

Extra Model 55

Demag Plastics Group			
Model Description		Extra Model 55-200	Extra Model 55-310
International Size Description		500-200	500-310
Clamp Unit			
Measure			
Clamp Force	U.S. tons kN	55	500
Locking Force	U.S. tons kN	55	500
Clamp Stroke	in. mm	15.75	400
Mold Thickness – Min.	in. mm	8.27	210
Mold Thickness – Max.	in. mm		
Open Daylight – Max.	in. mm	24.02	610
Platen Size			
Horizontal	in. mm	18.90	480
Vertical	in. mm	18.90	480
Distance Between Tie Bars			
Horizontal	in. mm	13.98	355
Vertical	in. mm	13.98	355
Ejector Stroke	in. mm	4.92	125
Ejector Force	U.S. tons kN	4.6	41
Injection Unit		200	
Measure		310	
		A	B
Screw Diameter	in. mm	0.98 25	1.18 30
Injection Capacity (GPPS)	oz. g	1.94 55	3.35 95
Injection Capacity	cu. in. ccm	3.7 61	6.5 106
Recovery Rate (GPPS)	oz./sec. g/sec.	0.37 10.5	0.52 14.7
Injection Pressure (up to 752°F)	psi bar	39,914 2,752	28,935 1,995
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec. ccm/sec.	4.3 70	5.5 90
Injection Stroke	in. mm	4.92 125	5.91 150
Screw L/D Ratio		20/1	20/1
Maximum Screw Speed	rpm	420	420
Back Pressure Adjust	psi bar	0-580 0-40	0-580 0-4
Barrel Heating Capacity	kW	5.8	8.3
Nozzle Sealing Force	U.S. Tons kN	6.7 60	6.7 60
General Machine Specifications		200	
Measure		310	
Pump Motor	Hp kW	15 11	15 11
Pump Capacity (@100 psi) (@7 bar)	gpm LPM	17.2 65	17.2 65
Oil Capacity	gal Liter	35.7 135	35.7 135
Dry Cycles (EUROMAP)	s in. s mm	2.73-9.76	2.73-248
Machine Weight (approx.)	lb. kg	5,291 2,400	5,478 2,485
Machine Dimensions			
Length	in. mm	149.41 3,795	153.70 3,904
Width	in. mm	47.32 1,202	47.32 1,202
Height	in. mm	78.58 1,996	75.75 1,924

Performance specifications are based on theoretical data and mold, material and conditions. Since continuous improvement is Demag Plastics Group's policy, we reserve the right to change specifications, designs and performance data without prior notice or obligation.

The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements.



Extra

28 to 220 tons

Technical Specifications

Demag *Plastics Group*

TECHNICAL SPECIFICATIONS

Extra Model 28

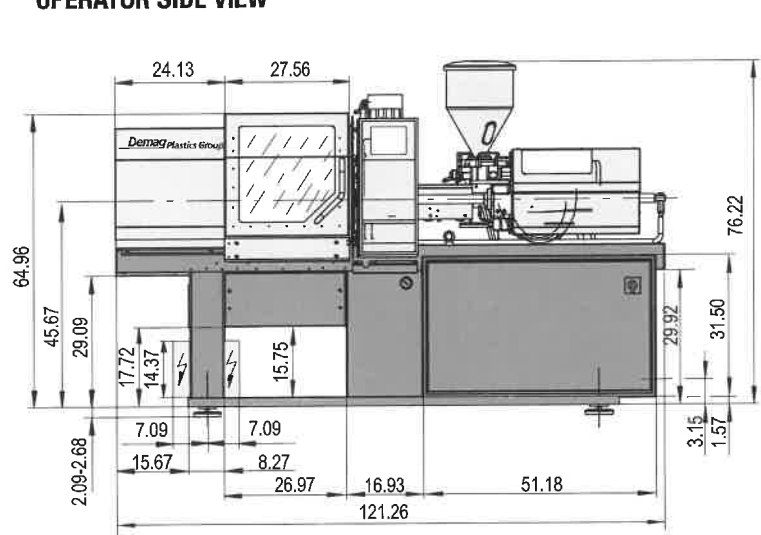
Demag Plastics Group				
Model Description		Extra Model 28-80		
International Size Description		250-80		
Clamp Unit	Measure			
Clamp Force	U.S. tons kN	28	250	
Locking Force	U.S. tons kN	28	250	
Clamp Stroke – Max.	in. mm	13.78	350	
Mold Thickness – Min.	in. mm	4.13	105	
Mold Thickness – Max.	in. mm			
Open Daylight – Max.	in. mm	17.91	455	
Platen Size				
Horizontal	in. mm	15.35	390	
Vertical	in. mm	15.35	390	
Distance Between Tie Bars				
Horizontal	in. mm	11.02	280	
Vertical	in. mm	11.02	280	
Ejector Stroke	in. mm	3.94	100	
Ejector Force	U.S. tons kN	2.9	26	
Injection Unit	Measure	80		
		A	B	C
Screw Diameter	in. mm	0.71 18	0.87 22	0.98 25
Injection Capacity (GPPS)	oz. g	0.71 20	1.31 37	1.69 48
Injection Capacity	cu. in. ccm	1.4 23	2.6 42	3.3 54
Recovery Rate (GPPS)	oz./sec. g/sec	0.11 3.0	0.18 5.0	0.32 9.0
Injection Pressure (up to 752°F)	psi bar	41,597 2,868	29,892 2,061	23,148 1,596
Injection Rate (@10,000 psi) (@ 700 bar)	cu. in./sec. ccm/sec.	2.0 33	3.1 50	3.9 64
Injection Stroke	in. mm	3.54 90	4.33 110	4.33 110
Screw L/D Ratio		20/1	20/1	20/1
Maximum Screw Speed	rpm	0-387	0-387	0-387
Back Pressure Adjust	psi bar	0-580 0-40	0-580 0-40	0-580 0-40
Barrel Heating Capacity	kW	4.3	5.3	5.8
Nozzle Sealing Force	U.S. Tons kN	6.7 60	6.7 60	6.7 60
General Machine Specifications	Measure	80		
Pump Motor	Hp kW	10	7.5	
Pump Capacity (@100 psi) (@7 bar)	gpm LPM	17.2	65	
Oil Capacity	gal Liter	31.7	120	
Dry Cycles (EUROMAP)	s in. s mm	2.31-7.72	2.31-196	
Machine Weight (approx.)	lb. kg	3,417	1,550	
Machine Dimensions				
Length	in. mm	121.26	3,080	
Width	in. mm	44.17	1,122	
Height	in. mm	76.22	1,936	

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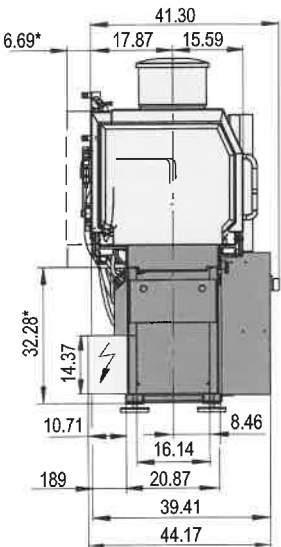
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Extra Model 28

OPERATOR SIDE VIEW

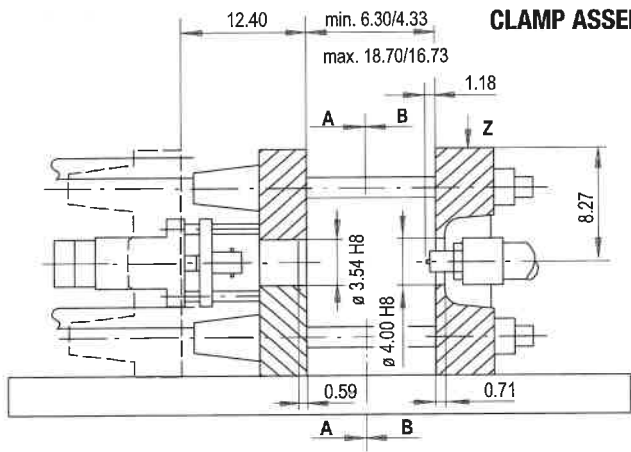


* enlarged safety guard, applicable with Ergorob (sprue picker)

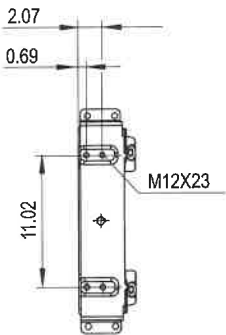


INJECTION
END VIEW

CLAMP ASSEMBLY

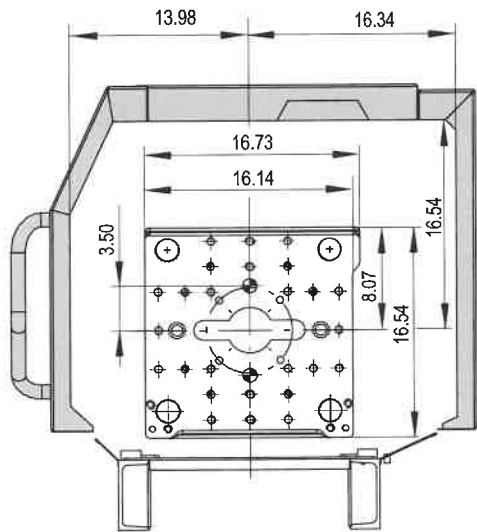


Hole pattern for robot/sprue picker
on fixed platen

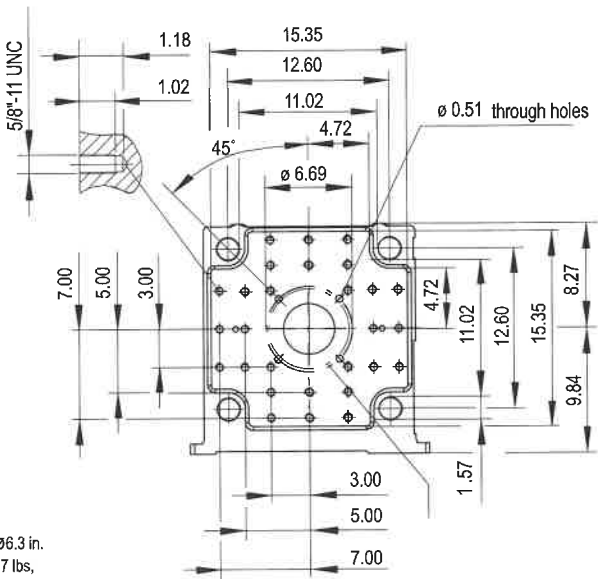


ROBOT
MOUNTING
PATTERN

MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
k = minimum permissible mold- $\phi 6.3$ in.
Max. permissible mold weight 507 lbs,
Max. 331 lbs. of it on the moving platen support bearings
Centering diameter 2 x 4.33 H8

