

Q-ACCUPACK

Toggle Injection Molding Machine

110 T
150 T
180 T
230 T
280 T
350 T
450 T
550 T



Exceptional packaging performance

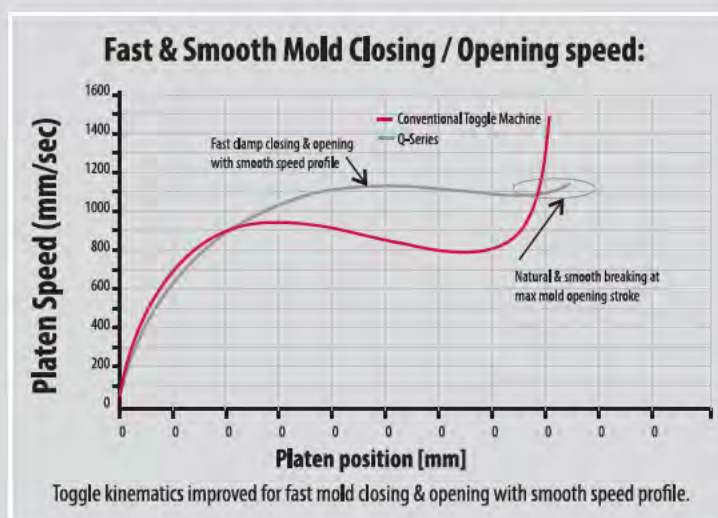
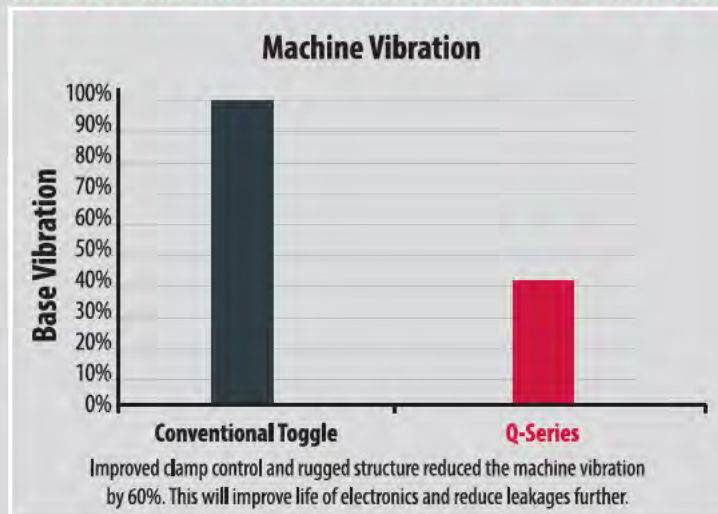


LOW MACHINE CENTERLINE FOR BETTER STABILITY

MACHINE BASE – RUGGED

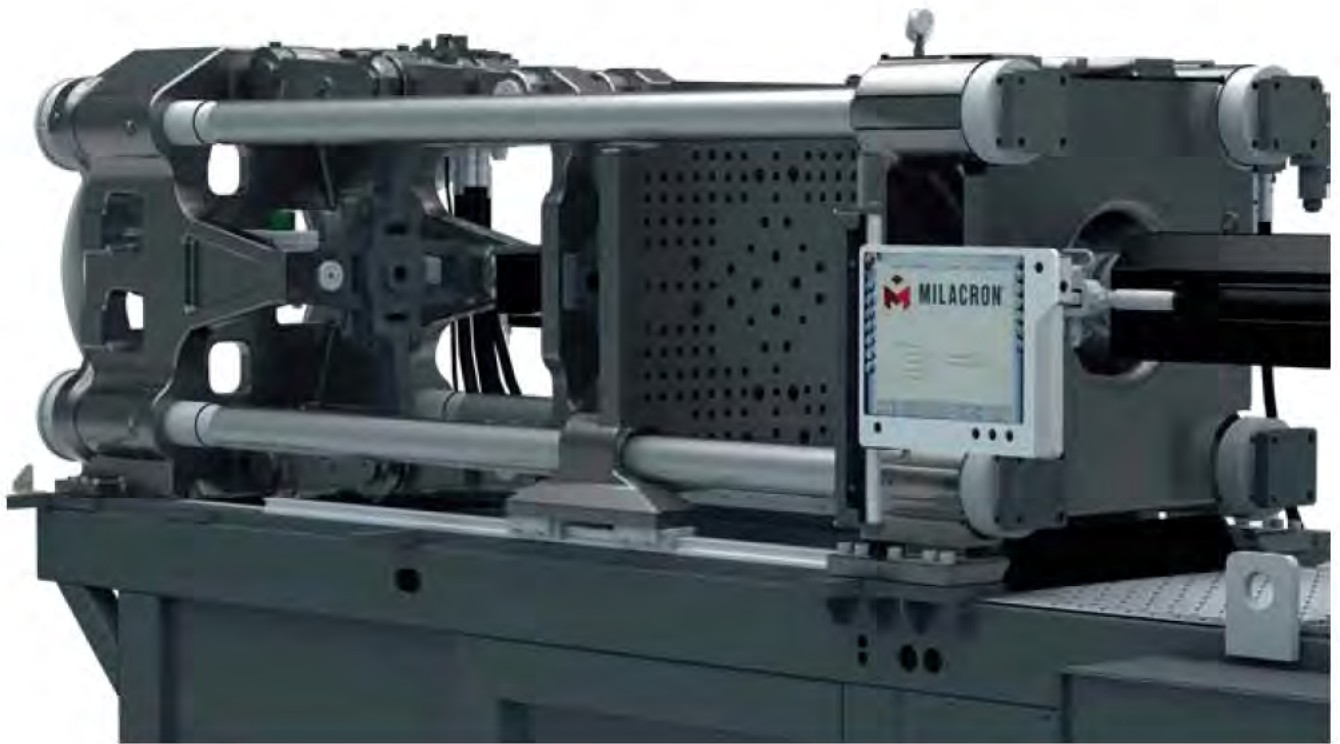
The Reduced Machine Base Height provides Better Toggle Kinematics during High Speed Molding. The 3 Way Part Drop provides Better Access to the Molded Parts.

Reduced Machine Vibration & Reduced Wear & Tear



UPGRADED HYDRAULICS

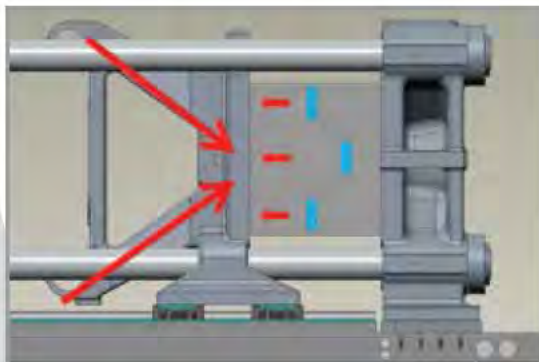
- ◆ Pump Slide Out
- ◆ Ergonomics Hydraulic Layout for easy Approach & Reduced Footprint Pic: Fixed Piping
- ◆ Valve place near Actuators for Rapid Response
- ◆ Pre-Heating Circuit for Hydraulic oil
- ◆ Low Oil level Audible alarm & Motor Shut Down
- ◆ Oil tank with Butterfly valve Pic: Butterfly Valve for Ease of Maintenance
- ◆ Continuous Oil Filtration with 10 Micron Filter
- ◆ Audible Alarm for Filter Clogging
- ◆ Hydraulics Valve On/Off Indication



CLAMP - FAST & PRECISE

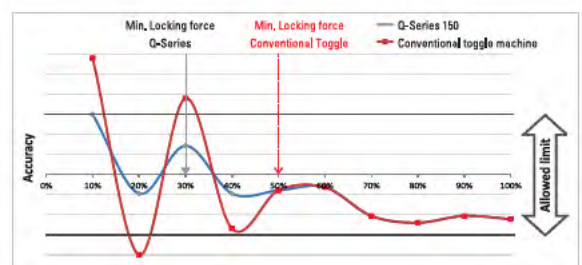
The all new clamp system on the Q-series has been mounted on the LM guideways which provide precise movement with no frictional losses. The clamp system has higher mold carrying capacity, enhanced parallelism and squareness.

CLAMP UNIT ON LM GUIDEWAYS



The moving platen design is improved for centrally applied force on the mold thereby ensuring uniform load distribution across the mold face and reduces platen deformation at the centre.

MINIMUM CLAMPING FORCE IMPROVED
FROM 50% TO 30% OF MAX CLAMPING FORCE



Minimum clamping force improved to 30% of the maximum clamping force, so you can try more variety of applications with the same precision levels.



TIE BAR DISTANCE

The enhanced tie bar distance helps in accommodating larger variety of molds. The clamp force is centrally applied and uniformly distributed on the mold face thereby ensuring better mold life.

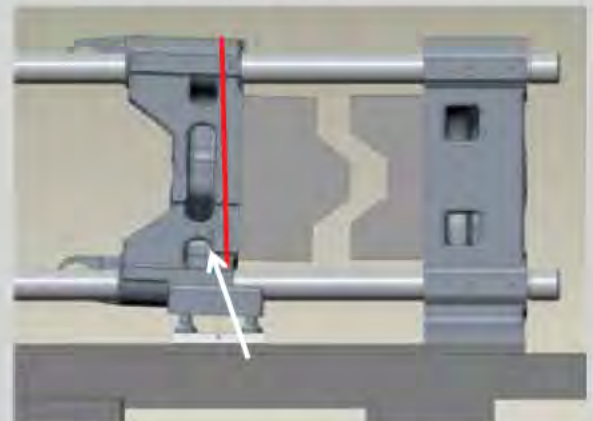
Q-Series Machines also provide Smooth Mold Opening & closing cycles with Heavy Molds and at High Speed. The platen support has been made stronger with 20% less deflection in the part drop area.

REDUCED DRY CYCLE TIME - ENHANCED PRODUCTIVITY

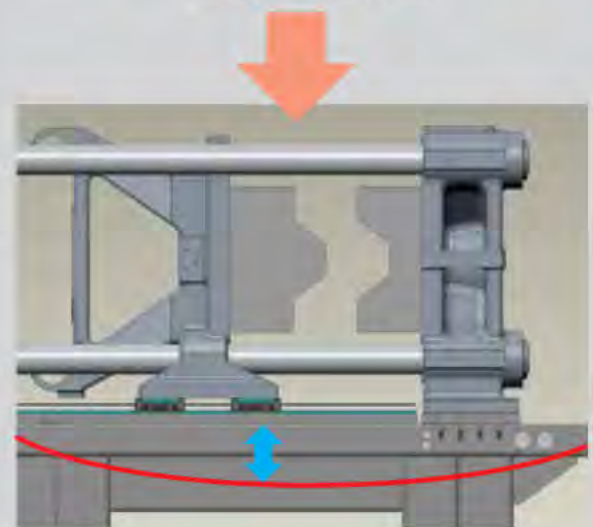


With an improved mold closing, lockover and mold opening processes, the dry cycle time has been reduced by upto 30%.

MOVING PLATEN ON LM GUIDES



Bending of Mold moving platen



Base deflection improved by 20%

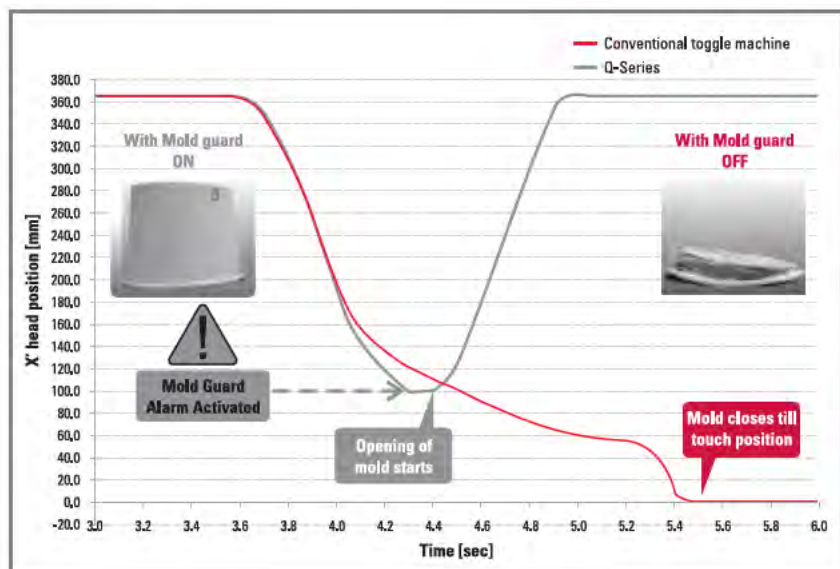
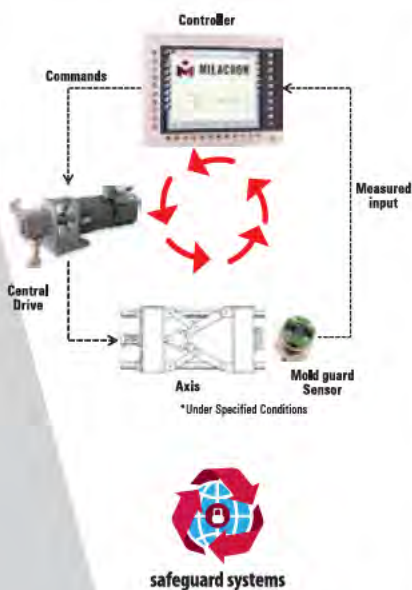
CONTACTLESS TRANSDUCER

The all new contactless transducer at Crosshead increases reliability against dust & grease thereby ensuring better superior linearity, IP protection & enhanced life.



