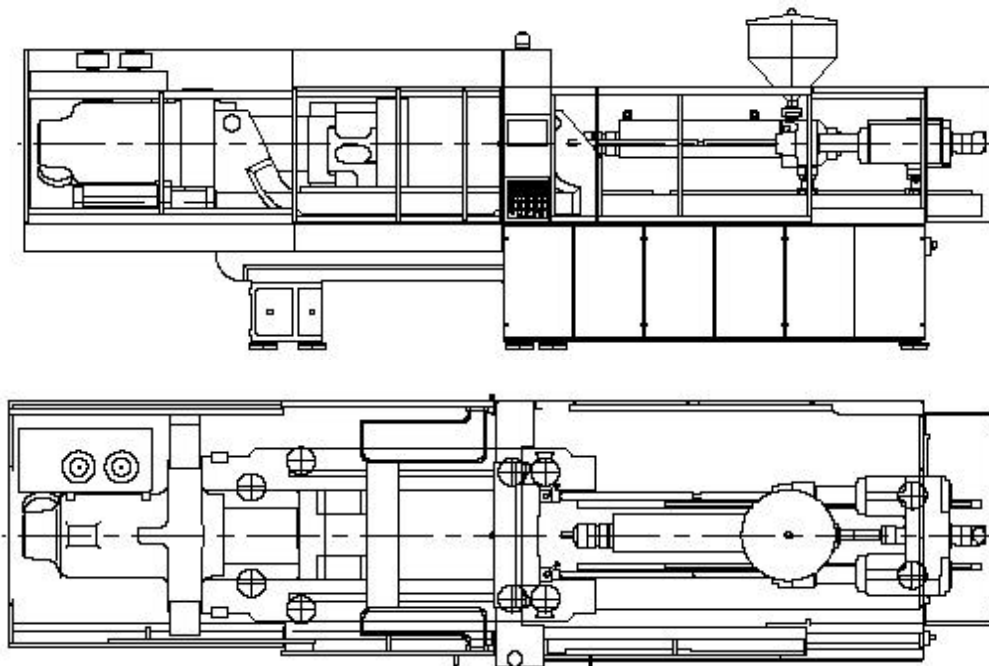


Size designation	2550/...						
			Standard			N execution	
Screw diameter	in/mm	2.76 / 70	3.15 / 80	3.35 / 85	2.76 / 70	3.15 / 80	3.35 / 85
Screw Stroke	in/mm		12.20 / 310			12.20 / 310	
Max stroke volume	in ³ /cm ³	72.8 / 1193	95.1 / 1558	107.3 / 1759	72.8 / 1193	95.1 / 1558	107.3 / 1759
Screw speed	rpm		183			206	
Screw L/D ratio	L/D		20:1			20:1	
Plasticizing capacity	oz-sec / gram-sec	2.3 / 64	3.2 / 90	3.8 / 108	2.5 / 72	3.6 / 101	4.3 / 121
Screw L/D ratio	L/D		24:1			24:1	
Plasticizing capacity	oz-sec / gram-sec	2.9 / 81	4.0 / 114	4.7 / 133	3.2 / 91	4.5 / 128	5.3 / 150
Injection rate at max. press.	in ³ /sec / cm ³ /sec	22.3 / 366	29.2 / 478	33.0 / 540	26.5 / 435	34.7 / 568	39.1 / 641
Injection rate regenerative	in ³ /sec / cm ³ /sec	19.0 / 311	25.0 / 407	28.0 / 459	22.6 / 370	29.5 / 483	33.3 / 545
Injection pressure at max. press.	psi / bar	26390 / 1820	20300 / 1400	17835 / 1230	26390 / 1820	20300 / 1400	17835 / 1230
Injection pressure regenerative	psi / bar	31010 / 2140	23780 / 1640	21025 / 1450	31010 / 2140	23780 / 1640	21025 / 1450
Nozzle stroke	in/mm		35.4 / 900			35.4 / 900	
Nozzle contact force	ton/kN		12.4 / 110			12.4 / 110	
Heating capacity	kW	29	34	36	29	34	36
Number of heat zones			5			5	
Horsepower	HP/kW		60 / 45			75 / 55	
Hopper volume	Lbs		163			163	