Extra Model 40

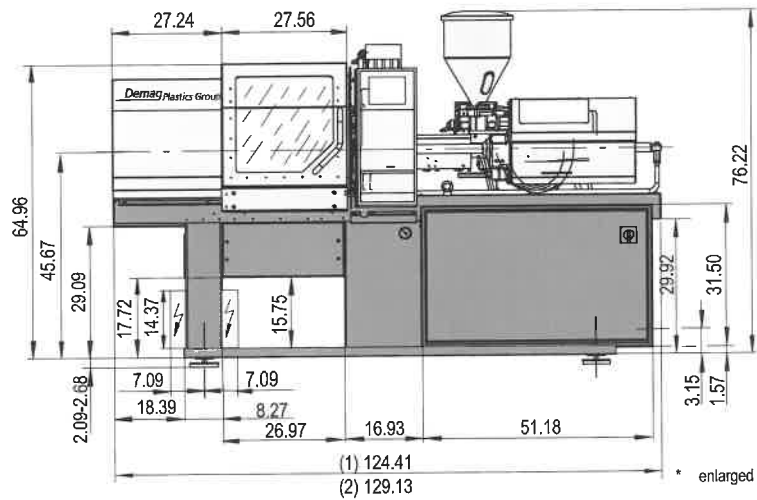
Demag Plastics Group									
Model Description			Extra Model 40-80			Extra Model 40-120			
International Size Description			350-80			350-120			
Clamp Unit		Measure							
Clamp Force	U.S. tons	kN				40	350		
Locking Force	U.S. tons	kN				40	350		
Clamp Stroke – Max.	in.	mm				13.78	350		
Mold Thickness – Min.	in.	mm				7.09	180		
Mold Thickness – Max.	in.	mm							
Open Daylight	in.	mm				20.87	530		
Platen Size									
Horizontal	in.	mm				15.35	390		
Vertical	in.	mm				15.35	390		
Distance Between Tie Bars									
Horizontal	in.	mm				11.02	280		
Vertical	in.	mm				11.02	280		
Ejector Stroke	in.	mm				3.94	100		
Ejector Force	U.S. tons	kN				2.9	26		
Injection Unit		Measure	80			120			
			A	B	C	A	B	C	
Screw Diameter	in.	mm	0.71 18	0.87 22	0.98 25	0.87 22	0.98 25	1.18 30	
Injection Capacity (GPPS)	oz.	g	0.71 20	1.31 37	1.69 48	1.31 37	1.94 55	2.82 80	
Injection Capacity	cu. in.	ccm	1.4 23	2.6 42	3.3 54	2.6 42	3.7 61	5.4 88	
Recovery Rate (GPPS)	oz./sec.	g/sec.	0.18 5.0	0.28 8.0	0.49 14.0	0.21 6.0	0.39 11.0	0.53 15.0	
Injection Pressure (up to 752°F)	psi	bar	41,597 2,868	29,892 2,061	23,148 1,596	37,579 2,591	29,095 2,006	20,204 1,393	
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	ccm/sec.	2.9 47	4.3 70	5.5 90	3.4 56	4.4 72	6.3 103	
Injection Stroke	in.	mm	3.54 90	4.33 110	4.33 110	4.33 110	4.92 125	4.92 125	
Screw L/D Ratio			20/1	20/1	20/1	20/1	20/1	20/1	
Maximum Screw Speed	rpm		563	563	563	563	563	563	
Back Pressure Adjust	psi	bar	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	
Barrel Heating Capacity	kW		4.3	5.3	5.8	5.3	5.8	8.3	
Nozzle Sealing Force	U.S. Tons	kN	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60	
General Machine Specifications		Measure	80			120			
Pump Motor	Hp	kW	10 7.5			10 7.5			
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	17.2 65			17.2 65			
Oil Capacity	gal	Liter	31.7 120			31.7 120			
Dry Cycles (EUROMAP)	s in.	s mm	2.4-7.72 2.4-196			2.4-7.72 2.4-196			
Machine Weight (approx.)	lb.	kg	3,417 1,550			3,527 1,600			
Machine Dimensions									
Length	in.	mm	124.41 3,160			129.13 3,280			
Width	in.	mm	44.17 1,122			44.17 1,122			
Height	in.	mm	76.22 1,936			76.22 1,936			

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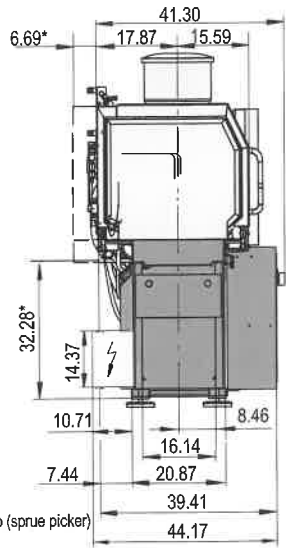
Extra Model 40

OPERATOR SIDE VIEW



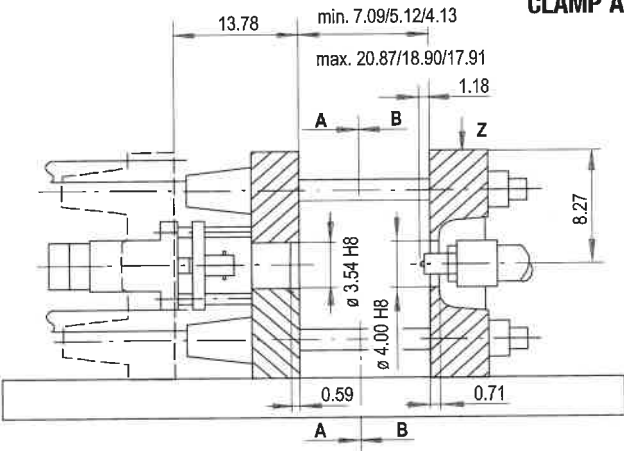
(1) Valid for Injection Unit 80
(2) Valid for Injection Unit 120

INJECTION
END VIEW

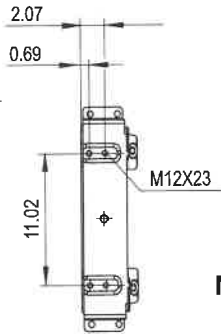


* enlarged safety guard, applicable with Ergorob (sprue picker)

CLAMP ASSEMBLY

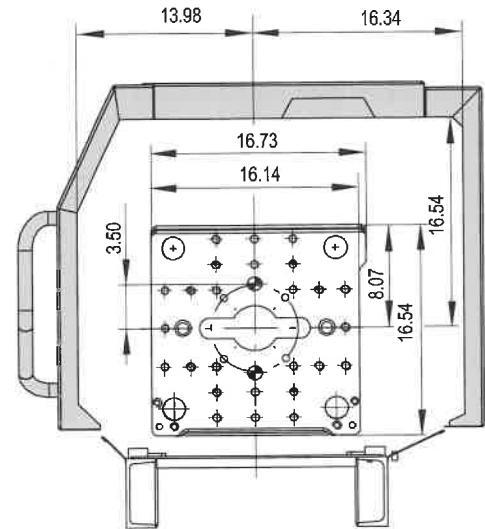


Hole pattern for robot/sprue picker on fixed platen

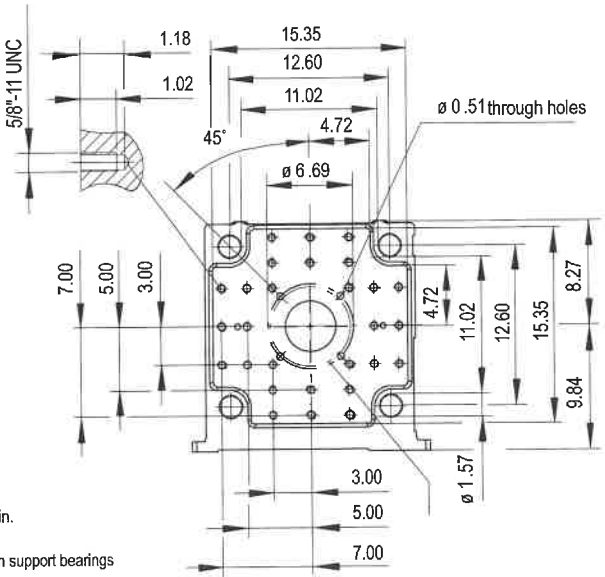


ROBOT
MOUNTING
PATTERN

MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
k = minimum permissible mold $\phi 6.30$ in.
Max. permissible mold weight 507 lbs.
Max. 331 lbs. of it on the moving platen support bearings
Centering diameter 2 x 4.33 H8