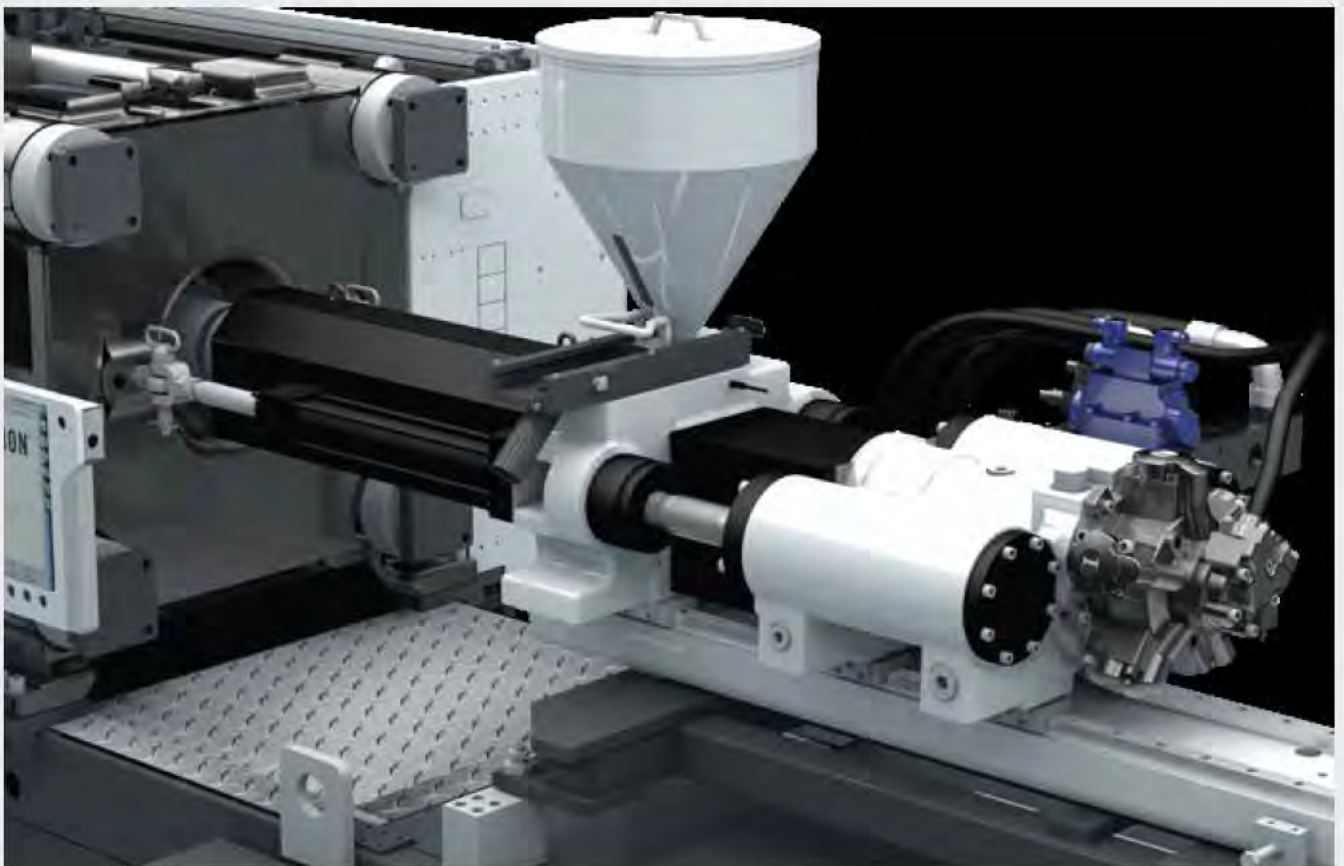
MOLD SAFETY SYSTEM

The Mold is one of the most critical parts of the injection molding process. The all new Q-Series machines takes care of your mold with Mold Safety as a standard feature. It's a closed loop control process which senses presence of left over article from the last process cycle or any foreign article in between the core & the cavity. It's a continuous monitoring system. The control records & analyses the data after every process cycle.



INJECTION

- ◆ 6 Stage Configurable Injection Velocity Profile
 - ◆ Open Loop Pressure control
 - ◆ 5 Fill Pressure Steps
 - ◆ 10 Configurable Pack/Hold pressure steps
 - ◆ Transfer T_i = Time; P_o = Position; P_r = Pressure
 - ◆ Linear position transducer
 - ◆ Digital readout injection position
 - ◆ Cold start protection
 - ◆ Nozzle contact force by pressure switch
 - ◆ Injection decompression before/after/both
 - ◆ Sliding Hopper
 - ◆ Insulated Ceramic Heaters
 - ◆ Digital Setting of Extruder RPM & Digital Read Out of Actual RPM
 - ◆ Proportional Extruder RPM control
 - ◆ 5 Steps Extruder RPM - Refilling Cycle
 - ◆ Proportional Back Pressure control
 - ◆ Auto Heat Start Programme
 - ◆ Heater Failure Detection & Monitoring on screen
-

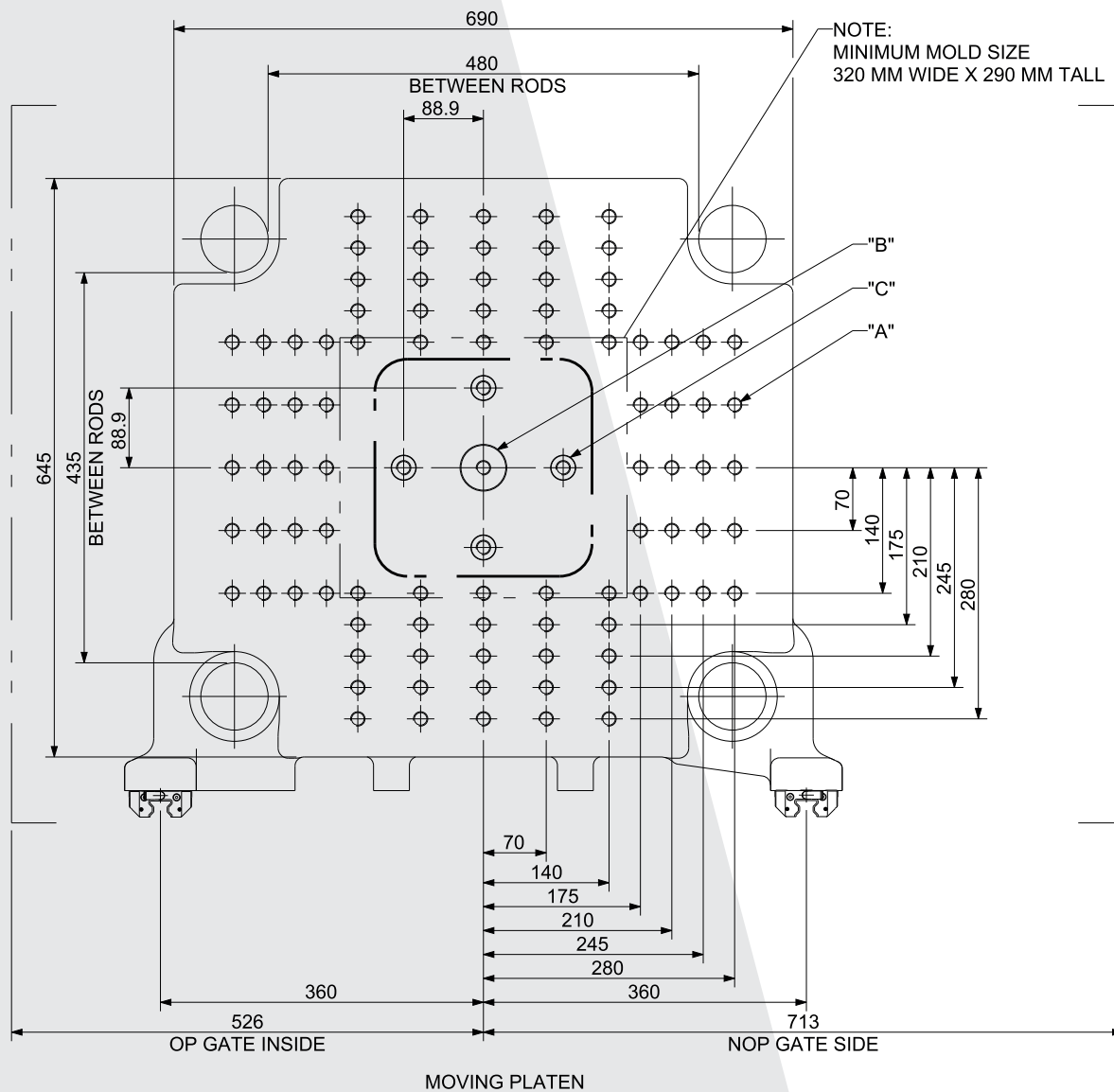




CONTROLS

- ◆ 15" Color Touch Screen Display
- ◆ 32 function keys with LEDs, arranged around the Touch Screen
- ◆ Actual Injection Speed & Pressure Graph Display
- ◆ 39 Parameter Monitoring for last 3000 cycles
- ◆ 500 Mold Data Storage
- ◆ High / Low Limit Display for Each Adjustable Parameter
- ◆ I/O diagnosis - Analog & Digital
- ◆ Timer Precision in 0.01 Second
- ◆ Page specific HTML Help
- ◆ Overview Menu for Easy access of all axis parameters
- ◆ Choice of Multiple languages
- ◆ Unit Selection (Metric or English)
- ◆ Data Protection with four access levels up to 100 machine operator
- ◆ Graphical Presentation of Last 48 Hours Production
- ◆ Daily Production Data of Last 1 Year
- ◆ Graphical Representation of Cycle Analysis
- ◆ Energy Consumption analysis for each axis.
- ◆ Automatic Reporting of Process Data, Alarms, Change log (USB or Network Location)
- ◆ Change Log Menu: logs last 3000 Set Points Changes with Time/Date & User
- ◆ 3000 Alarm History with Date & Time Log
- ◆ Process Mode: Functions with its Co-functions on a Single Key Press
- ◆ Note Pad
- ◆ Freely Programmable Smart Outputs & Inputs
- ◆ No Page more than two click away
- ◆ Auto shut down
- ◆ Visual & Audible Alarm
- ◆ Set point and actual values shown as absolute values
- ◆ Plausibility check on values entered
- ◆ Data Saving in USB- Mold Data, Change log, Trend Data, Log book, Alarm History. Screen Shot
- ◆ Shift wise Production Counter

Q-ACCUPACK 110



ALL DIMENSIONS ARE IN MM

A M16X32 (90) PLACES ON BOTH PLATEN

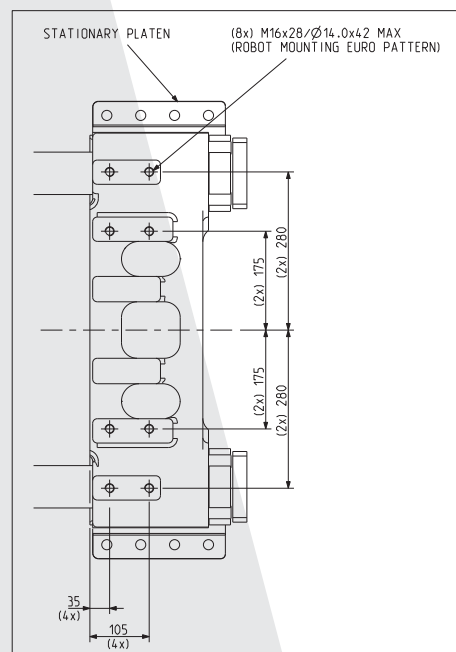
B MOVING PLATEN: $\varnothing 50(+0.025/-0.0)$ THRU BORE,
K/O BAR CENTRE HOLE M16 THRU.

STATIONARY PLATEN:

$\varnothing 100(+0.035/-0.0)$ WITH LOCATING RING,

$\varnothing 125(+0.04/-0.0) \times 10(+0.15/-0.0)$ DEEP, WITHOUT LOCATING RING.

C $\varnothing 27$ THRU, (4) HOLES IN MOVING PLATEN,
K/O BAR M16 THRU (4) HOLES.



