



MILACRON®

THE Q-SERIES



110-550

SERVO HYDRAULIC

THE Q-SERIES

110-550

Economical performance in a comprehensive package. The Q-Series offers an energy efficient servo hydraulic package to deliver quality parts. The Q-Series is bundled with features that exceed expectations at this price-point in the marketplace. The robust Q-Series offers a clamp unit with increased space for mould installation, longer clamp and ejector strokes as well as higher ejector force. All of these features are delivered in a compact machine footprint.

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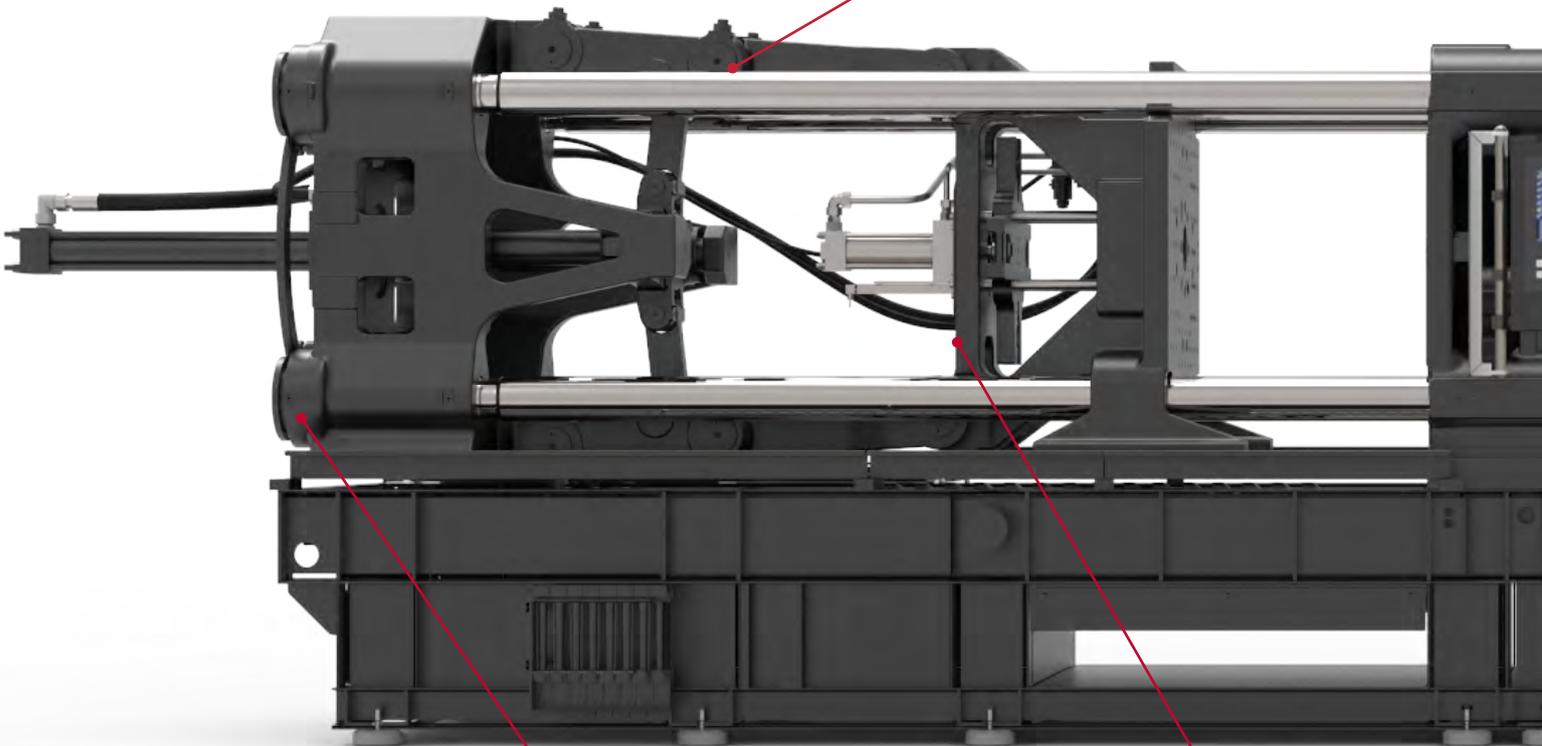
THE CAPABLE Q-SERIES, WITH ITS SERVO-POWERED HYDRAULIC DOUBLE TOGGLE OFFERS SOME OF THE BEST TECHNICAL SPECIFICATIONS AS WELL AS VERSATILITY, DURABILITY, PRECISION AND PRODUCTIVITY.

- Ⓜ An energy efficient hybrid machine powered by a robust servo system.
- Ⓜ Exceptional toggle kinematics offer a smooth and quick clamp velocity profile.
- Ⓜ The stiff construction of the machine base and precise control of the clamping unit allow a dramatic reduction in machine vibrations.
- Ⓜ Enhanced optional applications such as stack moulds, extended daylight with longer tie-bars, intrusion as well as increasing the height of the machine bed.
- Ⓜ Innovative platen design ensures uniform load distribution across the mould face.
- Ⓜ Designed for quick mould changes with an advanced auto die height setup and inter-changeable mould files from similar machines.
- Ⓜ The precise platen parallelism guarantees reduced wear on the mould and machine.
- Ⓜ With a choice of 8 clamp tonnages and 6 variations of injection unit sizes, the Q-Series offers a wide range of operational capacity.



TOGGLE DESIGN

- Improved clamp speeds and reduced installation footprint
- Durable 5-point double toggle system
- The clamping platens allow a wide variety of mould tools to be installed (see specification tables)
- The clamp tonnage can be set as low as 30% of the maximum
- Automatic central lubrication of critical toggle components
- Grease-free mould area



DIE HEIGHT MECHANISM

- Accurate, repeatable and precise adjustment using stroke transducers
- Simple operation using the Mosaic G3 control
- Robust mechanical adjustment components guarantee precise mould position during production

EJECTOR

- Optimised ejector stroke and force
- SPI-Ejector drilling pattern
- Multi-stage speed and pressure profiles including multi-stroke

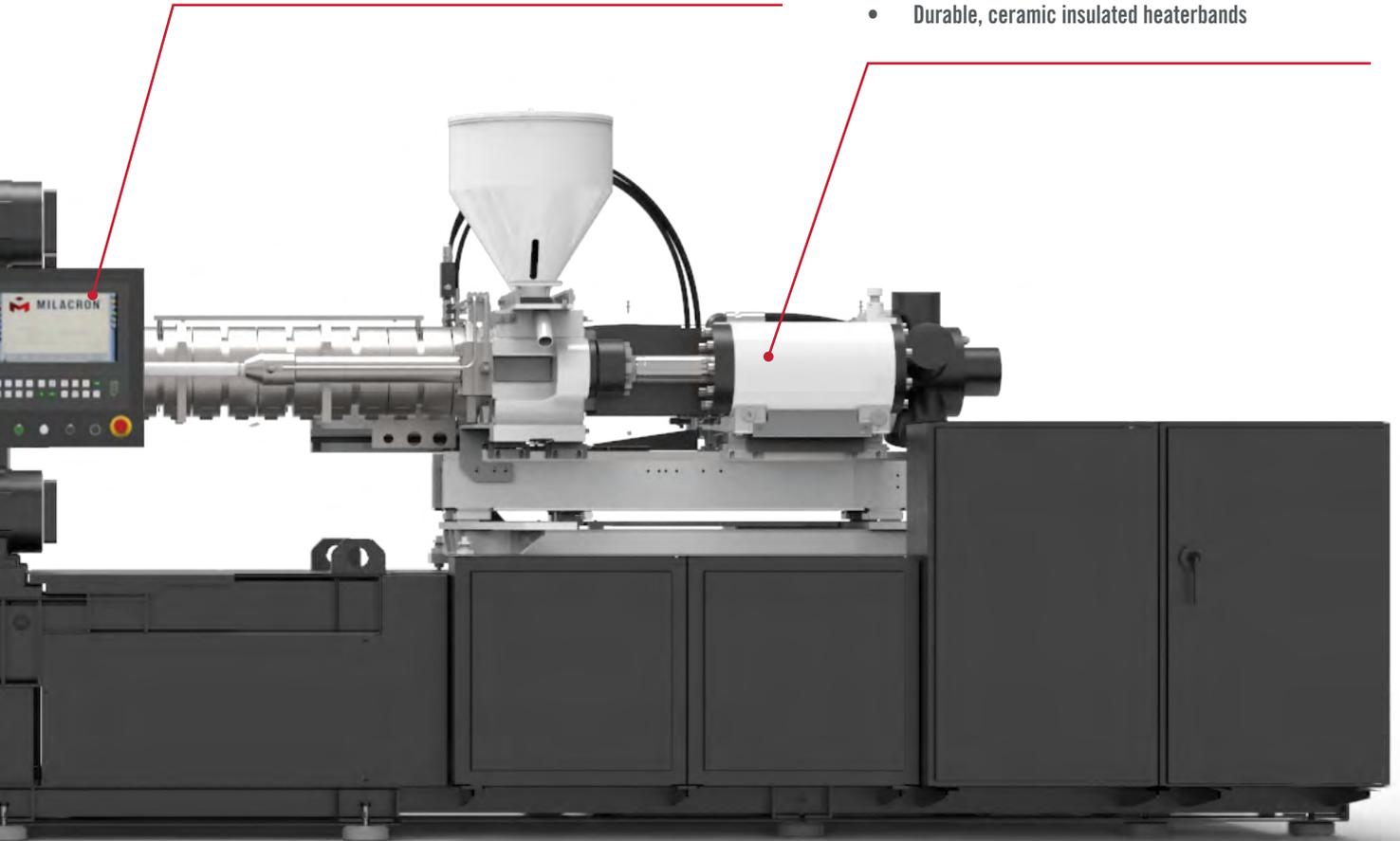
**OFFERS THE HIGHEST PERFORMANCE,
PRECISION, AND FLEXIBILITY.**

MOSAIC G3 CONTROL

- 15 Inch colour display
- Real-Time energy usage monitor
- Internal storage for up-to 500 mould data files
- Freely programmable core-pulling movements
- Ergonomic design with adjustable height and swing arm positioning
- Graphical and tabulated process monitoring
- EUROMAP 67 Robot Interface
- Configurable inputs and outputs

TWIN SIDE-BY-SIDE CYLINDER INJECTION AXIS

- Uniform load distribution across the screw centreline
- Swivelling injection unit for rapid screw changes
- Precise linear bearings for optimal alignment of screw and barrel
- Compact hose routing for optimised hydraulic flow and reduced machine footprint
- Durable, ceramic insulated heaterbands



INCREASED MOULD LIFESPAN

The rigid construction of the machine frame and clamp unit allows:

- Installation of bigger and heavier mould tools
- Ideal platen parallelism at all times



M-POWERED

MILACRON M-POWERED

- Designed to fully utilise our M-Powered Suite of Connectivity products
- Reduce failures, improve uptime and OEE
- Remote monitoring capabilities

Q-SERIES

The latest in Milacron's low-to-mid tonnage range of injection moulding machines. The NEW high-performance double toggle Q-Series product line offers a 5 point double toggle machine with enhanced productivity, performance, and precision.

