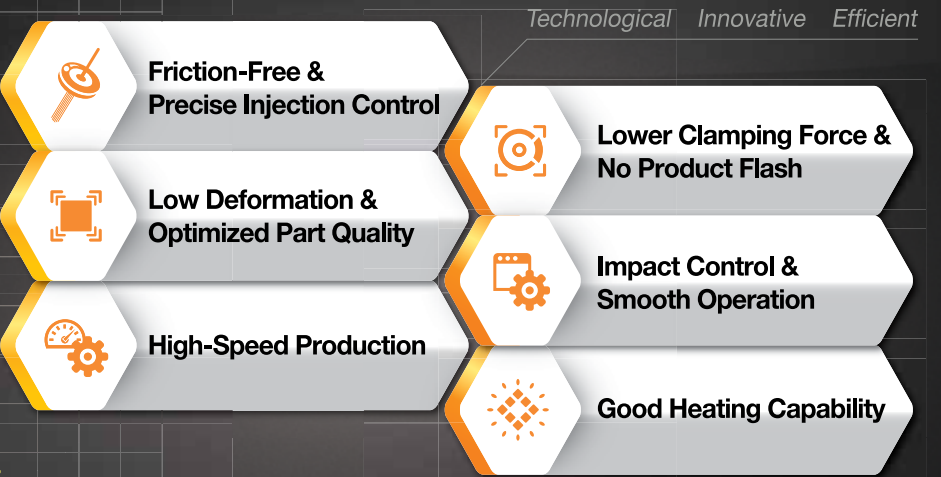


# Super Master EV3 SERIES SERVO DRIVE

## Key Features

- Super energy - saver
- Super quiet operation
- Superior stability and reliability
- High speed and short cycle time
- Excellent screw with good plasticizing and mixing properties



## High-performance and versatile screw designs



② Variations based on process requirements

- Standard nitrided screw - versatile, all-purpose single-flight
- PVC screw (optional) - hard-chrome-plated, corrosion-resistant, high quality finish for PVC and other corrosive resins
- Specialized PC barrier screw (optional) - hard-chrome-plated, 42CrMoAl steel

③ Mixing screws for high-demand mixing requirements

- Standard mixing head (optional)
- High-mixing barrier screw (optional)

**ASIAN PLASTIC MACHINERY CO., LTD**

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**ASIAN PLASTIC MACHINERY CO., LTD**

**CHEN HSONG**



Super Master  
**EV3 SERIES SERVO DRIVE** Injection Molding Machine

# B&R SmartMold Controller

The world's well known company with a global service covering more than 63 countries worldwide including 8 customer bases in Taiwan and China for instant services. Management in the worldwide supply and maintenance of parts, which is continuously guaranteed for 10 years. Excellent performance.

- **Excellent Debug Capability**
- **Plenty of automatic functions**
- **Intelligent control and management**
- **X86 based Smart mould controller with B&R 10.4" Colour TFT Monitor**



## Standard Features

### Clamping Unit

1. Automatic toggle lubrication
2. Adjustable mechanical safety lock
3. Hydraulic safety device
4. Automatic mould thickness and clamping force adjustment
5. High tensile chrome-plated tie bars
6. Differential boost for high-speed clamping
7. EUROMAP standard ejector

### Hydraulics Unit

1. Speed and pressure control via servo drive
2. Low noise internal gear pump
3. AC servomotor
4. High efficiency oil cooler
5. Suction and return line filter

## Optional Features

### Clamping Unit

1. Core pulls
2. Robot mounting plates
3. EUROMAP 67 robot interface with connectors
4. T-slot
5. EUROMAP/SPI holes pattern
6. Air blows
7. Oil less bushings for toggles system
8. Ejection-on-fly/ core-pull-on-fly
9. Increase ejector stroke
10. Safety door with electrical safety interlock protection