MODEL

Q- ACCUPACK 110

INTERNATIONAL SIZE		1100-450		1100-630
POWER PACK		25 HP		25 HP

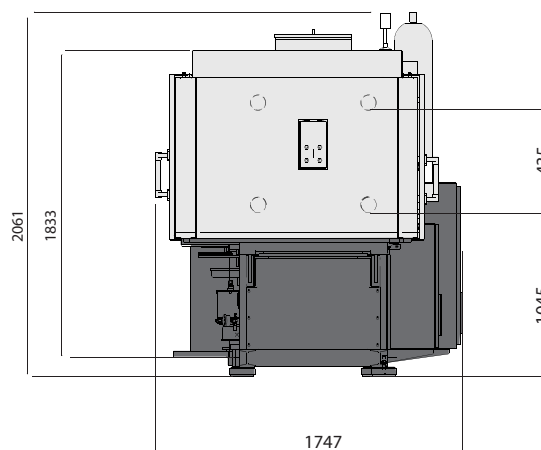
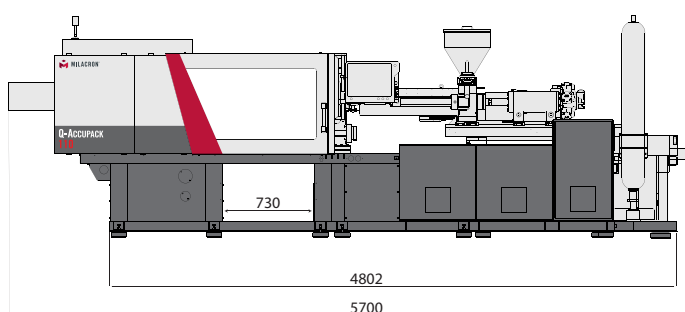
INJECTION UNIT	UNIT	450			630		
		A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	165	215	272	239	303	374
THEORETICAL DISPLACEMENT	cc	173	226	286	251	318	393
INJECTION PRESSURE MAX.	bar	2443	1984	1568	2492	1969	1595
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	320	418	530	416	527	651
INJECTION SCREW STROKE	mm	180	180	180	200	200	200
SCREW DIAMETER	mm	35	40	45	40	45	50
SCREW L/D RATIO		25.7	22.5	20	25	22.2	20
SCREW SPEED	rpm	245	245	245	194	194	194
SCREW TORQUE @ 200 BAR	NM	950	950	950	1080	1080	1080
PLASTICIZING RATE (GPPS) *	gm/sec	15	20	28	16	22	29
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			4+1		
TOTAL HEAT CAPACITY	KW	11.3			15.7		

CLAMP UNIT			
CLAMP FORCE	Ton	110	110
CLAMP STROKE	mm	380	380
MAXIMUM DAYLIGHT	mm	900	900
MINIMUM MOLD HEIGHT	mm	150	150
MAXIMUM MOLD HEIGHT	mm	520	520
PLATEN SIZE (H X V)	mm	690 X 645	690 X 645
DISTANCE BETWEEN TIE ROD	mm	480 X 435	480 X 435
TIE ROD DIAMETER	mm	75	75
EJECTOR STROKE	mm	150	150
EJECTOR FORCE	Ton	3.5	3.5
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	1150 (770 / 575) ¹	1150 (770 / 575) ¹

GENERAL			
ELECTRIC MOTOR	kW	18.5	18.5
TOTAL OIL CAPACITY	L	280	280
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	50	50
CONNECTED LOAD	kW	29.8	34.2
MACHINE DIMENSION (L X W X H)	m	5.70 X 1.75 X 2.06	5.70 X 1.75 X 2.06
MACHINE WEIGHT	kg	6515	6890

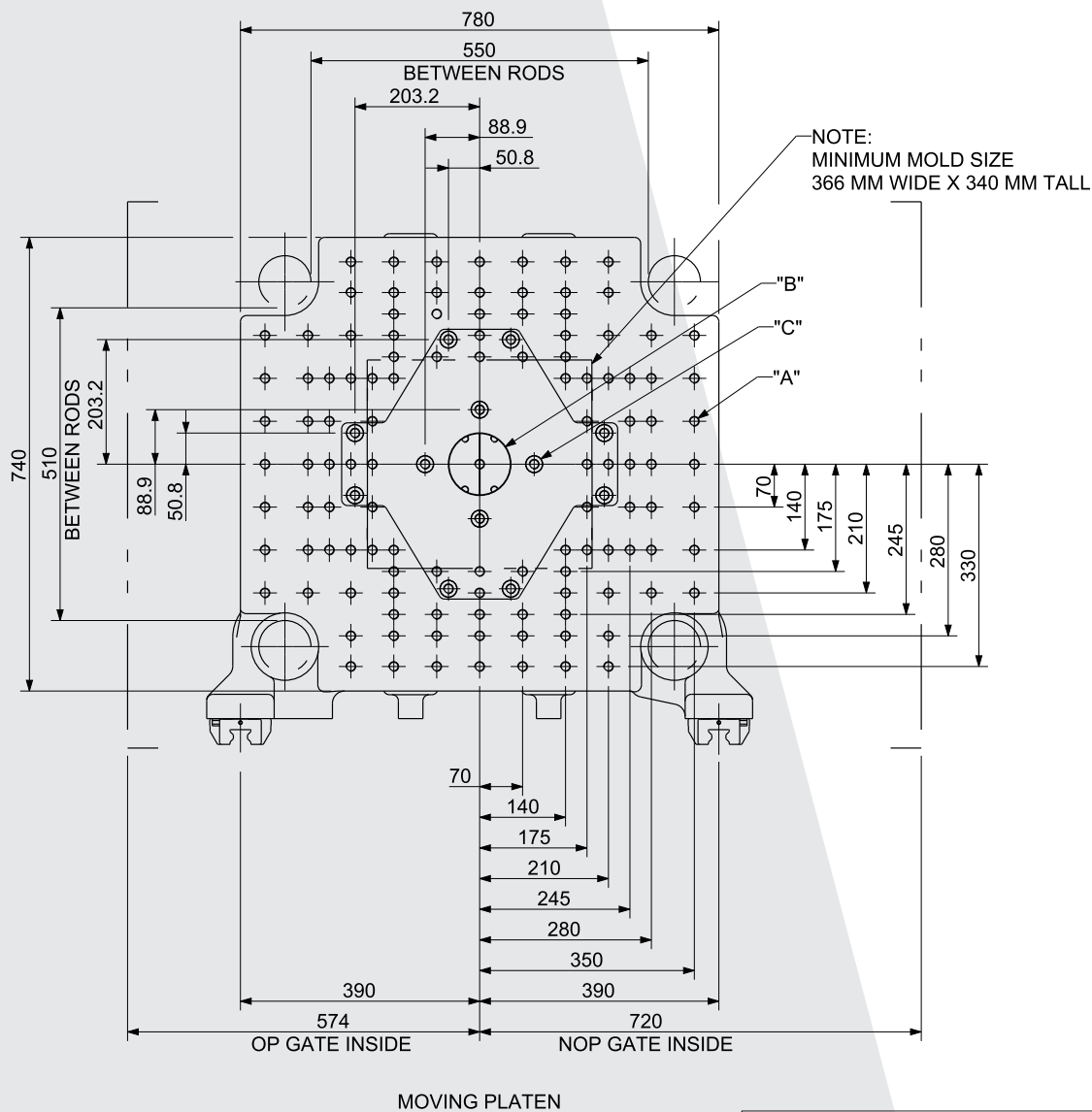
¹ Maximum mold weight on each half & combined maximum mold weight

* - with open nozzle



The machine image used is for representational purpose only. Number of actuators might differ based on machine model selection.

Q-ACCUPACK 150

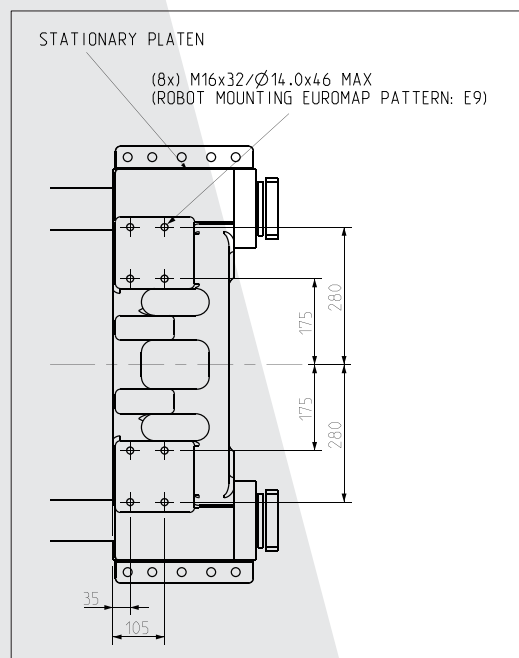


ALL DIMENSIONS ARE IN MM

A MOVING PLATEN: M16X32 (112) PLACES,
STATIONARY PLATEN: M16X32 DEEP (116) PLACES.

B MOVING PLATEN: $\varnothing 100(+0.035/-0.0)$ THRU BORE,
K/O BAR CENTRE HOLE M16x40 DEEP.
STATIONARY PLATEN:
 $\varnothing 125(+0.04/-0.0)$ WITH LOCATING RING,
 $\varnothing 160(+0.04/-0.0) \times 10(+0.15/-0.0)$ DEEP, WITHOUT LOCATING RING.

C $\varnothing 27$ THRU, (12) HOLES IN MOVING PLATEN
K/O BAR M16x40 DEEP (12) HOLES



MODEL
Q - ACCUPACK 150

INTERNATIONAL SIZE	1500-450	1500-630	1500-970
POWER PACK	30 HP	30 HP	40 HP

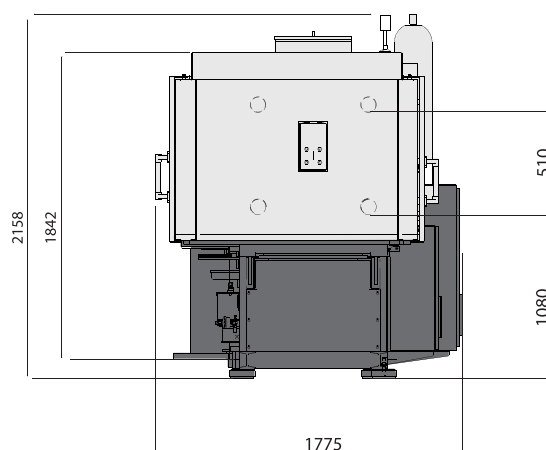
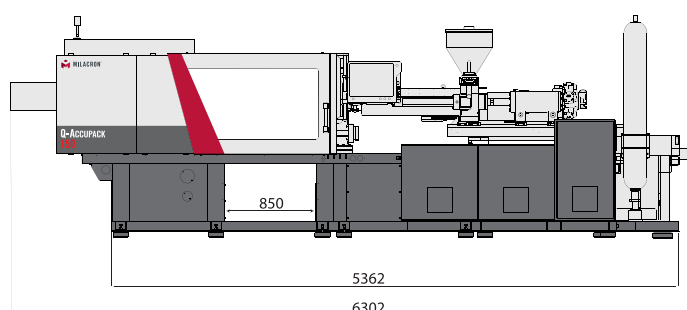
INJECTION UNIT	UNIT	450			630			970		
		A'	A	B	A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	165	215	272	239	303	374	363	448	646
THEORETICAL DISPLACEMENT	cc	173	226	286	251	318	393	382	471	679
INJECTION PRESSURE MAX.	bar	2443	1984	1568	2492	1969	1595	2249	2057	1428
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	320	418	530	416	527	651	529	653	940
INJECTION SCREW STROKE	mm	180	180	180	200	200	200	240	240	240
SCREW DIAMETER	mm	35	40	45	40	45	50	45	50	60
SCREW L/D RATIO		25.7	22.5	20	25	22.2	20	26.7	24	20
SCREW SPEED	rpm	297	297	297	236	236	236	242	242	242
SCREW TORQUE @ 200 BAR	NM	950	950	950	1080	1080	1080	1517	1517	1517
PLASTICIZING RATE (GPPS) *	gm/sec	18	24	33	19	27	35	27	36	56
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			4+1			4+1		
TOTAL HEAT CAPACITY	KW	11.3			15.7			16.9		

CLAMP UNIT										
CLAMP FORCE	Ton	150			150			150		
CLAMP STROKE	mm	460			460			460		
MAXIMUM DAYLIGHT	mm	1060			1060			1060		
MINIMUM MOLD HEIGHT	mm	200			200			200		
MAXIMUM MOLD HEIGHT	mm	600			600			600		
PLATEN SIZE (H X V)	mm	780 X 740			780 X 740			780 X 740		
DISTANCE BETWEEN TIE ROD	mm	550 X 510			550 X 510			550 X 510		
TIE ROD DIAMETER	mm	85			85			85		
EJECTOR STROKE	mm	175			175			175		
EJECTOR FORCE	Ton	5			5			5		
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	1750 (1170 / 875) ¹			1750 (1170 / 875) ¹			1750 (1170 / 875) ¹		

