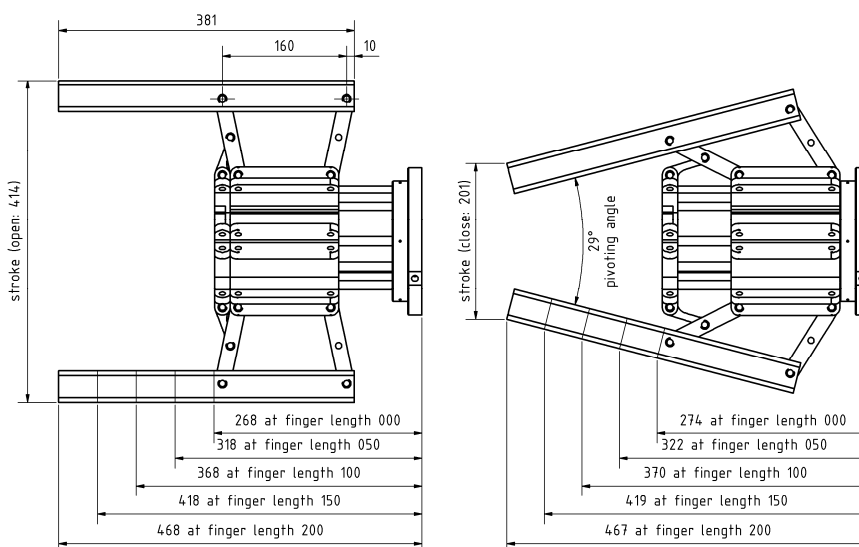


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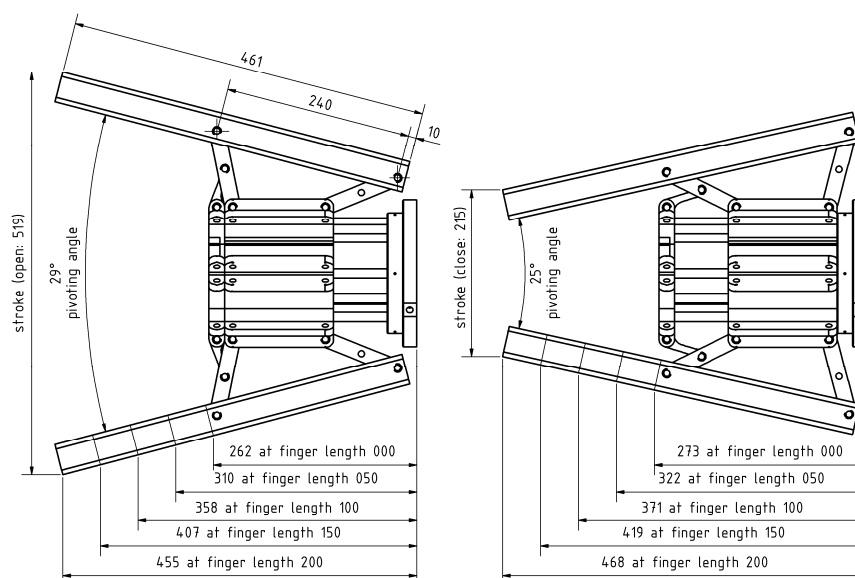
Finger Movement A



