

TM1 & TM2 SERIES GAP FRAME MECHANICAL PRESSES
35-315 Metric Tons

Standard Features

- Automatic recirculating oil lubrication
 - Automatic oil counterbalance lubrication
 - Articulated control arm mounting
 - Area Die Lights
 - Fabricated steel frame
 - Wet clutch/brake
 - Hydraulic overload protection
 - 6-point slide guiding
 - Single gear reduction drive
 - Isolator mounts
 - Built to JIS Class 1 accuracy standards
- Powered die height adjustment w/ electronic readout in millimeter and inch
 - PLC-based control with 10” color touch screen
 - 8 channel PLS
 - 8 input die protection

Optional Features

- Auto shutheight ADJ
- Built-in tonnage monitor

Customization

While one of our standard configuration presses may be perfectly suitable for your needs, that may not always be the case. In such instances, all MMC presses can be custom-engineered to meet a wide variety of your special production requirements. These are just some of the special features we can provide — even if a one-off!

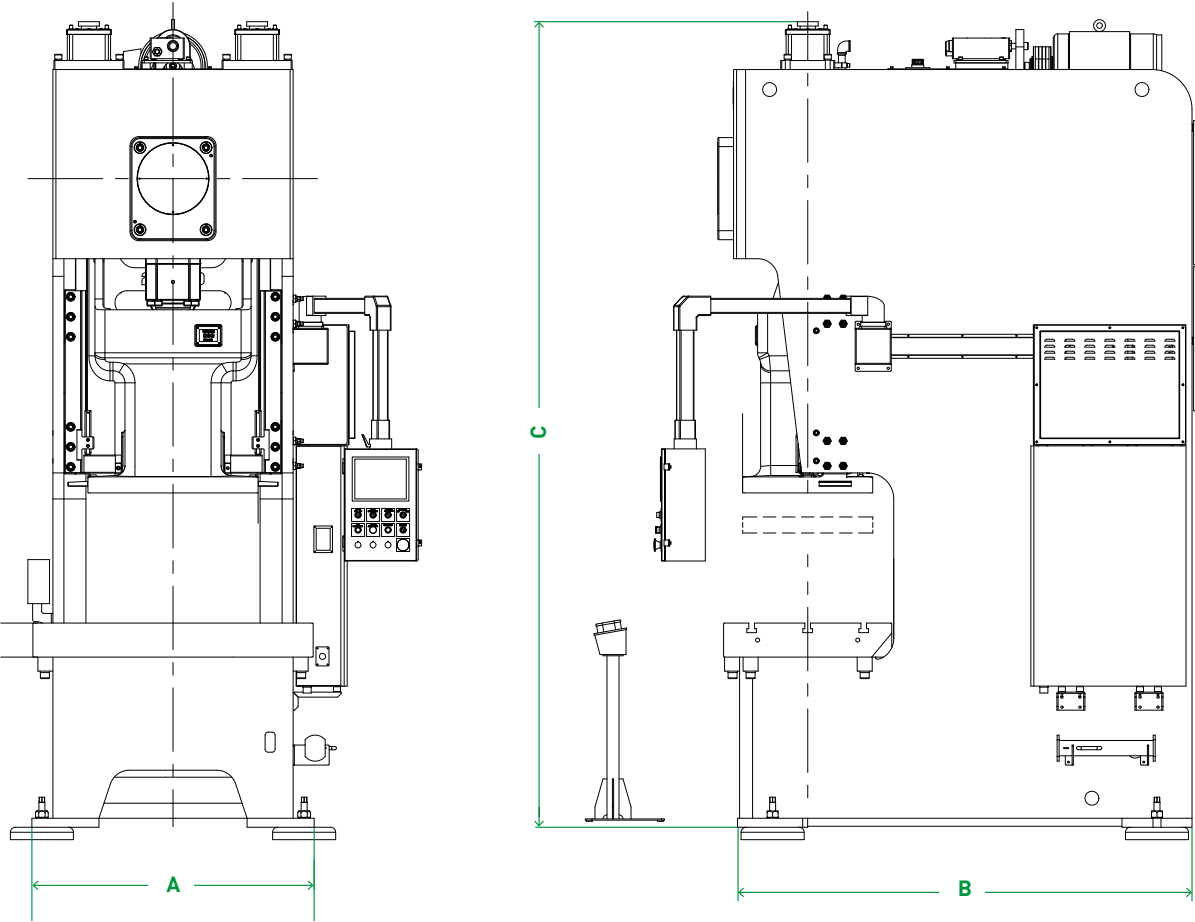
- 8-point slide guiding
- Inclined (or incline-able forms)
- Non-geared (flywheel-type) drive for higher speed applications
- Custom stroke and die height
- Custom high-energy drive for tough forming or drawing applications
- Custom slide and bolster dimensions
- Custom controls
- Custom die cushions
- Quick die change equipment
- Point-of-operation guarding
- Coil feed lines and automation