A CHOICE OF DIFFERENT INJECTION UNITS

- A-B-C Screw and barrel combination
- Twin side-by-side parallel injection cylinders give uniform load distribution across the screw centreline
- Precision linear guides for the injection unit
- Easy maintenance thanks to the swivelling barrel

INJECTION UNIT SPECIFICATONS

INJECTION UNIT	450	630	970	1540	2290	3470	4880
Q 110							
Q 150							
Q 180							
Q 230							
Q 280							
Q 350							
Q 450							
Q 550							

CLAMP SPECIFICATIONS

MACHINE SIZE	CLAMP FORCE	PLATEN DIMENSIONS	TIE-BAR SPACING	MAX DAYLIGHT	MIN / MAX MOULD INST. HEIGHT
	kN	mm (H x V)	mm	mm	mm
Q 110	1100	690 X 645	480 x 435	900	150 / 520
Q 150	1500	780 x 740	550 x 510	1060	200 / 600
Q 180	1800	810 x 770	575 x 525	1100	200 / 600
Q 230	2300	920 x 820	660 x 560	1260	200 / 710
Q 280	2800	990 x 940	710 x 660	1400	250 / 750
Q 350	3500	1120 x 1035	810 x 725	1520	300 / 800
Q 450	4500	1245 x 1200	875 x 830	1670	350 / 820
Q 550	5500	1330 x 1300	1000 x 900	1820	400 / 900

APPLICATIONS

Thanks to the choice of a servo motor as the drive unit for the hydraulic components, the Q-Series is incredibly energy efficient, offers exceptional repeatability, generous mould installation space, increased maximum mould weights and outstanding dry cycle times to meet and exceed the demands of all the major industry market segments.

GOODS

- TECHNICAL PARTS
- MEDICAL

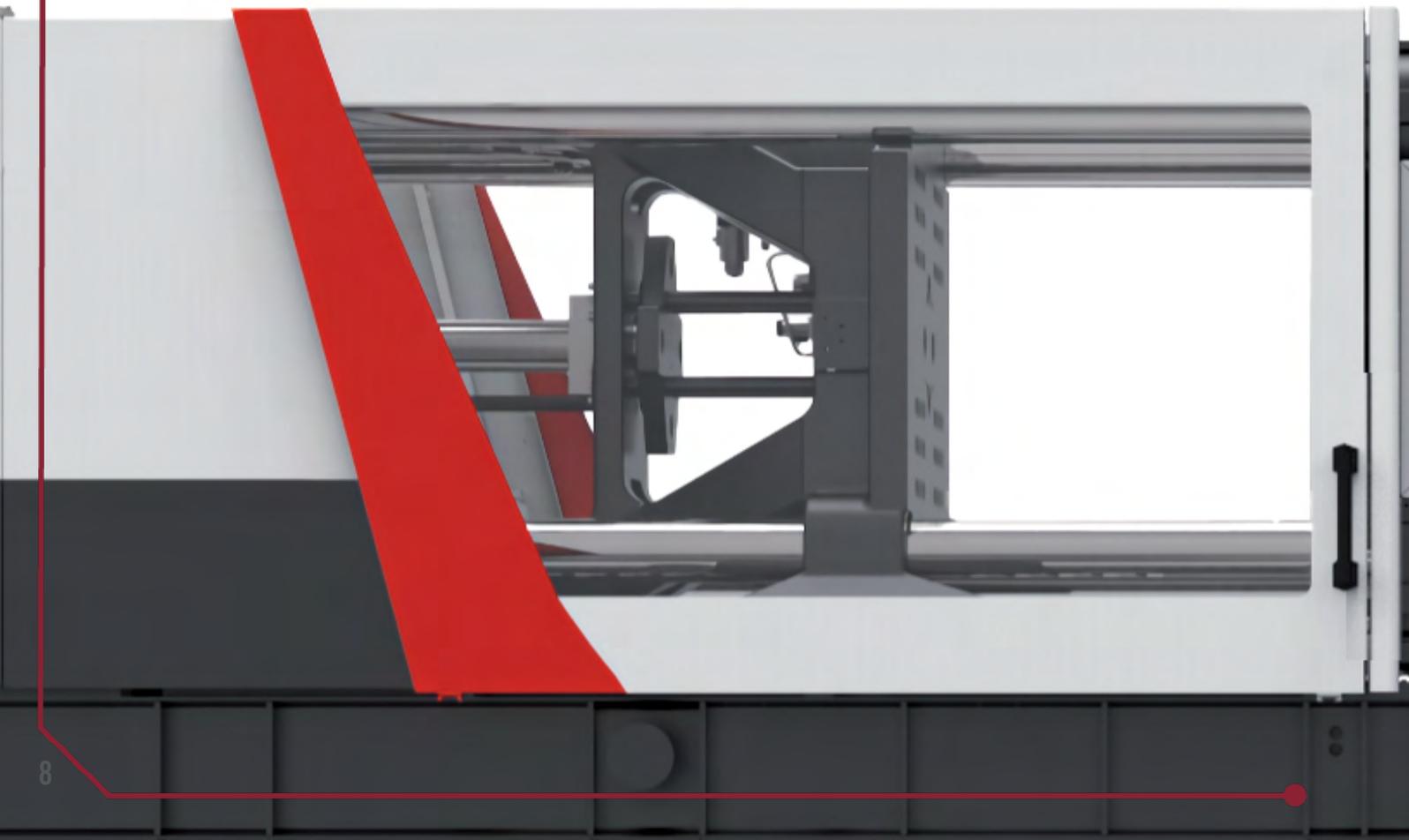
- PACKAGING
- CONSUMER

- AUTOMOTIVE
- ELECTRONICS



CLAMP UNIT

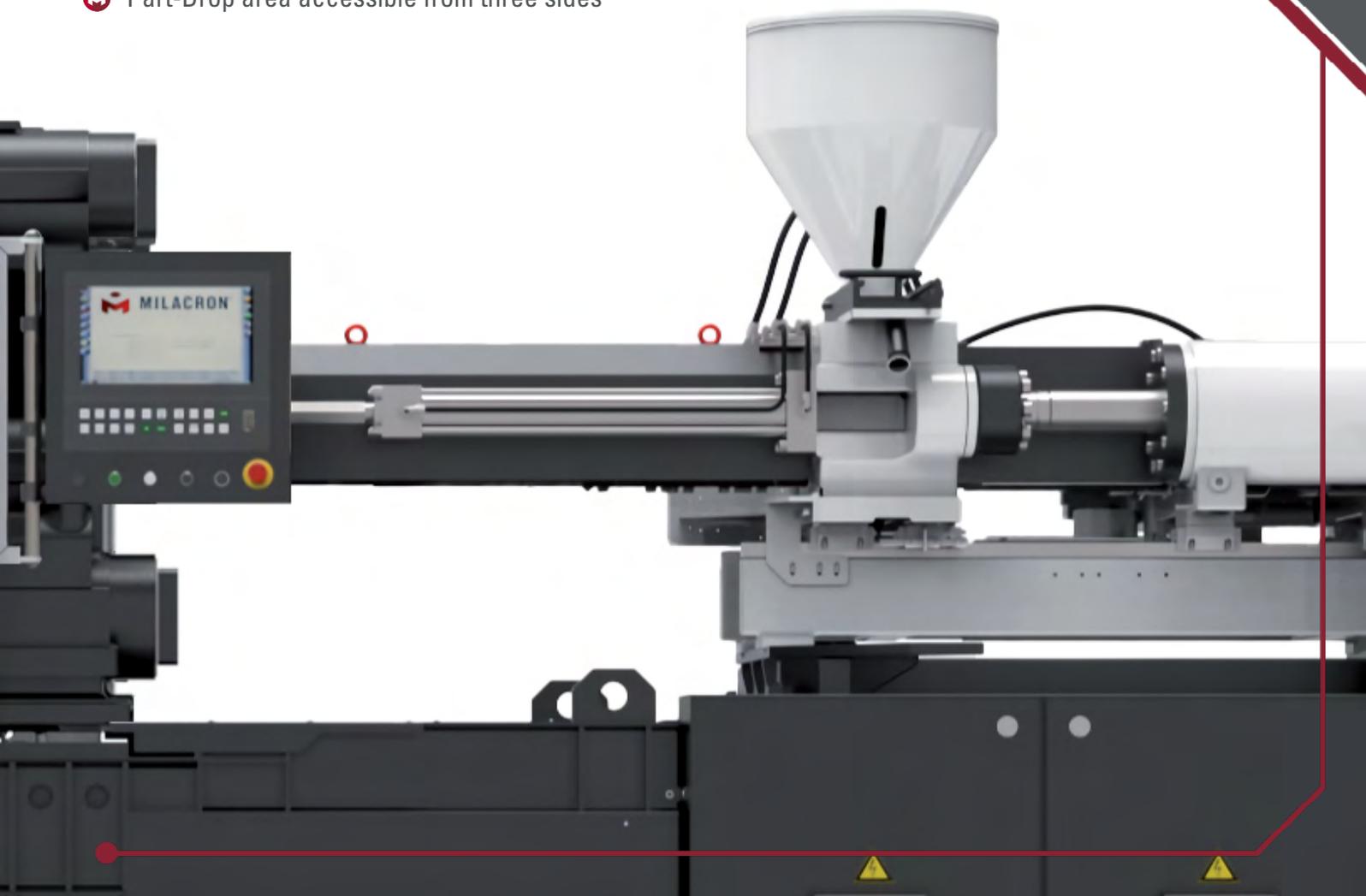
- Ⓜ A reliable toggle system, designed for reproducible precision.
- Ⓜ Machine mounting pads designed and placed to reduce machine vibrations
- Ⓜ Robust machine frame designed to accommodate heavy moulds
- Ⓜ Generous mould installation area for installing large moulds
- Ⓜ Platen drilling pattern allows for a wide range of different shaped moulds
- Ⓜ The new toggle kinematics are ideal for fast and smooth clamp movements
- Ⓜ Precision linear guides allow for smooth and low-friction movement
- Ⓜ Optimised clamp linearity allows clamp force to be repeatably and accurately generated, even at lower tonnages
- Ⓜ Chrome plated tie-bars as standard



