

# TECHNICAL PARAMETER

Specification		TS- 50			TS- 80			TS- 110			TS- 140			TS- 180			TS-250			TS-320			TS-400		
<b>INJECTION UNIT</b>																									
		<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>A</b>	<b>B</b>	<b>C</b>
CALCULATED INJECTION CAPACITY	cc	66	95	129	106	144	188	152	201	254	226	286	352	318	392	475	490	594	830	990	1161	1347	1393	1599	1819
ACTUAL SHOT WEIGHT - P.S	gms	60	90	120	98	130	170	144	190	240	215	275	340	300	375	452	445	545	760	830	901	1057	1258	1455	1656
INJECTION PRESSURE MAX	kg/cm <sup>2</sup>	3175	2225	1620	2350	1750	1320	2060	1584	1245	2150	1700	1350	2028	1650	1360	2028	1650	1360	2482	1777	1335	1800	1560	1380
SCREW DIAMETER	mm	25	30	35	30	35	40	35	40	45	40	45	50	45	50	55	50	55	65	60	65	70	70	75	80
SCREW L/D RATIO		24	22	20	22	20	18	22	20	18	22	20	18	22	20	18	22	20	18	21.7	20	18.6	22	20.5	19
SCREW STROKE	mm	135			160			160			180			200			250			350			360		
SCREW SPEED / TORQUE	rpm/kgm	350/50			330/60			330/60			230/80			200/95			200/95			190			180		
NOZZLE STROKE	mm	225			250			280			300			330			450			550			550		
NOZZLE CONTACT FORCE	ton	3.5			3.7			3.7			3.2			4.2			6.5			8			12		
<b>CLAMPING UNIT</b>																									
CLAMPFORCE	tons	50			80			110			140			180			250			320			415		
CLAMP STROKE	mm	250			325			350			430			470			550			670			700		
MAX. DAYLIGHT	mm	550			700			800			910			955			1150			1370			1520		
MOLD.HT.MIN/MAX	mm	125/300			150/375			150/450			180/480			200/525			230/600			240/700			280/820		
PLATEN SIZE	mm	455x455			530x530			610x610			660x660			750x750			820 x 820			970 x970			1020 x1020		
DISTANCE BETWEEN TIE RODS (HxV)	mm	310x310			360x360			410x410			460x460			510X510			580X580			660 x 660			720 x 720		
EJECTOR STROKE MAX	mm	65			80			100			120			130			145			160			180		
EJECTOR FORCE	ton	2			2.3			3.3			3.5			3.5			7			12			12.5		
<b>GENERAL DATA</b>																									
ELECTRIC MOTOR	KW (hp)	5.5(7.5)			7.5(10)			11(15)			15(20)			18.5(25)			22(30)			30(40)			37(50)		
TOTAL LOAD	KW (hp)	9.5			12			17.5			22			26.5			30			42			59		
TOTAL OIL CAPACITY	ltrs.	150			200			250			275			300			400			450			750		
MACHINE DIMENSIONS (LxWxH)	mtr.	3.2x1.2x1.5			3.5x1.2x1.8			4X1.25X1.2			5X1.35X1.9			5.8X1.5X2.1			6.5X1.7X2.2			6.9X1.7X2.2			7.9x2.1x2.5		

# Euro Servo series



## TOGGLE CLAMPING INJECTION MOULDING MACHINE

### DESIGN ADVANTAGES & FEATURES

#### Clamping Unit

- Wide tie bar distance & daylight
- Robust five point vertical toggle clamp mechanism
- Five stage clamping speed & pressure
- Linear position transducer for accurate clamp position control
- Auto mould height adjustment for quick mould change
- Low pressure precise mould protection
- Tripple safety control of mechanical, electrical & hydraulic devices to ensure operator safety
- Automatic centralised lubrication system with motorized pump

#### Injection Unit

- Nitrided screw & barrel, wear resistant screw tip assembly
- Three option screw dia available for customer choice
- Five stage injection speed & pressure control
- Variable back pressure control
- Linear position transducer for accurate injection position control
- Screw driven by high torque radial piston motor
- Injection decompression before/after refilling or both
- Aluminum checkered plate below purge area

#### Ejector

- Knockout bar
- Two stage speed with soft eject
- Ejector stay forward & forward dwell time

#### Hydraulics

- Energy efficient servo driven gear pump with closed loop pressure transducer feedback
- Separate manifolds for injection unit and clamping unit
- All hydraulics seals are as per ISO Standards
- Oil temperature indication with alarm
- Return line & suction filter provided to clean the oil
- Ergonomic hydraulics layout for easy approach & easy for maintenance

#### Temperature control

- Actual temperature display of heating zone with colour change effect.
- Thermocouple failure detection
- Accurate PID temperature control setting on screen
- Auto heat start up & shut down program
- High/low temperature alarm
- Set & actual temperature data with graphical display
- Soak timer for cold start protection

#### Controls

- 10.2" vertical TFT colour display with alpha numeric keypad
- Actual injection speed & pressure with graphical display
- Configure different level of password for different users
- Easily programmable & user friendly
- USB port provided to copy data or production report
- Ethernet connection port for internet connectivity
- Timer precision with 0.01second
- Alarm history provide to recall the fault analysis
- Visual & Audible alarm
- I/O diagnosis for analog & digital
- Mould data storage

#### Optional Features

- Air ejector
- Hydraulics core pull
- Un screw feature for electric motor
- Water manifold
- Robot interface
- Bimetallic screw & barrel

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## TOGGLE CLAMPING INJECTION MOULDING MACHINE



UNIT - I , PLOT NO. 94,SECTOR 7, IMT MANESAR  
UNIT-II , PLOT NO. 139 SECTOR-8, IMT MANESAR  
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UNIQUE ■ ADVANCE ■ ENERGY EFFICIENT

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