Finger Movement B



Finger Movement C



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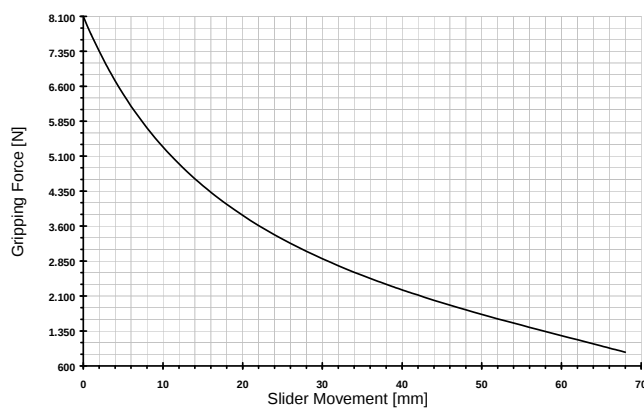
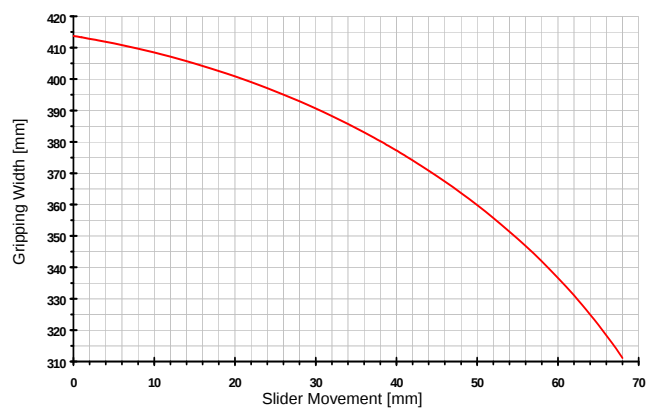
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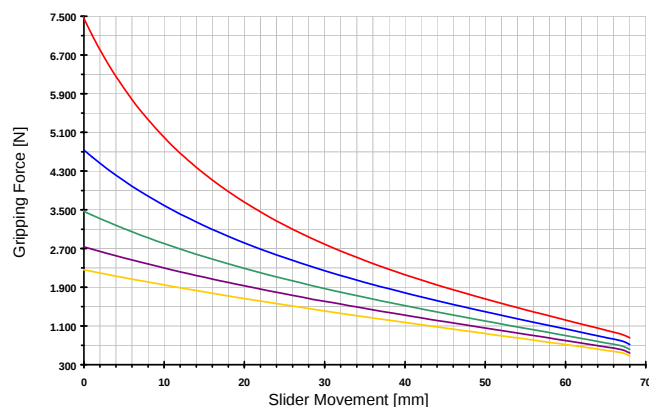
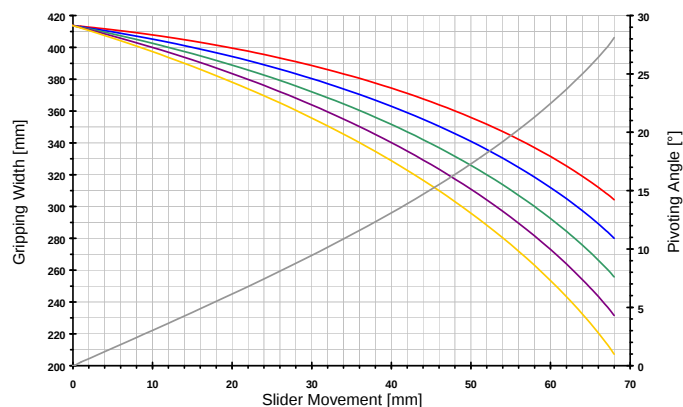
**C10**

Force- and Gripping-Width-Diagram

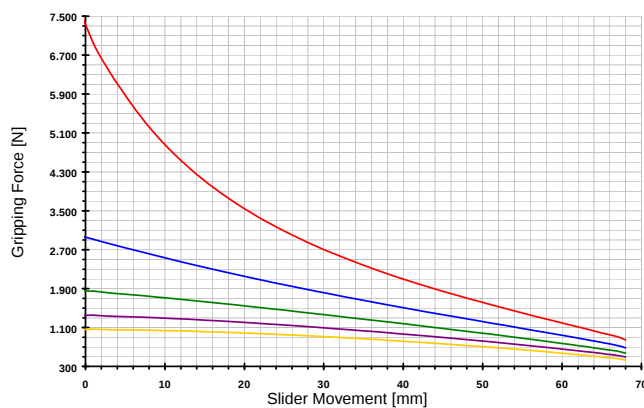
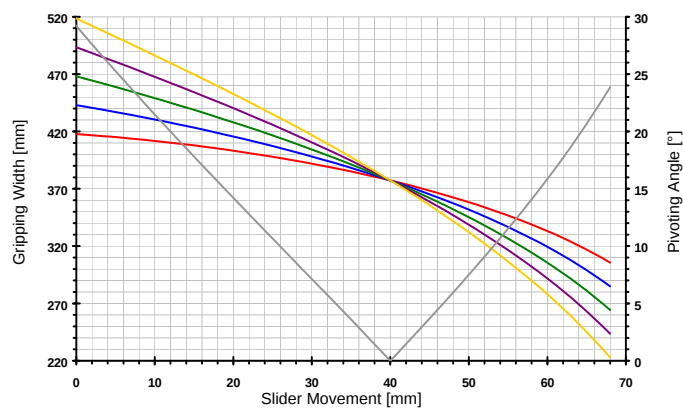
Finger Movement A



