MILACRON®

THE HYDRON ACCUPACK

100-450 TON

THE HYDRON ACCUPACK

GENEROUS MOLD SPACE

- Accommodates Large Molds

CLOSED LOOP PID TEMPERATURE CONTROL

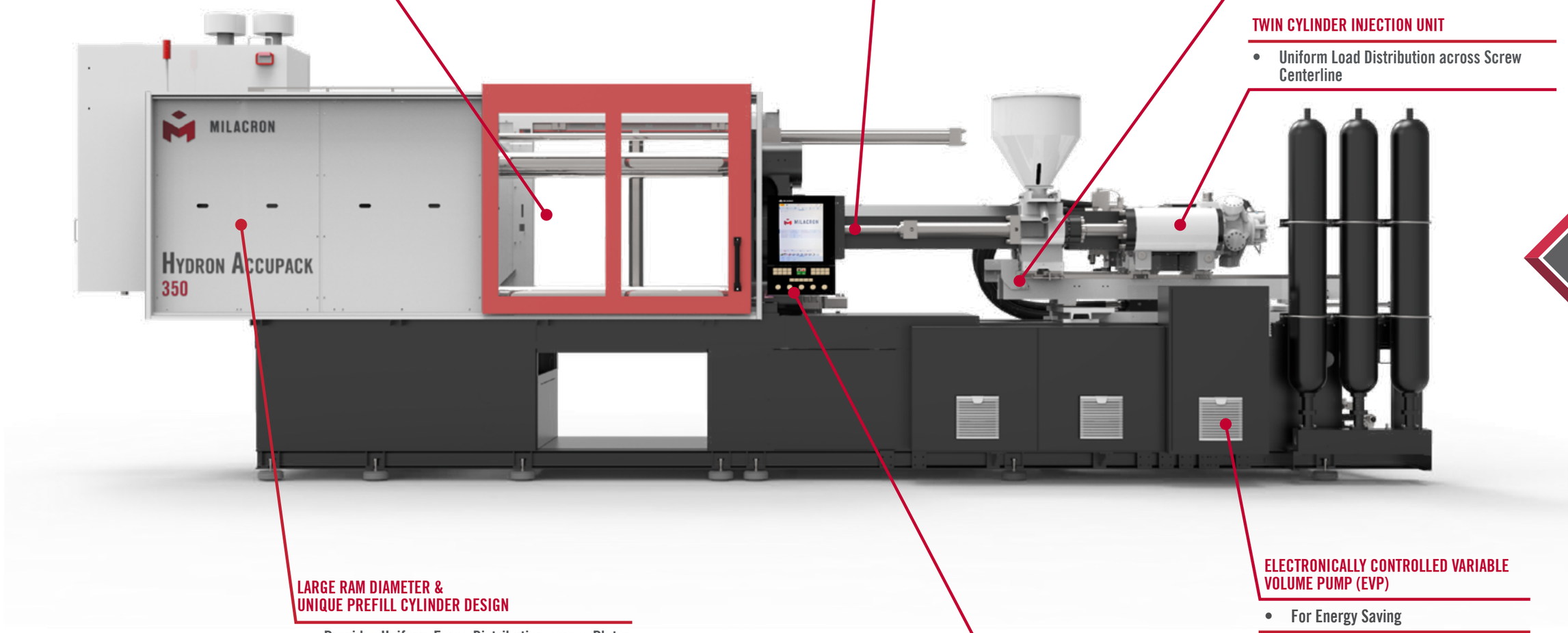
- Provides precise Temperature Control
- Excellent Process Control & Stability

PRECISE LINER GUIDEWAYS

- Frictionless Linear Bearing Guideways Improve The Injection Power & Cylinder Alignment

TWIN CYLINDER INJECTION UNIT

- Uniform Load Distribution across Screw Centerline



LARGE RAM DIAMETER & UNIQUE PREFILL CYLINDER DESIGN

- Provides Uniform Force Distribution across Platen
- Provides Excellent Mold Squareness & Parallelism
- Reduces Mold Wear
- Fast Tonnage Built-up Time

ELECTRONICALLY CONTROLLED VARIABLE VOLUME PUMP (EVP)

- For Energy Saving

EDGE – ADVANCED USER-FRIENDLY HMI CONTROLLER

- 15.6-Inch Full High Definition (FHD) Multi-Touch Capacitive Display
- Faster Processor for Efficiently Handling Critical Applications
- Graphical Representation of Machine Features
- Diagnostic and Fault-Finding Assistance
- Parameter Entry in Absolute Value
- Direct Access Menu Keys
- Ergonomic Layout

THE HYDRON ACCUPACK

Injection Unit Specifications

IU	450	630	970	1540	2290	3470
HYDRON ACCUPACK 100						
HYDRON ACCUPACK 150						
HYDRON ACCUPACK 200						
HYDRON ACCUPACK 250						
HYDRON ACCUPACK 300						
HYDRON ACCUPACK 350						
HYDRON ACCUPACK 450						

Clamp Specifications

MODEL	TONNAGE	PLATEN SIZE (H X V)	TIE BAR SPACING (H X V)	MAX DAYLIGHT
	tons	mm	mm	mm
HYDRON ACCUPACK 100	100	610 X 610	410 X 410	760
HYDRON ACCUPACK 150	150	715 X 715	510 X 510	825
HYDRON ACCUPACK 200	200	820 X 820	560 X 560	950
HYDRON ACCUPACK 250	250	880 X 880	620 X 620	1080
HYDRON ACCUPACK 300	300	990 X 940	700 X 650	1225# / 1375
HYDRON ACCUPACK 350	350	1010 X 1010	710 X 710	1360# / 1660
HYDRON ACCUPACK 450	450	1200 X 1200	830 X 830	1500# / 1850

WITH RAM SPACER

STANDARD FEATURES

CLAMP	
Hollow Headless Ram with Mono Seal & No Piston Rings	●
Large Prefill Designed for Fast Tonnage Build-up	●
Rapid Traverse Cylinders	●
Conical Strain Rod Nuts & Controlled Stress on Tie Rods	●
Adjustable moving Platen Skates	●
Rigid Cast Platens with FEA	●
T-Slot Platens with Tapped Holes (350 & 450 Tons)	●
Adjustable Pressure setting of Closing & Opening Stage	●
Proportional Speed Control with 5 Closing & 5 Opening Speed	●
Adjustable 2 Stage Mold Safety Pressure & 2 Stage Speed	●
Position Based Ramping for Accurate Position Switching	●
Precise Speed & Pressure Control	●
Linear Position Transducer for Accurate Clamp Position Control	●
Sensitive Mold Protection with Try Again Circuit	●
Stage Wise Actual Time Display	●
Insert Molding Program	●
Actual Tonnage Display on Screen	●
Auto Lubrication (300 T & Above)	●
Flash Chrome Plated Ram	●
Rear Door Handle	●
Top Cover on Ram	○
Jam Bar	○
Part Drop Detect for Single Cavity	○
Part Drop Chute	○
T-Slot Platens (100 to 300 Ton)	○
Extended Daylight with Ram Spacer	○

HYDRAULICS	
Electronically Controlled Variable Volume Pump	●
Pump & Motor slide out from Base for Ease of Maintenance	●
Ergonomic Hydraulic Layout for Easy Approach	●
Valves Placed near Actuators for Rapid Response	●
Pre-Heating Circuit for Hydraulic Oil	●
Low Oil Level Audible Alarm & Motor ShutDown	●
Continuous Oil Filtration with 10 Micron Filter	●
Audible Alarm for Filter Clogging	●
Hydraulic Valve On / Off Indication	●
Butter Fly Valve at Pump Suction Line	●
Y Strainer in Heat Exchanger Inlet	●
Gauge Port for all Major Functions	●
Filter Element IFR-2-06B-20-10B for Oil Filling	●