CLAMP UNIT

MACHINE SIZE	EUROMAP 6 DRY-CYCLE TIME (S – MM)
Q 110	1.63s - 336mm
Q 150	1.67s - 385mm
Q 180	1.85s - 403mm
Q 230	1.95s - 462mm
Q 280	2.15s - 497mm
Q 350	2.38s - 567mm
Q 450	2.90s - 613mm
Q 550	3.20s - 700mm

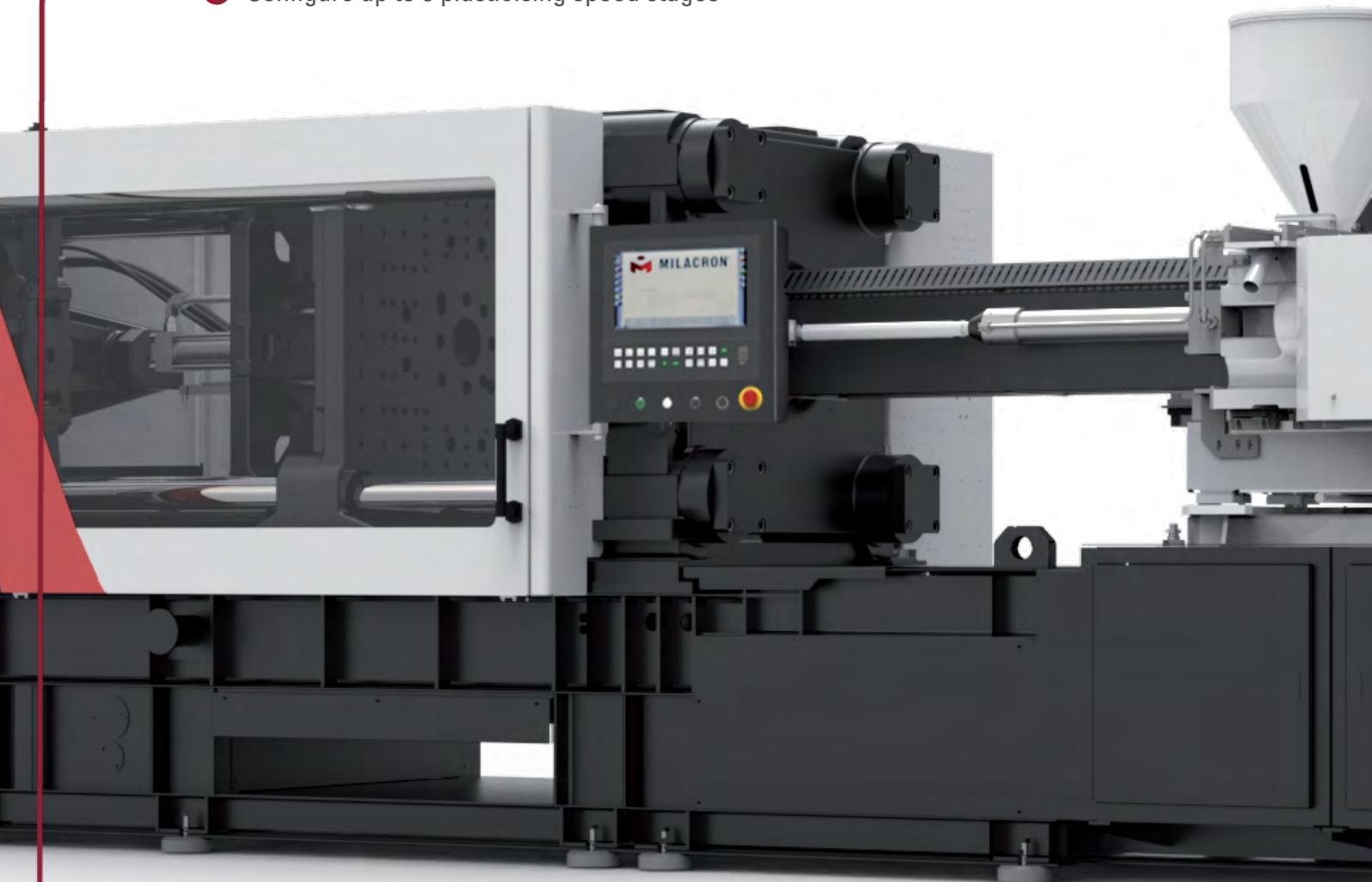
-  The new toggle kinematics gives a reduction in the Euromap dry cycle time of around 30%
-  No bushings in the clamp moving platen allowing grease and oil-free tie-bars
-  Automatic lubrication system on the toggles and linear guides
-  Part-Drop area accessible from three sides



INJECTION UNIT

The Q-Series is one of Milacron's global product lines, presenting a comprehensive line of injection units, barrels and screws that are perfect for a vast assortment of high-quality processing applications.

- ④ Twin side-by-side parallel injection cylinders give uniform load distribution across the screw centreline
- ④ Precision linear guides guarantee optimum alignment of screw and barrel offering reduced wear
- ④ Compact hose routing for optimised hydraulic flow and reduced machine footprint
- ④ Five configurable injection speed stages
- ④ Five configurable injection pressure stages
- ④ Configure up to 10 pack and hold stages
- ④ Configure up to 5 plasticising speed stages



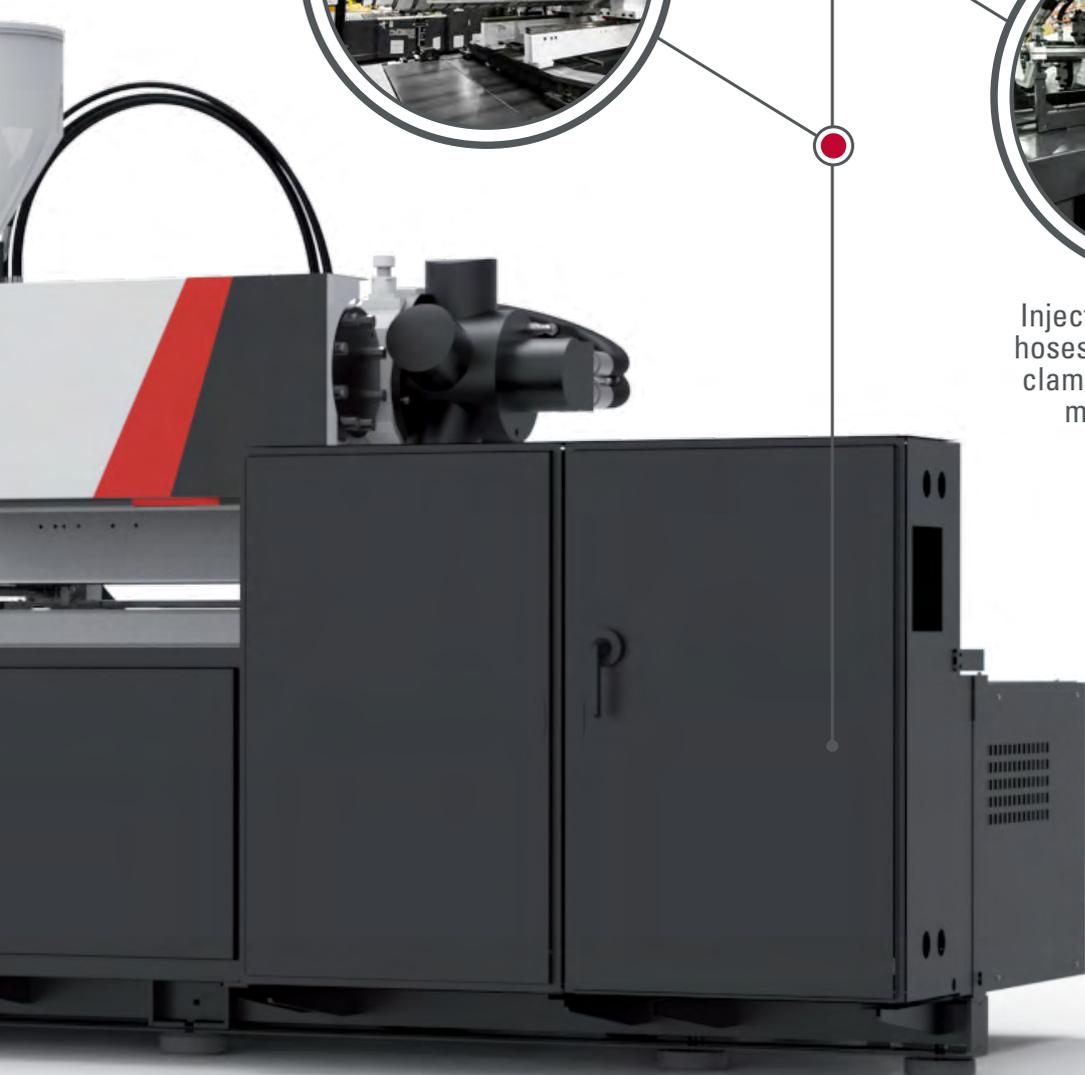
INJECTION UNIT

- Ⓜ Self-Optimising controllers allow for accurate temperature set point regulation
- Ⓜ The swivelling injection unit allows for an easy exchange of the screw
- Ⓜ Hopper slide and shut off valve