GENERAL										
ELECTRIC MOTOR	kW	22			22			30		
TOTAL OIL CAPACITY	L	365			365			365		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	50			50			50		
CONNECTED LOAD	kW	33.3			37.7			46.9		
MACHINE DIMENSION (L X W X H)	m	6.30 X 1.78 X 2.16			6.30 X 1.78 X 2.16			6.30 X 1.78 X 2.16		
MACHINE WEIGHT	kg	7300			7600			7850		

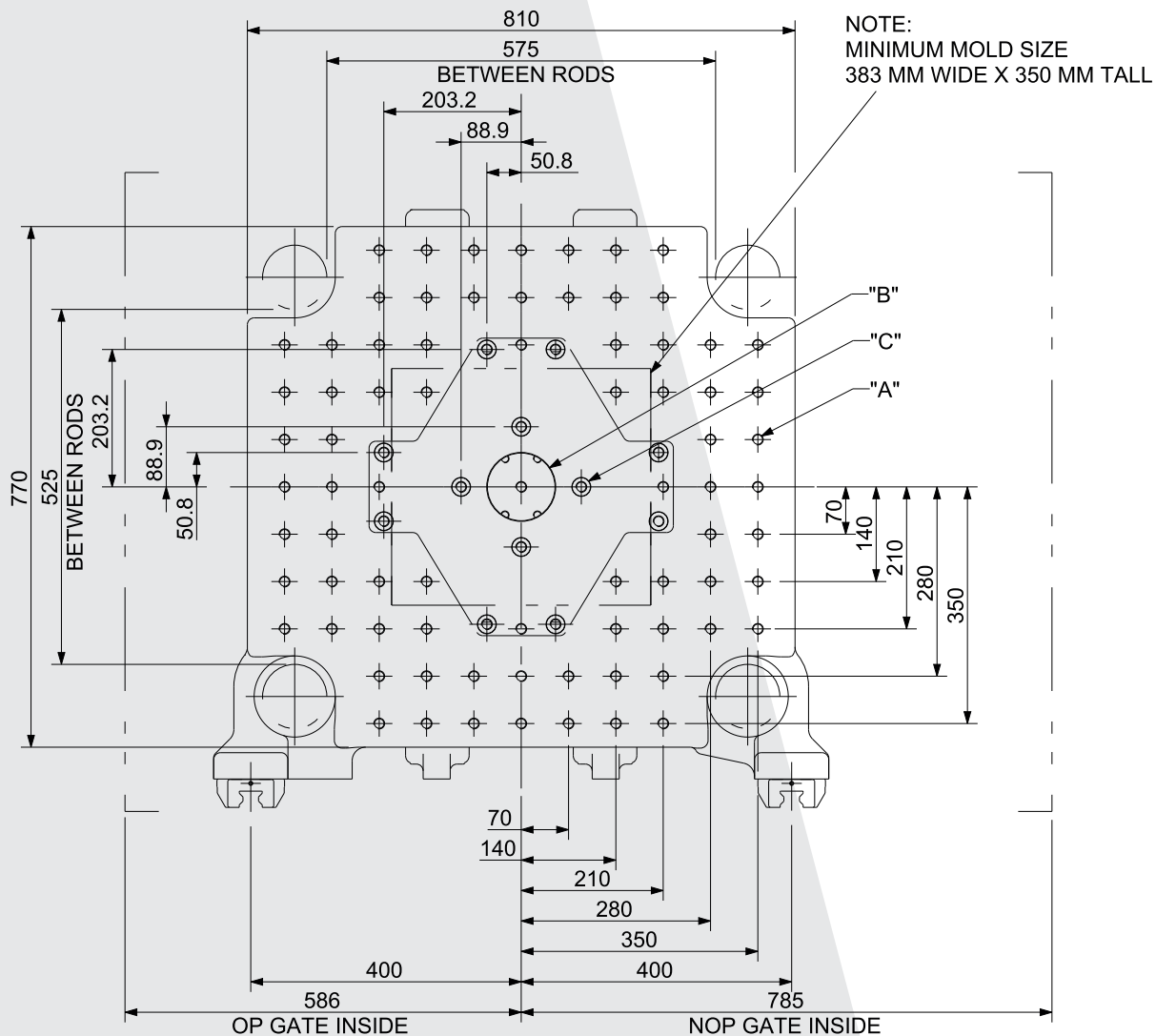
¹ Maximum mold weight on each half & combined maximum mold weight

* - with open nozzle

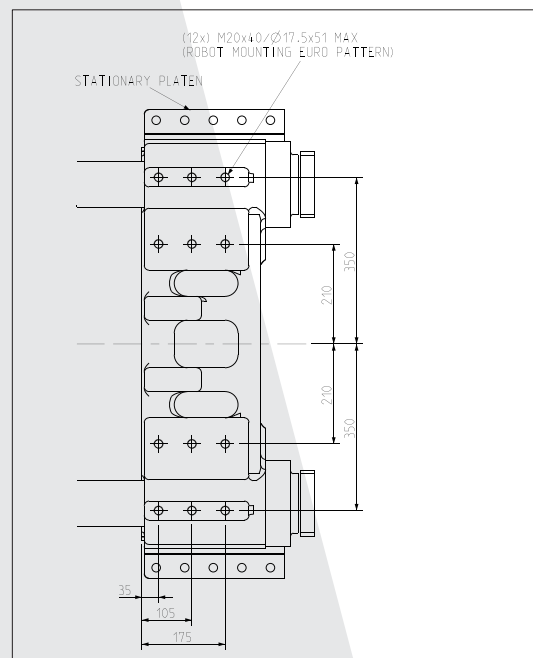


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Q-ACCUPACK 180



MOVING PLATEN



ALL DIMENSIONS ARE IN MM

- A MOVING PLATEN: M16X32 DEEP (76) PLACES,
STATIONARY PLATEN: M16X32 DEEP (84) PLACES.
- B MOVING PLATEN: $\varnothing 100(+0.035/-0.0)$ THRU BORE,
K/O BAR CENTRE HOLE M16x40 DEEP.
STATIONARY PLATEN:
 $\varnothing 125(+0.04/-0.0)$ WITH LOCATING RING,
 $\varnothing 160(+0.04/-0.0) \times 10(+0.15/-0.0)$ DEEP, WITHOUT LOCATING RING.
- C $\varnothing 27$ THRU, (12) HOLES IN MOVING PLATEN,
K/O BAR M16x40 DEEP (12) HOLES

MODEL
Q - ACCUPACK 180

INTERNATIONAL SIZE	1800-450	1800-630	1800-970
POWER PACK	30 HP	30 HP	40 HP

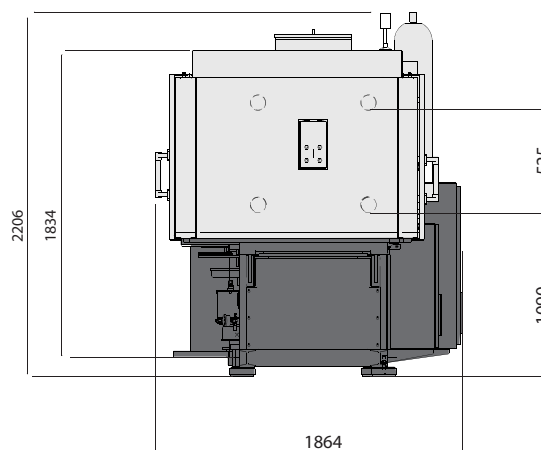
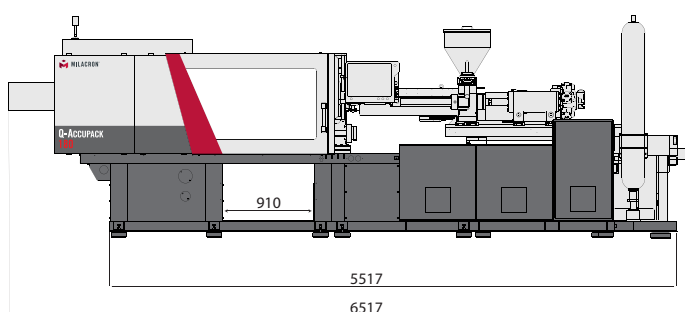
INJECTION UNIT	UNIT	450			630			970		
		A'	A	B	A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	165	215	272	239	303	374	363	448	646
THEORETICAL DISPLACEMENT	cc	173	226	286	251	318	393	382	471	679
INJECTION PRESSURE MAX.	bar	2443	1984	1568	2492	1969	1595	2249	2057	1428
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	320	418	530	416	527	651	529	653	940
INJECTION SCREW STROKE	mm	180	180	180	200	200	200	240	240	240
SCREW DIAMETER	mm	35	40	45	40	45	50	45	50	60
SCREW L/D RATIO		25.7	22.5	20	25	22.2	20	26.7	24	20
SCREW SPEED	rpm	297	297	297	236	236	236	242	242	242
SCREW TORQUE @ 200 BAR	NM	950	950	950	1080	1080	1080	1517	1517	1517
PLASTICIZING RATE (GPPS) *	gm/sec	18	24	33	19	27	35	27	36	56
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			4+1			4+1		
TOTAL HEAT CAPACITY	KW	11.3			15.7			16.9		

CLAMP UNIT										
CLAMP FORCE	Ton	180			180			180		
CLAMP STROKE	mm	500			500			500		
MAXIMUM DAYLIGHT	mm	1100			1100			1100		
MINIMUM MOLD HEIGHT	mm	200			200			200		
MAXIMUM MOLD HEIGHT	mm	600			600			600		
PLATEN SIZE (H X V)	mm	810 x 770			810 x 770			810 x 770		
DISTANCE BETWEEN TIE ROD	mm	575 x 525			575 x 525			575 x 525		
TIE ROD DIAMETER	mm	95			95			95		
EJECTOR STROKE	mm	175			175			175		
EJECTOR FORCE	Ton	5			5			5		
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	1950 (1300 / 975) ¹			1950 (1300 / 975) ¹			1950 (1300 / 975) ¹		

GENERAL										
ELECTRIC MOTOR	kW	22			22			30		
TOTAL OIL CAPACITY	L	365			365			365		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	50			50			50		
CONNECTED LOAD	kW	33.3			37.7			48		
MACHINE DIMENSION (L X W X H)	m	6.52 X 1.86 X 2.21			6.52 X 1.86 X 2.21			6.52 X 1.86 X 2.21		
MACHINE WEIGHT	kg	8200			8600			8850		

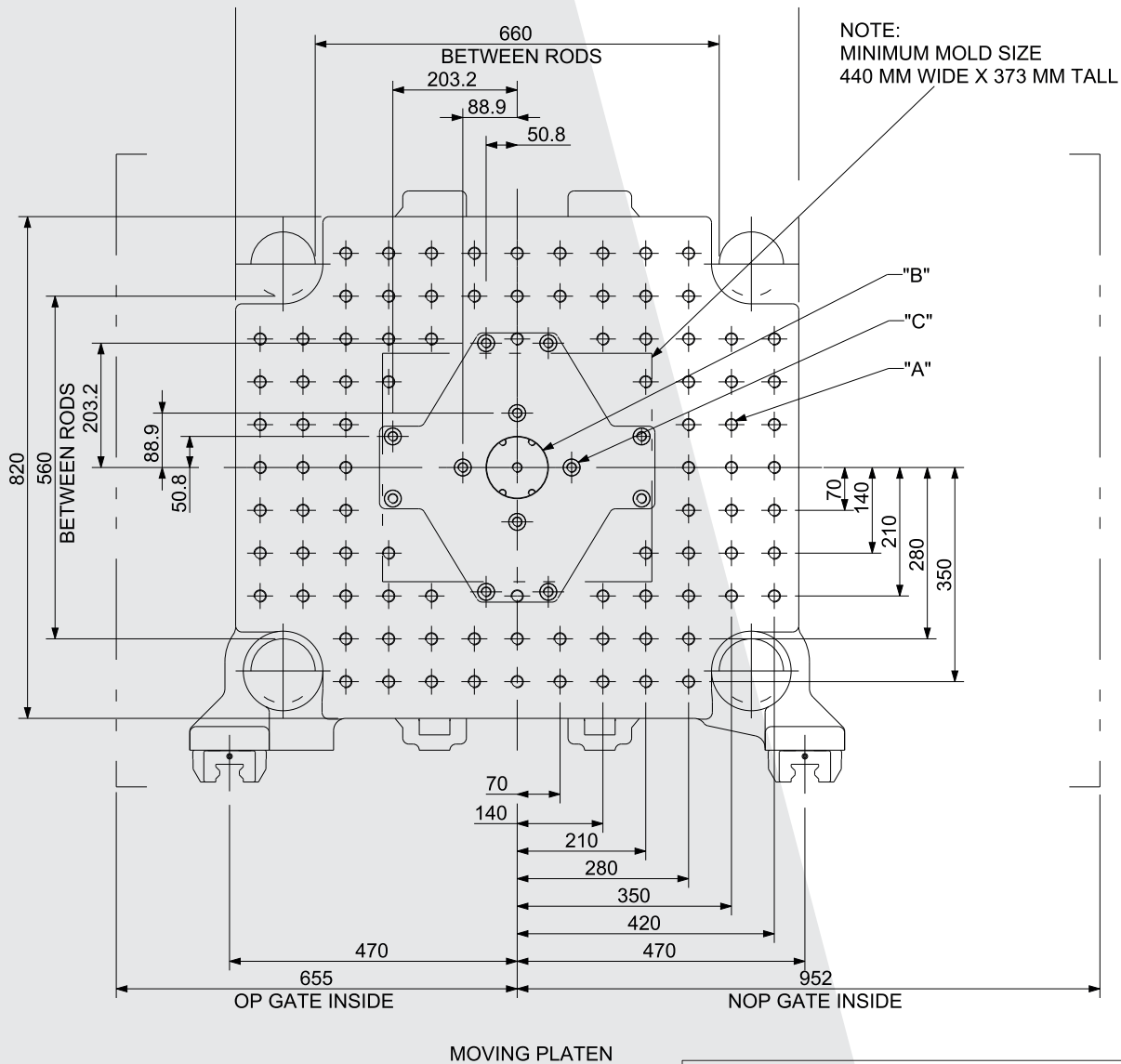
¹ Maximum mold weight on each half & combined maximum mold weight