EJECTOR	
Knock-Out Bar for Multipoint Ejection	●
2 Stage Programmable Ejector Forward Profile with Soft Eject	●
Ejector Speed & Pressure adjustable on Screen	●
Linear Transducer for Ejector Position	●
Pulsating Ejector Strokes up to 9 Pulses	●
Intermediate Retract Set Point (Pulse)	●
Ejector Stay Forward & Forward Dwell Timer	●
Center Ejector Rod with Side Ejector Pins (4+1)	●
Pilot Operated Check Valve for Ejector	●
Freely Programmable Core Pull	●
Eject Retract Limit Switch Verification	○
Air Eject - 4 Stage - 2 on Moving Platen & 2 Stationary Platen	●
Parallel Ejection - Ejector on Fly	●
Hydraulic & Pneumatic Core Pull	○

TEMPERATURE CONTROL	
Actual Current Display of Heating Zones	●
Heater Failure & Thermocouple Failure Detection	●
Accurate PID Temperature Control settable on Screen	●
Feed Throat Temperature Indication	●
Weekday Timer for heat on/off	●
Heat Standby	●
Soak Timer for Cold Start Protection	●
High / Low Temperature Alarm	●
Set & Actual Temperature Data with Bar Graph	●
Insulated Heater Band	●
Oil Temperature Control	●
Feed Throat Temperature Control	○
Extra Heating Zone	○

INJECTION	
20 Stage Injection Velocity & 20 Stage Injection Pressure Profile	●
5 Stage Screw Speed & 5 Stage Back Pressure Control (Setting) through Screen	●
Digital setting of Extruder RPM & Digital Read out of Actual RPM	●
Wide Choice of Injection Units with A'-A-B Screw/Barrel Combinations	●
Easy Injection Unit Swivelling	●
Switch Over from Fill to Pack based on Position or Time or Pressure	●
Injection Unit on Linear Guideways for Reduced Frictional Losses	●
Linear Position Transducer for Accurate Injection Position Control	●
Injection Decompression Before/ After Refilling or Both	●
Semi-Auto Purge	●
Intrusion / Flow Mould	●
Cold Slug Removal by Extruder / Injection	●
Aluminum Chequered Plate below Purge Area	●
Different Sprure Beark Options (5 Selections)	●
Injection start, Suck-back& Melt Decompression -Delay Timer	●
Graphically Adjustable Alarm Bands for Injection Pressure	●
Nozzle Contact Force by Pressure Switch	●
Sliding Hopper	●
Auto Screw Protection	●
Injection Axis Close Loop Through High Performance Proportional Valve	●
Barrier Screw	●
Pre-Injection	●
Pneumatic Mold Gate Single Stage - 5/2 Valve with 3700LPM	●
Gas Assisted Injection Interface	○
Bimetallic Barrel / Screw	○
Nozzle Shut Off Valve	○

● - Standard Feature ○ - Optional Feature

STANDARD FEATURES

ADDITIONAL FEATURES	
Levelling Pads	●
UV/OV Monitoring Relay-Voltage Monitor Relay	●
Hour Meter on Electrical Panel	●
Digital Energy Meter on Panel	●
Power on Push Button for Control	●
Dome Lamp 3-Tier	●
Surge Suppressor Device	○
Water Manifold	○
Electric UPS for Control	○
Dome Lamp 4-Tier	○
Latch & Blender Unit Interface	○
Stand Alone Hot Runner Controller	○
Mold Gate - Hydraulic / Pneumatic	○
Water Saver Valve for Mold / Pulse Cooling	○
Extra Power Supply Outlets with Available Combination	○
Water Battery With Temperature Indicator	○
Robot Interface (SPI & Euromap -12 & -67)	○
Electrical / Hydraulic Unscrewing	○
Good / Defective Part Signal	○
M-Powered - IoT Solution	○
OPC-UA Interface	○
Safety Interlock Between Hot Runner & Water Saver Valve through Flow Switch	○
Tubelight in Clamp Area	○

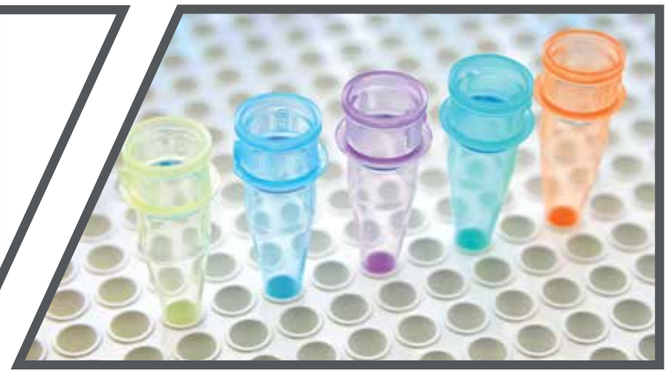
CONTROLS	
More than 80 parameter Monitoring for last 512 cycle with Graphics	●
15.6" FHD Touch Display with function Keys	●
Actual Injection Speed & Pressure Graph Display	●
200 Mold Data Storage	●
Configurable Multilevel Password with Operator's Name	●
Graphical Representation of last 48 Hours Production	●
High/ Low Limit Display for Each Adjustable Parameter	●
I / 0 diagnosis -Analog & Digital	●
Timer Precision in 0.01 Second	●
Change Log Menu: logs last 512 Set Points Changes with Time & Date	●
Process Mode: Functions with its Co-functions on a Single Key Press	●
Maintenance Scheduling	●
Freely Programmable Smart Outputs & Inputs	●
Over View Screen with Graphical Display of Machine Functions	●
Soft Keys for Fast Access of Select Menus	●
Auto shut down	●
Visual & Audible Alarm	●
512 Alarm History with Date & Time Log	●
Axis wise Graphical Cycle time Analysis	●
Batch Counter with option to turn off the Motor	●
Mold Data/ Process Data / Change log saving to External USB device	●
Customized Setup Menu / Set point overview	●
Energy Meter on Screen	●
Statistical Process Control (SPC) with Graphics	●
20 function keys with LEDs	●
Unit Selection (Metric or English)	●
Daily Production Data of last 1 Year	●
Energy Consumption analysis for each axis (Energy display in kWH for every cycle on MMI)	●
Favorite Page - Select frequently used pages & operate from single page	●
Graphical adjustment of Clamp & Extruder Speeds & Pressure	●
Filtering of Alarm - Helps in quick analysis of specific alarm	●
Filtering & sort of Changelog - Helps in quick review / analysis of parameter changes	●
Configurable FlyOut area for viewing frequently used Monitoring Pages	●
No Page more than two click away	●
Set point and actual values shown as absolute values	●
Possibility check on values entered	●
Shift wise Production Counter	●
Alarm help Information	●
Manual in HTML format for help	●
Choice of Multiple Languages	○