SPECIFICATIONS & DIMENSIONS
TM1 Series

		TM1-35	TM1-45		TM1-60		TM1-80		TM1-110	
Press Type		L	L	S	L	S	L	S	L	S
Capacity in Tons		35 metric ton	45 metric ton		60 metric ton		80 metric ton		110 metric ton	
		37.5 US ton	49.5 US ton		66 US ton		88 US ton		121 US ton	
Torque Capacity from BDC	mm	3.2	3.2	1.6	4	2	5	3.2	5	3.2
	in	0.126	0.126	0.063	0.157	0.079	0.197	0.126	0.197	0.126
Approximate Press Weight	kg	3,000	3,800		5,600		7,000		9,500	
	lb	6,600	8,360		12,320		15,400		20,900	
Stroke Length	mm	70	80	50	120	60	150	100	180	110
	in	2.75	3.15	1.97	4.72	2.36	5.91	3.94	7.09	4.33
Speed Range at Full Tonnage	spm	60-120	50-100	75-150	45-90	60-120	40-75	55-110	30-60	50-100
Area of Slide, R-L x F-B	mm	360 x 250	400 x 300		500 x 360		700 x 460		960 x 520	
	in	14.17 x 9.84	15.75 x 11.81		19.69 x 14.17		27.56 x 18.11		37.80 x 20.47	
Recommended Max Upper Die Weight	kg	260	300		300		500		550	
	lb	575	660		660		1,100		1210	
Bolster Plate Thickness	mm	90	90		90		100		120	
	in	3.54	3.54		3.54		3.94		4.72	
Area of Bolster, R-L x F-B	mm	800 x 400	850 x 440		900 x 500		1,000x600	1,000x460	1,150x680	1,150x520
	in	31.49 x 15.75	33.46 x 17.32		35.43 x 19.69		39.4x23.6	39.4x18.11	45.3x26.8	45.3x20.5
Throat Depth, F-B	mm	175	225		255		305	235	350	270
	in	6.88	8.86		10.04		12.01	9.25	13.78	10.63
Bed Deflection	mm	1/6,000	1/6,000		1/6,000		1/6,000		1/6,000	
	in	0.0018	0.0018		0.0018		0.0018		0.0018	
Shutheight Maximum (SDAU)	mm	220	250		310		330	300	350	320
	in	8.66	9.84		12.20		12.99	11.81	13.78	12.60
Shutheight Adjustment	mm	55	60		75		80		80	
	in	2.16	2.36		2.95		3.15		3.15	
Drive Motor	kw	2.2	3.7		5.5		7.5		7.5	
	hp	3	5.0		7.4		10.1		10.1	

SPECIFICATIONS & DIMENSIONS
TM1 Series

		TM1-160		TM1-200		TM1-250		TM1-315	
Press Type		L	S	L	S	L	S	L	S
Capacity in Tons		160 metric ton		200 metric ton		250 metric ton		315 metric ton	
		176 US ton		220 US ton		275 US ton		346.5 US ton	
Torque Capacity from BDC	mm	6	3.2	6	4.5	7	4.5	7	4.5
	in	0.236	0.126	0.236	0.177	0.276	0.177	0.276	0.177
Approximate Press Weight	kg	13,000		20,000		26,000		29,000	
	lb	28,600		44,000		57,200		63,800	
Stroke Length	mm	200	130	200	160	200	160	250	160
	in	7.87	5.12	7.87	6.30	7.87	6.30	9.84	6.30
Speed Range at Full Tonnage	SPM	25-50	40-80	25-45	35-70	20-40	30-60	20-40	30-60
Area of Slide, R-L x F-B	mm	980 x 580		1100 x 650		1200 x 700		1200 x 700	
	in	38.58 x 22.83		43.31 x 25.59		47.24 x 27.56		47.24 x 27.56	
Recommended Max Upper Die Weight	kg	550		900		900		920	
	lb	1,210		1,980		1,980		2,024	
Bolster Plate Thickness	mm	150		170		180		180	
	in	5.91		6.69		7.09		7.09	
Area of Bolster, R-L x F-B	mm	1250 x 760	1250x600	1400 x 840	1400x680	1500 x 900	1500x710	1600 x 900	1600x710
	in	49.2x29.92	49.21x23.62	55.12x33.07	55.12x26.77	59.06x35.43	59.06x27.95	62.99x35.43	62.99x27.95
Throat Depth, F-B	mm	390	310	430	350	460	380	460	380
	in	15.35	12.20	16.93	13.78	18.11	14.96	18.11	14.96
Bed Deflection	mm	1/6,000		1/6,000		1/6,000		1/6,000	
	in	0.0018		0.0018		0.0018		0.0018	
Shutheight Maximum (SDAU)	mm	450	400	450	400	450	400	450	400
	in	17.72	15.75	17.72	15.75	17.72	15.75	17.72	15.75
Shutheight Adjustment	mm	100		110		120		120	
	in	3.94		4.33		4.72		4.72	
Drive Motor	kW	11		15		15		18.5	
	hp	14.7		20.1		20.1		24.8	



		TM1-35	TM1-45	TM1-60	TM1-80	TM1-110	TM1-160	TM1-200	TM1-250	TM1-315
A	mm	750	790	910	1060	1110	1250	1410	1600	1700
B	mm	1315	1335	1495	1635	1790	1960	2270	2460	2715
C	mm	2600	2600	2930	3155	3300	3900	4500	4700	4900

* Above specifications are subject to change when custom specifications apply.