### Hydraulics Unit

1. Oil temperature control, with or without alarm
2. Oil level alarm
3. Unscrews
4. 3R by-pass filter
5. External return line filter
6. External suction filter
7. Enlarge/reduced plasticizing motor
8. Enlarge oil cooler
9. Enlarge/reduced servo pump
10. Hydraulic oil preheat

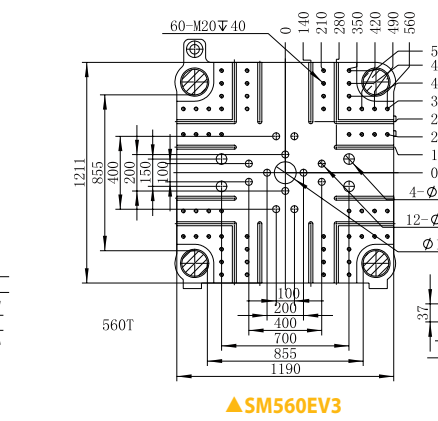
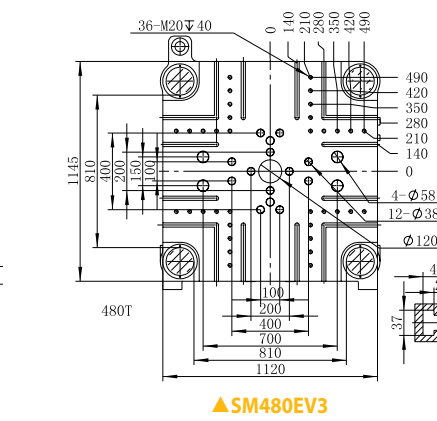
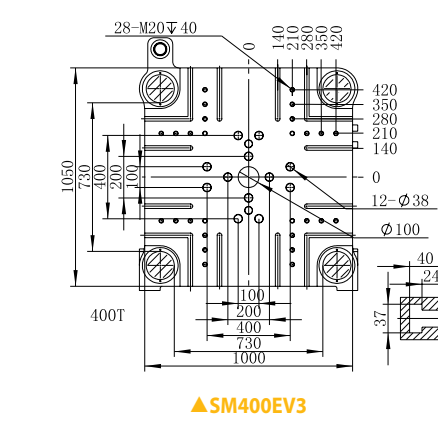
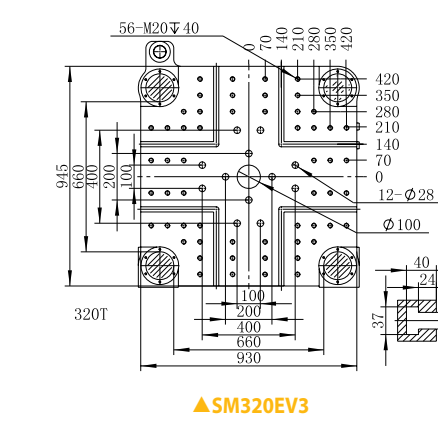
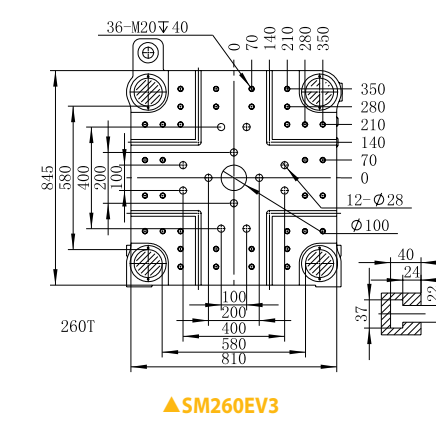
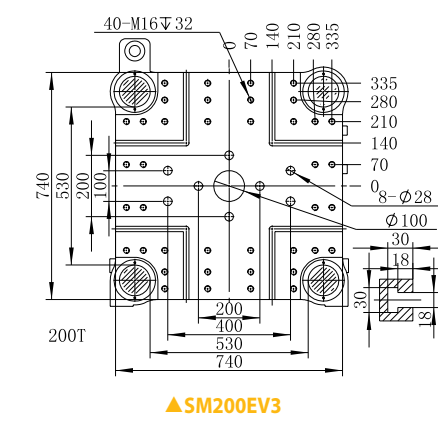
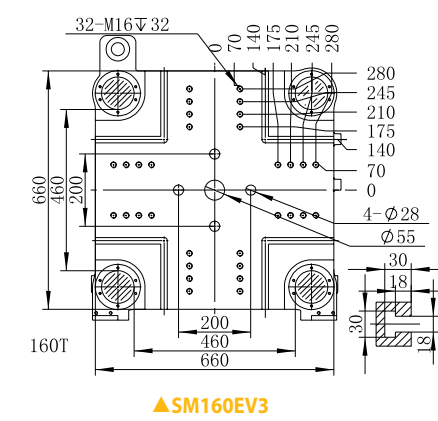
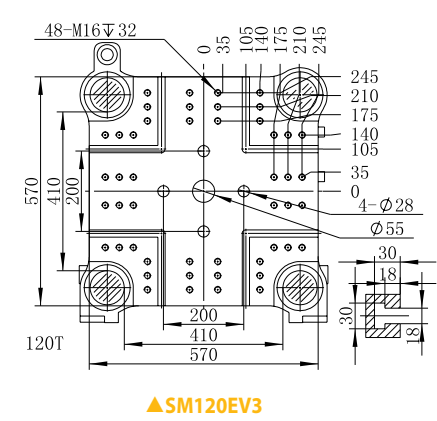
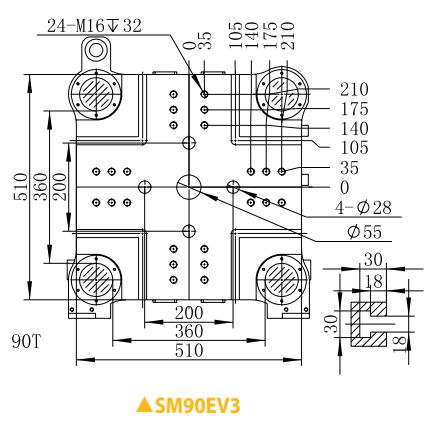
### Injection Unit

