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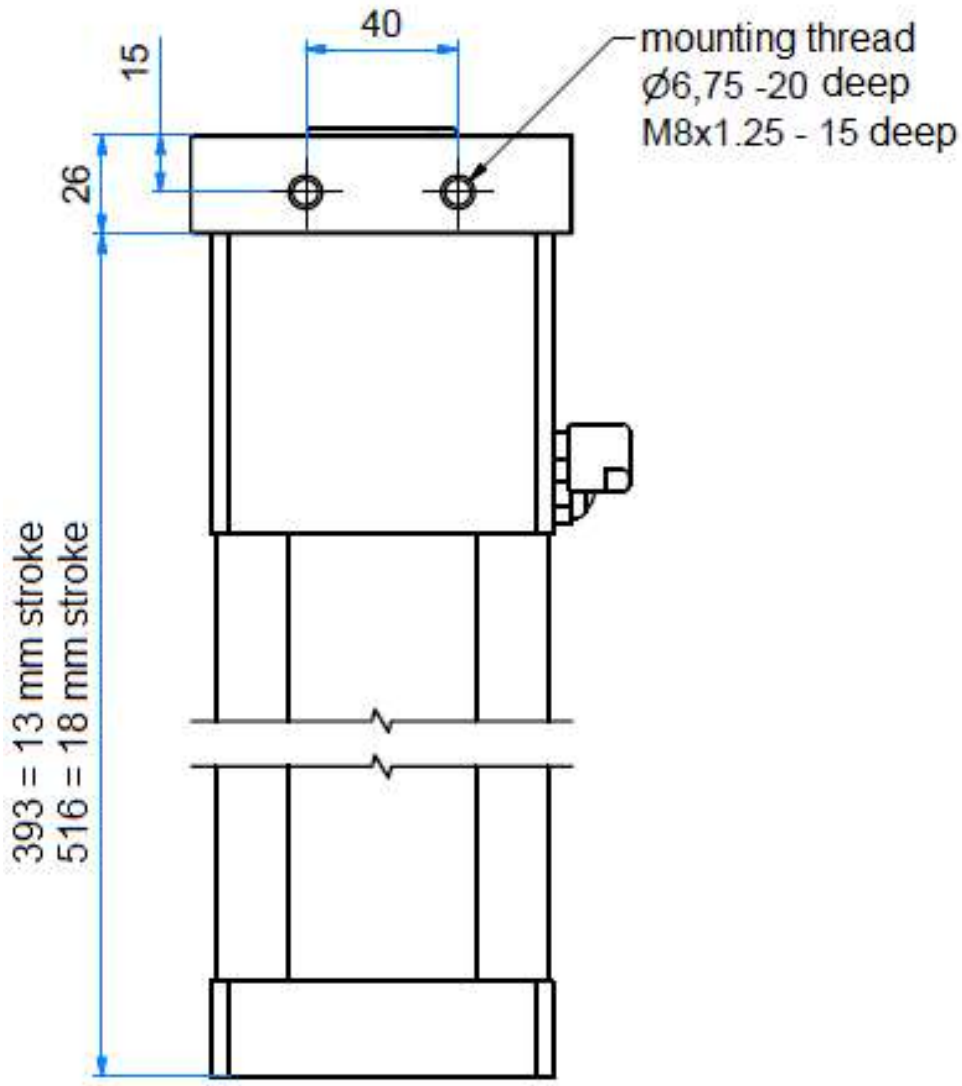
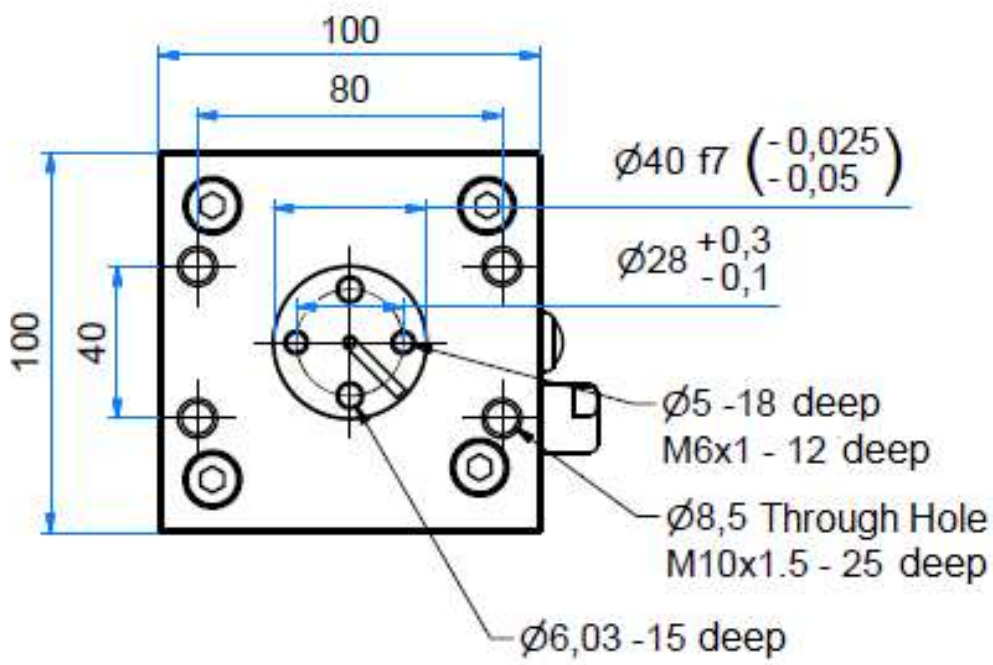
Power cylinder UNI POWER