● - Standard Feature ○ - Optional Feature

NOTES

APPLICATIONS

- *CAPS & CLOSURES*
- *MEDICAL*
- *PACKAGING*
- *ELECTRONICS*



BEST SUITED *for* IN MOLD LABELLING IML

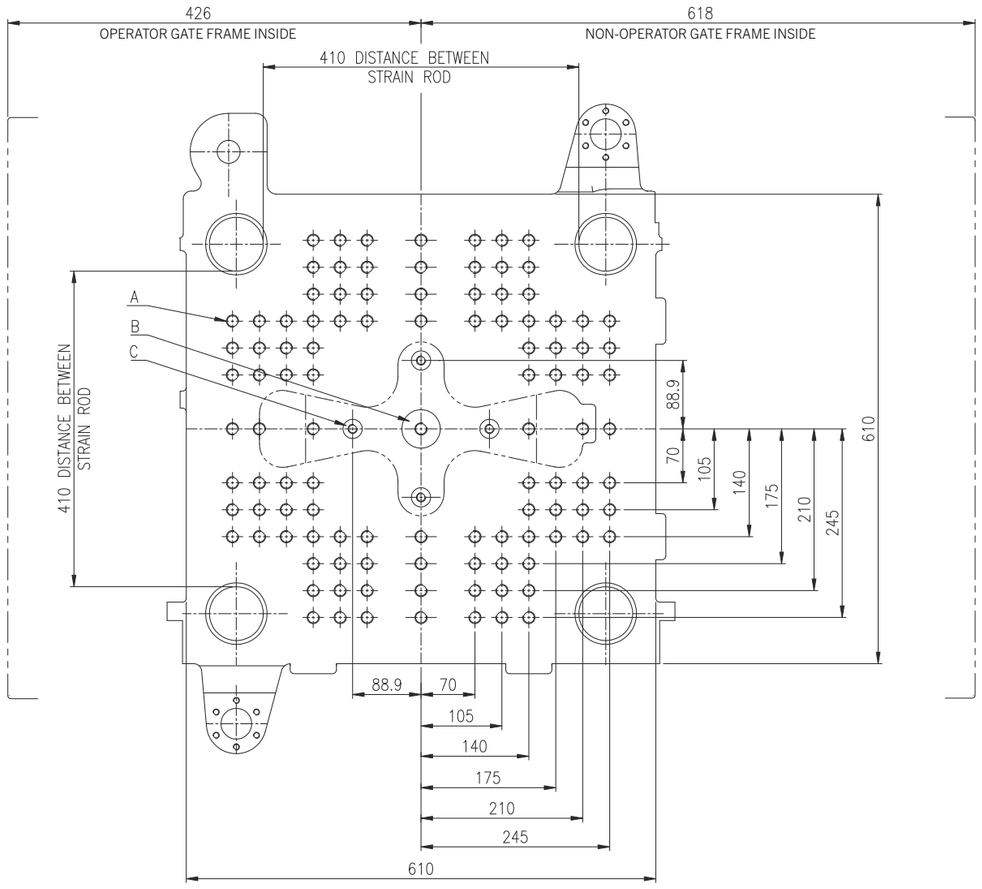
Increased Injection Speed
Easy Integration with Robot
High Productivity

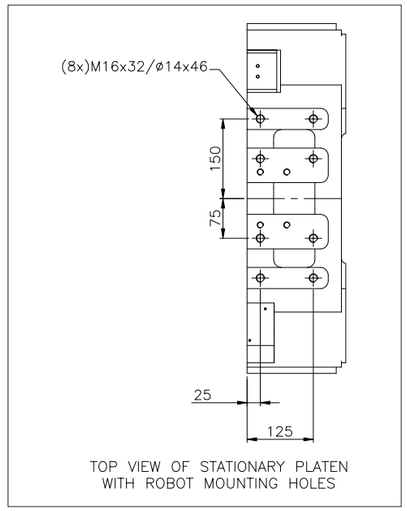
THE HYDRON ACCUPACK

TONNAGE: 100

Injection Unit 450, 630

TECHNICAL SPECIFICATIONS





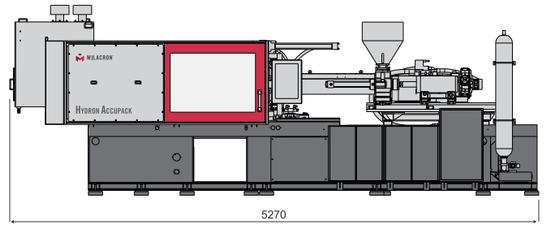
TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

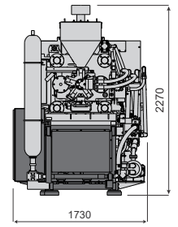
ALL DIMENSIONS ARE IN MM

A M16x40 DEEP (106 HOLES ON MOVING PLATEN)
M16x40 DEEP (108 HOLES ON STATIONARY PLATEN)

B MOVING PLATEN:
Ø50 THRU BORE K/O BAR CENTER HOLE M16 THRU
STATIONARY PLATEN:
Ø100(+0.035/0.00) WITH LOCATING RING
Ø125(+0.040/0.00) WITHOUT LOCATING RING

C Ø27 THRU, (4) HOLES & K/O BAR HOLES M12 THRU (4) NOS.





HYDRON ACCUPACK 100	UNIT	450			630		
	METRIC	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS							
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 (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			15.4		
HOPPER CAPACITY	kg	30			30		
CLAMP UNIT SPECIFICATIONS							
CLAMP FORCE	ton	100			100		
CLAMP STROKE	mm	560			560		
MAXIMUM DAYIGHT	mm	760			760		
MINIMUM MOULD HEIGHT	mm	200			200		
PLATEN SIZE (H X V)	mm	610 X 610			610 X 610		
DISTANCE BETWEEN TIE ROD	mm	410 X 410			410 X 410		
TIE ROD DIAMETER	mm	70			70		
EJECTOR STROKE	mm	125			125		
EJECTOR FORCE	ton	4.5			4.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	1060 (530 / 530)			1060 (530 / 530)		
GENERAL							
ELECTRIC MOTOR	kW (HP)	18.5 (25)			18.5 (25)		
OIL TANK CAPACITY - MAIN	L	315			315		
OIL TANK CAPACITY - PREFILL	L	140			140		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	53			53		
CONNECTED LOAD	kW	29.8			33.9		
MACHINE DIMENSION (L X W X H)	m	5.27 x 1.73 x 2.27			5.27 x 1.73 x 2.27		
MACHINE WEIGHT	kg	4900			5100		

* WITH OPEN NOZZLE

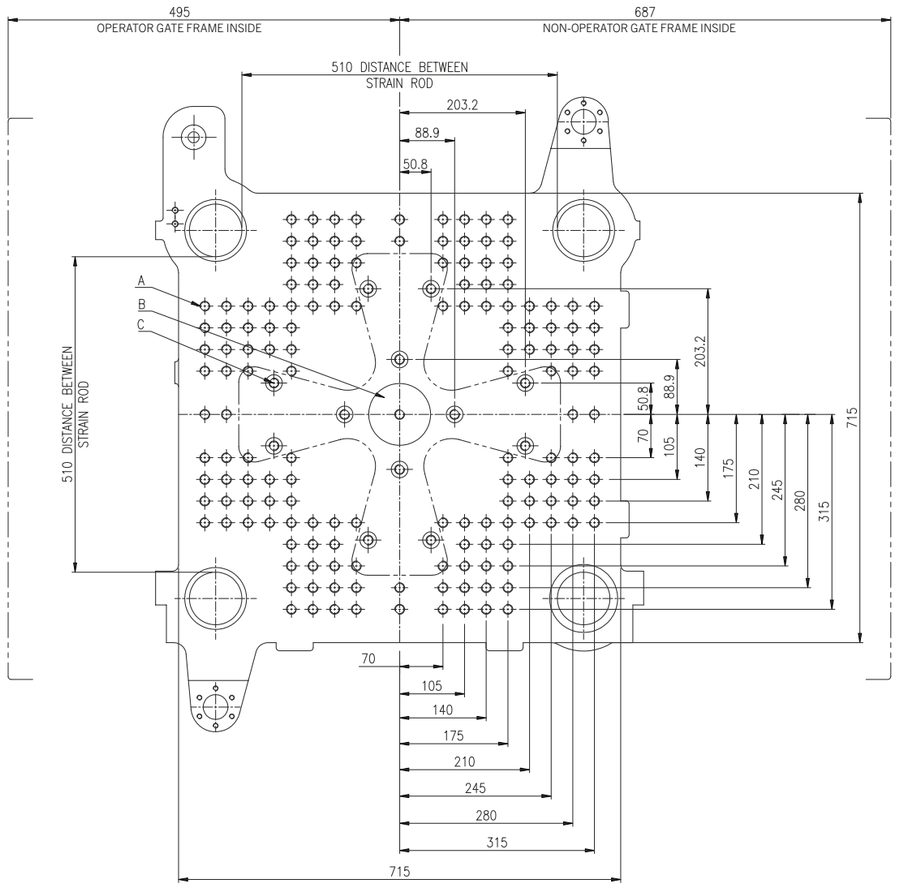
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