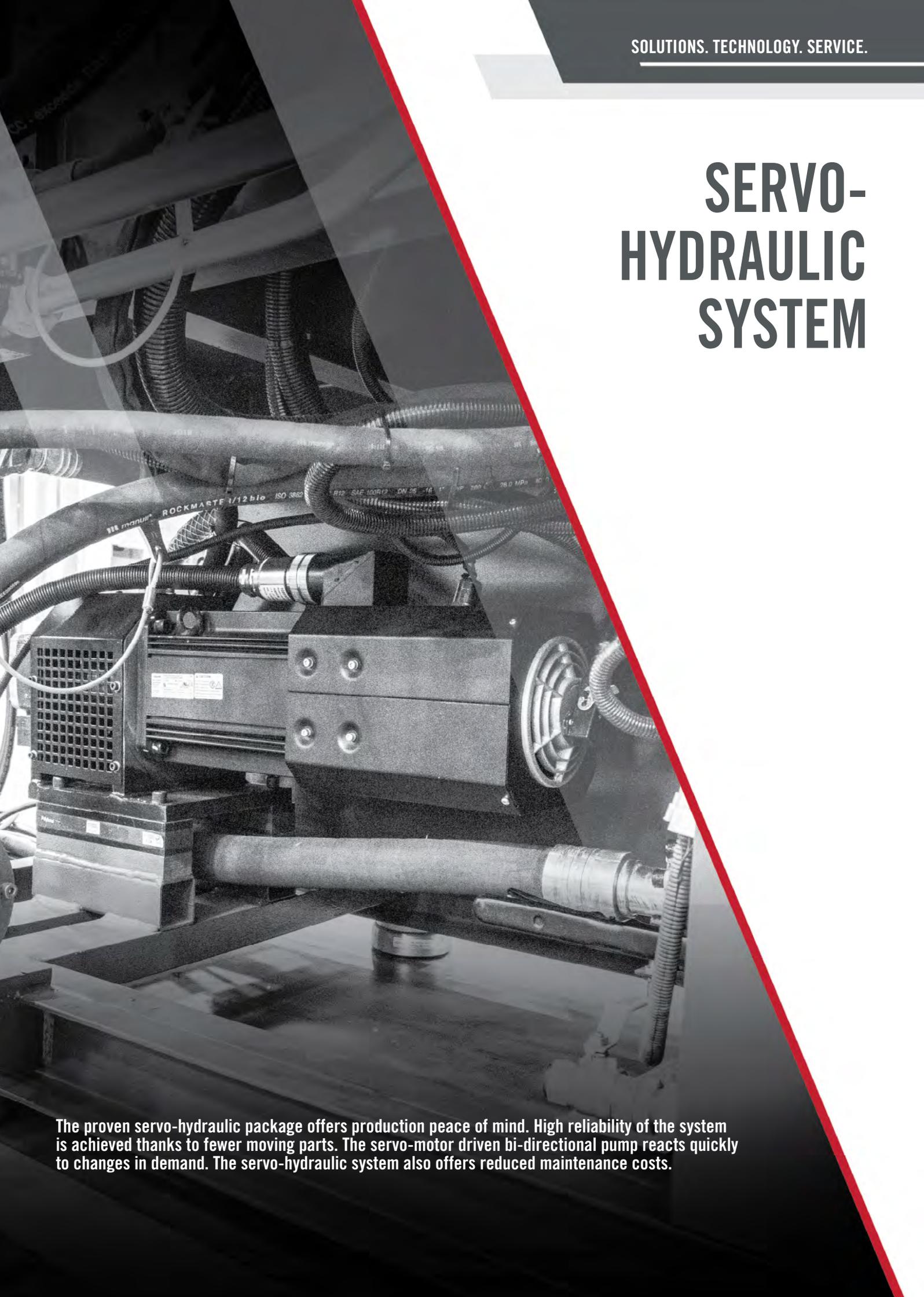
Robust ceramic insulated heaterbands with current monitoring



Injection sided hydraulic hoses routed towards the clamp unit to reduce the machine footprint



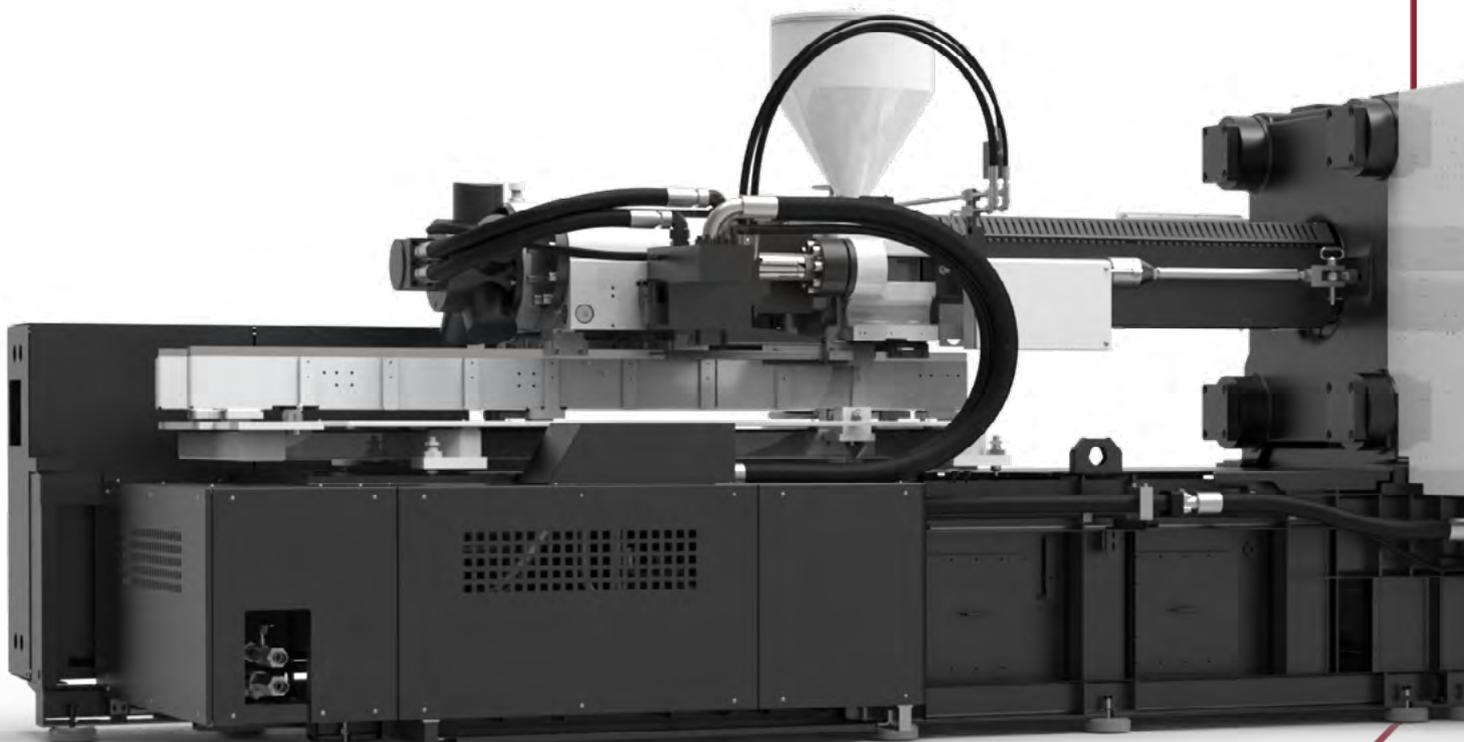
SERVO- HYDRAULIC SYSTEM



The proven servo-hydraulic package offers production peace of mind. High reliability of the system is achieved thanks to fewer moving parts. The servo-motor driven bi-directional pump reacts quickly to changes in demand. The servo-hydraulic system also offers reduced maintenance costs.

ADVANTAGES

- Ⓜ Precise and constant cycle times achieved with optimal control technology
- Ⓜ High level of speed control from the servo-motor, with speeds between 0 and 3000 RPM
- Ⓜ Maintenance friendly easy-access to the drive system
- Ⓜ Low energy consumption
- Ⓜ Highest levels of accuracy and precision – rotational control accurate to a fraction of a degree
- Ⓜ Quick response – low inertia
One of the quietest toggle systems in the marketplace
- Ⓜ Remote monitoring systems for troubleshooting and process analysis
- Ⓜ Clean production environment
- Ⓜ Highest reliability with the lowest maintenance costs
- Ⓜ Bi-directional pump, fast reactions to changes in system load



MOSAIC G3 CONTROL SYSTEM

The intuitive operator panel offers the user a clear format with a choice of languages. Setup time reduction is achieved by transferring mould data files between compatible machines using a USB stick. The Q-Series offers over 25 freely configurable settings for activating a core movement before, during or after the closing, injection or ejector axis functions.

EXCEPTIONAL STANDARD FEATURES

-  15" Touchscreen Terminal
-  20 LED illuminated function keys arranged below the touchscreen
-  Graphical display of actual values for injection speed and pressure
-  Monitoring of up to 39 process parameters over the previous 3000 cycles
-  Statistical Process Control (SPC)
-  Storage capacity for 500 mould data files (internal as well as USB)
-  Insert moulding
-  Freely configurable inputs and outputs
-  Ergonomic design. Swivel and height adjustable panel for optimal screen legibility



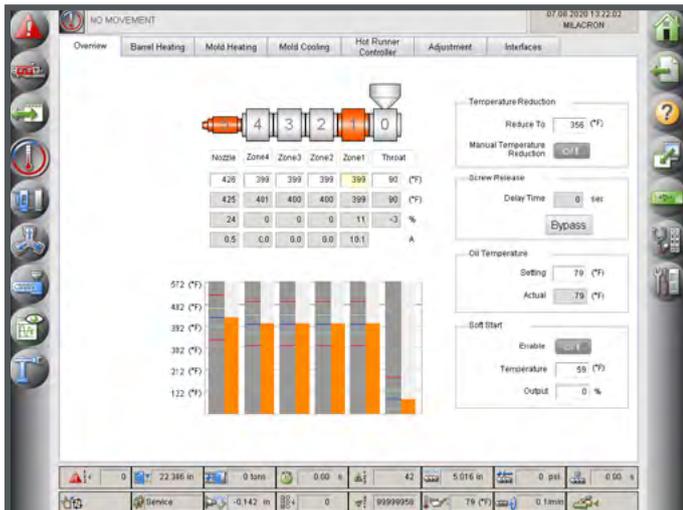
MOULD SAFETY SYSTEM

-  Sensitive adjustable monitoring of the closing movement quickly detects deviations in closing force caused by foreign bodies, rapidly avoiding tool damage
-  Automatic or manual configuration of closing movement monitoring