* - with open nozzle



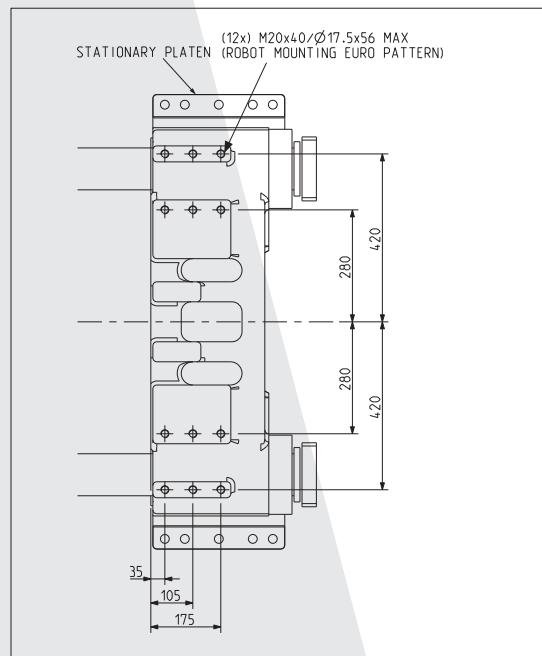
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Q-ACCUPACK 230



ALL DIMENSIONS ARE IN MM

- A MOVING PLATEN: M20X45 DEEP (92) PLACES,
STATIONARY PLATEN: M20X45 DEEP (96) PLACES,
- B MOVING PLATEN: Ø100(+0.035/-0.0) THRU BORE,
K/O BAR CENTRE HOLE M16x40 DEEP.
STATIONARY PLATEN:
Ø125(+0.04/-0.0) WITH LOCATING RING,
Ø160(+0.04/-0.0) x 10(+0.15/-0.0) DEEP, WITHOUT LOCATING RING.
- C Ø27 THRU, (12) HOLES IN MOVING PLATEN,
K/O BAR M16x40 DEEP (12) HOLES



MODEL		Q - ACCUPACK 230								
INTERNATIONAL SIZE		2300-630			2300-970			2300-1540		
POWER PACK		50 HP			50 HP			60 HP		

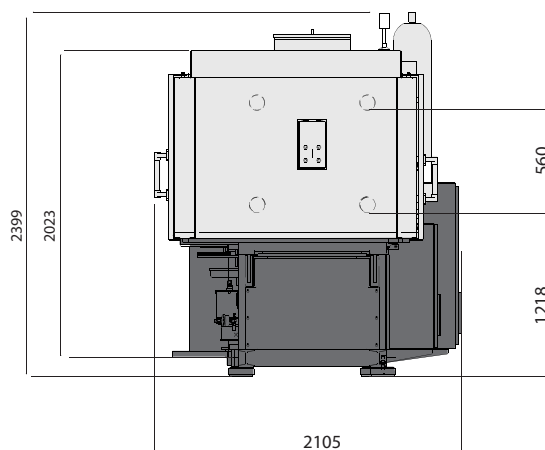
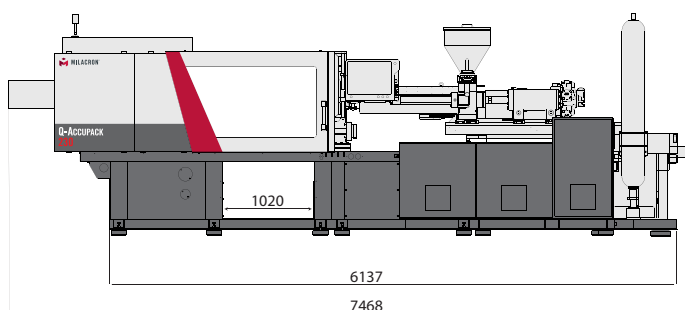
INJECTION UNIT	UNIT	630			970			1540		
		A'	A	B	A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	239	303	374	363	448	646	523	753	1025
THEORETICAL DISPLACEMENT	cc	251	318	393	382	471	679	550	792	1078
INJECTION PRESSURE MAX.	bar	2492	1969	1595	2249	2057	1428	2236	1941	1426
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	416	527	651	529	653	940	654	942	1282
INJECTION SCREW STROKE	mm	200	200	200	240	240	240	280	280	280
SCREW DIAMETER	mm	40	45	50	45	50	60	50	60	70
SCREW L/D RATIO		25	22.2	20	26.7	24	20	28	23.3	20
SCREW SPEED	rpm	305	305	305	283	283	283	247	247	247
SCREW TORQUE @ 200 BAR	NM	1080	1080	1080	1517	1517	1517	2510	2510	2510
PLASTICIZING RATE (GPPS) *	gm/sec	25	34	46	32	42	65	37	57	90
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			4+1			5+1		
TOTAL HEAT CAPACITY	KW	15.7			16.9			24.9		

CLAMP UNIT										
CLAMP FORCE	Ton	230			230			230		
CLAMP STROKE	mm	550			550			550		
MAXIMUM DAYLIGHT	mm	1260			1260			1260		
MINIMUM MOLD HEIGHT	mm	200			200			200		
MAXIMUM MOLD HEIGHT	mm	710			710			710		
PLATEN SIZE (H X V)	mm	920 x 820			920 x 820			920 x 820		
DISTANCE BETWEEN TIE ROD	mm	660 x 560			660 x 560			660 x 560		
TIE ROD DIAMETER	mm	105			105			105		
EJECTOR STROKE	mm	200			200			200		
EJECTOR FORCE	Ton	6.5			6.5			6.5		
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	2750 (1830 / 1375) ¹			2750 (1830 / 1375) ¹			2750 (1830 / 1375) ¹		

GENERAL										
ELECTRIC MOTOR	kW	37			37			45		
TOTAL OIL CAPACITY	L	530			530			530		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	75			75			75		
CONNECTED LOAD	kW	52.7			53.9			69.9		
MACHINE DIMENSION (L X W X H)	m	7.47 X 2.11 X 2.40			7.47 X 2.11 X 2.40			7.47 X 2.11 X 2.40		
MACHINE WEIGHT	kg	10000			10500			10850		

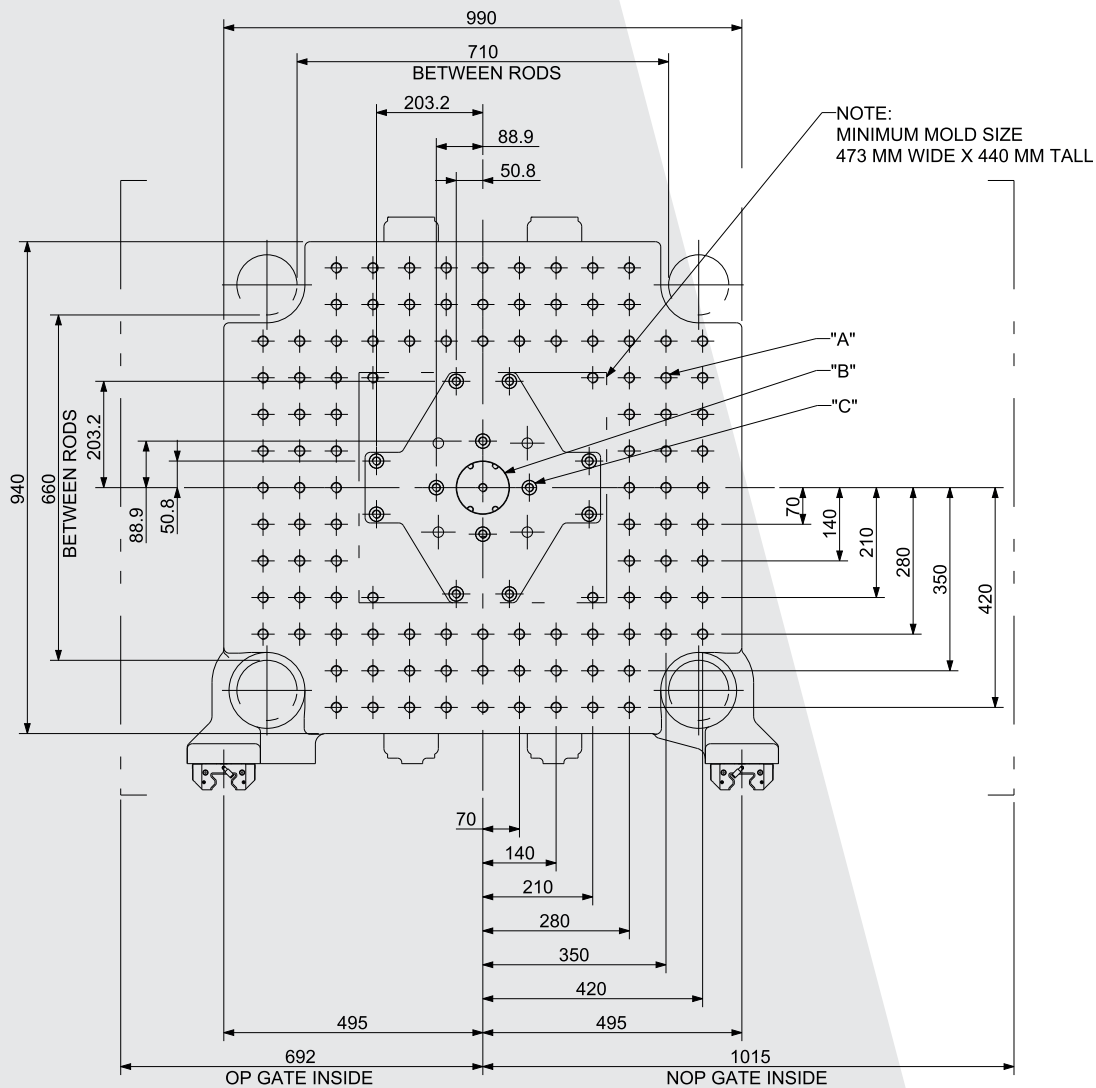
¹ Maximum mold weight on each half & combined maximum mold weight

* - with open nozzle

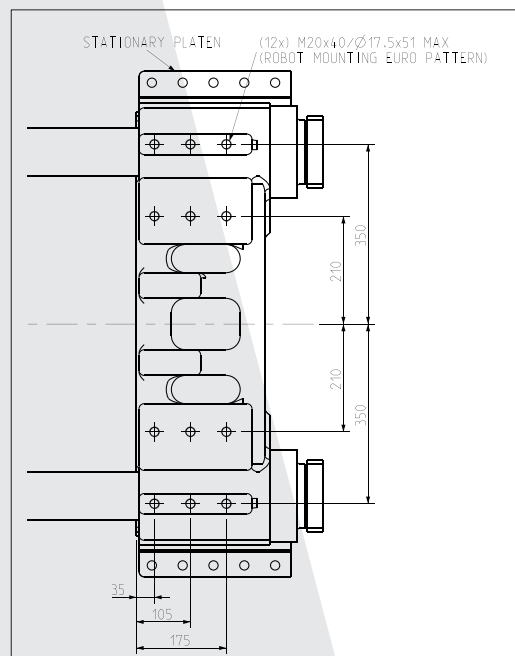


The machine image used is for representational purpose only. Number of actuators might differ based on machine model selection.