Extra Model 55

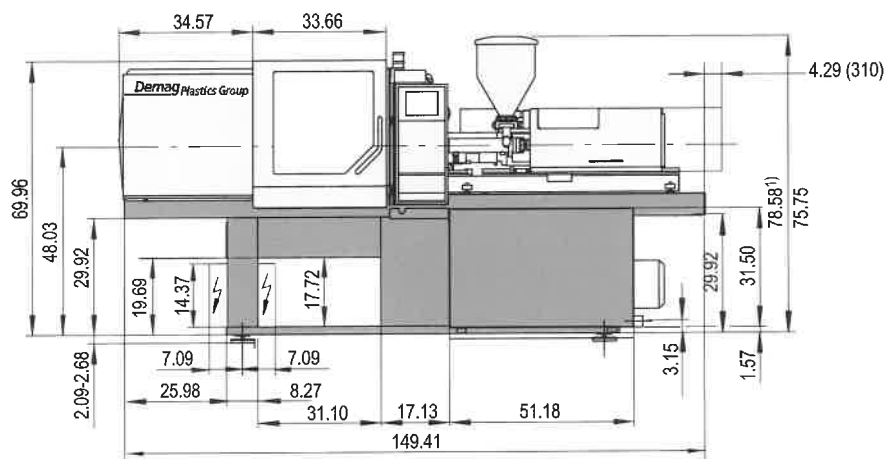
Demag Plastics Group									
Model Description			Extra Model 55-200			Extra Model 55-310			
International Size Description			500-200			500-310			
Clamp Unit		Measure							
Clamp Force	U.S. tons	kN				55	500		
Locking Force	U.S. tons	kN				55	500		
Clamp Stroke	in.	mm				15.75	400		
Mold Thickness – Min.	in.	mm				8.27	210		
Mold Thickness – Max.	in.	mm							
Open Daylight – Max.	in.	mm				24.02	610		
Platen Size									
Horizontal	in.	mm				18.90	480		
Vertical	in.	mm				18.90	480		
Distance Between Tie Bars									
Horizontal	in.	mm				13.98	355		
Vertical	in.	mm				13.98	355		
Ejector Stroke	in.	mm				4.92	125		
Ejector Force	U.S. tons	kN				4.6	41		
Injection Unit		Measure	200			310			
			A	B	C	A	B	C	
Screw Diameter	in.	mm	0.98 25	1.18 30	1.38 35	1.18 30	1.38 35	1.57 40	
Injection Capacity (GPPS)	oz.	g	1.94 55	3.35 95	4.59 130	3.35 95	5.36 152	6.98 198	
Injection Capacity	cu. in.	ccm	3.7 61	6.5 106	8.8 144	6.5 106	10.3 168	13.4 220	
Recovery Rate (GPPS)	oz./sec.	g/sec.	0.37 10.5	0.52 14.7	0.84 23.8	0.41 11.5	0.66 18.6	0.91 25.7	
Injection Pressure (up to 752°F)	psi	bar	39,914 2,752	28,935 1,995	21,263 1,466	39,958 2,755	29,356 2,024	22,481 1,550	
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	ccm/sec.	4.3 70	5.5 90	7.9 130	4.3 70	5.5 90	7.3 120	
Injection Stroke	in.	mm	4.92 125	5.91 150	5.91 150	5.91 150	6.89 175	6.89 175	
Screw L/D Ratio			20/1	20/1	20/1	20/1	20/1	20/1	
Maximum Screw Speed	rpm		420	420	420	328	328	328	
Back Pressure Adjust	psi	bar	0-580 0-40	0-580 0-4	0-580 0-4	0-580 0-4	0-580 0-4	0-580 0-4	
Barrel Heating Capacity	kW		5.8	8.3	9.4	8.3	9.4	11.1	
Nozzle Sealing Force	U.S. Tons	kN	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60	
General Machine Specifications		Measure	200			310			
Pump Motor	Hp	kW	15 11			15 11			
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	17.2 65			17.2 65			
Oil Capacity	gal	Liter	35.7 135			35.7 135			
Dry Cycles (EUROMAP)	s in.	s mm	2.73-9.76 2.73-248			2.73-9.76 2.73-248			
Machine Weight (approx.)	lb.	kg	5,291 2,400			5,478 2,485			
Machine Dimensions									
Length	in.	mm	149.41 3,795			153.70 3,904			
Width	in.	mm	47.32 1,202			47.32 1,202			
Height	in.	mm	78.58 1,996			75.75 1,924			

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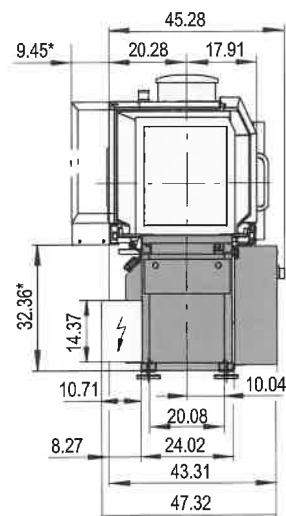
The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements.

Extra Model 55

OPERATOR SIDE VIEW



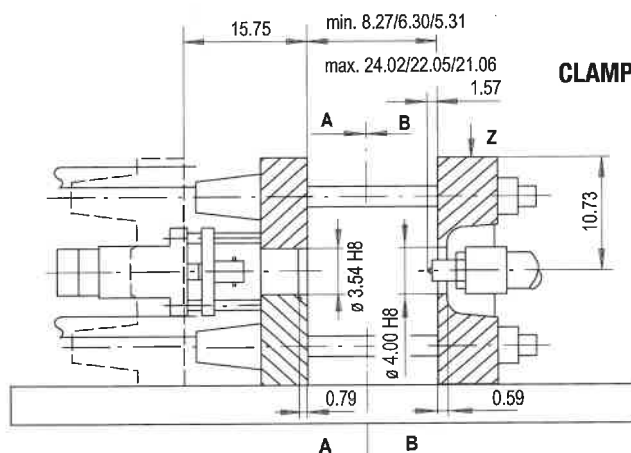
**INJECTION
END VIEW**



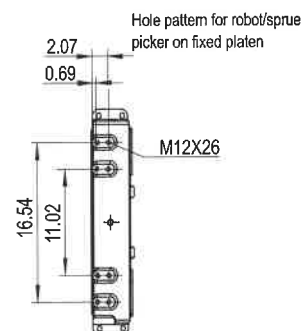
(1) Valid for Injection Unit 200

* enlarged safety guard, applicable with Ergorob (sprue picker)

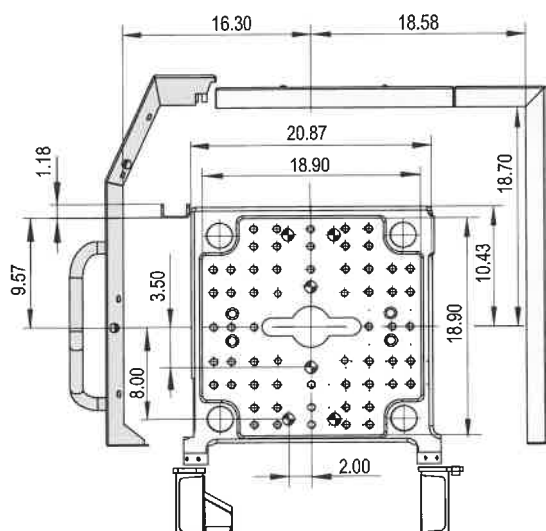
CLAMP ASSEMBLY



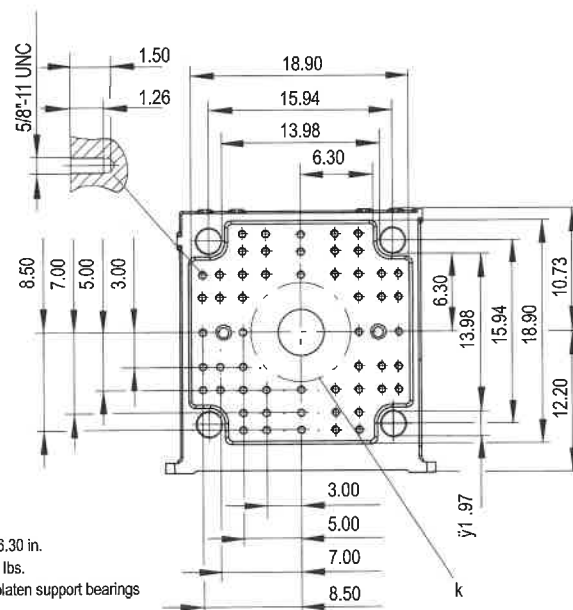
**ROBOT
MOUNTING
PATTERN**



MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
k = minimum permissible mold ϕ 6.30 in.

Max. permissible mold weight 507 lbs.

Max. 331 lbs. of it on the moving platen support bearings

Centering diameter 2 x 4.33 H8

Extra Model 90

Demag Plastics Group			
Model Description		Extra Model 90-310	Extra Model 90-430
International Size Description		800-310	800-430
Clamp Unit	Measure		
Clamp Force	U.S. tons kN	90	800
Locking Force	U.S. tons kN	90	800
Clamp Stroke – Max.	in. mm	17.72	450
Mold Thickness – Min.	in. mm	9.84	250
Mold Thickness – Max.	in. mm		
Open Daylight – Max.	in. mm	27.56	700
Platen Size			
Horizontal	in. mm	21.26	540
Vertical	in. mm	21.26	540
Distance Between Tie Bars			
Horizontal	in. mm	15.75	400
Vertical	in. mm	15.75	400
Ejector Stroke	in. mm	5.91	150
Ejector Force	U.S. tons kN	4.6	41

Injection Unit	Measure	310			430		
		A	B	C	A	B	C
Screw Diameter	in. mm	1.18 30	1.38 35	1.57 40	1.38 35	1.57 40	1.77 45
Injection Capacity (PS)	oz. g	3.35 95	5.36 152	6.98 198	5.36 152	7.34 208	9.28 263
Injection Capacity	cu. in. ccm	6.5 106	10.3 168	13.4 220	10.3 168	14.1 231	17.9 293
Recovery Rate	oz./sec. g/sec.	0.59 16.6	0.95 26.9	1.31 37.1	0.76 21.5	1.05 29.8	1.41 39.9
Injection Pressure (up to 752°F)	psi bar	39,958 2,755	29,356 2,024	22,481 1,550	38,290 2,640	29,370 2,025	23,206 1,600
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec. ccm/sec.	4.9 80	6.7 110	9.2 150	4.9 80	6.7 110	8.5 140
Injection Stroke	in. mm	5.91 150	6.89 175	6.89 175	6.89 175	7.24 184	7.24 184
Screw L/D Ratio		20/1	20/1	20/1	20/1	20/1	20/1
Maximum Screw Speed	rpm	474	474	474	380	380	380
Back Pressure Adjust	psi bar	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40
Barrel Heating Capacity	kW	8.3	9.4	11.1	9.4	11.1	11.3
Nozzle Sealing Force	U.S. Tons kN	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60

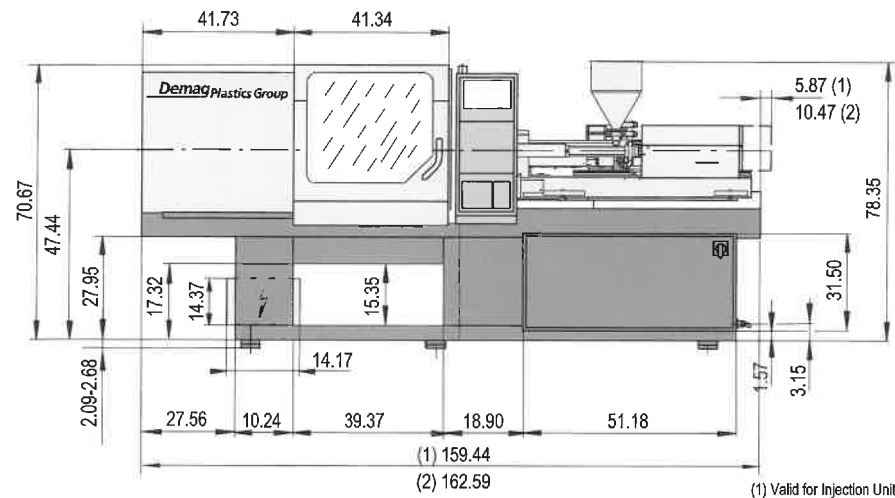
General Machine Specifications	Measure	310		430	
Pump Motor	Hp kW	20	15	20	15
Pump Capacity (@100 psi) (@7 bar)	gpm LPM	27.2	103	27.2	103
Oil Capacity	gal Liter	47.6	180	47.6	180
Dry Cycles (EUROMAP)	s in. s mm	2.78-11.22	2.78-285	2.78-11.22	2.78-285
Machine Weight (approx.)	lb. kg	8,267	3,750	8,378	3,800
Machine Dimensions					
Length	in. mm	165.31	4,199	173.07	4,396
Width	in. mm	50.08	1,272	50.08	1,272
Height	in. mm	78.35	1,990	78.35	1,990