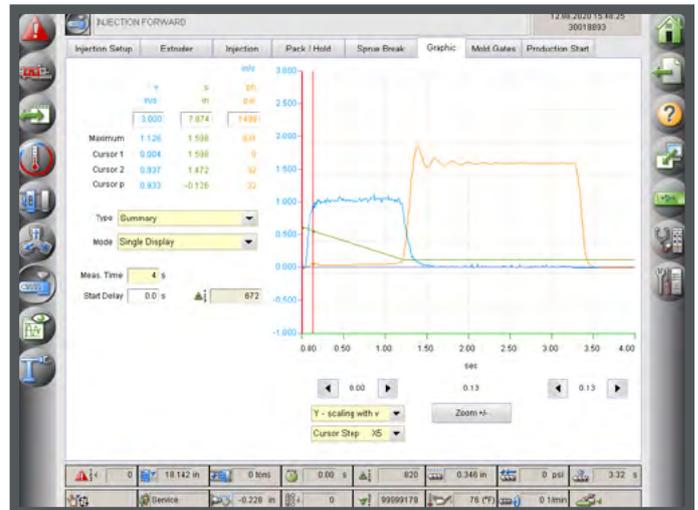
YOU'RE IN CONTROL OF YOUR PROCESS

-  The programmable core pulling supports over 25 different configurable settings for driving before, during or after the clamp, injection or ejector machine axes
-  The clearly laid out operator panel presents the user with a clear display of all machine settings. The operator can choose from a range of machine display languages
-  Setup times are reduced by allowing data exchange over USB stick between compatible control systems
-  Precise monitoring and control of the mould movement by using the "Mold Guard" mould safety function

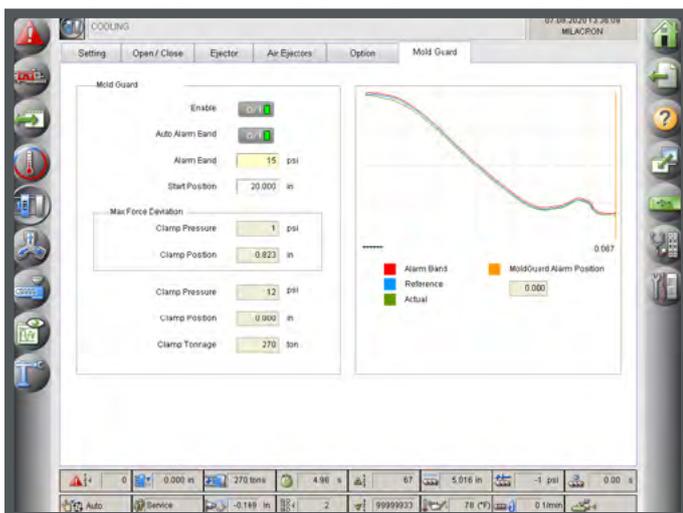
TEMPERATURE OVERVIEW



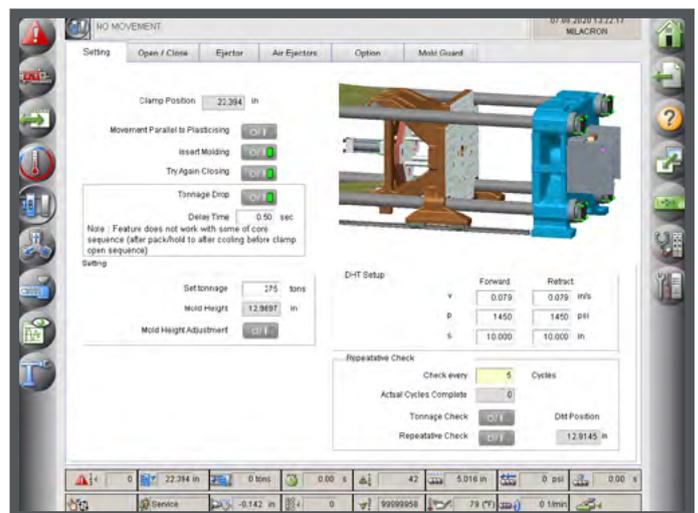
INJECTION GRAPHICS



MOLD GUARD MOULD SAFETY FUNCTION



SETTING THE CLAMP UNIT



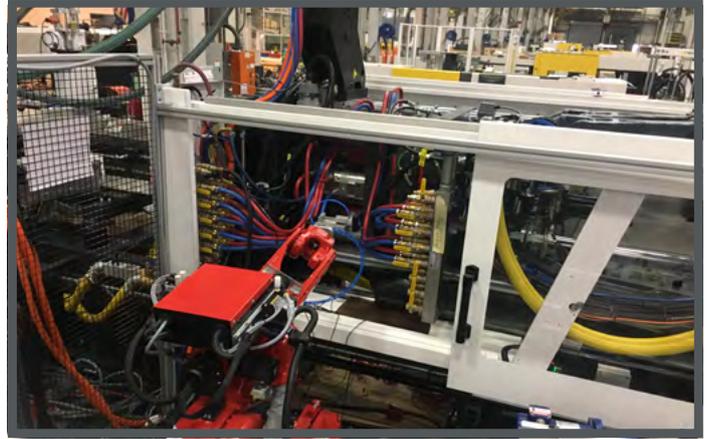
MINIMAL ENERGY CONSUMPTION, RELIABLE PERFORMANCE

- Reduced energy and water consumption
- Reduced hydraulic oil volumes reduce the environmental impact
- Water saver valve fitted as standard to the heat exchanger to minimise the cooling water usage
- Ceramic insulated heaterbands use less energy and help to keep the heat close to the barrel

SYSTEM INTEGRATION AND APPLICATIONS

ACCESSORIES

-  Hot runner controllers
-  Integrated robot systems
-  Hydraulic quick mould clamping systems
-  Conveyors
-  Tool temperature controllers
-  Colour/additive dosing units



APPLICATIONS

-  Two component injection moulding
-  iMFLUX
-  Stack moulds
-  Thermoset moulding
-  Intrusion
-  Rotary tables



EUROMAP

-  Robot interface Euromap 67 (optional)
-  Interface Euromap 73 (Option available for operation with robot replacing non-operator side safety gate)
-  Euromap 70 (Option available for integrated magnetic mould installation platens)



STANDARD FUNCTIONS

	Standard	Option
GENERAL		
Advanced toggle technology, driven by an energy efficient servo-hydraulic system	●	
Direct control of speed and pressure with internal gear pumps	●	
* Multi-Servo Drive System (For Q350 and above)	●	
Ideal layout of hydraulic hoses and manifolds on the non-operator side	●	
Free-programmable core pulling software	●	
Monitored shut-off valve for the pump suction lines	●	
LED Status indicators for all solenoid valves (Q-Series 110 – 550)	●	
Designed with service in mind [Test Points, Accessibility etc]	●	
10 µm filtration with filter clogged alarm	●	
Connections for external bypass filtration unit		○
Bypass filter unit	●	
Open access to ejector area to make tool changes easier	●	
Part removal from three directions	●	○
Mounting plate for robot on fixed nozzle platen (SPI-platen optional)		○
Euromap 67 robot interface		○
SPI 3.0 robot interface	●	○
Filterer cooled control cabinet with over-temperature alarm (Climate Control Optional)		○
Power socket connection box	●	○
Oil temperature control, user configurable	●	○
Multi-stage alarm lamp (multi-stage is optional)	●	
Anti-vibration machine mounting pads	●	
Oil level alarm	●	

	Standard	Option
CLAMP UNIT		
Durable 5-point double toggle with optimised kinematics	●	
Precision linear guides for the moving platen	●	
Compact machine footprint	●	
Increased maximum mould installation weight	●	
Reduced dry cycle time (Euromap 6)	●	
Grease-free mould area – no bushings in moving platen	●	
Chrome plated tie-bars with shot blasted threads	●	
Insert moulding	●	
Outstanding mould tool protection throughout the entire clamp motion due to the “Mold Guard” function	●	
Platen drilling pattern to Euromap standard	●	
Automatic toggle and clamp linear guide lubrication system (Q-Series 110 – 550)	●	
Die height adjustment using sun gear system (Q-Series 110 – 550)	●	
Repeatable automatic die height adjustment backed up by a linear stroke transducer	●	
Increased tie-bar spacing		○
Actual clamp force displayed on screen	●	
Mechanical Scotch bar	●	

	Standard	Option
INJECTION UNIT		
Parallel mounted injection cylinders for a compact machine footprint	●	
Parallel mounted carriage cylinders for uniform distribution of nozzle holding force	●	
Closed-loop control of injection speed and pressure	●	
Cold slug removal	●	
Changeover to hold stages by stroke, pressure or time dependent	●	
Single stage, direct drive hydraulic plasticising motor	●	
Short-stroke shut-off ring	●	
Sprue break function	●	
Swivelling injection unit for easy maintenance	●	
J Type thermocouples	●	
Hopper slide valve with shut off. Emptying to operator side	●	
Ceramic insulated heaterbands	●	
Nitrided barrel	●	
3-Zone Screw	●	
Barrier Screw		○
Three-piece screw tip assembly	●	
Heaterband current monitoring	●	
Up to 5 injection fill stages programmable	●	
Up to 10 pack/hold stages programmable	●	
Closed-loop backpressure control	●	
Up to 5 backpressure stages programmable	●	
Hopper throat temperature monitoring	●	
Pneumatic hopper shut-off system (Q-Series 110 to 550)		○
Intrusion	●	
Automatic barrel heats on to programmable schedule	●	
Automatic machine shut-off		○

	Standard	Option
EJECTOR		
Ejector plate (SPI) with additional central metric thread	●	
Parallel ejector movement (Q-Series 110 – 550)		○
Ejector multi-stroke	●	
Stroke transducer for setting zero point and actual position display of the ejector piston	●	
Ejector speed and pressure configurable on screen	●	
Two stages of ejector forward speed configurable	●	
Ejector forward dwell time configurable	●	
Ejector back limit switch monitoring	●	
Two stages of ejector back selectable	●	
Monitoring of ejector back position		