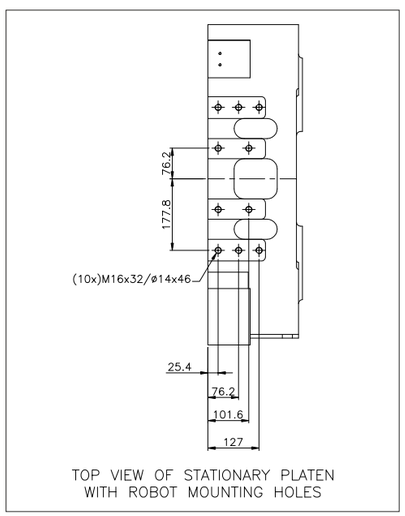
THE HYDRON ACCUPACK

TONNAGE: 150

Injection Unit 450, 630, 970

TECHNICAL SPECIFICATIONS





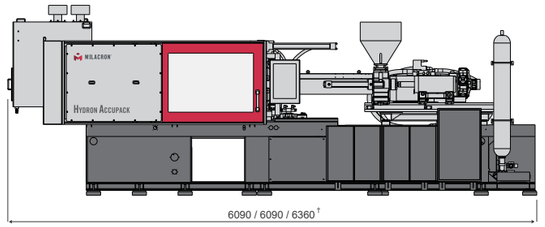
TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

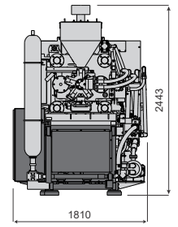
ALL DIMENSIONS ARE IN MM

A M16x40 DEEP (156 HOLES ON MOVING PLATEN)
M16x40 DEEP (176 HOLES ON STATIONARY PLATEN)

B MOVING PLATEN:
Ø100 THRU BORE K/O BAR CENTER HOLE M16x40 MM DEEP
STATIONARY PLATEN:
Ø125(+0.040/0.00) WITH LOCATING RING
Ø160(+0.040/0.00) WITHOUT LOCATING RING

C Ø27 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (12) NOS.





†IU 450 / 630 / 970

HYDRON ACCUPACK 150	UNIT	450			630			970		
	METRIC	A'	A	B	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS										
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 (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	297	297	297
SCREW TORQUE @ 200 BAR	Nm	950	950	950	1080	1080	1080	1239	1239	1239
PLASTICIZING RATE (GPPS) *	gm/sec	18	24	33	19	27	35	33	44	68
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			4+1			4+1		
TOTAL HEAT CAPACITY	kW	11.3			15.4			16.9		
HOPPER CAPACITY	kg	30			30			30		
CLAMP UNIT SPECIFICATIONS										
CLAMP FORCE	ton	150			150			150		
CLAMP STROKE	mm	625			625			625		
MAXIMUM DAYIGHT	mm	825			825			825		
MINIMUM MOULD HEIGHT	mm	200			200			200		
PLATEN SIZE (H X V)	mm	715 X 715			715 X 715			715 X 715		
DISTANCE BETWEEN TIE ROD	mm	510 X 510			510 X 510			510 X 510		
TIE ROD DIAMETER	mm	85			85			85		
EJECTOR STROKE	mm	160			160			160		
EJECTOR FORCE	ton	4.5			4.5			4.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	2000 (1000 / 1000)			2000 (1000 / 1000)			2000 (1000 / 1000)		
GENERAL										
ELECTRIC MOTOR	kW (HP)	22 (30)			22 (30)			30 (40)		
OIL TANK CAPACITY - MAIN	L	395			395			395		
OIL TANK CAPACITY - PREFILL	L	180			180			180		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	53			53			130		
CONNECTED LOAD	kW	33.3			37.4			46.9		
MACHINE DIMENSION (L X W X H)	m	6.09 X 1.81 X 2.43			6.09 X 1.81 X 2.43			6.09 X 1.81 X 2.43		
MACHINE WEIGHT	kg	7400			7700			7900		

* WITH OPEN NOZZLE

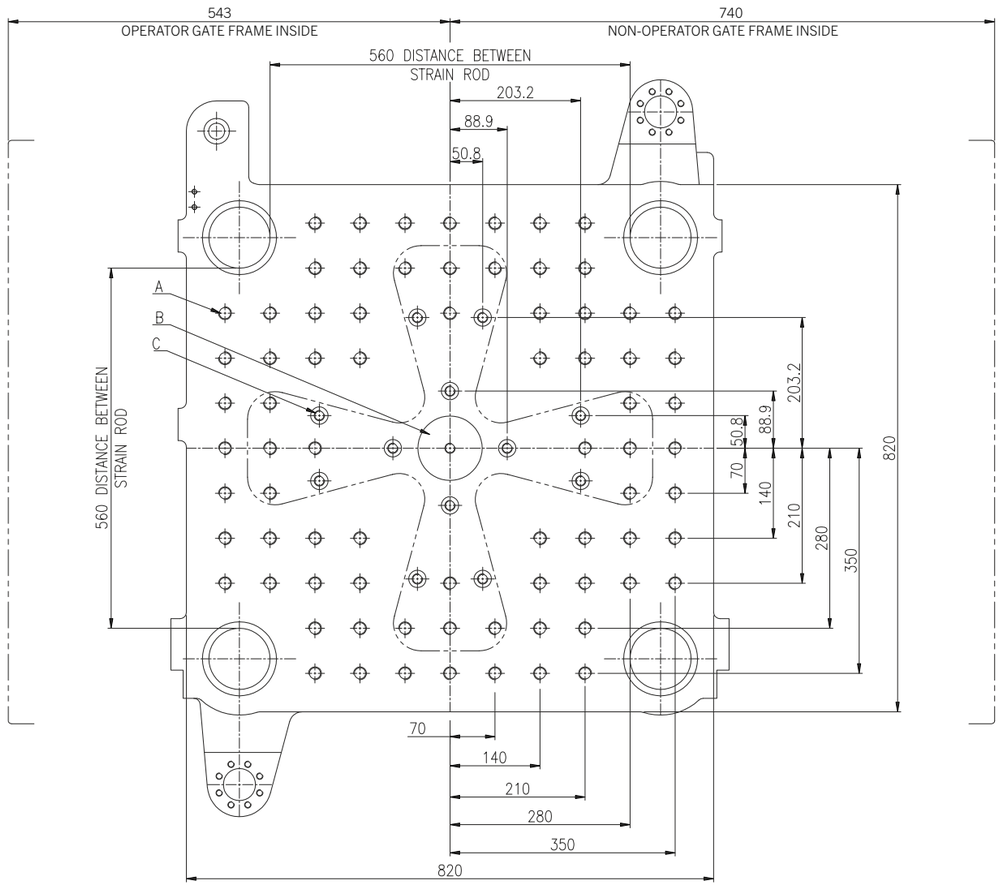
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

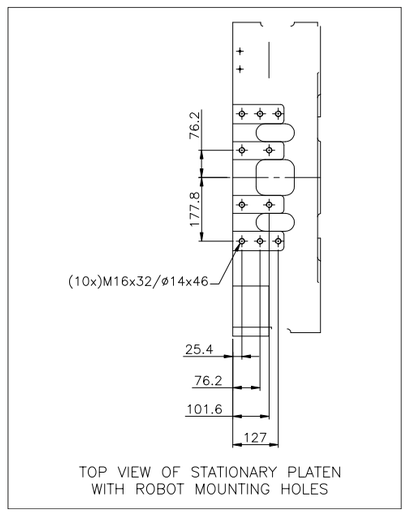
THE HYDRON ACCUPACK

TONNAGE: 200

Injection Unit 630, 970, 1540

TECHNICAL SPECIFICATIONS





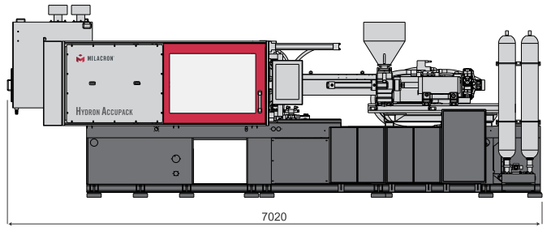
TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

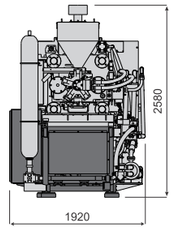
ALL DIMENSIONS ARE IN MM

A M20x50 DEEP (76 HOLES ON MOVING PLATEN)
M20x50 DEEP (84 HOLES ON STATIONARY PLATEN)

B MOVING PLATEN:
Ø100 THRU BORE K/O BAR CENTER HOLE M16x40 MM DEEP
STATIONARY PLATEN:
Ø125(+0.040/0.00) WITH LOCATING RING
Ø160(+0.040/0.00) WITHOUT LOCATING RING

C Ø27 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (12) NOS.