Possible combinations of the injection unit

Machine designation	Oil Capacity	HP		Connected Power / Amp	
		Standard	N execution	Standard	N execution
	Gallons / liters	hp/kW	hp/kW	hp/kW	hp/kW
ES 2550 / 400 - 450	259 / 980	60 / 45	75 / 55	84 / 144	93 / 163
ES 2550 / 550 - 660	489 / 1850	75 / 55	75 / 55	85 / 145	95 / 164

The equipment features are valid for the following Machines

Tie-barless machines:

ES 2550 / 400 TL CC100 A03
ES 2550 / 450 TL CC100 A03
ES 2550 / 550 TL CC100 A03
ES 2550 / 660 TL CC100 A03

Standard Equipment

- 10 – stage injection speed
- 10 – stage holding pressure profile
- 5 – stage screw speed
- 5 – stage back pressure profile
- Display of the screw speed
- Injection time monitoring
- Automatic cushion monitoring
- Transfer from boost to hold by time, stroke or Hydraulic pressure
- Increased injection pressure can be switched over
- Contact pressure relief
- Injection unit swivel
- Wear resistant bimetallic cylinder
- Manual quick change barrel
- MI heater bands
- Direct drive of the screw with hydraulic motor

Control system and electric system

- Microcomputer CC 100 closed loop controlled with integrated diskette drive
- TFT color flat display incl. MICRO-GRAPH PLUS / MICROPLAST
- All functions on the injection unit closed loop controlled
- Patented linearization program
- Graphic-supported set value setting
- Week switch clock for heating on/off motor off
- Monitoring of process-critical functions with alarms
- Automatic barrel heat-up with start up
- Graphic cycle time analysis with part time monitoring
- Self –optimizing temperature control circuits
- Connection for PC keyboard and printer (V24)
- Regulator and emergency service for temperature control circuits
- Info package (help package, 2nd language, storage of data sets on CPU)
- Malfunction message record
- QUICK SETUP with action display
- Access management system via pass-word input

Machine safety

- **Current ANSI B151 regulations**

Additional Options Available

- Electric screw drive
- Increased torque of the screw
- Thermoset equipment
- Elastomer equipment
- PVC equipment
- GASMELT equipment
- Multi-component and multi-color equipment
- Power melt heavy duty screws
- Needle shut off nozzle spring actuated
- Extremely wear resistant and corrosion resistant plasticizing units
- Holding pressure switchover as a function of mold cavity pressure with charge amplifier
- Insulating mats for heaterbands
- Servo valve closed loop control for injection speed. Holding pressure and back pressure

Control System and electric system

- Microcomputer CC 100 closed loop controlled incl. MICROGRAPH PLUS and QDP / CPC
- MICROPLAST / MICROFLOW
- Quality data statistics QDS
- MICROTEMP
- Absolute value input
- Quality documentation package QDP incl. Process data monitoring CPC
- Program package expert control
- Energy measurement + analysis
- Program automatic cylinder cleaning
- Program cycle sequence freely program-mable in 36 program steps
- Interface for handling system
- AUTOPROTECT self-learning precision mold protection
- ENGEL Monitoring System (EMS)
- Control circuits for mold heating
- Week switch clock for peripheral equipment and motor on/off
- Network interface for central computer / tele-service
- Access authorization system with magnetic card
- Printer, PC input keyboard
- Manual control device for machine functions
- Interface for conveyor belt
- Interface for temperature control units, hot runner controller and conveying unit
- Start-up circuit with automatic switchover from start-up to production parameters
- Additional electric connections (2-pole / 3 phase), switchable alternatively
- Acoustic warning signal

Automation modules

- Automatic feed units