Q-ACCUPACK 280



MOVING PLATEN



ALL DIMENSIONS ARE IN MM

- A M20x45 DEEP (108) HOLES ON BOTH PLATEN.
- B MOVING PLATEN: Ø100(+0.035/-0.0) THRU BORE,
K/O BAR CENTRE HOLE M16x40 DEEP.
STATIONARY PLATEN:
Ø125(+0.04/-0.0) WITH LOCATING RING,
Ø160(+0.04/-0.0) x 10(+0.15/-0.0) DEEP, WITHOUT LOCATING RING.
- C Ø27 THRU, (12) HOLES IN MOVING PLATEN
K/O BAR M16x40 DEEP (12) HOLES

MODEL		Q - ACCUPACK 280		
INTERNATIONAL SIZE	2800-970	2800-1540	2800-2290	
POWER PACK	60 HP	60 HP	75 HP	

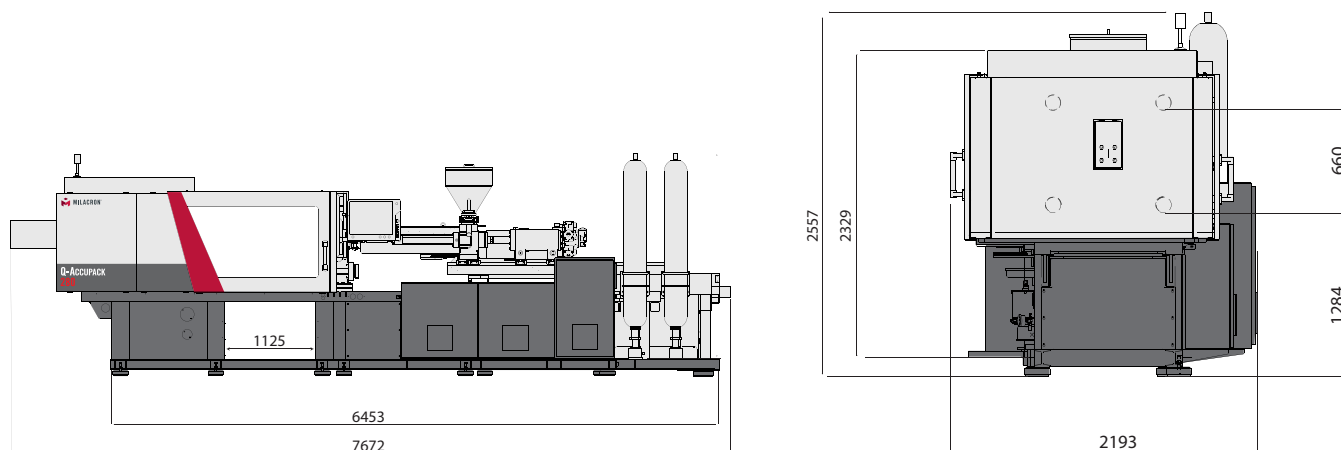
INJECTION UNIT	UNIT	970			1540			2290		
		A'	A	B	A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	363	448	646	523	753	1025	861	1172	1530
THEORETICAL DISPLACEMENT	cc	382	471	679	550	792	1078	905	1232	1608
INJECTION PRESSURE MAX.	bar	2249	2057	1428	2236	1941	1426	2238	1856	1421
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	529	653	940	654	942	1282	940	1280	1672
INJECTION SCREW STROKE	mm	240	240	240	280	280	280	320	320	320
SCREW DIAMETER	mm	45	50	60	50	60	70	60	70	80
SCREW L/D RATIO		26.7	24	20	28	23.3	20	26.7	22.9	20
SCREW SPEED	rpm	400	374	315	247	247	247	171	171	171
SCREW TORQUE @ 200 BAR	NM	1514	1514	1517	2510	2510	2510	4275	4275	4275
PLASTICIZING RATE (GPPS) *	gm/sec	45	56	73	37	57	90	39	62	84
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			5+1			5+1		
TOTAL HEAT CAPACITY	KW	16.9			24.9			24.9		

CLAMP UNIT										
CLAMP FORCE	Ton	280			280			280		
CLAMP STROKE	mm	650			650			650		
MAXIMUM DAYLIGHT	mm	1400			1400			1400		
MINIMUM MOLD HEIGHT	mm	250			250			250		
MAXIMUM MOLD HEIGHT	mm	750			750			750		
PLATEN SIZE (H X V)	mm	990 x 940			990 x 940			990 x 940		
DISTANCE BETWEEN TIE ROD	mm	710 x 660			710 x 660			710 x 660		
TIE ROD DIAMETER	mm	115			115			115		
EJECTOR STROKE	mm	200			200			200		
EJECTOR FORCE	Ton	6.5			6.5			6.5		
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	3700 (2460 / 1850) ¹			3700 (2460 / 1850) ¹			3700 (2460 / 1850) ¹		

GENERAL										
ELECTRIC MOTOR	kW	45			45			55		
TOTAL OIL CAPACITY	L	530			530			650		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	75			75			75		
CONNECTED LOAD	kW	61.9			69.9			94.6		
MACHINE DIMENSION (L X W X H)	m	7.67 X 2.19 X 2.56			7.67 X 2.19 X 2.56			7.67 X 2.19 X 2.56		
MACHINE WEIGHT	kg	12400			13500			15600		

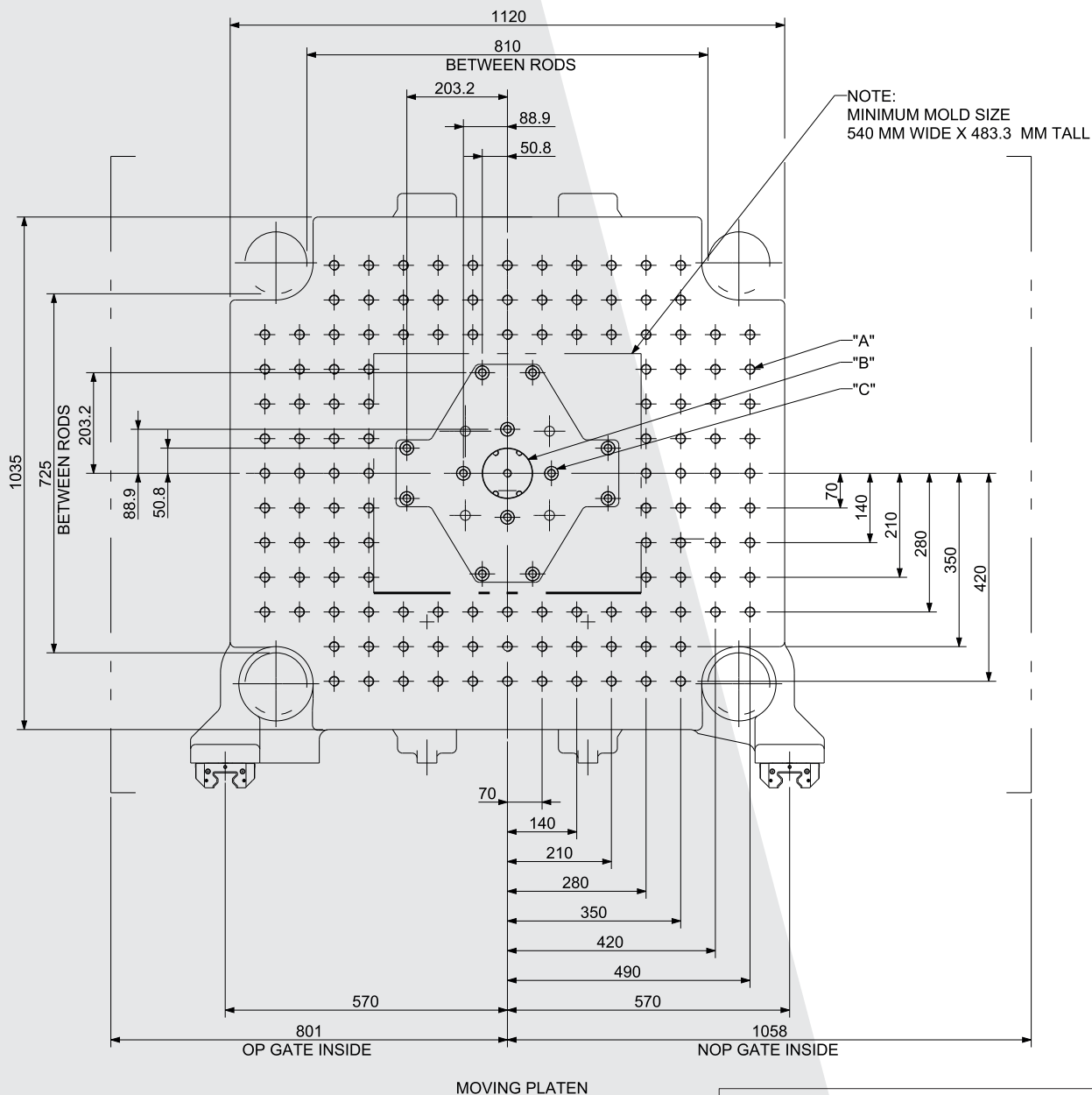
¹ Maximum mold weight on each half & combined maximum mold weight

* - with open nozzle



The machine image used is for representational purpose only. Number of actuators might differ based on machine model selection.

Q-ACCUPACK 350

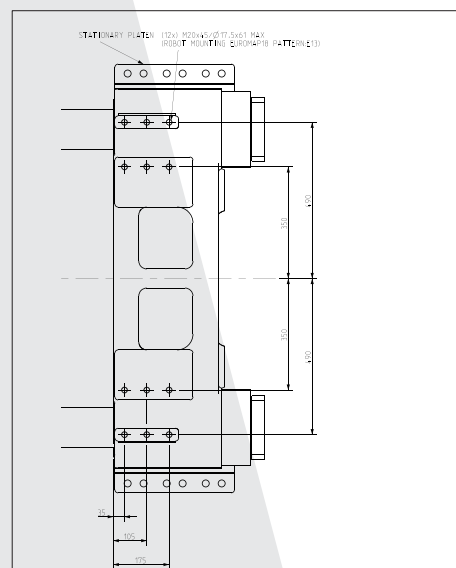


ALL DIMENSIONS ARE IN MM

A M20x45 DEEP (130) HOLES ON BOTH PLATEN.

B MOVING PLATEN: $\varnothing 100(+0.035/-0.0)$ THRU BORE,
K/O BAR CENTRE HOLE M16x40 DEEP.
STATIONARY PLATEN:
 $\varnothing 160(+0.040/-0.0)$ WITH LOCATING RING,
 $\varnothing 200(+0.046/-0.0) \times 10(+0.15/-0.0)$ DEEP, WITHOUT LOCATING RING.

C $\varnothing 27$ THRU, (12) HOLES IN MOVING PLATEN
K/O BAR M16x40 DEEP (12) HOLES



MODEL
Q - ACCUPACK 350

INTERNATIONAL SIZE	3500-1540	3500-2290	3500-3470
POWER PACK	60 HP	75 HP	100 HP

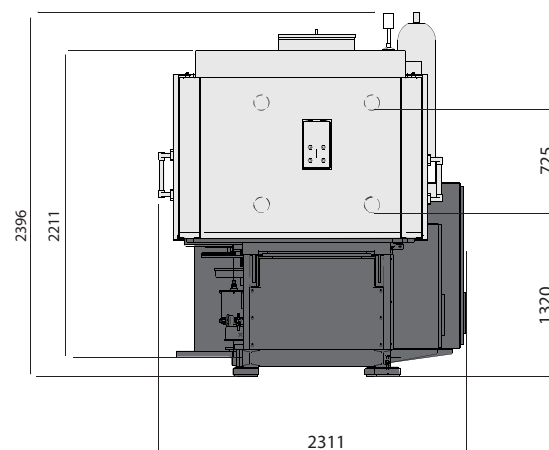
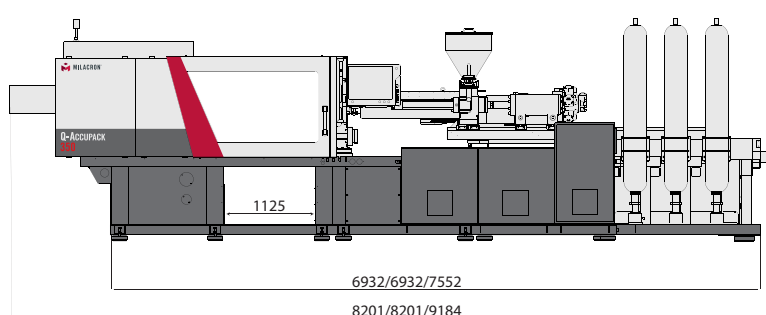
INJECTION UNIT	UNIT	1540			2290			3470		
		A'	A	B	A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	523	753	1025	861	1172	1530	1318	1722	2179
THEORETICAL DISPLACEMENT	cc	550	792	1078	905	1232	1608	1385	1810	2290
INJECTION PRESSURE MAX.	bar	2236	1941	1426	2238	1856	1421	2289	1917	1515
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	654	942	1282	940	1280	1672	1283	1676	2121
INJECTION SCREW STROKE	mm	280	280	280	320	320	320	360	360	360
SCREW DIAMETER	mm	50	60	70	60	70	80	70	80	90
SCREW L/D RATIO		28	23.3	20	26.7	22.9	20	25.7	22.5	20
SCREW SPEED	rpm	247	247	247	171	171	171	178	178	178
SCREW TORQUE @ 200 BAR	NM	2510	2510	2510	4275	4275	4275	4989	4989	4989
PLASTICIZING RATE (GPPS) *	gm/sec	37	57	90	39	62	84	65	88	118
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1			5+1			5+1		
TOTAL HEAT CAPACITY	KW	24.9			39.6			57.9		