HYDRON ACCUPACK 200	UNIT	630			970			1540		
	METRIC	A'	A	B	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS										
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 (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	347	347	318	284	284	273
SCREW TORQUE @ 200 BAR	Nm	1080	1080	1080	1239	1239	1239	2185	2185	2185
PLASTICIZING RATE (GPPS) *	gm/sec	25	34	46	39	52	73	42	65	100
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			4+1			5+1		
TOTAL HEAT CAPACITY	kW	15.4			16.9			24.9		
HOPPER CAPACITY	kg	30			30			60		
CLAMP UNIT SPECIFICATIONS										
CLAMP FORCE	ton	200			200			200		
CLAMP STROKE	mm	750			750			750		
MAXIMUM DAYIGHT	mm	950			950			950		
MINIMUM MOULD HEIGHT	mm	200			200			200		
PLATEN SIZE (H X V)	mm	820 X 820			820 X 820			820 X 820		
DISTANCE BETWEEN TIE ROD	mm	560 X 560			560 X 560			560 X 560		
TIE ROD DIAMETER	mm	95			95			95		
EJECTOR STROKE	mm	160			160			160		
EJECTOR FORCE	ton	7.5			7.5			7.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	2540 (1270 / 1270)			2540 (1270 / 1270)			2540 (1270 / 1270)		
GENERAL										
ELECTRIC MOTOR	kW (HP)	37(50)			37(50)			45 (60)		
OIL TANK CAPACITY - MAIN	L	565			565			565		
OIL TANK CAPACITY - PREFILL	L	345			345			345		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	180			180			180		
CONNECTED LOAD	kW	52.4			53.9			69.9		
MACHINE DIMENSION (L X W X H)	m	7.02 x 1.92 x 2.58			7.02 x 1.92 x 2.58			7.02 x 1.92 x 2.58		
MACHINE WEIGHT	kg	9000			9300			9800		

* WITH OPEN NOZZLE

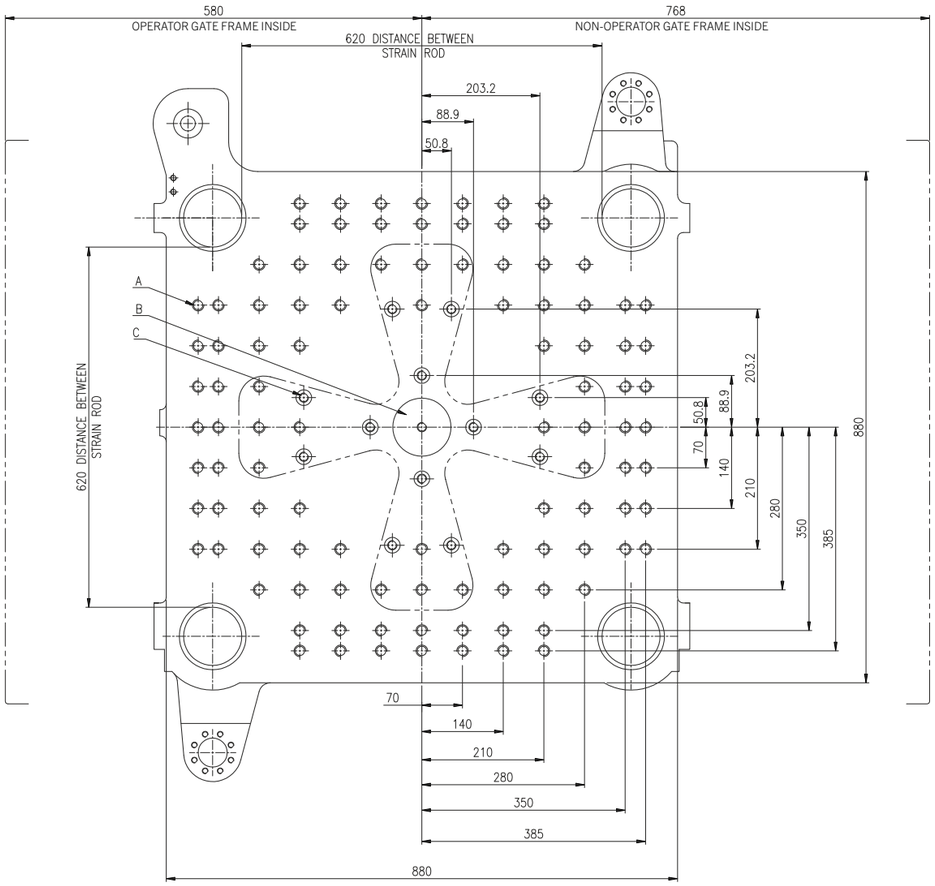
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

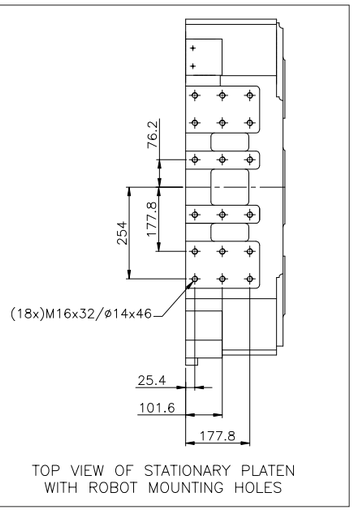
THE HYDRON ACCUPACK

TONNAGE: 250

Injection Unit 970, 1540, 2290

TECHNICAL SPECIFICATIONS





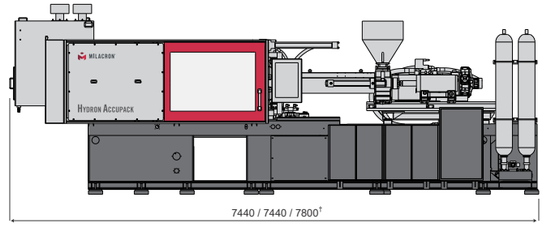
TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

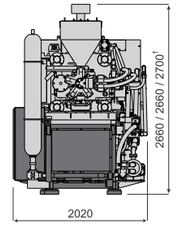
ALL DIMENSIONS ARE IN MM

A M20x50 DEEP (104 HOLES ON MOVING PLATEN)
M20x50 DEEP (112 HOLES ON STATIONARY PLATEN)

B MOVING PLATEN:
Ø100 THRU BORE K/O BAR CENTER HOLE M16x40 MM DEEP
STATIONARY PLATEN:
Ø125(+0.040/0.00) WITH LOCATING RING
Ø160(+0.040/0.00) WITHOUT LOCATING RING

C Ø27 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (12) NOS.