* Not all functions available on all models

THE Q-SERIES

MACHINE SIZE: 110

INJECTION UNIT SIZE 450, 630

TECHNICAL DATA

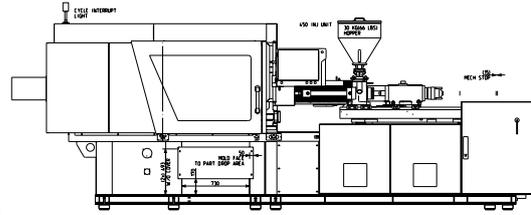
SIZE 110	UNIT	450		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	165	215	272
STROKE VOLUME MAX.	cm ³	173	226	286
INJECTION PRESSURE MAX.	bar	2443	1984	1568
INJECTION RATE *	cm ³ /s	103	134	170
INJECTION SCREW STROKE	mm	180	180	180
INJECTION SCREW DIAMETER	mm	35	40	45
SCREW L/D RATIO		25.7	22.5	20
SCREW SPEED	min ⁻¹	279	279	279
SCREW TORQUE AT 172 BAR	Nm	876	876	876
PLASTICISING RATE (GPPS)	g/s	13	17	24
PLASTICISING RATE (GPPS-BARRIER)	g/s	17	23	31
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		11.3	
CLAMP UNIT				
CLAMP FORCE	kN		1100	
OPENING FORCE	kN		110	
MOULD OPENING STROKE	mm		380	
MAXIMUM DAYLIGHT	mm		900	
MINIMUM MOULD INSTALATION HEIGHT	mm		150	
MAXIMUM MOULD INSTALATION HEIGHT	mm		520	
PLATEN DIMENSIONS (H x V)	mm		690 X 645	
TIE-BAR SPACING (H x V)	mm		480 X 435	
TIE-BAR DIAMETER	mm		75	
EJECTOR STROKE	mm		150	
EJECTOR FORCE	kN		35	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		770 + 770	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		11.5	
OIL TANK CAPACITY	l		280	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		50	
TOTAL CONNECTED POWER	kW		22.8	
MACHINE DIMENSIONS (L X B X H) 1)	m		5.85 x 1.9 x 2.3	
MACHINE WEIGHT (WITHOUT OIL)	kg		5700	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES (110-550)



SIZE 110	UNIT	630		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	239	303	374
STROKE VOLUME MAX.	cm ³	251	318	393
INJECTION PRESSURE MAX.	bar	2492	1969	1595
INJECTION RATE *	cm ³ /s	107	135	167
INJECTION SCREW STROKE	mm	200	200	200
INJECTION SCREW DIAMETER	mm	40	45	50
SCREW L/D RATIO		25	22.2	20
SCREW SPEED	min ⁻¹	222	222	222
SCREW TORQUE AT 172 BAR	Nm	1080	1080	1080
PLASTICISING RATE (GPPS)	g/s	14	19	25
PLASTICISING RATE (GPPS-BARRIER)	g/s	18	25	33
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		15.7	
CLAMP UNIT				
CLAMP FORCE	kN		1100	
OPENING FORCE	kN		110	
MOULD OPENING STROKE	mm		380	
MAXIMUM DAYLIGHT	mm		900	
MINIMUM MOULD INSTALATION HEIGHT	mm		150	
MAXIMUM MOULD INSTALATION HEIGHT	mm		520	
PLATEN DIMENSIONS (H x V)	mm		690 X 645	
TIE-BAR SPACING (H x V)	mm		480 X 435	
TIE-BAR DIAMETER	mm		75	
EJECTOR STROKE	mm		150	
EJECTOR FORCE	kN		35	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		770 + 770	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		11.5	
OIL TANK CAPACITY	l		280	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		50	
TOTAL CONNECTED POWER	kW		27.2	
MACHINE DIMENSIONS (L X B X H) 1)	m		5.85 x 1.9 x 2.3	
MACHINE WEIGHT (WITHOUT OIL)	kg		5850	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 150

INJECTION UNIT SIZE 450, 630, 970

TECHNICAL DATA

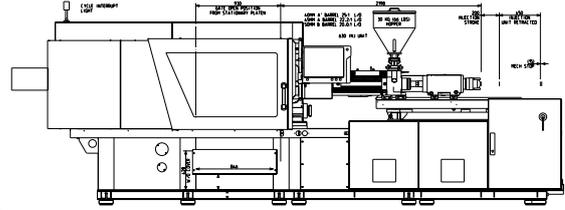
SIZE 150	UNIT	450			EINHEIT	630		
	METRIC	A'	B	C	METRIC	A'	B	C
INJECTION UNIT								
INJECTION CAPACITY MAX. (GPPS)	g	165	215	272	g	239	303	374
STROKE VOLUME MAX.	cm ³	173	226	286	cm ³	251	318	393
INJECTION PRESSURE MAX.	bar	2443	1984	1568	bar	2492	1969	1595
INJECTION RATE *	cm ³ /s	103	134	170	cm ³ /s	107	135	167
INJECTION SCREW STROKE	mm	180	180	180	mm	200	200	200
INJECTION SCREW DIAMETER	mm	35	40	45	mm	40	45	50
SCREW L/D RATIO		25.7	22.5	20		25	22.2	20
SCREW SPEED	min-1	279	279	279	min-1	222	222	222
SCREW TORQUE AT 172 BAR	Nm	876	876	876	Nm	1080	1080	1080
PLASTICISING RATE (GPPS)	g/s	13	17	24	g/s	14	19	25
PLASTICISING RATE (GPPS-BARRIER)	g/s	17	23	31	g/s	18	25	33
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1				4+1	
TOTAL INSTALLED HEATING POWER	kW		11.3		kW		15.7	
CLAMP UNIT								
CLAMP FORCE	kN		1500		kN		1500	
OPENING FORCE	kN		150		kN		150	
MOULD OPENING STROKE	mm		460		mm		460	
MAXIMUM DAYLIGHT	mm		1060		mm		1060	
MINIMUM MOULD INSTALATION HEIGHT	mm		200		mm		200	
MAXIMUM MOULD INSTALATION HEIGHT	mm		600		mm		600	
PLATEN DIMENSIONS (H x V)	mm		780 X 740		mm		780 X 740	
TIE-BAR SPACING (H x V)	mm		550 X 510		mm		550 X 510	
TIE-BAR DIAMETER	mm		85		mm		85	
EJECTOR STROKE	mm		175		mm		175	
EJECTOR FORCE	kN		50		kN		50	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1100+1200		kg		1100+1200	
GENERAL DATA								
POWER OF MAIN MOTOR	kW		11.5		kW		11.5	
OIL TANK CAPACITY	l		365		l		365	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		50		l/min		50	
TOTAL CONNECTED POWER	kW		22.8		kW		27.2	
MACHINE DIMENSIONS (L X B X H) 1)	m		6.24 x 1.9 x 2.3		m		6.24 x 1.9 x 2.3	
MACHINE WEIGHT (WITHOUT OIL)	kg		6900		kg		7000	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES (110-550)



SIZE 150	UNIT	970		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	363	448	646
STROKE VOLUME MAX.	cm ³	382	471	679
INJECTION PRESSURE MAX.	bar	2249	2057	1428
INJECTION RATE *	cm ³ /s	105	129	186
INJECTION SCREW STROKE	mm	240	240	240
INJECTION SCREW DIAMETER	mm	45	50	60
SCREW L/D RATIO		26.7	24	20
SCREW SPEED	min ⁻¹	188	188	188
SCREW TORQUE AT 172 BAR	Nm	1305	1305	1305
PLASTICISING RATE (GPPS)	g/s	16	21	34
PLASTICISING RATE (GPPS-BARRIER)	g/s	21	28	43
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		16.9	
CLAMP UNIT				
CLAMP FORCE	kN		1500	
OPENING FORCE	kN		150	
MOULD OPENING STROKE	mm		460	
MAXIMUM DAYLIGHT	mm		1060	
MINIMUM MOULD INSTALATION HEIGHT	mm		200	
MAXIMUM MOULD INSTALATION HEIGHT	mm		600	
PLATEN DIMENSIONS (H x V)	mm		780 X 740	
TIE-BAR SPACING (H x V)	mm		550 X 510	
TIE-BAR DIAMETER	mm		85	
EJECTOR STROKE	mm		175	
EJECTOR FORCE	kN		50	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1100+1200	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		11.5	
OIL TANK CAPACITY	l		365	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		50	
TOTAL CONNECTED POWER	kW		28.4	
MACHINE DIMENSIONS (L X B X H) 1)	m		6.24 x 1.9 x 2.3	
MACHINE WEIGHT (WITHOUT OIL)	kg		7550	

Note:

- 1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.
- *) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 180

INJECTION UNIT SIZE 450, 630, 970

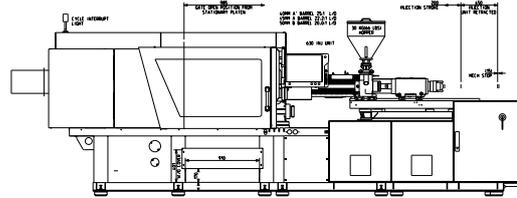
TECHNICAL DATA

SIZE 180	UNIT	450			UNIT	630		
	METRIC	A'	B	C	METRIC	A'	B	C
INJECTION UNIT								
INJECTION CAPACITY MAX. (GPPS)	g	165	215	272	g	239	303	374
STROKE VOLUME MAX.	cm ³	173	226	286	cm ³	251	318	393
INJECTION PRESSURE MAX.	bar	2443	1984	1568	bar	2492	1969	1595
INJECTION RATE *	cm ³ /s	103	134	170	cm ³ /s	107	135	167
INJECTION SCREW STROKE	mm	180	180	180	mm	200	200	200
INJECTION SCREW DIAMETER	mm	35	40	45	mm	40	45	50
SCREW L/D RATIO		25.7	22.5	20		25	22.2	20
SCREW SPEED	min-1	279	279	279	min-1	222	222	222
SCREW TORQUE AT 172 BAR	Nm	876	876	876	Nm	1080	1080	1080
PLASTICISING RATE (GPPS)	g/s	13	17	24	g/s	14	19	25
PLASTICISING RATE (GPPS-BARRIER)	g/s	17	23	31	g/s	18	25	33
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1				4+1	
TOTAL INSTALLED HEATING POWER	kW		11.3		kW		15.7	
CLAMP UNIT								
CLAMP FORCE	kN		1800		kN		1800	
OPENING FORCE	kN		180		kN		180	
MOULD OPENING STROKE	mm		500		mm		500	
MAXIMUM DAYLIGHT	mm		1100		mm		1100	
MINIMUM MOULD INSTALATION HEIGHT	mm		200		mm		200	
MAXIMUM MOULD INSTALATION HEIGHT	mm		600		mm		600	
PLATEN DIMENSIONS (H x V)	mm		810 x 770		mm		810 x 770	
TIE-BAR SPACING (H x V)	mm		575 x 525		mm		575 x 525	
TIE-BAR DIAMETER	mm		95		mm		95	
EJECTOR STROKE	mm		175		mm		175	
EJECTOR FORCE	kN		50		kN		50	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1200+1300		kg		1200+1300	
GENERAL DATA								
POWER OF MAIN MOTOR	kW		11.5		kW		11.5	
OIL TANK CAPACITY	l		365		l		365	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		50		l/min		50	
TOTAL CONNECTED POWER	kW		22.8		kW		27.2	
MACHINE DIMENSIONS (L X B X H 1)	m		6.43 x 1.9 x 2.3		m		6.43 x 1.9 x 2.3	
MACHINE WEIGHT (WITHOUT OIL)	kg		7700		kg		7800	

Note:

- 1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.
 *) With open nozzle.