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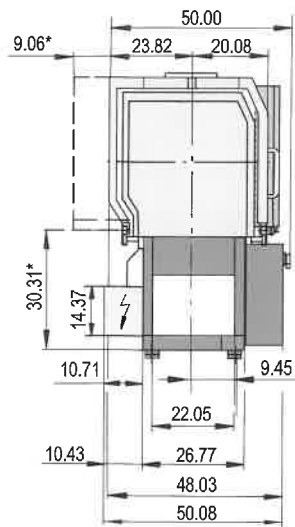
Extra Model 90

OPERATOR SIDE VIEW

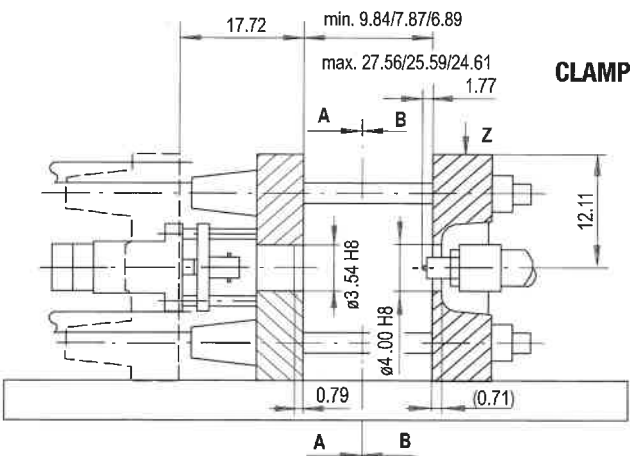


(1) Valid for Injection Unit 310
 (2) Valid for Injection Unit 430
 * enlarged safety guard, applicable with Ergorob (sprue picker)

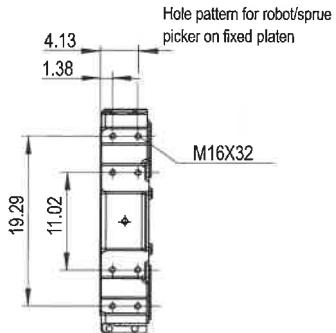
INJECTION
END VIEW



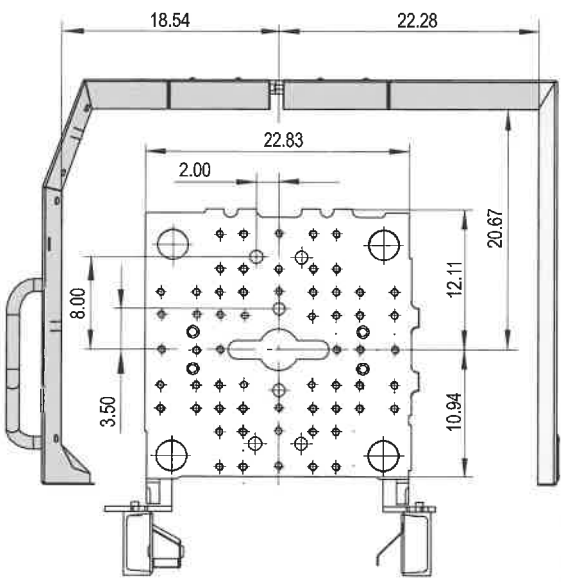
CLAMP ASSEMBLY



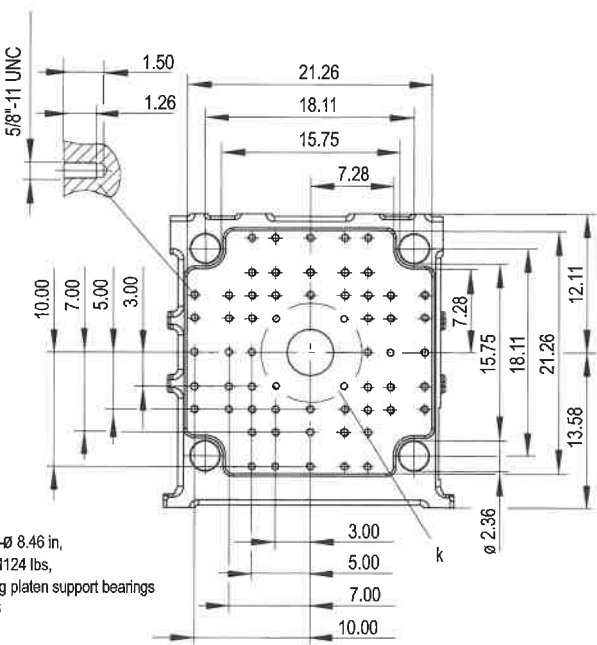
ROBOT
MOUNTING
PATTERN



MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
 k = minimum permissible mold- ϕ 8.46 in,
 Max. permissible mold weight 1124 lbs,
 Max. 772 lbs of it on the moving platen support bearings
 Centering diameter 2 x 4.92 H8

Extra Model 110

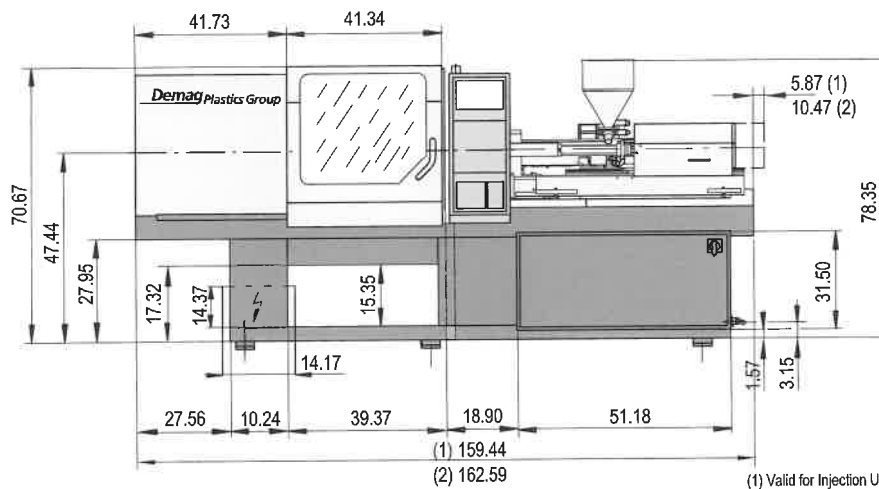
Demag Plastics Group								
Model Description			Extra Model 110-310			Extra Model 110-430		
International Size Description			1,000-310			1,000-430		
Clamp Unit		Measure						
Clamp Force	U.S. tons	kN	110			1,000		
Locking Force	U.S. tons	kN	110			1,000		
Clamp Stroke	in.	mm	19.69			500		
Mold Thickness – Min.	in.	mm	9.84			250		
Mold Thickness – Max.	in.	mm						
Open Daylight – Max.	in.	mm	29.53			750		
Platen Size								
Horizontal	in.	mm	21.26			540		
Vertical	in.	mm	21.26			540		
Distance Between Tie Bars								
Horizontal	in.	mm	15.75			400		
Vertical	in.	mm	15.75			400		
Ejector Stroke	in.	mm	5.91			150		
Ejector Force	U.S. tons	kN	4.6			41		
Injection Unit		Measure	310			430		
			A B C			A B C		
Screw Diameter	in.	mm	1.18 30	1.38 35	1.57 40	1.38 35	1.57 40	1.77 45
Injection Capacity (GPPS)	oz.	g	3.35 95	5.36 152	6.98 198	5.36 152	7.34 208	9.28 263
Injection Capacity	cu. in.	ccm	6.5 106	10.3 168	13.4 220	10.3 168	14.1 231	17.9 293
Recovery Rate (GPPS)	oz./sec.	g/sec.	0.66 18.6	1.06 30.0	1.46 41.5	0.85 24.1	1.17 33.3	1.57 44.6
Injection Pressure (up to 752°F)	psi	bar	39,958 2,755	29,356 2,024	22,481 1,550	38,290 2,640	29,370 2,025	23,206 1,600
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	ccm/sec.	7.3 120	9.8 160	12.8 210	7.3 120	9.8 160	12.2 200
Injection Stroke	in.	mm	5.91 150	6.89 175	6.89 175	6.89 175	7.24 184	7.24 184
Screw L/D Ratio			20/1	20/1	20/1	20/1	20/1	20/1
Maximum Screw Speed	rpm		530	530	530	425	425	425
Back Pressure Adjust	psi	bar	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40	0-580 0-40
Barrel Heating Capacity	kW		8.3	9.4	11.1	9.4	11.1	11.3
Nozzle Sealing Force	U.S. Tons	kN	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60	6.7 60
General Machine Specifications		Measure	310			430		
Pump Motor	Hp	kW	25 18.5			25 18.5		
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	27.5 104			27.5 104		
Oil Capacity	gal	Liter	47.6 180			47.6 180		
Dry Cycles (EUROMAP)	s in.	s mm	2.86-11.22 2.86-285			2.86-11.22 2.86-285		
Machine Weight (approx.)	lb.	kg	8,422 3,820			8,488 3,850		
Machine Dimensions								
Length	in.	mm	165.31 4,199			173.07 4,396		
Width	in.	mm	50.08 1,272			50.08 1,272		
Height†	in.	mm	78.35 1,990			78.35 1,990		

Performance specifications are based on theoretical data and mold, material and conditions. Since continuous improvement is Demag Plastics Group's policy, we reserve the right to change specifications, designs and performance data without prior notice or obligation.

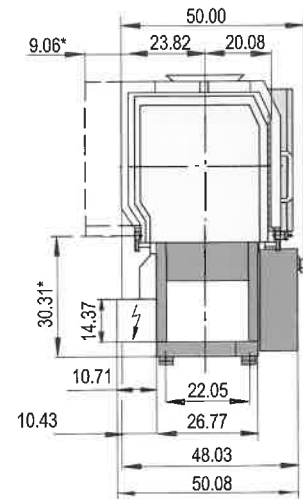
The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements.