Finger Movement B



Finger Movement C



— 0 mm — 50 mm — 100 mm — 150 mm — 200 mm — Pivoting Angle



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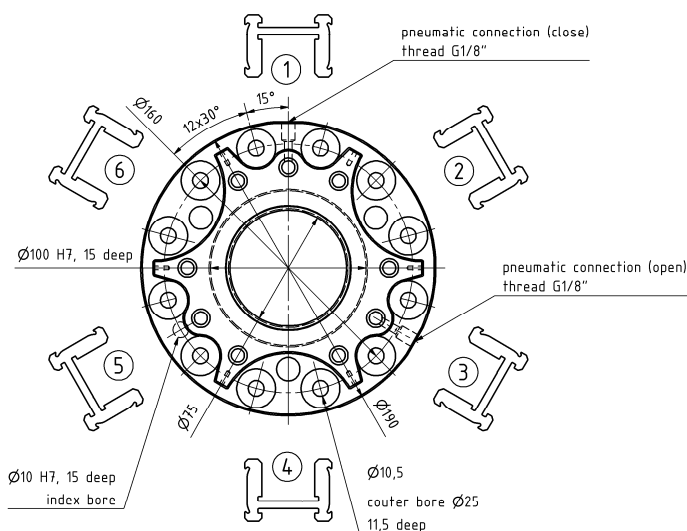
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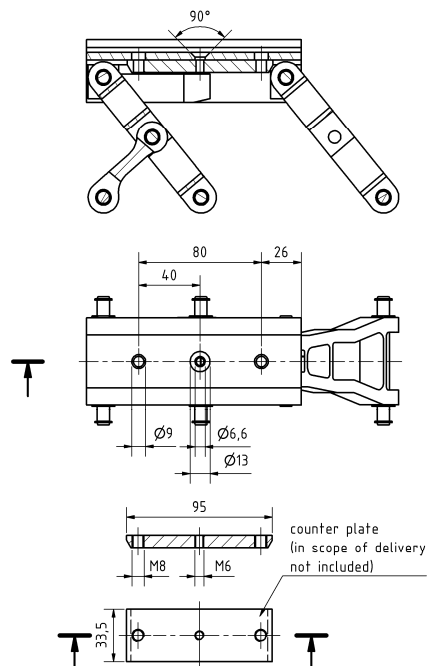
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Finger Position Referring to Grippers Flange



Front View

Standard – Bore - Plan



Order Number Counter Plate:
1007-C110-GP10

Only for Finger Length F = 0mm

Finger Quantity	Position						Ident.
	1	2	3	4	5	6	
2	X			X			200
			X			X	201
		X			X		202
3	X		X		X		300
		X		X		X	301
4	X		X	X		X	400
	X	X		X	X		401
		X	X		X	X	402
	X		X	X	X		410
	X		X		X	X	411
		X	X	X		X	412
	X	X	X		X		413
	X	X		X		X	414
		X		X	X	X	415

Finger Quantity	Position						Ident.
	1	2	3	4	5	6	
4	X	X	X	X			420
		X	X	X	X		421
			X	X	X	X	422
	X			X	X	X	423
	X	X			X	X	424
5	X	X	X			X	425
		X	X	X	X	X	500
	X	X		X	X	X	501
	X		X	X	X	X	502
	X	X	X		X	X	503
	X	X	X	X		X	504
6	X	X	X	X	X	X	505
	X	X	X	X	X	X	600

Standard Style



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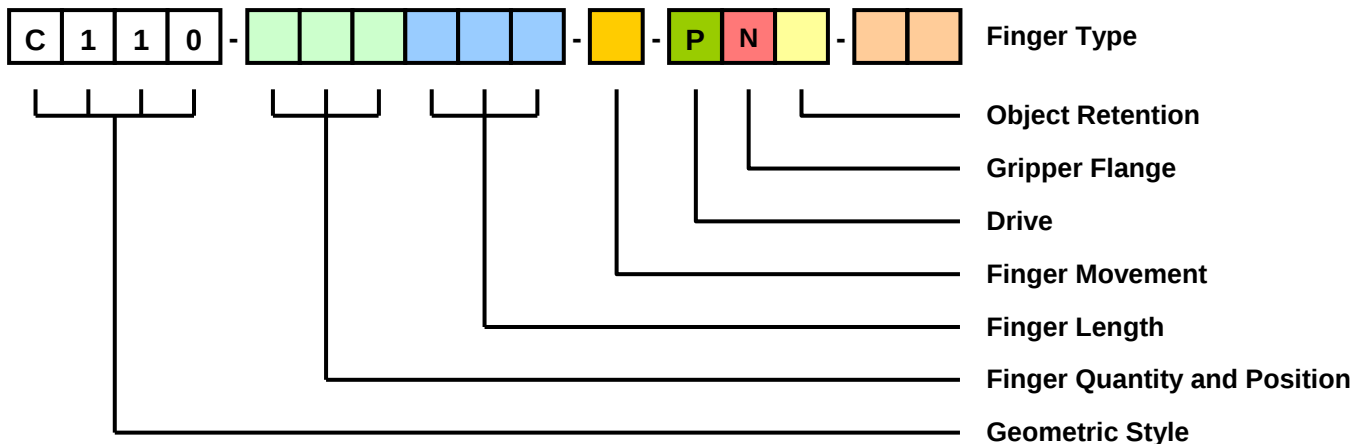
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Order Number



Finger Quantity and Position

View table on previous Page

Finger Movement

Style	Ident.
parallel open parallel close	A
parallel open swiveling close	B
swiveling open swiveling close	C
Combination of Finger Movement Styles*	K

* on request

Drive

Style	Ident.
pneumatic	P

Finger Type

Style	Ident.
Without Bore	00
With Bore	01

Finger Length

Length (F)		Ident.
Standard	0 mm	000
	50 mm	050
	100 mm	100
	150 mm	150
	200 mm	200
Special Length		Declaration in mm

Gripper Flange

Style	Ident.
Normal	N

Object Retention at Blackout

Style	Ident.
Without Object Retention	O
Retention "Finger Closing"	Z
Retention "Finger Opening"	A

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