

## PLASTEK - 50 (Hybrid)

# KESTREL



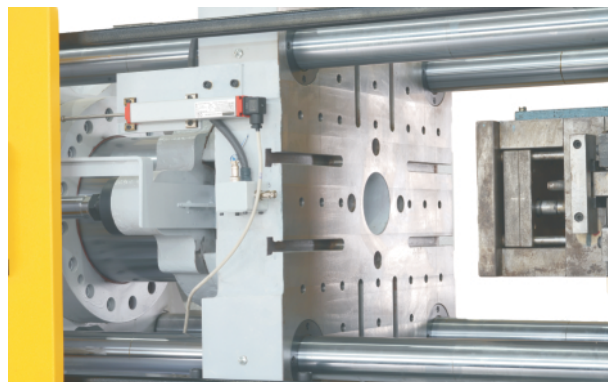
- Direct Hydraulic clamping (Ram Lock)
- Meant for High precision part manufacturing
- Lowest Maintenance Cost
- Large platen size for high cavity molds with hot runner system
- Cartridge Hydraulics makes smooth operation
- Rigid platens for lowest deflection
- User friendly controller

Producing high quality injection molded parts with effective power savings has become a standard requirement. Kestrel has been designed and built to meet these requirements and to deliver quality performance.

## CLAMPING UNIT:

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Direct hydraulic clamping with robust castings, large ram and rigid structures of moving and stationary platens provided for a deflection free clamping system. This is an essential requirement for molded part quality and mold life. High quality manufacturing helps to protect the mold even with the highest sensitivity.



## HYDRAULICS:

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Clamping and injection hydraulic designs with manifold design placed at appropriate positions bring about best possible hydraulic responses. Variable pump as a standard equipment is ideal for short cycle time and the servo system is an option for long cycle time production. This ensures best levels of power savings.



## INJECTION UNIT:

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A maintenance free double cylinder construction runs on a high quality LM guide. This enables the injection unit to respond to the injection profile to the highest levels and aids precise repeatability. Close looped injection, as an option, can be utilized for production of high precision industrial parts with graphical injection profiles. This is a Hybrid injection unit where plastisizing is done with a separate servo motor and hence there is a substantial power saving, reducing in heat build up of oil also support to get sustained accuracy with injection.



## PLASTEK - 50 (Hybrid)

Specifications	Unit	050	
		A	B
<b>INJECTION UNIT</b>			
Screw Dia	mm	25	28
Injection Pressure	kgf/cm <sup>2</sup>	3120	2487
Injection Volume	cm <sup>3</sup>	56	71
Shot Weight PS	g	50	64
Shot Weight PE	g	40	50
Screw stroke	mm	115+5	115+5
Injection Rate (Max)	cm <sup>3</sup> /sec	51	64
Injection speed (Max)	mm/sec	118	118
Plasticizing Capacity	kg/hr	20	22
Max Screw Speed	rpm	300	300
L/D Ratio	-	20:01	20:01
Nozzle Contact Force	ton	1.1	1.1
Heater Capacity	kw	6.2	6.2
<b>CLAMPING UNIT</b>			
Clamp Force	ton	50	
Mold Opening Force	ton	2	
Mold Opening Stroke	mm	350	
Distance Between Tiebars	mm	320X320	
Platen Dimension	mm	500X515	
Maximum Day Light	mm	500	
Minimum Mold Height	mm	150	
Mold Closing Speed	m /min	40	
Mold Opening Speed	m /min	40	
Ejector Force	ton	1.8	
Ejector Stroke	mm	75	
<b>GENERAL</b>			
Pump Motor Variable - A37	kw	7.5	
Oil Tank Capacity	Litre	125	
Machine Dimension (L X W X H)	mm	4000X1000X2000	
Machine Weight	ton	4	
System Pressure	kgf/cm <sup>2</sup>	150	

Note : Above specifications subject to change without prior notice

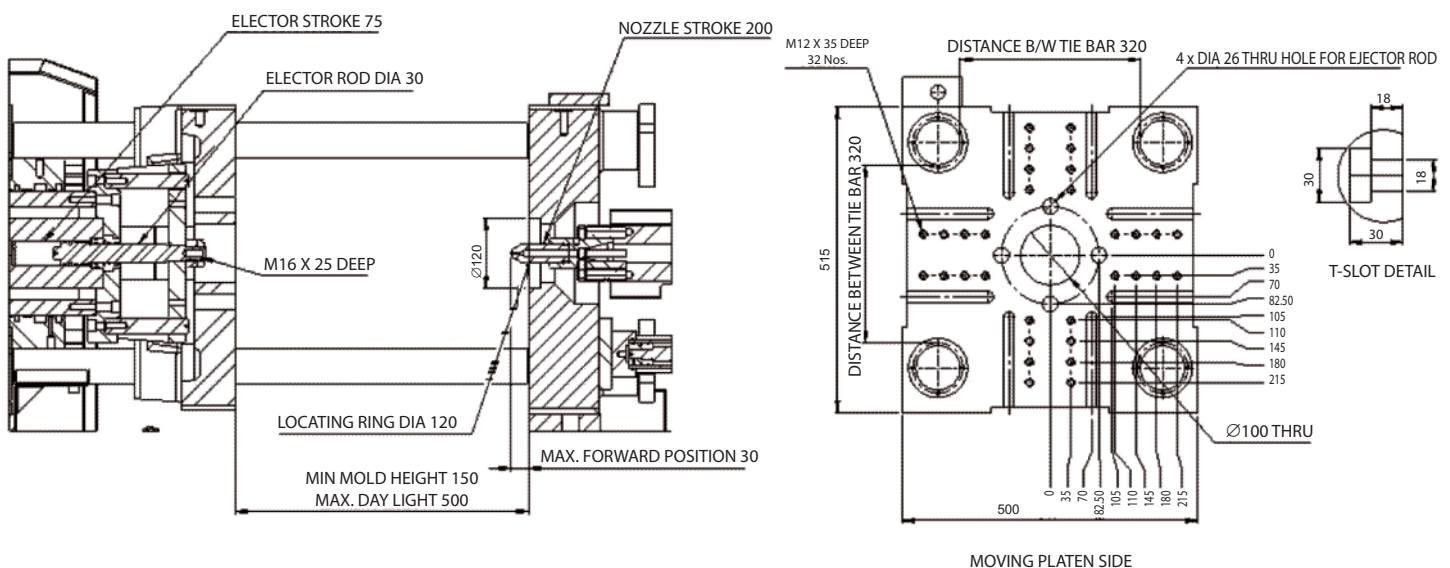
## STD EQUIPMENT (CLAMP)

- Direct Hydraulic Clamping
- Infinitely variable clamping force
- Direct Clamp measurement
- Mold safety with 'Slow down' function for smooth mold close
- Clamp stroke with Linear Scale
- Safety door interlock

## OPTIONAL:

- Hydraulic core pull
- Servo pump hydraulics
- Special nozzle heater
- Dual flow servo for better hold On
- Bimetallic screw barrel
- Hotsprue controller
- Closed loop Injection
- Back pressure control with proportional valve
- Mold close slow down with proportional valve
- Pneumatic ejection

## PLATEN DIMENSIONS



ALL DIMENSIONS ARE IN MM

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