Extra Model 110

OPERATOR SIDE VIEW



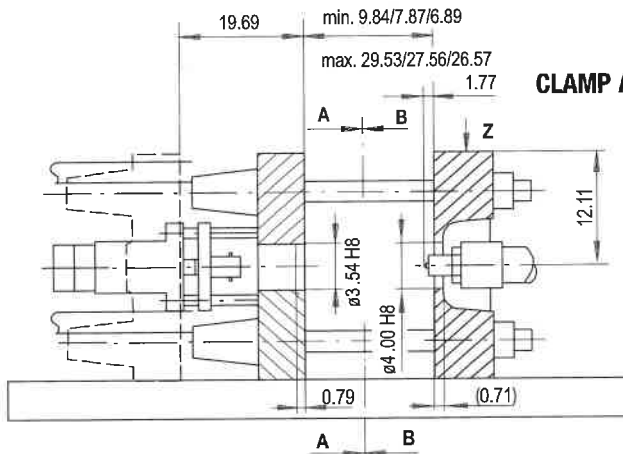
INJECTION END VIEW



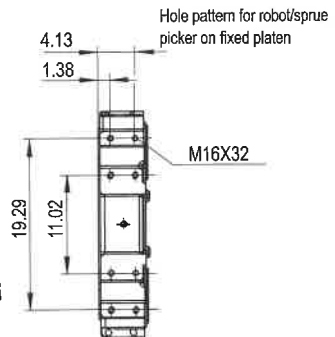
(1) Valid for Injection Unit 310
(2) Valid for Injection Unit 430

* enlarged safety guard, applicable with Ergorob (sprue picker)

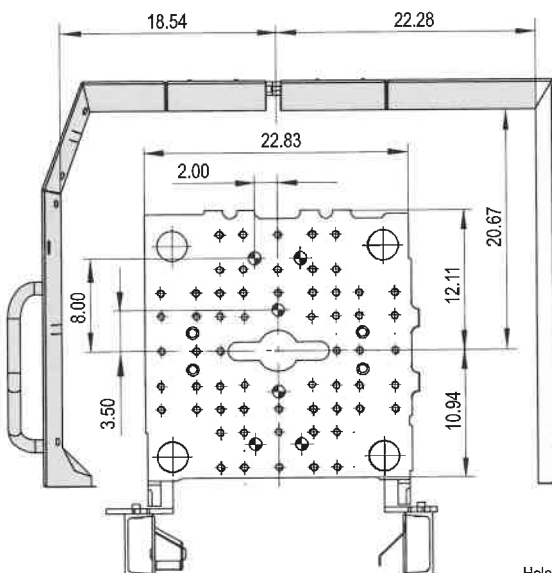
CLAMP ASSEMBLY



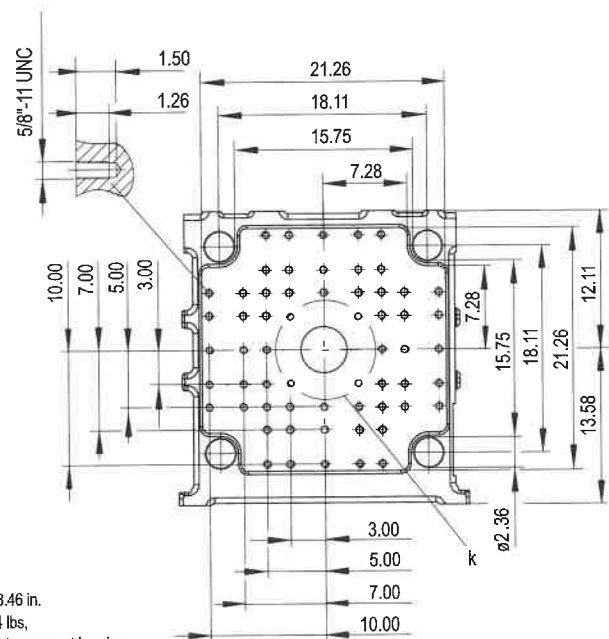
ROBOT MOUNTING PATTERN



MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
k = minimum permissible mold $\varnothing$ 8.46 in.
Max. permissible mold weight 1124 lbs.
Max. 772 lbs of it on the moving platen support bearings
Centering diameter 2 x 4.33 H8

Extra Model 135

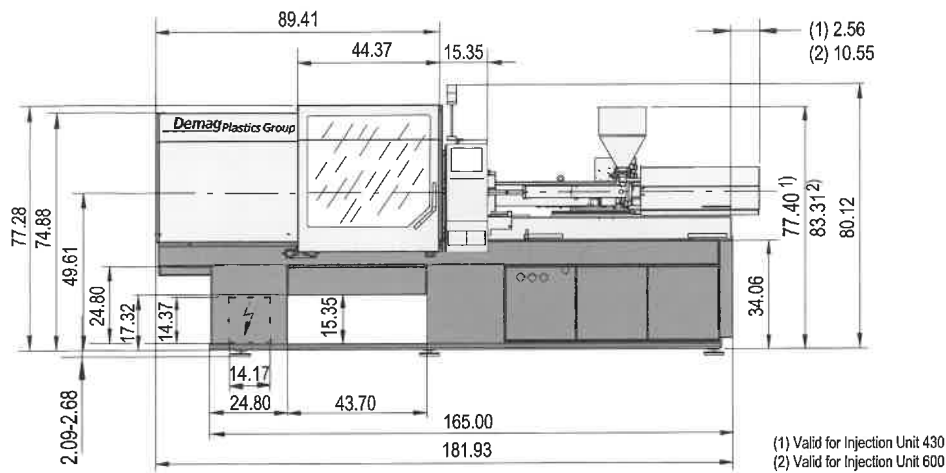
Demag Plastics Group														
Model Description			Extra Model 135-430			Extra Model 135-600								
International Size Description			1,200-430			1,200-600								
Clamp Unit		Measure												
Clamp Force	U.S. tons	kN				135	1,200							
Locking Force	U.S. tons	kN				135	1,200							
Clamp Stroke – Max.	in.	mm				23.62	600							
Mold Thickness – Min.	in.	mm				9.84	250							
Mold Thickness – Max.	in.	mm												
Open Daylight – Max.	in.	mm				33.46	850							
Platen Size														
Horizontal	in.	mm				26.38	670							
Vertical	in.	mm				26.38	670							
Distance Between Tie Bars														
Horizontal	in.	mm				18.50	470							
Vertical	in.	mm				18.50	470							
Ejector Stroke	in.	mm				7.09	180							
Ejector Force	U.S. tons	kN				4.6	41							
Injection Unit		Measure	430			600								
			A		B		C		A		B		C	
Screw Diameter	in.	mm	1.38	35	1.57	40	1.77	45	1.57	40	1.77	45	1.97	50
Injection Capacity (GPPS)	oz.	g	5.26	149	7.23	205	9.14	259	7.34	208	10.26	291	12.66	359
Injection Capacity	cu. in.	ccm	10.3	168	14.1	231	17.9	293	14.1	231	19.6	322	24.3	398
Recovery Rate (GPPS)	oz./sec.	g/sec.	0.85	24.0	1.16	33.0	1.55	44.0	0.60	17.0	0.81	23.0	1.09	31.0
Injection Pressure (up to 752°F)	psi	bar	38,290	2,640	29,370	2,025	23,206	1,600	35,099	2,420	27,702	1,910	22,481	1,550
Injection Rate (@10,000 psi) (@ 700 bar)	cu. in./sec.	ccm/sec.	7.3	120	9.8	160	12.5	205	7.9	130	10.4	170	12.8	210
Injection Stroke	in.	mm	6.89	175	7.24	184	7.24	184	7.24	184	7.99	203	7.99	203
Screw L/D Ratio			20/1		20/1		20/1		20/1		20/1		20/1	
Maximum Screw Speed	rpm		425		425		425		220		220		220	
Back Pressure Adjust	psi	bar	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40
Barrel Heating Capacity	kW		9.4		11.1		11.3		11.1		11.3		15.7	
Nozzle Sealing Force	U.S. Tons	kN	6.7	60	6.7	60	6.7	60	6.7	60	6.7	60	6.7	60
General Machine Specifications		Measure	430			600								
Pump Motor	Hp	kW	30 22			30 22								
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	38.6 146			38.6 146								
Oil Capacity	gal	Liter	58.1 220			58.1 220								
Dry Cycles (EUROMAP)	s in.	s mm	2.6-11.22 2.6-285			2.6-11.22 2.6-285								
Machine Weight (approx.)	lb.	kg	12,236 5,550			12,346 5,600								
Machine Dimensions														
Length	in.	mm	184.49 4,686			192.48 4,889								
Width	in.	mm	56.89 1,445			56.89 1,445								
Height	in.	mm	77.40 1,966			83.31 2,116								

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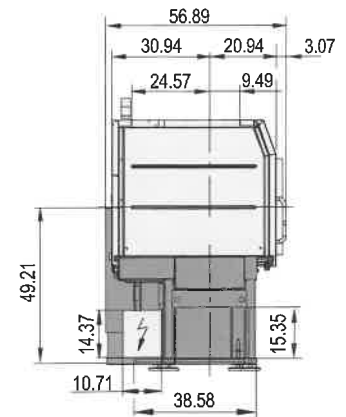
The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements.