Our power cylinders offer the following advantages:

- The compact and closed design with a large oil reserve ensures a long and maintenance-free operation in any mounting position.
- Low weight due to the use of high-strength aluminum alloys
- High cutting force and punch-free punching by hydropneumatic translation
- Due to the high cutting and retraction force, various small tools can be picked up on the punch. To control a 5/2 way valve is required. For faster operation, a quick exhaust valve on the cylinder is recommended
- The moving parts are made of wear-resistant and corrosion-resistant or -protected materials. All aluminum parts are anodised and the tubes are hard-coded aluminum profile tubes. Operation is almost maintenance-free, it is only clean and dry air required





Technical data:

Transmission ratio:	1 : 10,25	1 : 6,5
Cutting force:	87 KN at 6 bar	10,9 KN bei 6 bar
Return stroke:	3750 N at 6 bar, 5000 N at 8 bar	
Power stroke:	13 mm	18 mm
Air consumption:	at 6 bar 12.8 NL/ stroke	5,3 NL/ stroke
Mounting:	2 x M8 (see drawing)	
Weight:	approx. 7.2 kg	

SOMATEC® Components for mech. engineering

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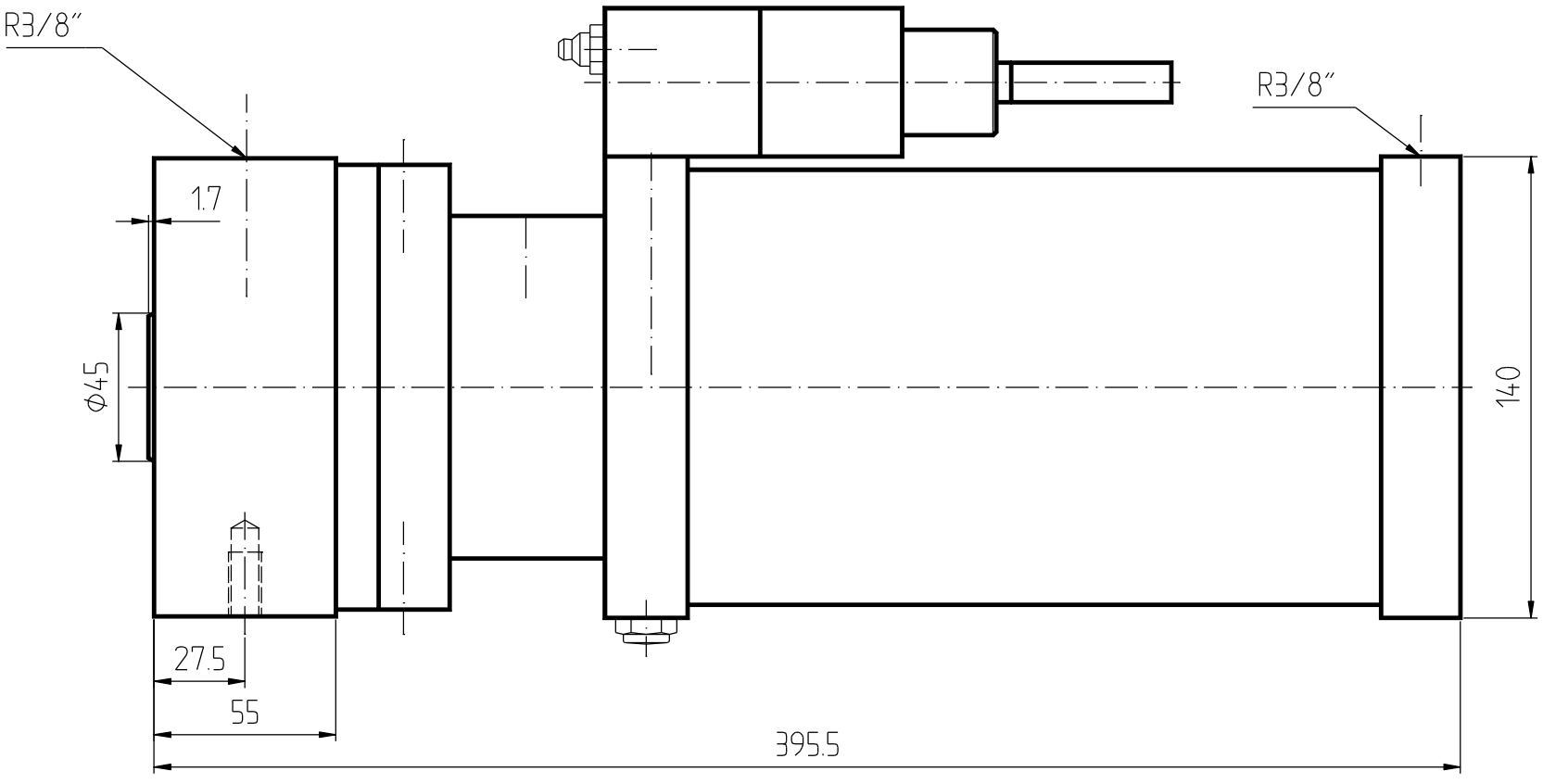
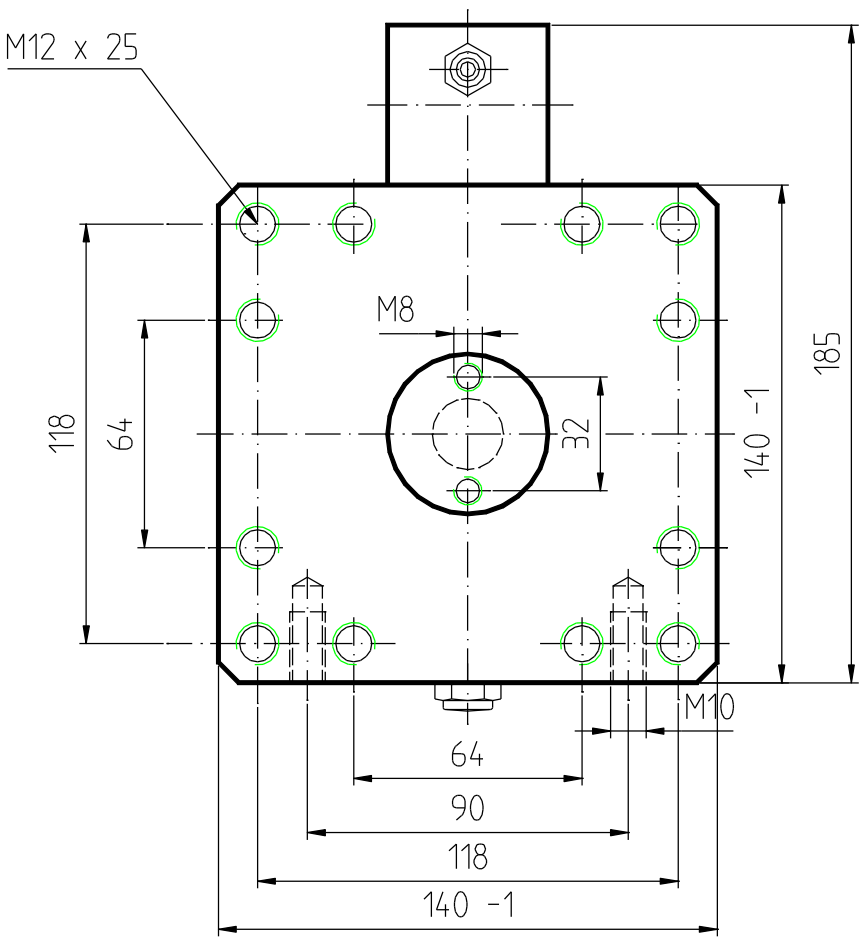
Hydropneumatic power cylinder