THE Q-SERIES (110-550)



SIZE 180	UNIT	970		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	363	448	646
STROKE VOLUME MAX.	cm ³	382	471	679
INJECTION PRESSURE MAX.	bar	2249	2057	1428
INJECTION RATE *	cm ³ /s	105	129	186
INJECTION SCREW STROKE	mm	240	240	240
INJECTION SCREW DIAMETER	mm	45	50	60
SCREW L/D RATIO		26.7	24	20
SCREW SPEED	min ⁻¹	188	188	188
SCREW TORQUE AT 172 BAR	Nm	1305	1305	1305
PLASTICISING RATE (GPPS)	g/s	16	21	34
PLASTICISING RATE (GPPS-BARRIER)	g/s	21	28	43
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		16.9	
CLAMP UNIT				
CLAMP FORCE	kN		1800	
OPENING FORCE	kN		180	
MOULD OPENING STROKE	mm		500	
MAXIMUM DAYLIGHT	mm		1100	
MINIMUM MOULD INSTALATION HEIGHT	mm		200	
MAXIMUM MOULD INSTALATION HEIGHT	mm		600	
PLATEN DIMENSIONS (H x V)	mm		810 x 770	
TIE-BAR SPACING (H x V)	mm		575 x 525	
TIE-BAR DIAMETER	mm		95	
EJECTOR STROKE	mm		175	
EJECTOR FORCE	kN			
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1200+1300	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		11.5	
OIL TANK CAPACITY	l			
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		50	
TOTAL CONNECTED POWER	kW		28.4	
MACHINE DIMENSIONS (L X B X H 1)	m		6.43 x 1.9 x 2.3	
MACHINE WEIGHT (WITHOUT OIL)	kg		8300	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 230

INJECTION UNIT SIZE 970, 1540

TECHNICAL DATA

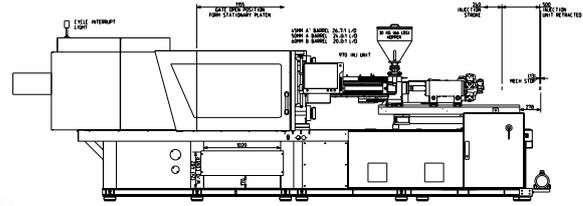
SIZE 230	UNIT	970		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	363	448	646
STROKE VOLUME MAX.	cm ³	382	471	679
INJECTION PRESSURE MAX.	bar	2249	2057	1428
INJECTION RATE *	cm ³ /s	164	202	291
INJECTION SCREW STROKE	mm	240	240	240
INJECTION SCREW DIAMETER	mm	45	50	60
SCREW L/D RATIO		26.7	24	20
SCREW SPEED	min ⁻¹	293	293	293
SCREW TORQUE AT 172 BAR	Nm	1305	1305	1305
PLASTICISING RATE (GPPS)	g/s	25	33	53
PLASTICISING RATE (GPPS-BARRIER)	g/s	33	44	68
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		16.9	
CLAMP UNIT				
CLAMP FORCE	kN		2300	
OPENING FORCE	kN		230	
MOULD OPENING STROKE	mm		550	
MAXIMUM DAYLIGHT	mm		1260	
MINIMUM MOULD INSTALATION HEIGHT	mm		200	
MAXIMUM MOULD INSTALATION HEIGHT	mm		710	
PLATEN DIMENSIONS (H x V)	mm		920 x 820	
TIE-BAR SPACING (H x V)	mm		660 x 560	
TIE-BAR DIAMETER	mm		105	
EJECTOR STROKE	mm		200	
EJECTOR FORCE	kN		65	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1500+1700	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		13.6	
OIL TANK CAPACITY	l		530	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		75	
TOTAL CONNECTED POWER	kW		30.5	
MACHINE DIMENSIONS (L X B X H) 1)	m		7.25 x 2.15 x 2.5	
MACHINE WEIGHT (WITHOUT OIL)	kg		10200	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES (110-550)



SIZE 230	UNIT	1540		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	523	753	1025
STROKE VOLUME MAX.	cm ³	550	792	1078
INJECTION PRESSURE MAX.	bar	2236	1941	1426
INJECTION RATE *	cm ³ /s	149	214	291
INJECTION SCREW STROKE	mm	280	280	280
INJECTION SCREW DIAMETER	mm	50	60	70
SCREW L/D RATIO		28	23.3	20
SCREW SPEED	min ⁻¹	180	180	180
SCREW TORQUE AT 172 BAR	Nm	2126	2126	2126
PLASTICISING RATE (GPPS)	g/s	20	33	50
PLASTICISING RATE (GPPS-BARRIER)	g/s	27	41	66
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		24.9	
CLAMP UNIT				
CLAMP FORCE	kN		2300	
OPENING FORCE	kN		230	
MOULD OPENING STROKE	mm		550	
MAXIMUM DAYLIGHT	mm		1260	
MINIMUM MOULD INSTALATION HEIGHT	mm		200	
MAXIMUM MOULD INSTALATION HEIGHT	mm		710	
PLATEN DIMENSIONS (H x V)	mm		920 x 820	
TIE-BAR SPACING (H x V)	mm		660 x 560	
TIE-BAR DIAMETER	mm		105	
EJECTOR STROKE	mm		200	
EJECTOR FORCE	kN		65	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1500+1700	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		13.6	
OIL TANK CAPACITY	l		530	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		75	
TOTAL CONNECTED POWER	kW		38.5	
MACHINE DIMENSIONS (L X B X H 1)	m		7.60 x 2.1 x 2.5	
MACHINE WEIGHT (WITHOUT OIL)	kg		10950	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 280

INJECTION UNIT SIZE 1540, 2290

TECHNICAL DATA

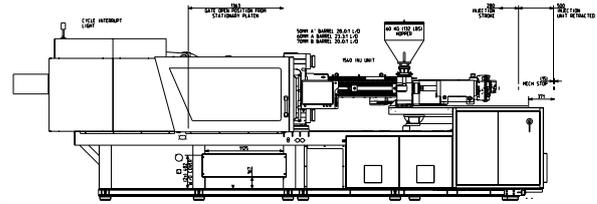
SIZE 280	UNIT	1540		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	523	753	1025
STROKE VOLUME MAX.	cm ³	550	792	1078
INJECTION PRESSURE MAX.	bar	2236	1941	1426
INJECTION RATE *	cm ³ /s	149	214	291
INJECTION SCREW STROKE	mm	280	280	280
INJECTION SCREW DIAMETER	mm	50	60	70
SCREW L/D RATIO		28	23.3	20
SCREW SPEED	min ⁻¹	180	180	180
SCREW TORQUE AT 172 BAR	Nm	2126	2126	2126
PLASTICISING RATE (GPPS)	g/s	20	33	50
PLASTICISING RATE (GPPS-BARRIER)	g/s	27	41	66
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		24.9	
CLAMP UNIT				
CLAMP FORCE	kN		2800	
OPENING FORCE	kN		280	
MOULD OPENING STROKE	mm		650	
MAXIMUM DAYLIGHT	mm		1400	
MINIMUM MOULD INSTALATION HEIGHT	mm		250	
MAXIMUM MOULD INSTALATION HEIGHT	mm		750	
PLATEN DIMENSIONS (H x V)	mm		990 x 940	
TIE-BAR SPACING (H x V)	mm		710 x 660	
TIE-BAR DIAMETER	mm		115	
EJECTOR STROKE	mm		200	
EJECTOR FORCE	kN		65	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1900+2500	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		13.6	
OIL TANK CAPACITY	l		530	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		75	
TOTAL CONNECTED POWER	kW		38.5	
MACHINE DIMENSIONS (L X B X H 1)	m		7.9 x 2.32 x 2.62	
MACHINE WEIGHT (WITHOUT OIL)	kg		13200	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES (110-550)



SIZE 280	UNIT	2290		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	861	1172	1530
STROKE VOLUME MAX.	cm ³	905	1232	1608
INJECTION PRESSURE MAX.	bar	2238	1856	1421
INJECTION RATE *	cm ³ /s	270	367	480
INJECTION SCREW STROKE	mm	320	320	320
INJECTION SCREW DIAMETER	mm	60	70	80
SCREW L/D RATIO		26.7	22.9	20
SCREW SPEED	min ⁻¹	187	187	187
SCREW TORQUE AT 172 BAR	Nm	3347	3347	3347
PLASTICISING RATE (GPPS)	g/s	34	53	73
PLASTICISING RATE (GPPS-BARRIER)	g/s	43	69	93
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		39.6	
CLAMP UNIT				
CLAMP FORCE	kN		2800	
OPENING FORCE	kN		280	
MOULD OPENING STROKE	mm		650	
MAXIMUM DAYLIGHT	mm		1400	
MINIMUM MOULD INSTALATION HEIGHT	mm		250	
MAXIMUM MOULD INSTALATION HEIGHT	mm		750	
PLATEN DIMENSIONS (H x V)	mm		990 x 940	
TIE-BAR SPACING (H x V)	mm		710 x 660	
TIE-BAR DIAMETER	mm		115	
EJECTOR STROKE	mm		200	
EJECTOR FORCE	kN		65	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		1900+2500	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		25.1	
OIL TANK CAPACITY	l		530	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		75	
TOTAL CONNECTED POWER	kW		64.7	
MACHINE DIMENSIONS (L X B X H) 1)	m		8.3 x 2.32 x 2.62	
MACHINE WEIGHT (WITHOUT OIL)	kg		15400	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 350