Extra Model 135

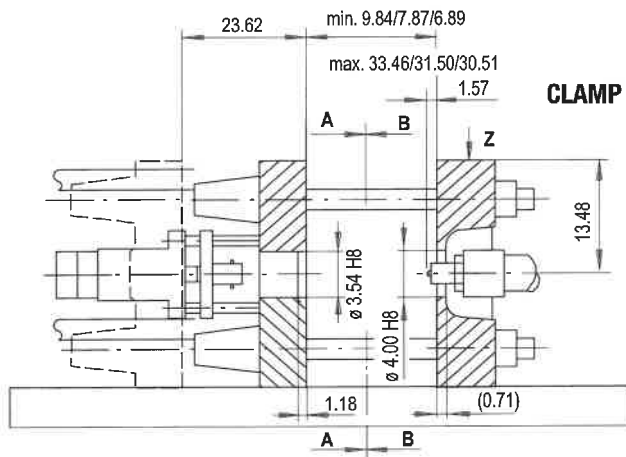
OPERATOR SIDE VIEW



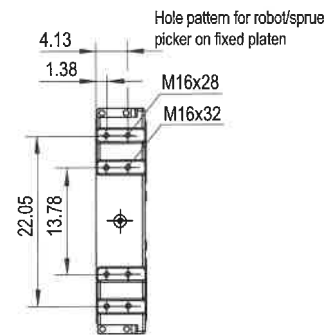
**INJECTION
END VIEW**



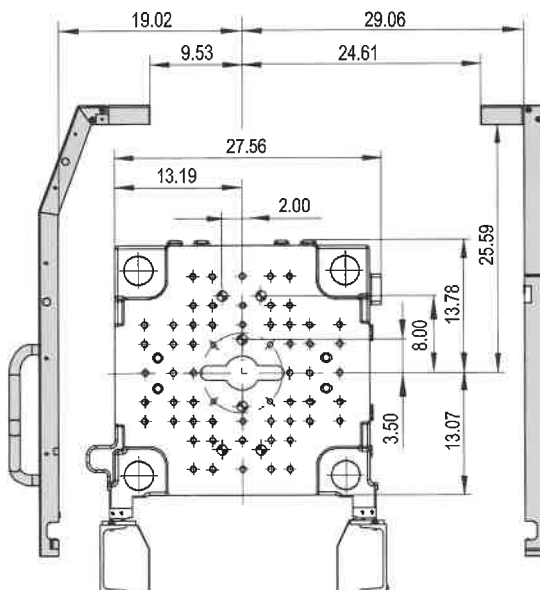
CLAMP ASSEMBLY



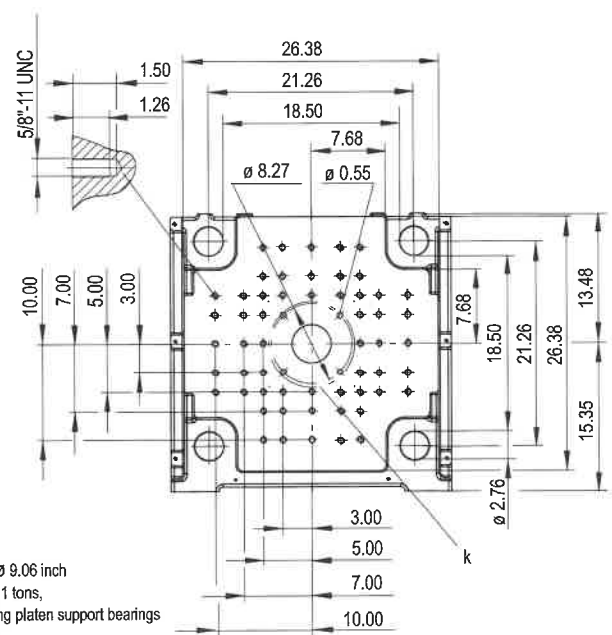
ROBOT MOUNTING PATTERN



MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
k = minimum permissible mold-Ø 9.06 inch
Max. permissible mold weight 1.1 tons,
Max. 0.75 tons of it on the moving platen support bearings
Centering diameter 2 x 4.92 H8

Extra Model 145

Demag Plastics Group														
Model Description			Extra Model 145-430			Extra Model 145-600								
International Size Description			1,300-430			1,300-600								
Clamp Unit		Measure												
Clamping Force	U.S. tons	kN				145	1,300							
Locking Force	U.S. tons	kN				160.7	1,430							
Clamp Stroke	in.	mm				17.72	450							
Mold Thickness – Min.	in.	mm				9.84	250							
Mold Thickness – Max.	in.	mm				18.9	480							
Open Daylight – Max.	in.	mm				36.61	930							
Platen Size														
Horizontal	in.	mm				27.76	705							
Vertical	in.	mm				27.56	700							
Distance Between Tie Bars														
Horizontal	in.	mm				18.70	475							
Vertical	in.	mm				18.70	475							
Ejector Stroke	in.	mm				5.51	140							
Ejector Force	U.S. tons	kN				6.6	59							
Injection Unit		Measure	430			600								
			A		B	C		A		B	C			
Screw Diameter	in.	mm	1.38	35	1.57	40	1.77	45	1.57	40	1.77	45	1.97	50
Injection Capacity (GPPS)	oz.	g	5.26	149	7.23	205	9.14	259	7.34	208	10.26	291	12.66	359
Injection Capacity	cu. in.	ccm	10.3	168	14.1	231	17.9	293	14.1	231	19.7	323	24.3	399
Recovery Rate (GPPS)	oz./sec.	g/sec.	0.85	24.0	1.16	33.0	1.55	44.0	0.60	17.0	0.81	23.0	1.09	31.0
Injection Pressure (up to 752°F)	psi	bar	38,290	2,640	29,298	2,020	23,206	1,600	35,099	2,420	27,702	1,910	22,481	1,550
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	ccm/sec.	7.2	118	9.4	154	11.9	195	7.9	129	9.9	162	12.3	201
Injection Stroke	in.	mm	6.89	175	7.24	184	7.24	184	7.24	184	7.99	203	7.99	203
Screw L/D Ratio			20/1		20/1		20/1		20/1		20/1		20/1	
Maximum Screw Speed	rpm		425		425		425		220		220		220	
Back Pressure Adjust	psi	bar	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40
Barrel Heating Capacity	kW		9.4		11.1		11.3		11.1		11.3		15.7	
Nozzle Sealing Force	U.S. Tons	kN	6.7	60	6.7	60	6.7	60	6.7	60	6.7	60	6.7	60
General Machine Specifications		Measure	430			600								
Pump Motor	Hp	kW	25 18.5			25 18.5								
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	27.5 104			27.5 104								
Oil Capacity	gal	Liter	58.1 220			58.1 220								
Dry Cycles (EUROMAP)	s in.	s mm	1.85-13.07 1.85-332			1.85-13.07 1.85-332								
Machine Weight (approx.)	lb.	kg	11,685 5,300			11,795 5,350								
Machine Dimensions														
Length	in.	mm	193.38 4,912			202.08 5,132								
Width	in.	mm	57.17 1,452			57.17 1,452								
Height	in.	mm	77.54 1,969			77.54 1,969								

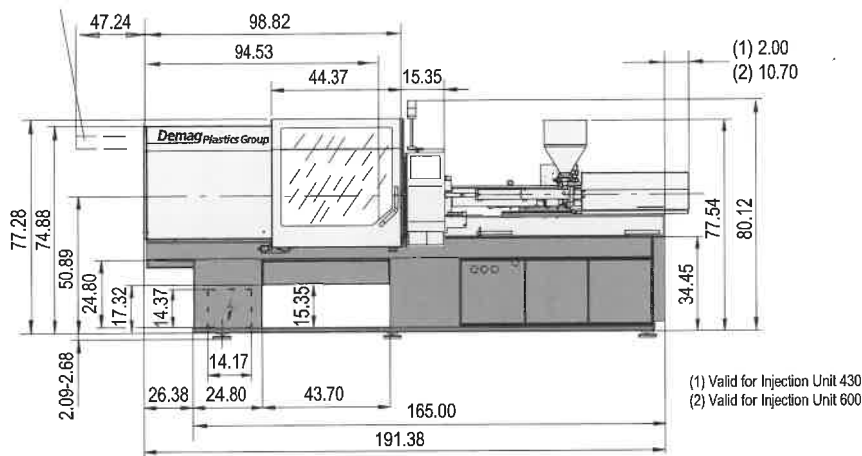
Performance specifications are based on theoretical data and mold, material and conditions. Since continuous improvement is Demag Plastics Group's policy, we reserve the right to change specifications, designs and performance data without prior notice or obligation.

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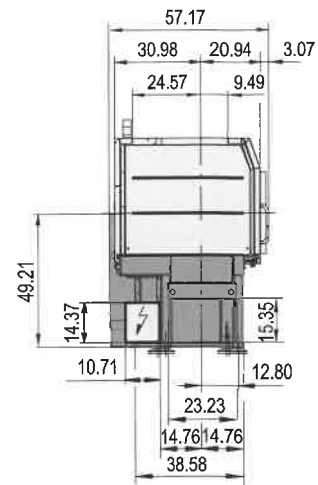
Extra Model 145

OPERATOR SIDE VIEW

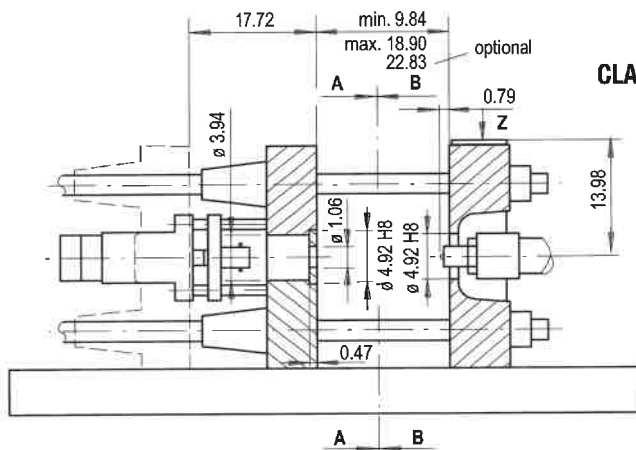
Tie Bar Removal



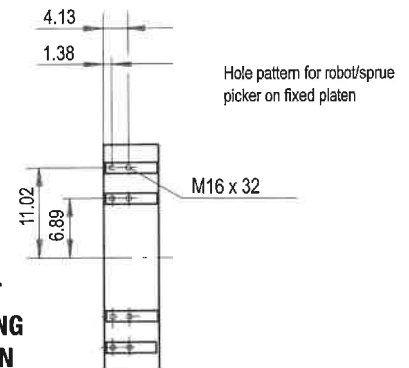
INJECTION END VIEW



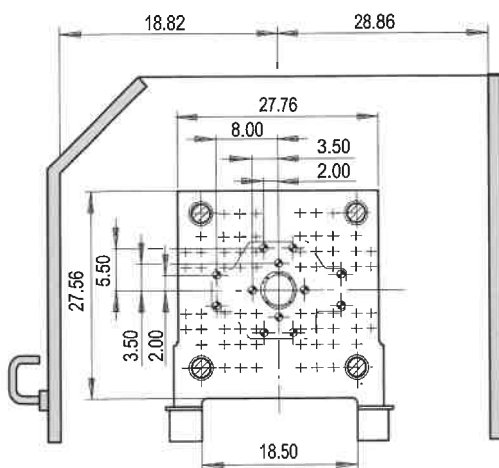
CLAMP ASSEMBLY



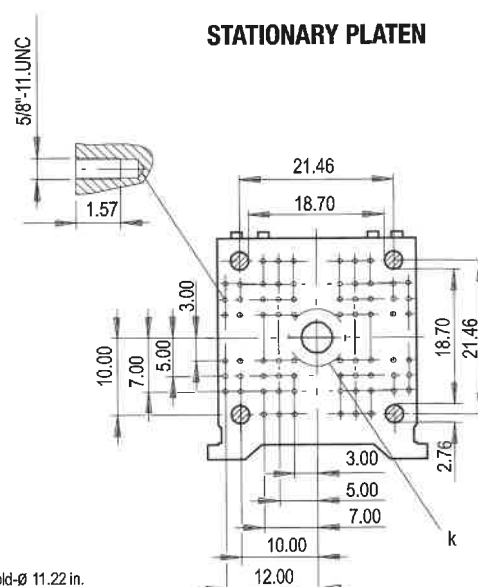
ROBOT MOUNTING PATTERN



MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
 k = minimum permissible mold- ϕ 11.22 in.
 Max. permissible mold weight 1.21 tons,
 Max. 0.80 tons of it on the moving platen support bearings
 ϕ bore diameter ϕ 1.06 through holes

