DataSheet

UPP50

Pneumatic Positioning Unit, movement 50 mm

☐ Information for Technifor personnel only ☒ Information which can be diffused to customers

Implicated Technology		
☒ Pneumatic Micro-Percussion	☐ Scribing	☐ Mark'nRead
☒ Electro-magnetic Micro-Percussion	☐ Laser	

Description

This accessory is designed for Technifor pneumatic and electro-magnetic micro-percussion marking heads, product range:

- CN212Cp
- CN312Cm

Its main function is to bring the marking head towards the surface to be marked, then retract the marking head.

On an automated production line, this unit allows for programming of the following type of cycle:

1	2	3	4	5
start cycle	move towards the part to be marked	mark the part	return to back position	indicate the end of the cycle to the PLC
PLC ➔ UC112 Contacts 2 & 15 of the UC112				UC112 ➔ PLC Contacts 1 & 14 of the UC112

The forward / backward movement is handled by a pneumatic slide with integrated guiding and a range of movement of 50 mm.

The slide completes its movement as it comes into contact with the stops of the positioning unit. Positioning sensors (optional) give the location of the marking head (either its original or marking position) to the PLC.

Remark: The UPP50 is not designed to put pressure on the part.

Use

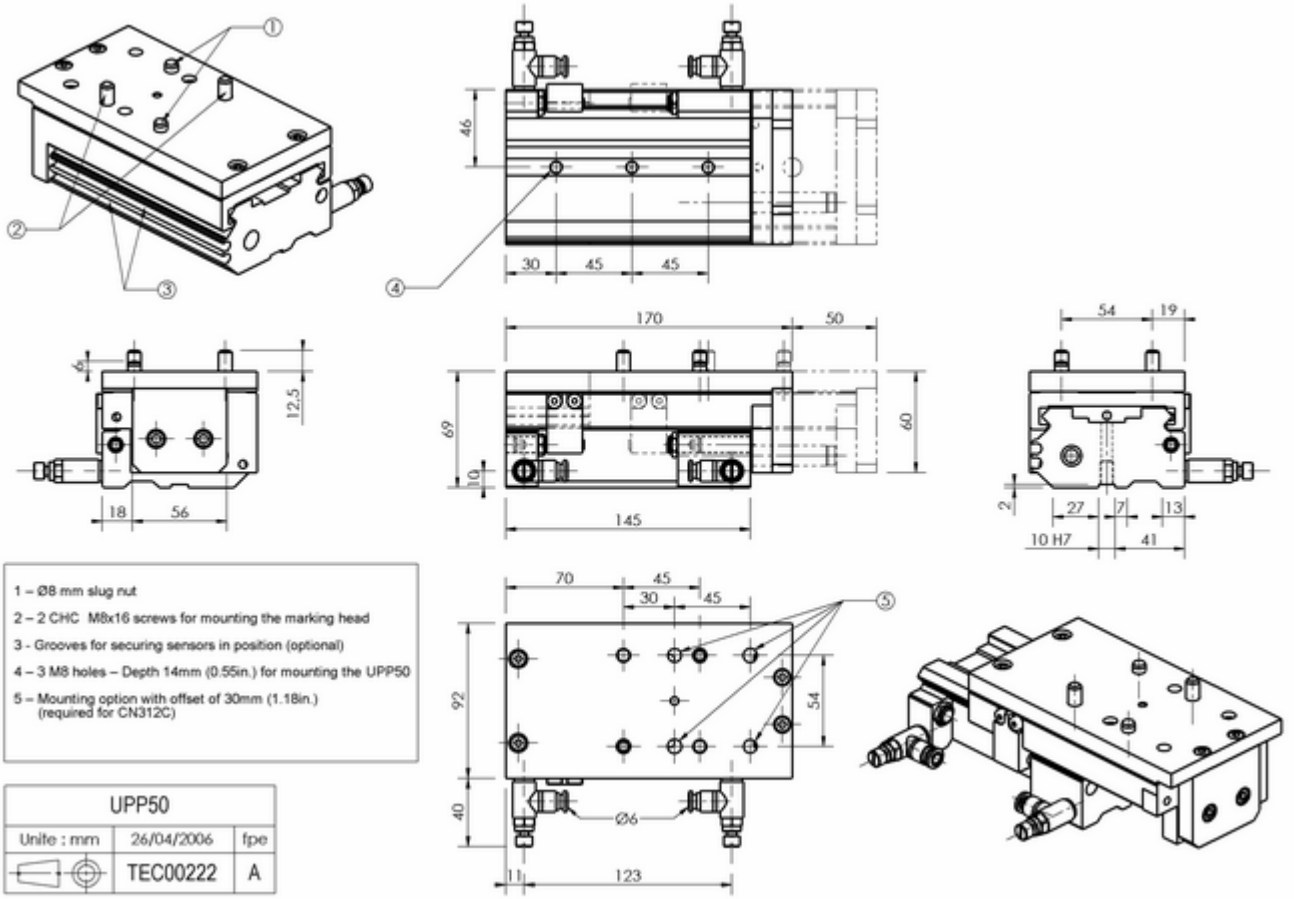
The UPP50 can be integrated horizontally or vertically (stylus pointing upward or downward).

The interface with the PLC transfers information regarding "start cycle" and "end of cycle".

