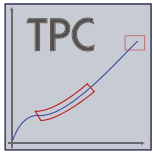


## The accessories



## Manually assisted pneumatic toggle presses

Manually assisted toggle presses are used when, due to particular features of the workpiece, both hands cannot be engaged in two-handed operation at the beginning of the working stroke and a large force still has to be achieved at the end of the stroke.

With the NP manually assisted pneumatic toggle presses, safe working is possible in such cases. The ram is lowered to the power stroke position using the manual lever and the workpiece is then held by the force of the lever. A sensor registers this position. At the same time, the workpiece can be released and a pushbutton pressed with the second hand which then initiates the power stroke.

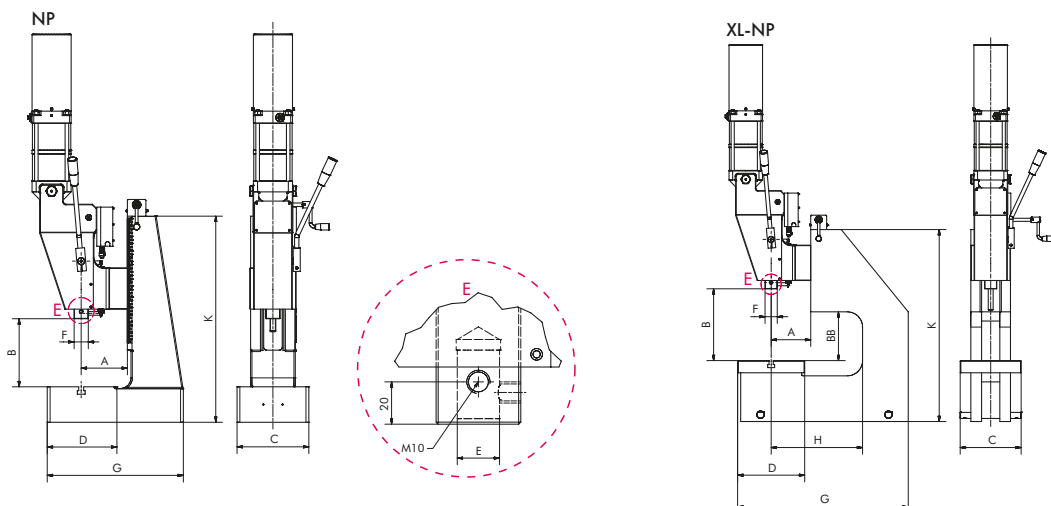
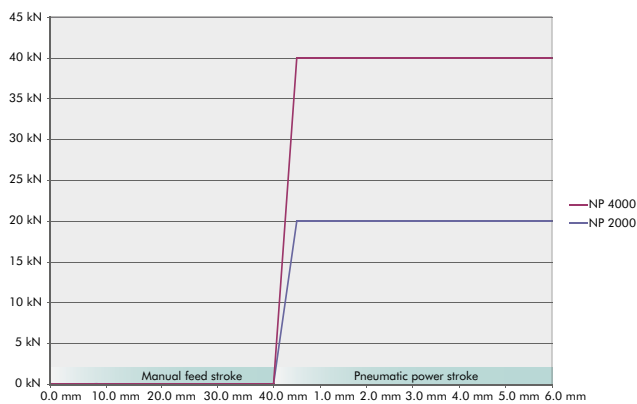
The power stroke can only be initiated when both hands are engaged. Hence, if the manual lever were released, for example, the ram would be raised by a safety mechanism and the permission for the power stroke in the controller would thus be removed.

The length of the pneumatic power stroke of NP manually assisted pneumatic toggle presses and therefore the TDC position can be steplessly adjusted with high precision from 0 mm - 6 mm stroke length using the standard fine adjustment facility.

As a result of the special transmission mechanism, a constant power stroke is available over the whole length of the stroke.



Stroke adjustment



Request CAD at [www.maederpressen.de](http://www.maederpressen.de) or directly from Tel.+49 (0) 74 67 - 94 67 - 0



NP 2000

XL-NP 4000

Type			NP 2000	NP 4000	XL-NP 2000	XL-NP 4000
Capacity at 6 bar		kN	20	40	20	40
Manual feed stroke		mm	40	40	40	40
Pneumatic power stroke		mm	0 - 6	0 - 6	0 - 6	0 - 6
Throat	A	mm	130	130	130	130
Throat C-frame	H	mm	-	-	300	300
Daylight	B	mm	58 - 325	58 - 325	125 - 265	125 - 265
Daylight C-frame	BB	mm	-	-	158	158
Table size	CxD	mm	200 x 190	200 x 190	200 x 220	200 x 220
T-slot width similar to DIN 650		mm	14	14	14	14
Ram bore Ø x Depth	E	mm	20H7 x 25	20H7 x 25	20H7 x 25	20H7 x 25
Ram Ø	F	mm	40 x 40	40 x 40	40 x 40	40 x 40
Air connection			G 3/8"	G 3/8"	G 3/8"	G 3/8"
Air consumption/cm cyl. stroke		l	0.5	0.75	0.5	0.75
Space requirement	CxG	mm	200 x 385	200 x 385	200 x 560	200 x 560
Stand height	K	mm	580	580	630	630
Weight		kg	ca. 95	ca. 96	ca. 135	ca. 136

Manually assisted pneumatic toggle presses