Extra Model 180

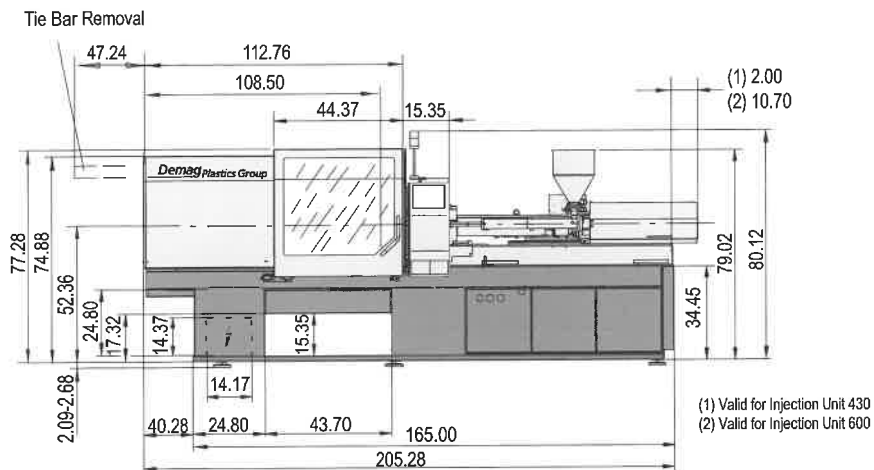
Demag Plastics Group																
Model Description			Extra Model 180-430					Extra Model 180-600								
International Size Description			1,600-430					1,600-600								
Clamp Unit			Measure													
Clamp Force	U.S. tons	kN	180					1,600								
Locking Force	U.S. tons	kN	197.8					1,760								
Clamp Stroke	in.	mm	19.69					500								
Mold Thickness – Min.	in.	mm	10.83					275								
Mold Thickness – Max.	in.	mm	23.03					585								
Open Daylight – Max.	in.	mm	42.72					1,085								
Platen Size																
Horizontal	in.	mm	30.31					770								
Vertical	in.	mm	30.31					770								
Distance Between Tie Bars																
Horizontal	in.	mm	20.47					520								
Vertical	in.	mm	20.47					520								
Ejector Stroke	in.	mm	6.30					160								
Ejector Force	U.S. tons	kN	6.6					59								
Injection Unit			Measure		430					600						
					A		B		C		A		B		C	
Screw Diameter	in.	mm	1.38	35	1.57	40	1.77	45	1.57	40	1.77	45	1.97	50		
Injection Capacity (GPPS)	oz.	g	5.26	149	7.23	205	9.14	259	7.34	208	10.26	291	12.66	359		
Injection Capacity	cu. in.	ccm	10.3	168	14.1	231	17.9	293	14.1	231	19.7	323	24.3	399		
Recovery Rate (GPPS)	oz./s	g/s	0.99	28.0	1.38	39.0	1.83	52.0	0.74	21.0	1.02	29.0	1.41	40.0		
Injection Pressure (up to 752°F)	psi	bar	38,290	2,640	29,298	2,020	23,206	1,600	35,099	2,420	27,702	1,910	22,481	1,550		
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	ccm/sec.	8.7	142	11.3	185	14.3	234	9.5	155	12.0	196	14.8	242		
Injection Stroke	in.	mm	6.89	175	7.24	184	7.24	184	7.24	184	7.99	203	7.99	203		
Screw L/D Ratio			20/1		20/1		20/1		20/1		20/1		20/1			
Maximum Screw Speed	rpm		500		500		500		280		280		280			
Back Pressure Adjust	psi	bar	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40	0-580	0-40		
Barrel Heating Capacity	kW		9.4		11.1		11.3		11.1		11.3		15.7			
Nozzle Sealing Force	U.S. Tons	kN	6.7	60	6.7	60	6.7	60	6.7	60	6.7	60	6.7	60		
General Machine Specifications			Measure		430					600						
Pump Motor	Hp	kW	30					22		30					22	
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	38.6					146		38.6					146	
Oil Capacity	gal	Liter	58.1					220		58.1					220	
Dry Cycles (EUROMAP)	s in.	s mm	2.05-13.78					2.05-350		2.05-13.78					2.05-350	
Machine Weight (approx.)	lb.	kg	13,999					6,350		14,110					6,400	
Machine Dimensions																
Length	in.	mm	207.28					5,265		215.98					5,486	
Width	in.	mm	58.50					1,486		58.50					1,486	
Height	in.	mm	79.02					2,007		79.02					2,007	

Performance specifications are based on theoretical data and mold, material and conditions. Since continuous improvement is Demag Plastics Group's policy, we reserve the right to change specifications, designs and performance data without prior notice or obligation.

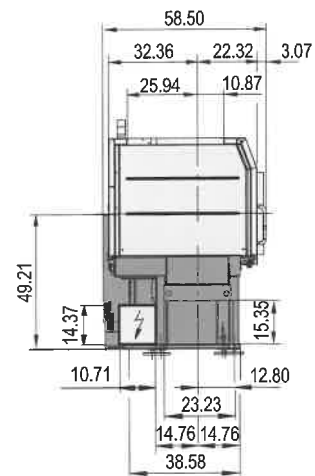
The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements.

