

Super

## **HIGH SPEED SERIES**

**218 TON to 480 TON** 



Mfg. of **Plastic Injection Moulding Machines** 

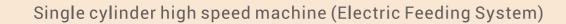
## **AUXILIARY EQUIPMENT**















## Some industry application cases



Civil household

Product: Flowerpot
Raw Material: PP
Machine Model: 390DHS
Cavity: 2
Cycle time: 9s



Food Industry

Product: Thin walled food containers
Raw Material: PP
Machine Model: ESM 390 TDHS
Cavities: Bottom - 4 cavities, Cover - 6 cavities
Cycle time: 5.1s

- patent name:a Return Drive structure of injection molding machine cylinder
- Patent number:ZL 2014 1 0079858.6



Medicalindustry

Product: Syringe
Raw Material: PP
Machine Model: ESM 390DHS
Cavity: 48
Cycle time: 18s

- Patent name:a Oil leakage prevention structure of injection molding machine
- Patent number:ZL 2014 1 0081089.9



Food Industry

Product: Disposable knife, fork and spoon Raw Material: PP

Machine Model: ESM 390DHS

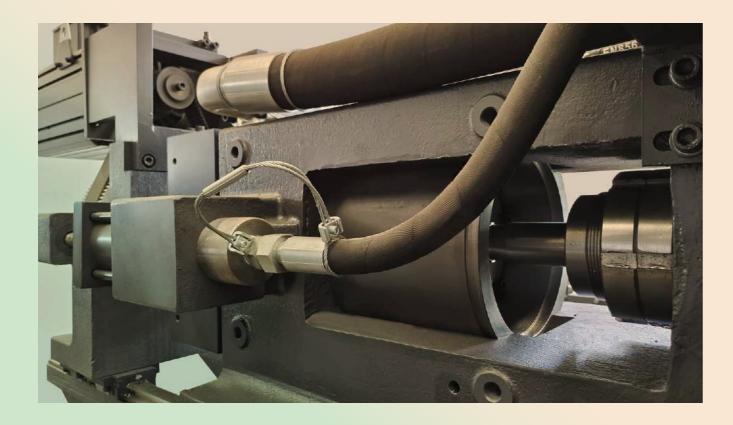
Cavities: 32 Cycle time: 8s



#### **INJECTION SYSTEM**

#### Single Cylinder Injection

• Our patented single cylinder injection structure not only solved the oil leakage problem of other single cylinder structure in the market, but also improved injection accuracy and synchronization.



#### Electric Feeding System

 Adopting energy-saving servo motor electric feeding system to achieve material feeding while mold opening, which can shorter the recycle time and save energy efficiently.

#### Nano Heater

 Increasing temperature quickly, better heater preservation and more energy saving.







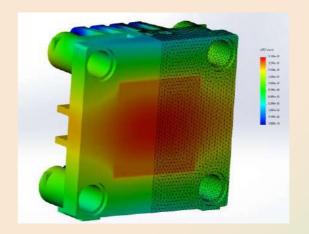
### **CLAMPING SYSTEM**

#### Mechanic Movement Parameter

Soft curve design ensures the movement more smoothly.

#### Special Designed Plate For High Speed Machine

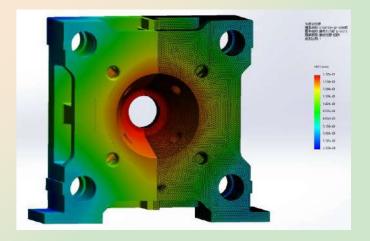
 With finite element technical analysis, the deformation coefficient is reduced by more than 20%, and the stress is reduced by about 30%, which is more suitable for thin-walled products.



#### Tie Bar

• Special designed high speed tie bar is very suitable for high frequency clamping, which has much longer life time.





#### Pin

• The special designed pin can greatly reduces the stress of the pin.



#### Self Lubrication Steel Sleeve & Cubber Sleeve

 Self lubrication design can make sure the lubrication function under high frequency mold clamping.





#### Enlarged Tie Bar Space

 With more space to put molds, which provides wider application of products.

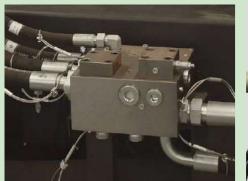




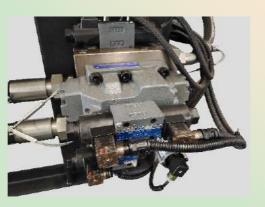
## **HYDRAULIC SYSTEM**

### Oil circuit system

• Special designed hydraulic circuit system can make the mold opening and clamping more stable and quickly.









## ELECTRONIC CONTROL SYSTEM

#### Controller

• TECHMATION computer specially for high speed machine has more fast response and control more precisely.

#### **Element Component**

• Adopting international famous brand element component, which has more stable performance.



## Single cylinder high speed machine parameter table

SPECIFICATIONS		ESM 218TSH	ESM 265TSH	ESM330TSH		ESM 390TSH		ESM 480TSH	
INTERNATIONALLY RECOGNIZED MODEL		449	449	449		449		449	
		A	A	А	A B A			A	
INJECTION UNIT									
CLAMPING FORCE	mm	40	40	53	58	53	58	53	58
SCREW L/D RATIO	L/D	26.4	26.4	25.5	24.5	25.5	24.5	25.5	24.5
SHOT VOLUME	cm³	234.7	234.7	418	607	418	607	418	607
INJECTION RATE	g/s	632.7	632.7	810	1239	810	1239	810	1239
INJECTION PRESSURE	Мра	191.1	191.1	151(180)	150.4	151(180)	150.4	151(180)	150.4
SCREW SPEED	rpm	350	350	350	400	350	400	350	400
SHOT WEIGHT	g	214	214	384	558	384	558	384	558
SHOT WEIGHT	oz	7.549	7.549	13.55	19.68	13.55	19.68	13.55	19.68
INJECTION SPEED	mm/s	500	500	400(510)	510	400(510)	510	400(510)	510
INJECTION SPEED (OPTIONAL)	mm/s	800	800	800	800	800	800	800	800
CLAMPING UNIT			'						
CLAMPING FORCE	Kn	2180	2650	3300		3900		4800	
TOGGLE STROKE	mm	500	560	600		660		740	
SPACE BETWEEN TIE BARS	mm	510*510	585*565	620*585		685*685		765*765	
MAX.MOULD HEIGHT	mm	530	600	640		660		780	
MIN.MOULD HEIGHT	mm	200	200	200		210		280	
EJECTOR STROKE	mm	150	150	150		170		170	
EJECTOR FORCE	Kn	70	70	70		90		90	
EJECTOR NUMBER		8+1	12+1	12+1		12+1		12+1	
DIAMETER OF CLAMPING ROD	mm	90	95	130		140		150	
OTHER									
SYSTEM PRESSURE	Мра	16	16	16(19)	19	16(19)	19	16(19)	19
HEATER POWER	kw	24.7	24.7	36	37	36	37	36	37
OILTANK CAPACITY	L	600	600	60	0	600		600	
MACHINE WEIGHT	Ton	8.5	10	12		15		20	
BOUNDARY DIMENSION (LxWxH)	m	6.4*1.47*2.2	6.7*1.6*2.4	7.1*1.47*2.46		7.3*1.8*2.46		8.0*1.8*2.46	
SERVO DRIVER CAPACITY	kw	55+55	55+55	55+55		55+55		55+55	

<sup>\*\*</sup>Note: The technical specifications can be changed without prior notice.

# PLATEN DIMENSIONS