Advantages

❶ This unit was designed and tested by our Engineering department to meet the needs of intensive production lines.	► Operating factors: Continuously 3x8 hours, 6 days / 7. 3 cycles / mn 1 million cycles / year
❷ The start cycle command, via the communication interface of the UC112, handles the operating cycle.	► Time saved on integration: not necessary to develop the automatism part of the automat.
❸ Uses the UC112 6I/2O board.	► Money saved on the I/O.
❹ Installation of end of travel positioning sensors possible (type PNP or NPN).	► Operating safety for automatic cycles.
❺ Programming via the UC112's internal marking program.	► Available in more than 22 languages. (It is also available to program the UPP50 via a PLC).
❻ Drawings provided in DXF and 3D format.	► Time saved on integration.
❼ A complete unit, ready for use.	► No longer necessary to consult in order to find the missing part.

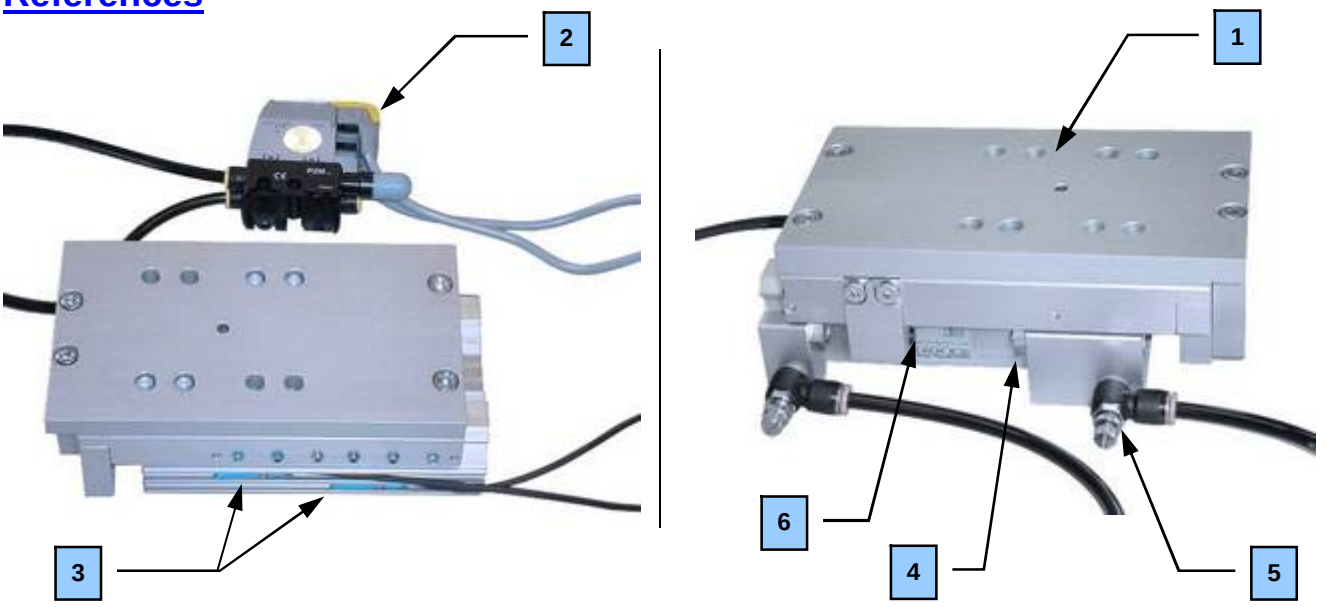
Dimensional drawings



Technical characteristics

Pneumatic jack with integrated guiding, range of movement 50 mm	Adjustment of the travel distance by up to 10mm (0.39in.) is possible in both table positions.
1 Mounting plate for the marking heads	Compatible with heads: CN212Cp & CN312Cm
2 Pneumatic distributor	Air inlet: pneumatic connection for Ø 6 mm Rilsan tube. Power supply: through the UC112. Connectors, connections and silencers included.
3 Two inductive positioning sensors (optional)	Informs the PLC as to the position of the making head. Cable length: 2.00 m (6.6ft.) Type NPN : driven by UC112 Type PNP : driven by a PLC
4 Adjustable thrusts	Allows for adjustment of the distance between point / part to be marked.
5 Pneumatic connections with flow adjustment (to adjust speed of forward and backward movements)	Pneumatic connection for Ø 6 mm Rilsan tube.
6 Shock absorbing function to reduce noise and vibrations at the end of movement	Rubber stop
Necessary connectors not included	*Electrical*: we recommend using a screw-in connector block + SubD25 connector for the cabling (type Phoenix 2962748 [UM 45-D25SUB/B]). *Pneumatic*: connection at output of manometer regulator provided with the CN212Cp + Ø 6 mm Rilsan tube.
Weight	2.2 Kg
Speed (adjustable)	0.1 m/s max.
Power	Filtered compressed air: 5.5 Bar / 79.8PSI

References



	Pneumatic Positioning Unit	
	SEOP013/219	UPP50 + pneumatic distributor
	Recommended accessories	
3	SEOP013/220	2 Positioning sensors type PNP for UPP50
3	SEOP013/221	2 Positioning sensors type NPN forUPP50
	Spare parts	
2	ELE01/4250	Pneumatic distributor for UPP50

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