CLAMP UNIT										
CLAMP FORCE	Ton	350			350			350		
CLAMP STROKE	mm	720			720			720		
MAXIMUM DAYLIGHT	mm	1520			1520			1520		
MINIMUM MOLD HEIGHT	mm	300			300			300		
MAXIMUM MOLD HEIGHT	mm	800			800			800		
PLATEN SIZE (H X V)	mm	1120 x 1035			1120 x 1035			1120 x 1035		
DISTANCE BETWEEN TIE ROD	mm	810 x 725			810 x 725			810 x 725		
TIE ROD DIAMETER	mm	125			125			125		
EJECTOR STROKE	mm	250			250			250		
EJECTOR FORCE	Ton	7.5			7.5			7.5		
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	5000 (3300 / 2500) ¹			5000 (3300 / 2500) ¹			5000 (3300 / 2500) ¹		

GENERAL										
ELECTRIC MOTOR	kW	45			55			75		
TOTAL OIL CAPACITY	L	650			650			925		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	100			100			100		
CONNECTED LOAD	kW	69.9			94.6			132.9		
MACHINE DIMENSION (L X W X H)	m	8.20 X 2.31 X 2.40			8.20 X 2.31 X 2.40			8.20 X 2.31 X 2.40		
MACHINE WEIGHT	kg	15600			17800			19290		

¹ Maximum mold weight on each half & combined maximum mold weight

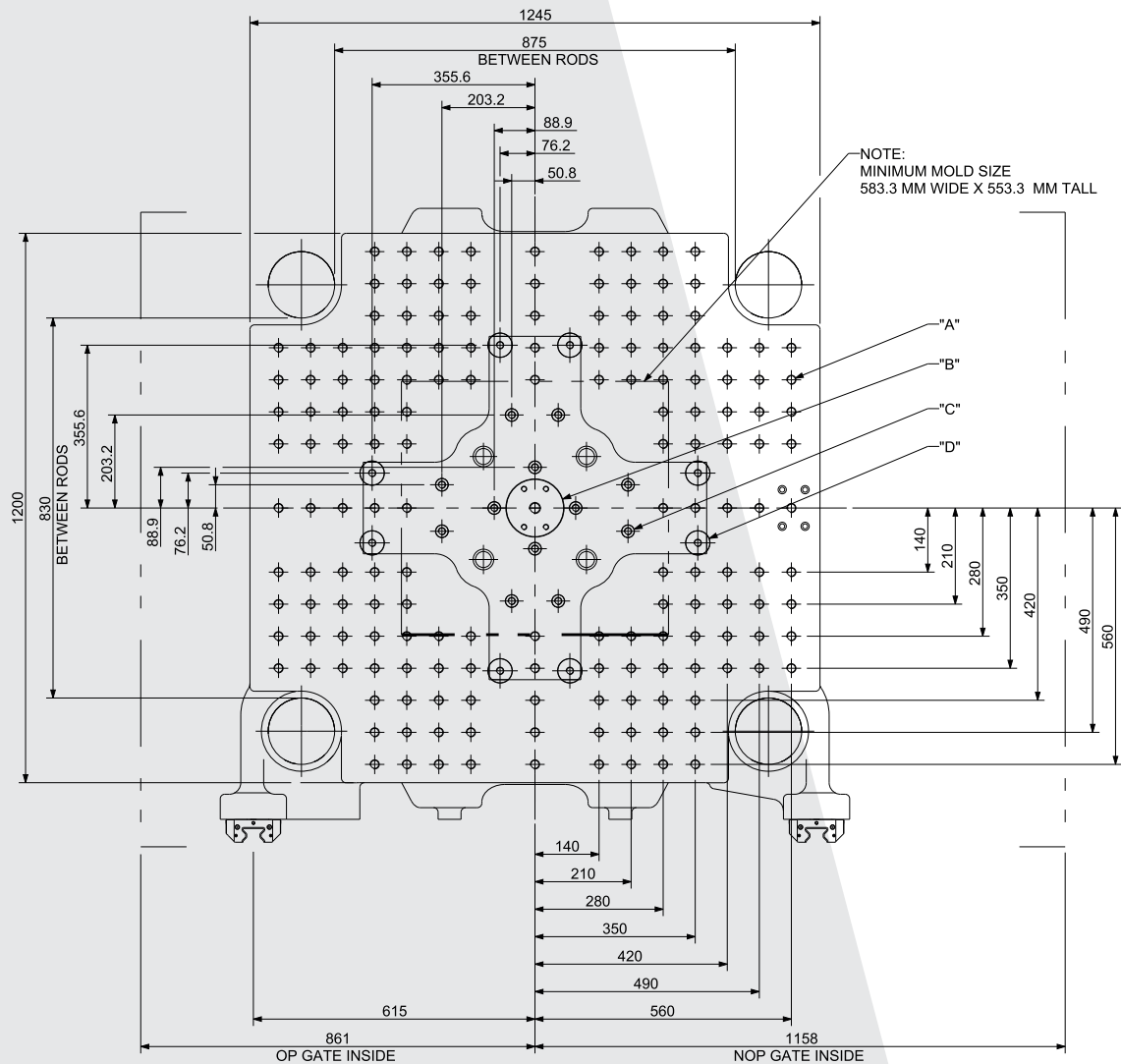
* - with open nozzle



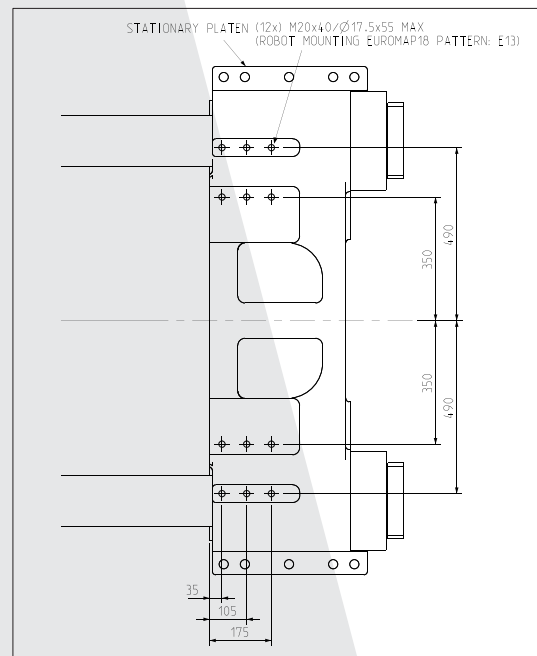
The machine image used is for representational purpose only. Number of actuators might differ based on machine model selection.

* IU 1540/2290/3470

Q-ACCUPACK 450



MOVING PLATEN



ALL DIMENSIONS ARE IN MM

A M20x45 DEEP (164) HOLES ON EACH PLATEN.

B MOVING PLATEN: $\varnothing 125(+0.04/-0.0)$ THRU BORE,
K/O BAR CENTRE HOLE M24x43 DEEP
STATIONARY PLATEN:
 $\varnothing 160(+0.040/-0.0)$ WITH LOCATING RING,
 $\varnothing 200(+0.046/-0.0) \times 10(+0.15/-0.0)$ DEEP, WITHOUT LOCATING RING.

C $\varnothing 27$ THRU (12) HOLES IN MOVING PLATEN
K/O BAR M16x40 DEEP (20) HOLES

D $\varnothing 52.4$ THRU (8) HOLES

MODEL
Q - ACCUPACK 450

INTERNATIONAL SIZE	4500-2290	4500-3470
POWER PACK	75 HP	100 HP

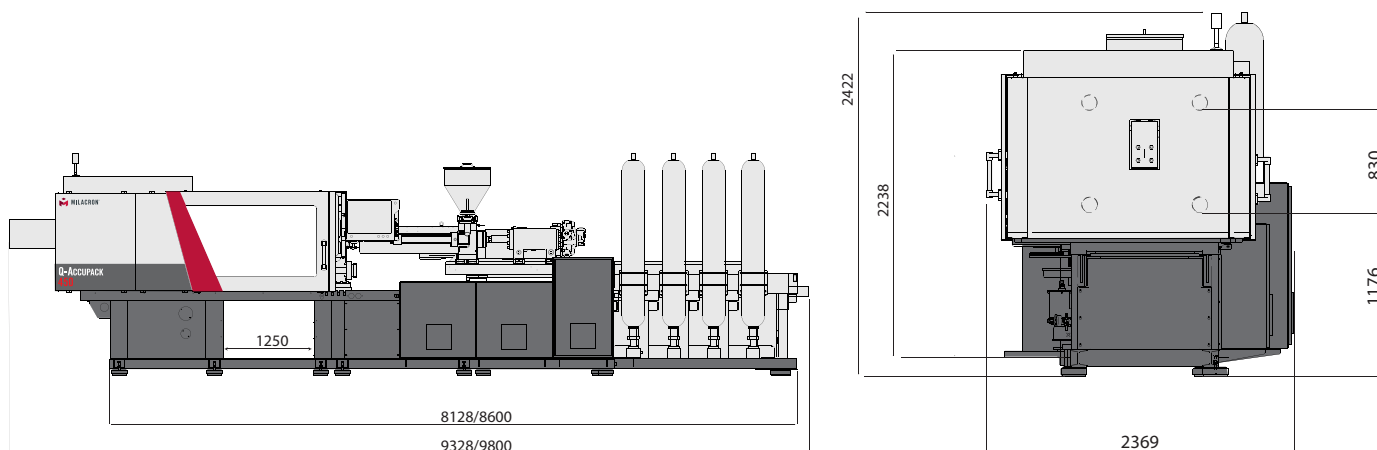
INJECTION UNIT	UNIT	2290			3470		
		A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	861	1172	1530	1318	1722	2179
THEORETICAL DISPLACEMENT	cc	905	1232	1608	1385	1810	2290
INJECTION PRESSURE MAX.	bar	2238	1856	1421	2289	1917	1515
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	940	1280	1672	1283	1676	2121
INJECTION SCREW STROKE	mm	320	320	320	360	360	360
SCREW DIAMETER	mm	60	70	80	70	80	90
SCREW L/D RATIO		26.7	22.9	20	25.7	22.5	20
SCREW SPEED	rpm	171	171	171	178	178	178
SCREW TORQUE @ 200 BAR	NM	4275	4275	4275	4989	4989	4989
PLASTICIZING RATE (GPPS) *	gm/sec	39	62	84	65	88	118
NO.OF PYROMETERS (BARREL+NOZZLE)			5+1			5+1	
TOTAL HEAT CAPACITY	KW		39.6			57.9	

CLAMP UNIT			
CLAMP FORCE	Ton	450	450
CLAMP STROKE	mm	850	850
MAXIMUM DAYLIGHT	mm	1670	1670
MINIMUM MOLD HEIGHT	mm	350	350
MAXIMUM MOLD HEIGHT	mm	820	820
PLATEN SIZE (H X V)	mm	1245 x 1200	1245 x 1200
DISTANCE BETWEEN TIE ROD	mm	875 x 830	875 x 830
TIE ROD DIAMETER	mm	145	145
EJECTOR STROKE	mm	250	250
EJECTOR FORCE	Ton	12	12
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	6000 (4000 / 3000) ¹	6000 (4000 / 3000) ¹

GENERAL			
ELECTRIC MOTOR	kW	55	75
TOTAL OIL CAPACITY	L	800	800
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	100	100
CONNECTED LOAD	kW	95	133
MACHINE DIMENSION (L X W X H)	m	9.33 X 2.37 X 2.42	9.33 X 2.37 X 2.42
MACHINE WEIGHT	kg	23000	24500