INJECTION UNIT SIZE 1540, 2290, 3470

TECHNICAL DATA

SIZE 350	UNIT	1540			UNIT	2290		
	METRIC	A'	B	C	METRIC	A'	B	C
INJECTION UNIT								
INJECTION CAPACITY MAX. (GPPS)	g	523	753	1025	g	861	1172	1530
STROKE VOLUME MAX.	cm ³	550	792	1078	cm ³	905	1232	1608
INJECTION PRESSURE MAX.	bar	2236	1941	1426	bar	2238	1856	1421
INJECTION RATE *	cm ³ /s	244	351	478	cm ³ /s	270	367	480
INJECTION SCREW STROKE	mm	280	280	280	mm	320	320	320
INJECTION SCREW DIAMETER	mm	50	60	70	mm	60	70	80
SCREW L/D RATIO		28	23.3	20		26.7	22.9	20
SCREW SPEED	min-1	295	295	273	min-1	187	187	187
SCREW TORQUE AT 172 BAR	Nm	2126	2126	2126	Nm	3347	3347	3347
PLASTICISING RATE (GPPS)	g/s	34	54	77	g/s	34	53	73
PLASTICISING RATE (GPPS-BARRIER)	g/s	44	68	100	g/s	43	69	93
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1				4+1	
TOTAL INSTALLED HEATING POWER	kW		24.9		kW		39.6	
CLAMP UNIT								
CLAMP FORCE	kN		3500		kN		3500	
OPENING FORCE	kN		350		kN		350	
MOULD OPENING STROKE	mm		720		mm		720	
MAXIMUM DAYLIGHT	mm		1520		mm		1520	
MINIMUM MOULD INSTALATION HEIGHT	mm		300		mm		300	
MAXIMUM MOULD INSTALATION HEIGHT	mm		800		mm		800	
PLATEN DIMENSIONS (H x V)	mm		1120 x 1035		mm		1120 x 1035	
TIE-BAR SPACING (H x V)	mm		810 x 725		mm		810 x 725	
TIE-BAR DIAMETER	mm		125		mm		125	
EJECTOR STROKE	mm		250		mm		250	
EJECTOR FORCE	kN		75		kN		75	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		2700+3300		kg		2700+3300	
GENERAL DATA								
POWER OF MAIN MOTOR	kW		25.1		kW		25.1	
OIL TANK CAPACITY	l		650		l		650	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		100		l/min		100	
TOTAL CONNECTED POWER	kW		50		kW		64.7	
MACHINE DIMENSIONS (L X B X H) 1)	m		8.5 X 2.35 X 2.7		m		8.5 x 2.35 x 2.7	
MACHINE WEIGHT (WITHOUT OIL)	kg		15300				17600	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 450

INJECTION UNIT SIZE 2290, 3470

TECHNICAL DATA

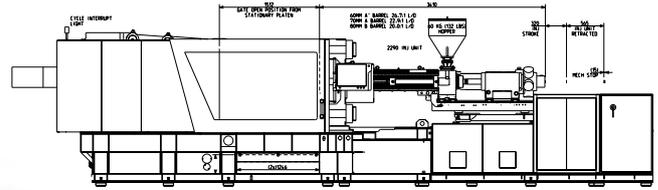
SIZE 450	UNIT	2290		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	861	1172	1530
STROKE VOLUME MAX.	cm ³	905	1232	1608
INJECTION PRESSURE MAX.	bar	2238	1856	1421
INJECTION RATE *	cm ³ /s	270	367	480
INJECTION SCREW STROKE	mm	320	320	320
INJECTION SCREW DIAMETER	mm	60	70	80
SCREW L/D RATIO		26.7	22.9	20
SCREW SPEED	min-1	187	187	187
SCREW TORQUE AT 172 BAR	Nm	3347	3347	3347
PLASTICISING RATE (GPPS)	g/s	34	53	73
PLASTICISING RATE (GPPS-BARRIER)	g/s	43	69	93
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		39.6	
CLAMP UNIT				
CLAMP FORCE	kN		4500	
OPENING FORCE	kN		450	
MOULD OPENING STROKE	mm		850	
MAXIMUM DAYLIGHT	mm		1670	
MINIMUM MOULD INSTALATION HEIGHT	mm		350	
MAXIMUM MOULD INSTALATION HEIGHT	mm		820	
PLATEN DIMENSIONS (H x V)	mm		1245 x 1200	
TIE-BAR SPACING (H x V)	mm		875 x 830	
TIE-BAR DIAMETER	mm		145	
EJECTOR STROKE	mm		250	
EJECTOR FORCE	kN		120	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		4000+4000	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		25.1	
OIL TANK CAPACITY	l		800	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		100	
TOTAL CONNECTED POWER	kW		64.7	
MACHINE DIMENSIONS (L X B X H) 1)	m		9.6 x 2.43 x 2.53	
MACHINE WEIGHT (WITHOUT OIL)	kg		23700	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES (110-550)



SIZE 450	UNIT	3470		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	1318	1722	2179
STROKE VOLUME MAX.	cm ³	1385	1810	2290
INJECTION PRESSURE MAX.	bar	2289	1917	1515
INJECTION RATE *	cm ³ /s	272	356	450
INJECTION SCREW STROKE	mm	360	360	360
INJECTION SCREW DIAMETER	mm	70	80	90
SCREW L/D RATIO		25.7	22.5	20
SCREW SPEED	min-1	142	142	142
SCREW TORQUE AT 172 BAR	Nm	4424	4424	4424
PLASTICISING RATE (GPPS)	g/s	40	55	73
PLASTICISING RATE (GPPS-BARRIER)	g/s	52	70	94
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		57.9	
CLAMP UNIT				
CLAMP FORCE	kN		4500	
OPENING FORCE	kN		450	
MOULD OPENING STROKE	mm		850	
MAXIMUM DAYLIGHT	mm		1670	
MINIMUM MOULD INSTALATION HEIGHT	mm		350	
MAXIMUM MOULD INSTALATION HEIGHT	mm		820	
PLATEN DIMENSIONS (H x V)	mm		1245 x 1200	
TIE-BAR SPACING (H x V)	mm		875 x 830	
TIE-BAR DIAMETER	mm		145	
EJECTOR STROKE	mm		250	
EJECTOR FORCE	kN		120	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		4000+4000	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		25.1	
OIL TANK CAPACITY	l		800	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		100	
TOTAL CONNECTED POWER	kW		83	
MACHINE DIMENSIONS (L X B X H) 1)	m		9.6 x 2.43 x 2.53	
MACHINE WEIGHT (WITHOUT OIL)	kg		24350	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES

MACHINE SIZE: 550

INJECTION UNIT SIZE 3470, 4880

TECHNICAL DATA

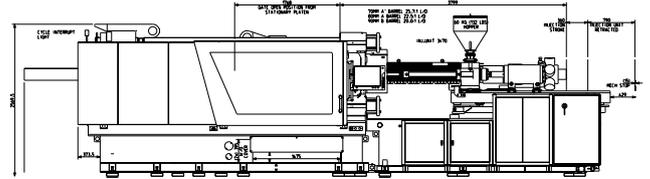
SIZE 550	UNIT	3470		
	METRIC	A'	B	C
INJECTION UNIT				
INJECTION CAPACITY MAX. (GPPS)	g	1318	1722	2179
STROKE VOLUME MAX.	cm ³	1385	1810	2290
INJECTION PRESSURE MAX.	bar	2289	1917	1515
INJECTION RATE *	cm ³ /s	332	434	549
INJECTION SCREW STROKE	mm	360	360	360
INJECTION SCREW DIAMETER	mm	70	80	90
SCREW L/D RATIO		25.7	22.5	20
SCREW SPEED	min ⁻¹	173	173	173
SCREW TORQUE AT 172 BAR	Nm	4424	4424	4424
PLASTICISING RATE (GPPS)	g/s	48	67	89
PLASTICISING RATE (GPPS-BARRIER)	g/s	63	86	114
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)			4+1	
TOTAL INSTALLED HEATING POWER	kW		57.9	
CLAMP UNIT				
CLAMP FORCE	kN		5500	
OPENING FORCE	kN		550	
MOULD OPENING STROKE	mm		920	
MAXIMUM DAYLIGHT	mm		1820	
MINIMUM MOULD INSTALATION HEIGHT	mm		400	
MAXIMUM MOULD INSTALATION HEIGHT	mm		900	
PLATEN DIMENSIONS (H x V)	mm		1330 x 1300	
TIE-BAR SPACING (H x V)	mm		1000 x 900	
TIE-BAR DIAMETER	mm		170	
EJECTOR STROKE	mm		250	
EJECTOR FORCE	kN		120	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg		4150+5500	
GENERAL DATA				
POWER OF MAIN MOTOR	kW		27.2	
OIL TANK CAPACITY	l		815	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min		100	
TOTAL CONNECTED POWER	kW		85.1	
MACHINE DIMENSIONS (L X B X H) 1)	m		10.2 x 2.7 x 2.7	
MACHINE WEIGHT (WITHOUT OIL)	kg		34500	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.

THE Q-SERIES (110-550)



SIZE 550	UNIT	4880	
		A	B
INJECTION UNIT			
INJECTION CAPACITY MAX. (GPPS)	g	2421	2989
STROKE VOLUME MAX.	cm ³	2545	3142
INJECTION PRESSURE MAX.	bar	1896	1538
INJECTION RATE *	cm ³ /s	434	535
INJECTION SCREW STROKE	mm	400	400
INJECTION SCREW DIAMETER	mm	90	100
SCREW L/D RATIO		22.2	20
SCREW SPEED	min ⁻¹	136	136
SCREW TORQUE AT 172 BAR	Nm	5613	5613
PLASTICISING RATE (GPPS)	g/s	71	92
PLASTICISING RATE (GPPS-BARRIER)	g/s	90	115
NUMBER OF HEATING ZONES (BARREL AND NOZZLE)		4+1	
TOTAL INSTALLED HEATING POWER	kW	53.9	
CLAMP UNIT			
CLAMP FORCE	kN	5500	
OPENING FORCE	kN	550	
MOULD OPENING STROKE	mm	920	
MAXIMUM DAYLIGHT	mm	1820	
MINIMUM MOULD INSTALATION HEIGHT	mm	400	
MAXIMUM MOULD INSTALATION HEIGHT	mm	900	
PLATEN DIMENSIONS (H x V)	mm	1330 x 1300	
TIE-BAR SPACING (H x V)	mm	1000 x 900	
TIE-BAR DIAMETER	mm	170	
EJECTOR STROKE	mm	250	
EJECTOR FORCE	kN	120	
MAXIMUM MOULD WEIGHT (FIXED & MOVING)	kg	4150+5500	
GENERAL DATA			
POWER OF MAIN MOTOR	kW	27.2	
OIL TANK CAPACITY	l	815	
WATER CONSUMPTION (INLET TEMPERATURE 29 °C)	l/min	100	
TOTAL CONNECTED POWER	kW	81.1	
MACHINE DIMENSIONS (L X B X H) 1)	m	10.6 x 2.7 x 3.0	
MACHINE WEIGHT (WITHOUT OIL)	kg	35950	

Note:

1) All machine dimensions and specifications are subject to change. The values are only for reference. The standard values refer only to standard equipment.

*) With open nozzle.



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