HPPZ-10

Our power cylinders offer the following advantages:

- Closed, compact design with oil reserve tank and oil level indicator
- Lightweight due to use of high-strength aluminum alloys
- Can be installed in any location due to the closed oil system
- High cutting power and shock-free punching through hydropneumatic boost
- Several small tools can be used on the punch due to the high cutting and retraction force. A 5/2 way valve is required for control purposes. A quick exhaust valve is recommended on the cylinder to run faster.
- All moving parts are made of frictionless and corrosion-resistant or corrosion-protected materials. All aluminium parts are anodized; hard-coded aluminium profile tubes are used. Operation is virtually maintenance free; it only needs clean, dry air.





Technical data:

Transmission ratio:	1 : 38
Cutting force:	Up to 87 KN at 6 bar to 110 KN at 8 bar (or customised to customer specifications)
Return stroke:	3750 N at 6 bar, 5000 N at 8 bar
Power stroke:	10 mm at 87 KN and 6 bar (or customised to customer specifications)
Air consumption:	at 6 bar 12.8 NL/ stroke
Weight:	12 kg
Mounting:	see drawing

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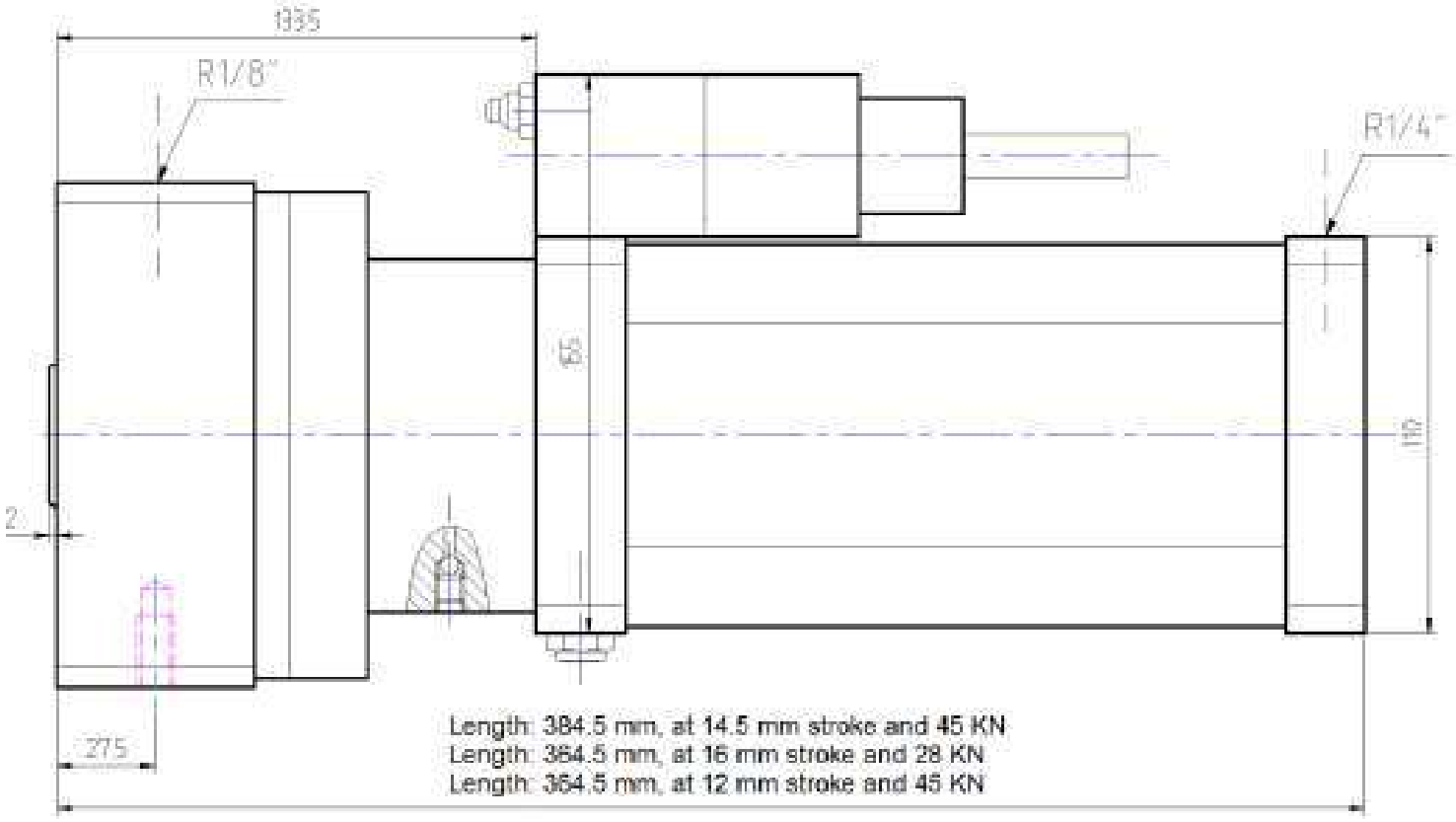