Extra Model 180

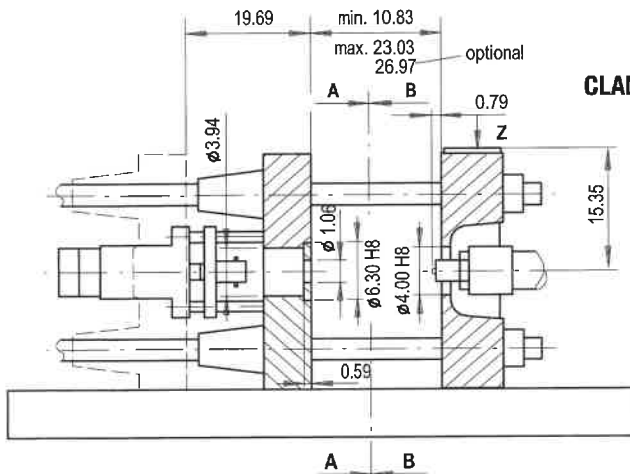
OPERATOR SIDE VIEW



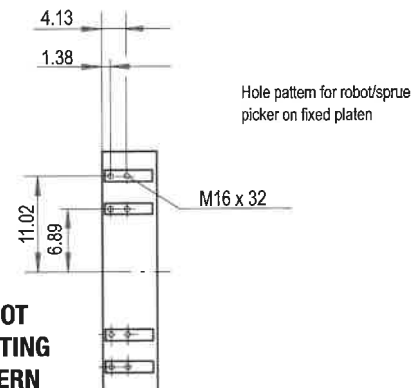
INJECTION END VIEW



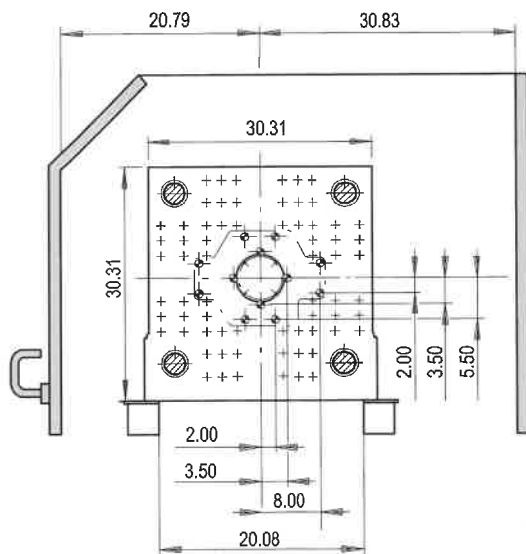
CLAMP ASSEMBLY



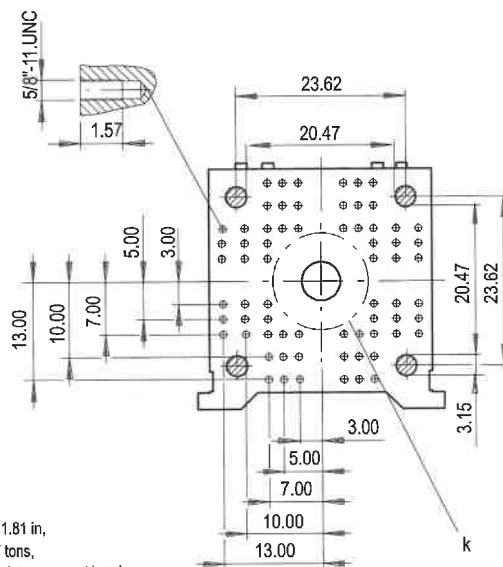
ROBOT MOUNTING PATTERN



MOVABLE PLATEN



STATIONARY PLATEN



Extra Model 220

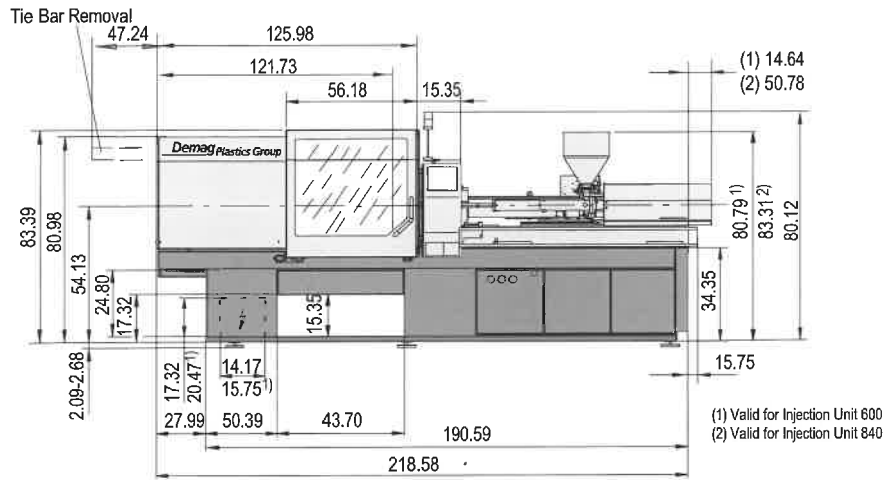
Demag Plastics Group				
Model Description			Extra Model 220-600	Extra Model 220-840
International Size Description			2,000-600	2,000-840
Clamp Unit				
Measure				
Clamp Force	U.S. tons	kN	220	2,000
Locking Force	U.S. tons	kN	247.3	2,200
Clamp Stroke	in.	mm	22.64	575
Mold Thickness – Min.	in.	mm	13.39	340
Mold Thickness – Max.	in.	mm	27.17	690
Open Daylight – Max.	in.	mm	49.80	1,265
Platen Size				
Horizontal	in.	mm	33.86	860
Vertical	in.	mm	33.86	860
Distance Between Tie Bars				
Horizontal	in.	mm	22.83	580
Vertical	in.	mm	22.83	580
Ejector Stroke	in.	mm	7.09	180
Ejector Force	U.S. tons	kN	7.8	69
Injection Unit			600	
Measure			840	
			A	B
			C	A
			B	C
Screw Diameter	in.	mm	1.57 40	1.77 45
Injection Capacity (GPPS)	oz.	g	7.34 208	10.26 291
Injection Capacity	cu. in.	ccm	14.1 231	19.7 323
Recovery Rate (GPPS)	oz./s	g/s	0.95 27.0	1.27 36.0
Injection Pressure (up to 752°F)	psi	bar	35,099 2,420	27,702 1,910
Injection Rate (@10,000 psi) (@700 bar)	cu. in./sec.	ccm/sec.	11.8 193	14.9 244
Injection Stroke	in.	mm	7.24 184	7.99 203
Screw L/D Ratio			20/1	20/1
Maximum Screw Speed	rpm		350	350
Back Pressure Adjust	psi	bar	0-580 0-40	0-580 0-40
Barrel Heating Capacity	kW		11.1	11.3
Nozzle Sealing Force	U.S. Tons	kN	6.7 60	6.7 60
General Machine Specifications			600	
Measure			840	
Pump Motor	Hp	kW	40 30	40 30
Pump Capacity (@100 psi) (@7 bar)	gpm	LPM	38.6 146	38.6 146
Oil Capacity	gal	Liter	58.1 220	58.1 220
Dry Cycles (EUROMAP)	s in.	s mm	2.2-15.43 2.2-392	2.2-15.43 2.2-392
Machine Weight (approx.)	lb.	kg	17,196 7,800	18,078 8,200
Machine Dimensions				
Length	in.	mm	233.22 5,924	269.37 6,842
Width	in.	mm	65.20 1,656	65.20 1,656
Height	in.	mm	80.79 2,052	83.31 2,116

Performance specifications are based on theoretical data and mold, material and conditions. Since continuous improvement is Demag Plastics Group's policy, we reserve the right to change specifications, designs and performance data without prior notice or obligation.

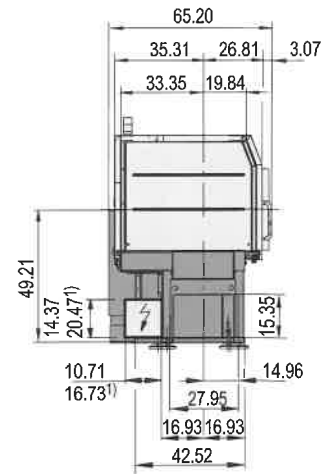
The specifications listed are standard. However, Demag Plastics Group will provide engineered options and solutions to meet virtually any performance requirements.

Extra Model 220

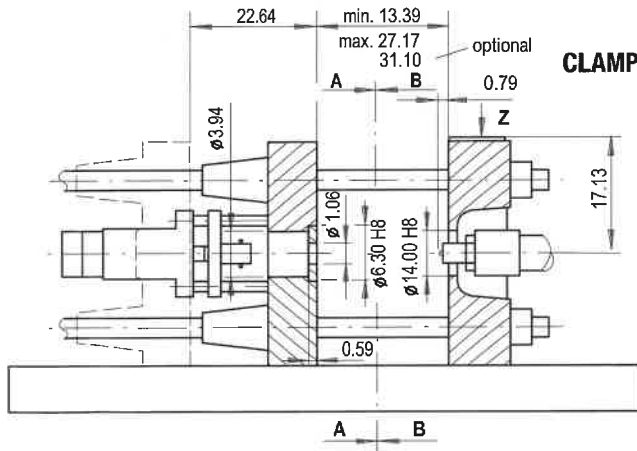
OPERATOR SIDE VIEW



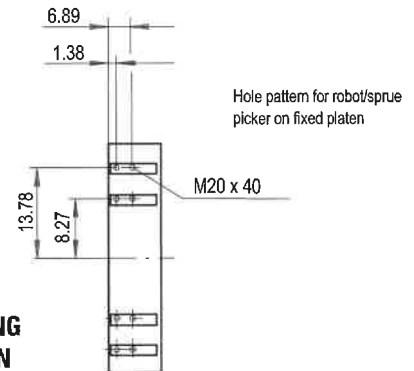
**INJECTION
END VIEW**



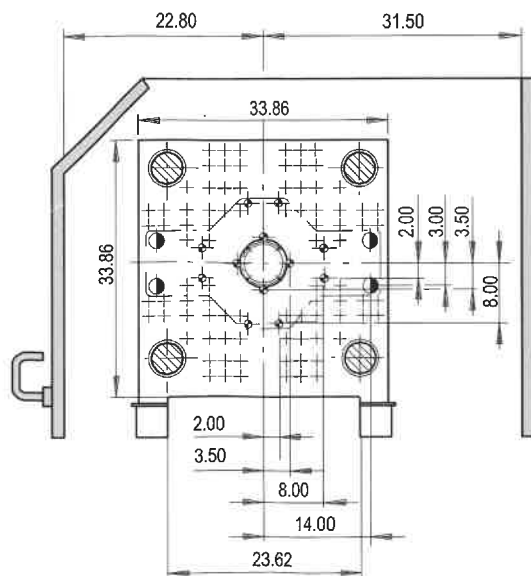
CLAMP ASSEMBLY



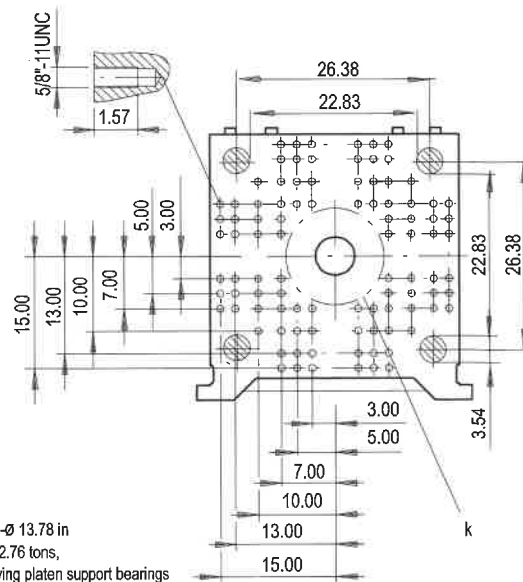
**ROBOT
MOUNTING
PATTERN**



MOVABLE PLATEN



STATIONARY PLATEN



Hole pattern according SPI
 k = minimum permissible mold-Ø 13.78 in
 Max. permissible mold weight 2.76 tons,
 Max. 1.87 tons of it on the moving platen support bearings
 ⊕ bore diameter Ø 1.06 through holes

INDUSTRY-LEADING AFTERMARKET SUPPORT

A SYSTEMATIC APPROACH TO P•E•A•K PERFORMANCE IN YOUR OPERATIONS!



PRODUCTIVITY

Your equipment represents a major investment. Getting the maximum return on that investment means keeping it in top operating shape all the time. To minimize downtime. Reduce and eliminate waste. And making sure you get the optimum return for every hour – and every dollar – of labor you spend.

EFFICIENCY

Chances are, the machines you already have are capable of producing more and better products than they ever have before. From recommissioning idle machinery to modernization for expanded capabilities and energy efficiency, Demag Plastics Group can help you get more from your current machines.

ASSISTANCE

Our staff of experts are ready to tackle your toughest problems, from cycle time improvement to scrap reduction, energy savings and more. Our Applications Group can even set up trial runs on molds, let you test-drive different injection molding machines, and help troubleshoot or refine your processes.

KNOWLEDGE

You're only as good as your people. We know that. That's why our Customer Technical Support Systems include extensive professional hands-on training services, either at one of our seven training centers or on-site at your location.

Our commitment to 100 percent customer satisfaction is part of the Demag Plastics Group experience. Contact us at 866.491.1045 or visit www.molderactionnetwork.com.

REPLACEMENT PARTS

Demag Plastics Group maintains an extensive, computerized inventory of replacement parts to assure customers of quick delivery. e-mail: partsover@dpg.com

TECHNICAL SERVICE

The Technical Service Department is standing by with a wide range of services – installation and start-up, troubleshooting, field service and predefined and customized preventive maintenance contracts. e-mail: technicalservice@dpg.com

TRAINING

We offer classes at four different customer training centers located in Strongsville (OH), Greenville (SC), Roselle (IL), and Placentia (CA). Training, tailored to meet your needs, can also be arranged at your facility. e-mail: technicaltraining@dpg.com

APPLICATIONS GROUP

The Applications Group offers customers a wide range of services, including designing turnkey solutions, including auxiliaries, robotics, automation and project management; specifying Demag machine configurations for specific customer applications; analyzing and providing cycle time guarantees; mold trials and machine demonstrations at the Strongsville (OH), Placentia (CA), Roselle (IL), El Paso (TX), and Worcester (MA) technical centers; process documentation and technical sales support. email: applicationsgroup@dpg.com

MODERNIZATIONS

Updating and modernizing older injection molding machines makes them more efficient, flexible and productive – with excellent payback and return on investment. e-mail: modernizations@dpg.com

ONLINE STORE

Order parts from our online store where convenience and ease are our main priority. We can accept payment via credit cards or purchase orders. Visit our online store at www.molderactionnetwork.com.

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Since continuous improvement is Demag Plastics Group's policy, we reserve the right to change information without prior notice or obligation.