

Clamps — continued

Toggle Clamps – Horizontal



- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc plated and passivated steel



	H250/2B	H75/2B	H150/2B	H250/2B
Nominal holding force	50 kg	75 kg	150 kg	250 kg
Weight	0.036 kg	0.10 kg	0.25 kg	0.90 kg
Height	22	36	53	108
Length	70	116	170	280
Hole centres	16 16	16,8 13.5	2,8 2,6	3,1 2,6
Hole Ø	4.2 slotted	5.2	5.5 slotted	6.6 slotted
Clamp arm length	26	37	61	79
Order Code	714-7636	714-7648	714-7661	714-7673

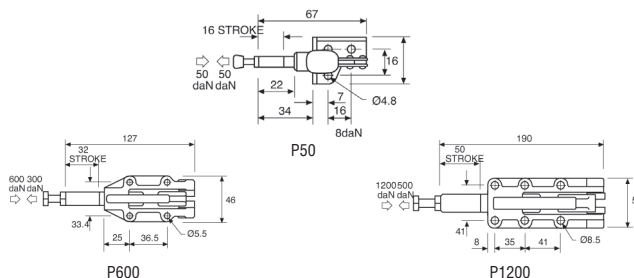
MAT116

Mftrs. List No.	Order Code	1+	3+	6+	12+
H50/2B	714-7636				
H75/2B	714-7648				
H150/2B	714-7661				
H250/2B	714-7673				

Toggle Clamps – Push-Pull



- A range of toggle clamps for use when positive clamping is required
- P50 is light-duty base-mounted clamp
- P600 and P1200 are heavy-duty clamps
- Complete with cushioned PVC handle grip
- Main components steel



	P50	P600	P1200
Nominal holding force	50 kg	600 kg	1200 kg
Weight	0.05 kg	0.45 kg	1.35 kg
Height	42	67	88
Order Code	714-7843	714-7855	714-7867

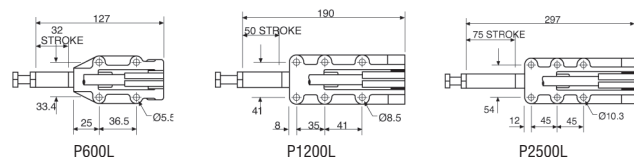
MAT118

Mftrs. List No.	Order Code	1+	3+	6+	12+
P50	714-7843				
P600	714-7855				
P1200	714-7867				

Toggle Clamps – Long Handle Push-Pull



- A range of toggle clamps for use when positive clamping is required
- P50 is light-duty base-mounted clamp
- P600 and P1200 are heavy-duty clamps
- Complete with cushioned PVC handle grip
- Main components steel

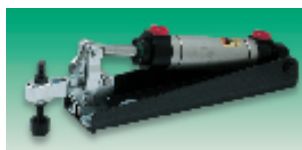


	P600L	P1200L	P2500L
Nominal holding force	600 kg	1200 kg	2500 kg
Weight	0.55 kg	1.60 kg	4.15 kg
Height	130	200	280
Order Code	714-8148	714-8161	714-8173

Mftrs. List No.	Order Code	1+	3+	6+	12+
P600L	714-8148				
P1200L	714-8161				
P2500L	714-8173				

MAT120

Pneumatic Toggle Clamps



- Vertical models are zinc-plated pressed steel
- Compact cylinders without tie-rods
- Push-pull models are machined castings with steel plungers
- Can be operated with dry air; air lubrication extends cylinder life
- Operating air pressure range 2-6 bar



	V75X	V150X	V250X	P600X	P1200X
Nominal holding force	75 kg	150 kg	250 kg	600 kg	1200 kg
Max. cycles/Min. at 6 bar	40	60	55	60	50
Swept volume per cycle	0.02 L <sup>3</sup>	0.04 L <sup>3</sup>	0.09 L <sup>3</sup>	0.09 L <sup>3</sup>	0.28 L <sup>3</sup>
Weight	0.40 kg	0.65 kg	1.20 kg	1.45 kg	3.70 kg
Overall length	178	227	309	325	435
Overall height	50	64	85	53	75
Arm length (vertical)	30	42	75	—	—
Stroke (push – pull)	—	—	—	25	32
Stroke sensing kit	SK/1	SK/2	SK/3	SK/3	SK/4
Order Code	714-8823	714-9025	714-9086	714-9244	714-9323

MAT122

Mftrs. List No.	Order Code	1+	3+	6+	12+
<b>Vertical</b>					
V75X	714-8823				
V150X	714-9025				
V250X	714-9086				
<b>Push-pull</b>					
P600X	714-9244				
P1200X	714-9323				
<b>Sensing kit</b>					
SK/1	714-8835				
SK/2	714-9037				
SK/3	714-9098				
SK/4	714-9347				

Manual Assembly Presses



- Generate high forces end of stroke
- Suitable for light work such as swaging, press-fitting and rivetting
- Handle can be mounted to front or rear, depending on application
- Base machined from iron castings

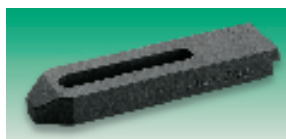


	P600PR	P1200PR	P2500PR
Nominal holding force	600 kg	1200 kg	2500 kg
Overall height	232	330	468
Stroke	32	50	75
Throat clearance	50	60	75
Height clearance	75	100	120
Weight	3.60 kg	7.35 kg	15.50 kg
Order Code	714-8781	714-8793	714-8800

MAT121

Mftrs. List No.	Order Code	1+	3+	6+	12+
P600PR	714-8781				
P1200PR	714-8793				
P2500PR	714-8800				

Step Clamps



- Adjustable step clamp
- To be used with step blocks
- Enamelled carbon steel

Slot size	Length	For threads:	a	b2	b3	e1	e2	Mftrs. List No.	Order Code
b1	l								
9	60	M8	12	25	10	13	22	1002.W009	714-6577
11	80	M10	15	30	12	15	30	1002.W011	714-6589
14	160	M12,M14	20	40	14	21	90	1002.W015	714-6590
18	125	M16,M18	25	50	18	26	45	1002.W018	714-6607