†IU 970 / 1540 / 2290

HYDRON ACCUPACK 250	UNIT	970			1540			2290		
	METRIC	A'	A	B	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS										
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 (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	340	340	318	284	284	273	187	187	187
SCREW TORQUE @ 200 BAR	Nm	1239	1239	1239	2185	2185	2185	3902	3902	3902
PLASTICIZING RATE (GPPS) *	gm/sec	38	51	73	42	65	100	43	68	93
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			5+1			5+1		
TOTAL HEAT CAPACITY	kW	16.9			24.9			39.6		
HOPPER CAPACITY	kg	30			60			143		
CLAMP UNIT SPECIFICATIONS										
CLAMP FORCE	ton	250			250			250		
CLAMP STROKE	mm	830			830			830		
MAXIMUM DAYIGHT	mm	1080			1080			1080		
MINIMUM MOULD HEIGHT	mm	250			250			250		
PLATEN SIZE (H X V)	mm	880 X 880			880 X 880			880 X 880		
DISTANCE BETWEEN TIE ROD	mm	620 X 620			620 X 620			620 X 620		
TIE ROD DIAMETER	mm	100			100			100		
EJECTOR STROKE	mm	160			160			160		
EJECTOR FORCE	ton	7.5			7.5			7.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	3530 (1765 / 1765)			3530 (1765 / 1765)			3530 (1765 / 1765)		
GENERAL										
ELECTRIC MOTOR	kW (HP)	45 (60)			45 (60)			55 (75)		
OIL TANK CAPACITY - MAIN	L	730			730			730		
OIL TANK CAPACITY - PREFILL	L	435			435			435		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	180			180			220		
CONNECTED LOAD	kW	61.9			69.9			94.6		
MACHINE DIMENSION (L X W X H)	m	7.44 x 2.02 x 2.66			7.44 x 2.02 x 2.66			7.80 x 2.02 x 2.70		
MACHINE WEIGHT	kg	10700			11100			12300		

* WITH OPEN NOZZLE

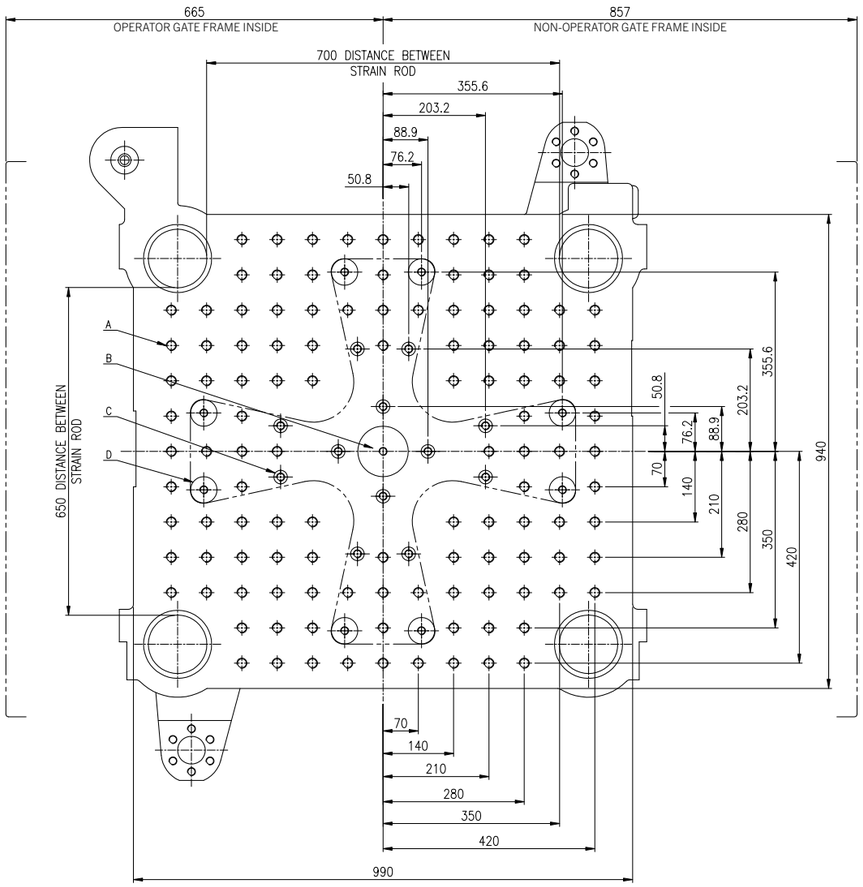
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

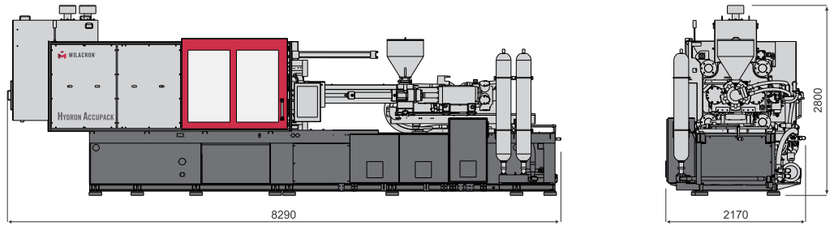
THE HYDRON ACCUPACK

TONNAGE: 300

Injection Unit 970, 1540, 2290

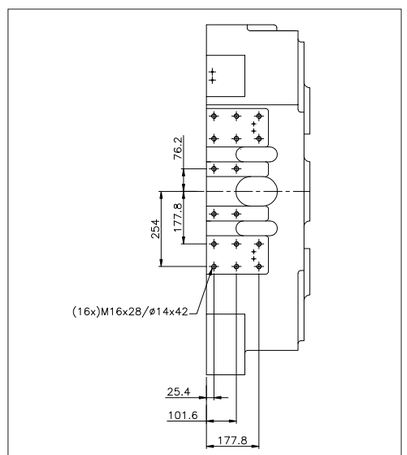
TECHNICAL SPECIFICATIONS





HYDRON ACCUPACK 300	UNIT	970			1540			2290		
	METRIC	A'	A	B	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS										
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 (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	340	340	318	284	284	273	187	187	187
SCREW TORQUE @ 200 BAR	Nm	1239	1239	1239	2185	2185	2185	3902	3902	3902
PLASTICIZING RATE (GPPS) *	gm/sec	38	51	73	42	65	100	43	68	93
NO.OF PYROMETERS (BARREL+NOZZLE)		4+1			5+1			5+1		
TOTAL HEAT CAPACITY	kW	16.9			24.9			39.6		
HOPPER CAPACITY	kg	30			60			143		
CLAMP UNIT SPECIFICATIONS										
CLAMP FORCE	ton	300			300			300		
CLAMP STROKE	mm	975			975			975		
MAXIMUM DAYIGHT	mm	1225# / 1375			1225# / 1375			1225# / 1375		
MINIMUM MOULD HEIGHT	mm	250# / 400			250# / 400			250# / 400		
PLATEN SIZE (H X V)	mm	990 X 940			990 X 940			990 X 940		
DISTANCE BETWEEN TIE ROD	mm	700 X 650			700 X 650			700 X 650		
TIE ROD DIAMETER	mm	115			115			115		
EJECTOR STROKE	mm	200			200			200		
EJECTOR FORCE	ton	7.5			7.5			7.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	3900 (1950 / 1950)			3900 (1950 / 1950)			3900 (1950 / 1950)		
GENERAL										
ELECTRIC MOTOR	kW (HP)	45 (60)			45 (60)			55 (75)		
OIL TANK CAPACITY - MAIN	L	740			740			740		
OIL TANK CAPACITY - PREFILL	L	555			555			555		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	220			220			220		
CONNECTED LOAD	kW	61.9			69.9			94.6		
MACHINE DIMENSION (L X W X H)	m	8.29 x 2.17 x 2.80			8.29 x 2.17 x 2.80			8.29 x 2.17 x 2.80		
MACHINE WEIGHT	kg	14200			14600			15600		

* WITH OPEN NOZZLE
# With 150 mm Ram Spacer



TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

ALL DIMENSIONS ARE IN MM

A M20x50 DEEP (112 HOLES ON MOVING PLATEN)
M20x50 DEEP (120 HOLES ON STATIONARY PLATEN)

B MOVING PLATEN:
Ø100 THRU BORE K/O BAR CENTER HOLE M16x40 MM DEEP
STATIONARY PLATEN:
Ø160(+0.040/0.00) WITH LOCATING RING
Ø200(+0.040/0.00) WITHOUT LOCATING RING

C Ø27 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (20) NOS.