¹ Maximum mold weight on each half & combined maximum mold weight

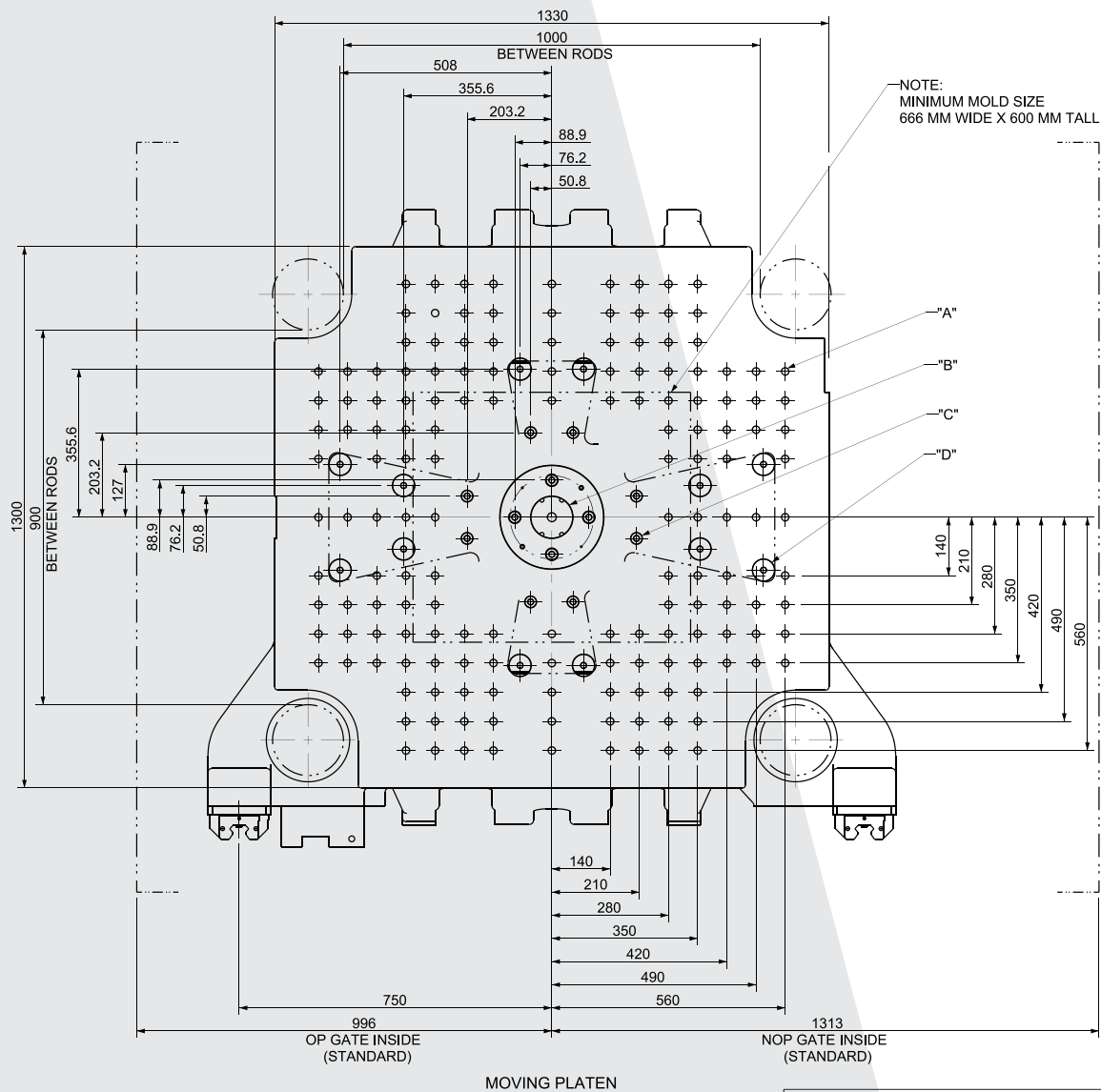
* - with open nozzle



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¹ IU 2290/3470

Q-ACCUPACK 550



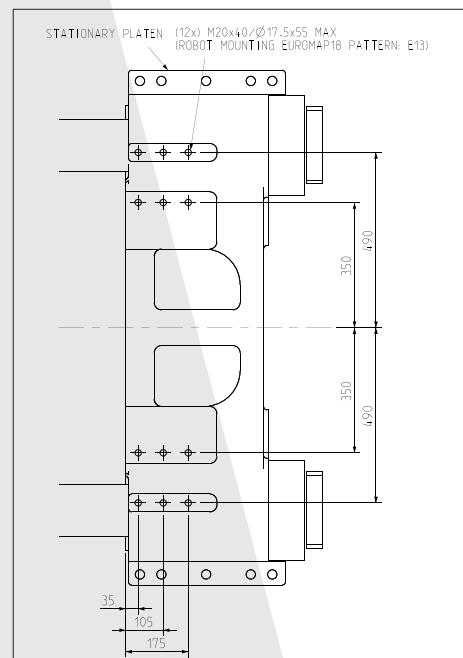
ALL DIMENSIONS ARE IN MM

A- MOVING PLATEN: M20X50 (160) PLACES
STATIONARY PLATEN: M20X50 (164) PLACES

B MOVING PLATEN
Ø100(+0.035/-0.0) WITH LOCATING RING
Ø250 (+0.046/-0.0) x 20.07(+0.08/-0.0) DEEP WITHOUT LOCATING RING
K/O BAR CENTER HOLE: M24X60 DEEP
STATIONARY PLATEN
Ø160 (+0.040/-0.00) WITH LOCATING RING
Ø250 (+0.046/-0.0) x 20.07(+0.08/-0.0) DEEP WITHOUT LOCATING RING

C (12x) Ø27 THRU HOLES
K/O BAR HOLES: (12x) M16 THRU

D (12x) Ø52.4 THRU HOLES
K/O BAR HOLES: (12x) M16 THRU



MODEL
Q - ACCUPACK 550

INTERNATIONAL SIZE	5500-2290	5500-3470
POWER PACK	75 HP	100 HP

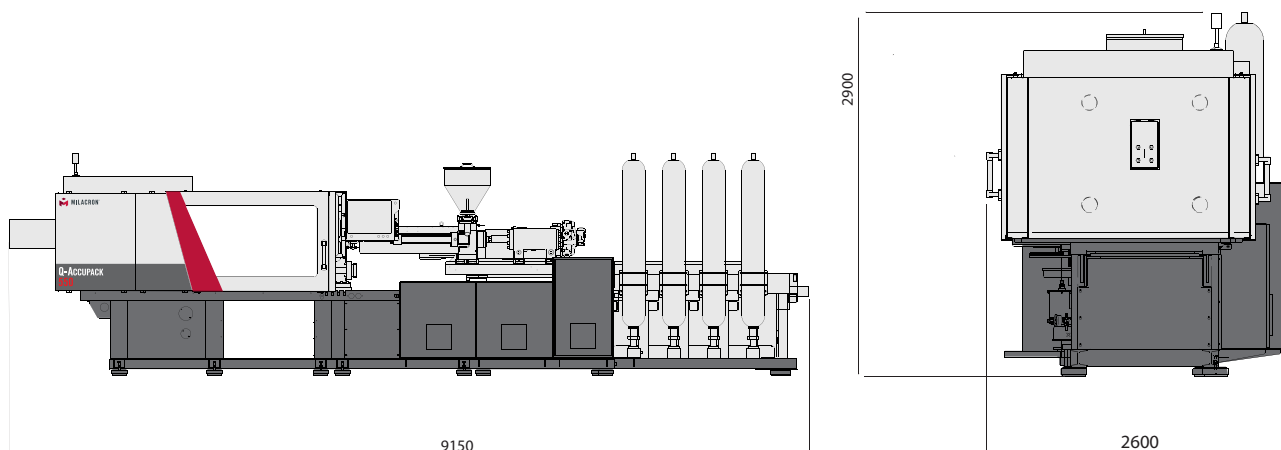
INJECTION UNIT	UNIT	2290			3470		
		A'	A	B	A'	A	B
INJECTION CAPACITY MAX. (GPPS)	gms	861	1172	1530	1318	1722	2179
THEORETICAL DISPLACEMENT	cc	905	1232	1608	1385	1810	2290
INJECTION PRESSURE MAX.	bar	2238	1856	1421	2289	1917	1515
INJECTION RATE (FOR 40% INJECTION STROKE)*	cc/sec	940	1280	1672	1283	1676	2121
INJECTION SCREW STROKE	mm	320	320	320	360	360	360
SCREW DIAMETER	mm	60	70	80	70	80	90
SCREW L/D RATIO		26.7	22.9	20	25.7	22.5	20
SCREW SPEED	rpm	171	171	171	178	178	178
SCREW TORQUE @ 200 BAR	NM	4275	4275	4275	4989	4989	4989
PLASTICIZING RATE (GPPS) *	gm/sec	39	62	84	65	88	118
NO.OF PYROMETERS (BARREL+NOZZLE)			5+1			5+1	
TOTAL HEAT CAPACITY	KW		39.6			57.9	

CLAMP UNIT			
CLAMP FORCE	Ton	550	550
CLAMP STROKE	mm	920	920
MAXIMUM DAYLIGHT	mm	1820	1820
MINIMUM MOLD HEIGHT	mm	400	400
MAXIMUM MOLD HEIGHT	mm	900	900
PLATEN SIZE (H X V)	mm	1330 x 1300	1330 x 1300
DISTANCE BETWEEN TIE ROD	mm	1000 x 900	1000 x 900
TIE ROD DIAMETER	mm	170	170
EJECTOR STROKE	mm	250	250
EJECTOR FORCE	Ton	12	12
MOLD WEIGHT CAPACITY (MOVING/STAT)	kg	8300 (5530 / 4150) ¹	8300 (5530 / 4150) ¹

GENERAL			
ELECTRIC MOTOR	kW	75 (100)	75 (100)
TOTAL OIL CAPACITY	L	TBD	TBD
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	100	100
CONNECTED LOAD	kW	114.6	132.9
MACHINE DIMENSION (L X W X H)	m	9.15 x 2.6 x 2.9	9.15 x 2.6 x 2.9
MACHINE WEIGHT	kg	31750	33750

¹ Maximum mold weight on each half & combined maximum mold weight

* - with open nozzle



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* - with open nozzle

Features

Clamp

- Proportional Speed Control with Operator Adjustable 5 Opening & 5 Closing Speeds
- Linear Position Transducer for Accurate Clamp Position Control
- Position Based Ramping for Accurate Position Switching, Precise Speed & Pressure Control
- Moving Platen on LM Guides
- Auto Lubrication
- Auto Mold Height Adjustment
- Mold Protect Pressure @ 68 Bar
- Actual Tonnage On Screen
- Clamp try again

Ejector

- Digital Readout Ejector Position
- Proportional Speed Control
- Intermediate Retract Set Point
- 2 Stage Programmable Forward & Retract Speeds
- Knock-Out Bar
- Pulsating Ejector Strokes upto 9 Pulses
- Pause Time between Ejector Forward Profile

Temperature Control

- PID Control Nozzle & Barrel
- High/ Low Temperature Alarms
- Feedthroat Temperature Indication

Additional Features

- Machine / Control Diagnostics
- Drive Diagnostic Screen
- Micro-Processor Control
- Cycle Counter
- Process Control / Alarms
- 32 Keys HMI with LED
- Password Data Entry via Screen
- Print Screen in BMP Format
- Alarm Windows
- Cycle Interrupt / Warning Light
- Servo Motor Operated Fix Gear Pump
- Levelling Pads
- Layin Hopper Magnet
- Oil Preheating
- Semi Auto Purge
- Cold Slug Removal by Extruder / Injection
- Insert & Intrusion Molding
- Set Point Overview Page
- Statistical Process Control (SPC)
- Semi Auto Push Button

- Hour Meter on Electrical Panel
- Oil Level Monitor
- Sprue Break with Limit Switch
- Hydraulic Valve ON / OFF Indication (LED) On Connector
- Filter Element IFR-2-06B-20-10B for Oil Filling
- Hydraulic Solenoid Valve Connector with LED Indicator
- Freely Programmable Cores

Optional Features

- Back Pressure Close Loop
- Jam Bar
- Eject on Fly
- Oil Temperature Control
- Feed Throat Temperature Control
- Hydraulic Core Pull - Single & Double Sequence
- Hydraulic Unscrewing
- Air Eject - Single & Double
- Robot Interface (SPI & Euromap -12 & -67)
- Eject Retract Verification by Limit Switch
- Good / Defective Part Signal
- Part Drop Chute
- Part Drop Detect
- Total & Hourly Basis Power Consumption Display on Screen
- Integrated Hot Runner Controller
- Stand Alone Hot Runner Controller
- Dual Torque Hydro Motor for Screw
- Bimetallic Barrel
- Water Battery & Manifold
- Water Saver Valve for Mold/Pulse Cooling
- Mold Gate - Hydraulic/Pneumatic
- Injection Pressure & Velocity Close Loop
- Gas Assist Injection Interface
- Pneumatic Power Gate - Front
- Extended Daylight
- T-Slot Platens
- Special Application Screw
- Nozzle Shut-Off Valve w/o Parallel Operation (Not for Glass Filled Material)
- Safety Interlock Between Hot Runner & Water Saver Valve through Flow Switch
- Electric UPS for Control
- Electrical Unscrewing
- Extra Power Supply Outlets with Selected Combination
- Dome Lamp 3-Tier, 4-Tier
- Tubelight in Clamp Area
- Latch & Blender Unit Interface
- Surge Suppressor Device at Incoming Supply



Thin Wall Containers



Caps & Closures



Blood Collection Tubes



Syringes

All specifications reflect average values based on typical machine layouts. Actual figures will vary depending on final machine configuration. Performance specifications are based on theoretical data. Photograph may show attachments or accessories, which may not be part of the standard scope of supply. Due to continual improvements, specifications & some components are subject to change without notice.



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