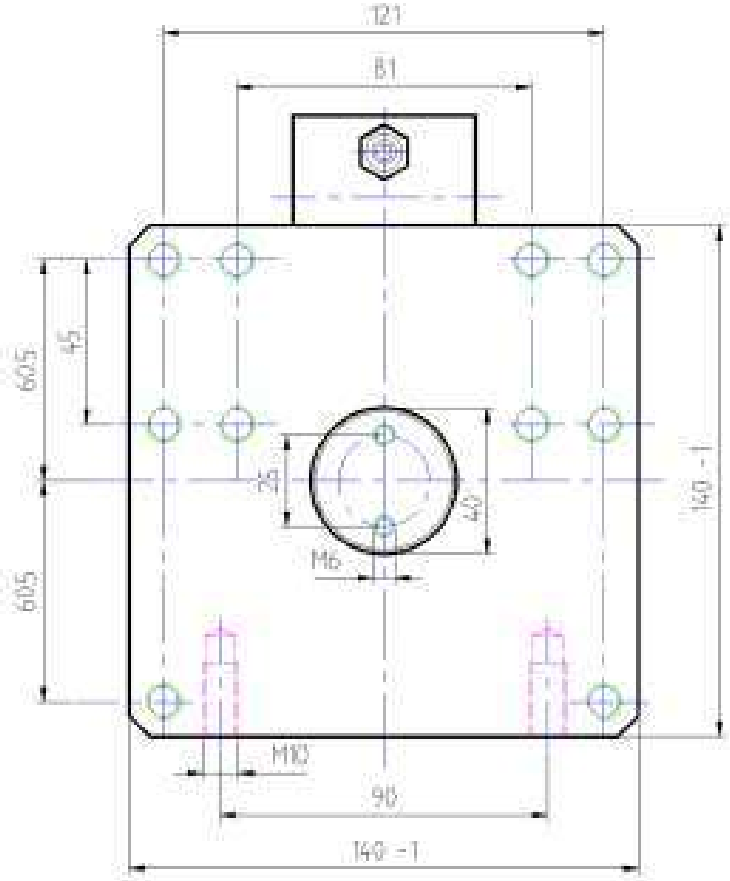
Hydropneumatic power cylinder

HPPZ - 14,5 – 45 KN

Our power cylinders offer the following advantages:

- reserve tank and oil level indicator
- Closed, compact design with oil
- Lightweight due to use of high-strength aluminium alloys
- Can be installed in any location due to the closed oil system
- High cutting power and shock-free punching through hydropneumatic boost
- Several small tools can be used on the punch due to the high cutting and retraction force. A 5/2 way valve is required for control purposes. A quick exhaust valve is recommended on the cylinder to run faster.
- All moving parts are made of friction-less and corrosion-resistant or corrosion-protected materials. All aluminium parts are anodized; hard-coded aluminium profile tubes are used. Operation is virtually maintenance free; it only needs clean, dry air.





Technical data:

Transmission ratio:	1 : 38
Cutting load:	at ∅ 40 = 4770 N je 1 bar, at 6 bar 28 KN, max. 38 KN
	at ∅ 50 = 7650 N je 1 bar, at 6 bar 45 KN, max. 61 KN
Return stroke:	at 6 bar 3950 N
Operating pressure:	max. 8 bar
Working stroke:	at ∅ 40 = 16 mm
	at ∅ 50 = 12 mm (or 14,5)
Mounting:	2 x M10 (see drawing)
Air consumption:	at 6 bar 6.87 NL/ stroke
Weight:	approx. 9.8 kg