D Ø52.40 THRU, (8) HOLES

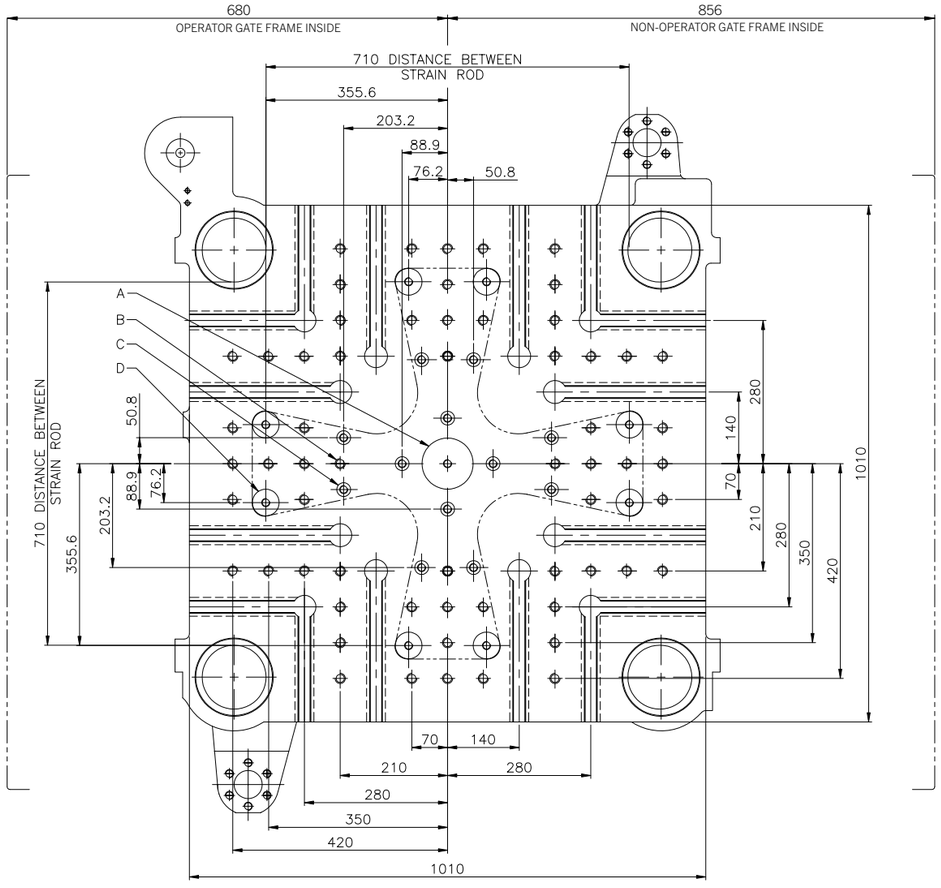
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

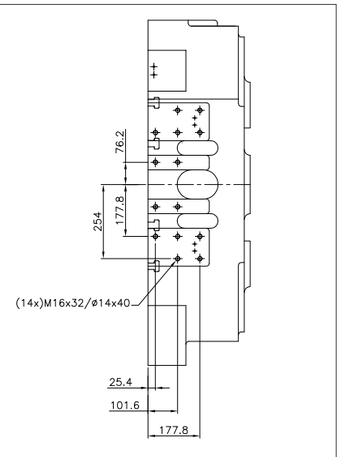
THE HYDRON ACCUPACK

TONNAGE: 350

Injection Unit 1540, 2290

TECHNICAL SPECIFICATIONS





TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

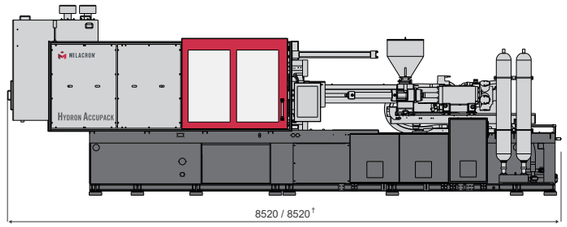
ALL DIMENSIONS ARE IN MM

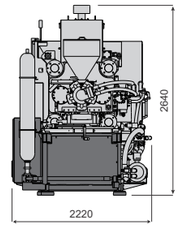
A MOVING PLATEN: Ø100 THRU BORE
K/O BAR CENTER HOLE M16x40 DEEP
STATIONARY PLATEN:
Ø160(+0.04/0.00) WITH LOCATING RING
Ø200(0.046/0.00) WITHOUT LOCATING RING

B M20x40 DEEP (60 HOLES ON MOVING PLATEN)
M20x40 DEEP (68 HOLES ON STATIONARY PLATEN)

C Ø27 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (20) NOS

D Ø52.4 THRU, (8) HOLES





†IU 1540 / 2290

HYDRON ACCUPACK 350	UNIT	1540			2290		
	METRIC	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS							
INJECTION CAPACITY MAX. (GPPS)	gms	523	753	1025	861	1172	1530
THEORETICAL DISPLACEMENT	cc	550	792	1078	905	1232	1608
INJECTION PRESSURE MAX.	bar	2236	1941	1426	2238	1856	1421
INJECTION RATE (40% INJECTION STROKE) *	cc/sec	654	942	1282	940	1280	1672
INJECTION SCREW STROKE	mm	280	280	280	320	320	320
SCREW DIAMETER	mm	50	60	70	60	70	80
SCREW L/D RATIO		28	23.3	20	26.7	22.9	20
SCREW SPEED	rpm	284	284	273	187	187	187
SCREW TORQUE @ 200 BAR	Nm	2185	2185	2185	3902	3902	3902
PLASTICIZING RATE (GPPS) *	gm/sec	42	65	100	43	68	93
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1			5+1		
TOTAL HEAT CAPACITY	kW	24.9			39.6		
HOPPER CAPACITY	kg	60			143		
CLAMP UNIT SPECIFICATIONS							
CLAMP FORCE	ton	350			350		
CLAMP STROKE	mm	1060			1060		
MAXIMUM DAYIGHT	mm	1360# / 1660			1360# / 1660		
MINIMUM MOULD HEIGHT	mm	300# / 600			300# / 600		
PLATEN SIZE (H X V)	mm	1010 X 1010			1010 X 1010		
DISTANCE BETWEEN TIE ROD	mm	710 X 710			710 X 710		
TIE ROD DIAMETER	mm	125			125		
EJECTOR STROKE	mm	200			200		
EJECTOR FORCE	ton	7.5			7.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	4800 (2400 / 2400)			4800 (2400 / 2400)		
GENERAL							
ELECTRIC MOTOR	kW (HP)	45 (60)			55 (75)		
OIL TANK CAPACITY - MAIN	L	740			740		
OIL TANK CAPACITY - PREFILL	L	680			680		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	220			220		
CONNECTED LOAD	kW	69.9			94.6		
MACHINE DIMENSION (L X W X H)	m	8.52 x 2.22 x 2.64			8.52 x 2.22 x 2.64		
MACHINE WEIGHT	kg	15100			16100		

* WITH OPEN NOZZLE
# With 300 mm Ram Spacer

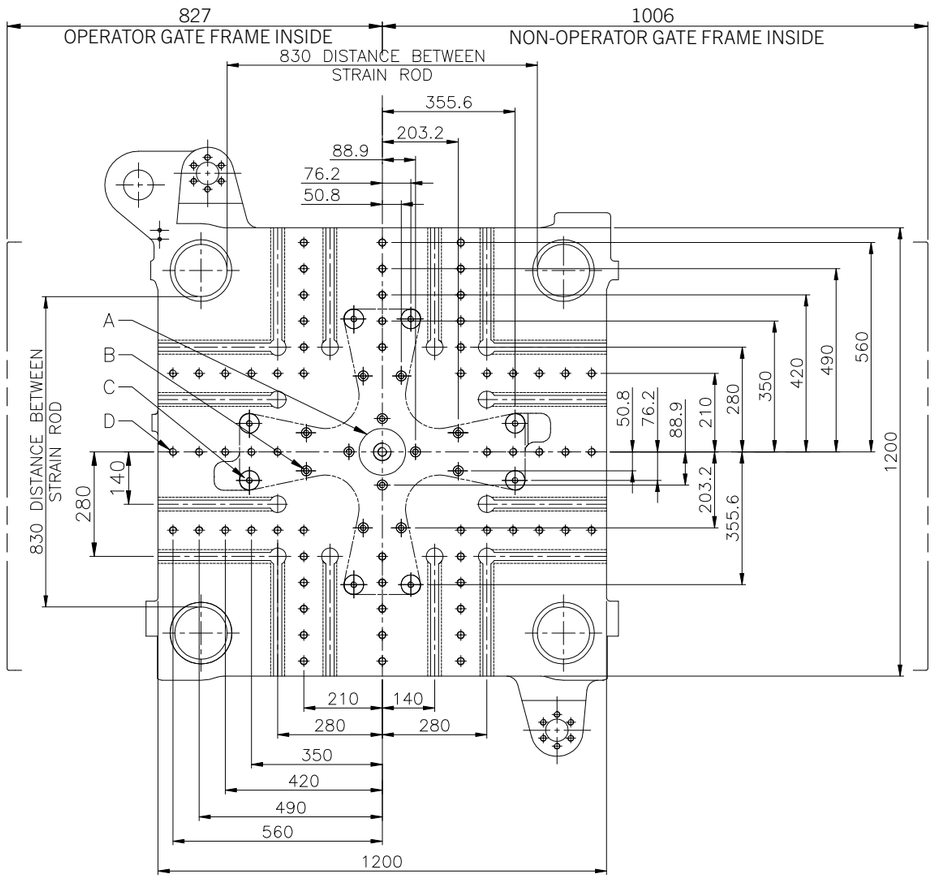
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

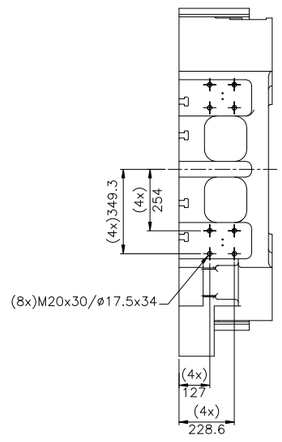
THE HYDRON ACCUPACK

TONNAGE: 450

Injection Unit 2290, 3470

TECHNICAL SPECIFICATIONS





TOP VIEW OF STATIONARY PLATEN
WITH ROBOT MOUNTING HOLES

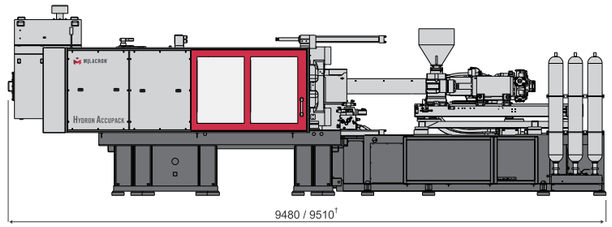
ALL DIMENSIONS ARE IN MM

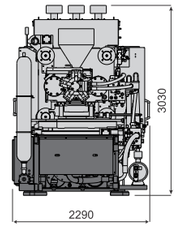
A MOVING PLATEN: Ø125 THRU BORE
K/O BAR CENTER HOLE M24x40 MM DEEP
STATIONARY PLATEN:
Ø160(+0.040/0.00) WITH LOCATING RING
Ø200(+0.046/0.00) WITHOUT LOCATING RING

B Ø27 THRU, (12) HOLES & K/O BAR HOLES M16x40 DEEP (20) NOS.

C Ø52.40 THRU, (8) HOLES

D M20x40 DEEP (64) HOLES





†IU 2290 / 3470

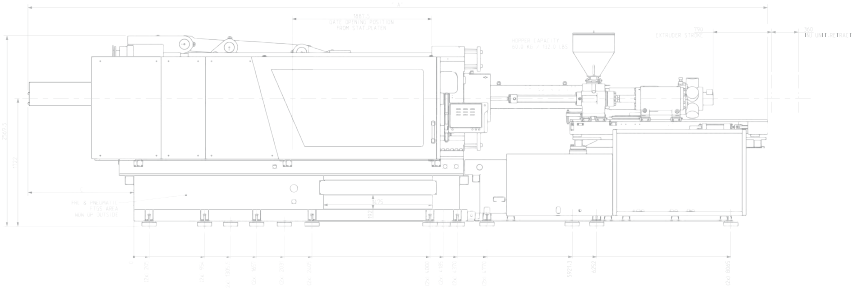
HYDRON ACCUPACK 450	UNIT	2290			3470		
	METRIC	A'	A	B	A'	A	B
INJECTION UNIT SPECIFICATIONS							
INJECTION CAPACITY MAX. (GPPS)	gms	861	1172	1530	1318	1722	2179
THEORETICAL DISPLACEMENT	cc	905	1232	1608	1385	1810	2290
INJECTION PRESSURE MAX.	bar	2238	1856	1421	2289	1917	1515
INJECTION RATE (40% INJECTION 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	187	187	187	178	178	178
SCREW TORQUE @ 200 BAR	Nm	3902	3902	3902	4989	4989	4989
PLASTICIZING RATE (GPPS) *	gm/sec	43	68	93	65	88	118
NO.OF PYROMETERS (BARREL+NOZZLE)		5+1			5+1		
TOTAL HEAT CAPACITY	kW	39.6			57.9		
HOPPER CAPACITY	kg	143			143		
CLAMP UNIT SPECIFICATIONS							
CLAMP FORCE	ton	450			450		
CLAMP STROKE	mm	1100			1100		
MAXIMUM DAYIGHT	mm	1500# / 1850			1500# / 1850		
MINIMUM MOULD HEIGHT	mm	400# / 750			400# / 750		
PLATEN SIZE (H X V)	mm	1200 X 1200			1200 X 1200		
DISTANCE BETWEEN TIE ROD	mm	830 X 830			830 X 830		
TIE ROD DIAMETER	mm	140			140		
EJECTOR STROKE	mm	200			200		
EJECTOR FORCE	ton	11.5			11.5		
MOULD WEIGHT CAPACITY (STAT. / MOVING)	kg	6850 (3425 / 3425)			6850 (3425 / 3425)		
GENERAL							
ELECTRIC MOTOR	kW (HP)	55 (75)			75 (100)		
OIL TANK CAPACITY - MAIN	L	945			1040		
OIL TANK CAPACITY - PREFILL	L	640			640		
WATER REQUIREMENT (INLET TEMP. 29°C)	lpm	220			230		
CONNECTED LOAD	kW	94.6			132.9		
MACHINE DIMENSION (L X W X H)	m	9.48 x 2.29 x 3.03			9.51 x 2.29 x 3.03		
MACHINE WEIGHT	kg	22500			23500		

* WITH OPEN NOZZLE
# With 350 mm Ram Spacer

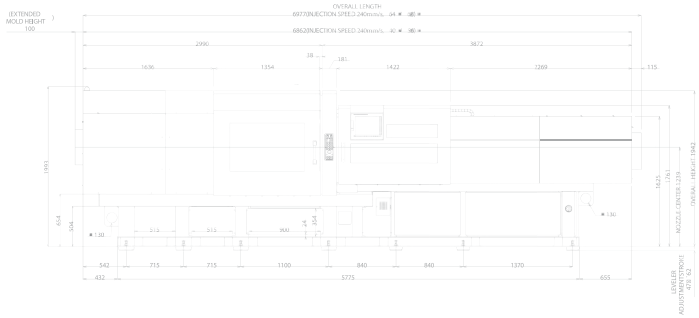
All machine dimensions and specifications are subject to change. Values are for reference only. These values are for standard machine power.

NOTES

NOTES



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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