1. Barrel thermal insulation cover
2. Reduced/enlarged injection unit
3. Feeding zone temperature control
4. Bimetallic screw/ barrel
5. Movable hopper
6. Stainless-steel hopper
7. Extended nozzle
8. Chrome plated nozzle
9. PVC and UPVC-specialized injection units
10. Ceramic heater bands
11. Locking type screw head set
12. Mixing head

### Controller

1. Voltage stabilizer
2. Beckhoff CBmold controller
3. Multi-zone hot-runners control

## Mold Platen size



## Specification

Machine Model	Unit	SM90EV3	SM120EV3	SM160EV3	SM200EV3	SM260EV3	SM320EV3	SM400EV3	SM480EV3	SM560EV3	
<b>Injection System</b>											
Screw Diameter	mm	31	36	41	36	41	46	41	46	52	
Screw L/D Ratio	L/D	24.4	21.0	18.4	23.9	21.0	18.7	23.6	21.0	18.6	
Screw Stroke	mm	180		205		230		260		300	
Swept Volume	cm <sup>3</sup>	135	183	237	208	270	340	303	382	488	
Shot weight(PS)	g	123	166	216	189	246	309	276	347	444	
	oz	4.4	5.9	7.6	6.7	8.7	10.9	9.7	12.3	15.7	
Injection Pressure(max.)	kgf/cm <sup>2</sup>	2367	1755	1353	2302	1775	1410	2233	1774	1388	
Injection Rate	cm <sup>3</sup> /s	76	103	133	98	128	161	127	160	204	
Screw Rotation Speed(max.)	rpm	207		225		220		180		183	
<b>Clamping</b>											
Mould Clamping Force(max.)	t	90		120		160		200		260	
Opening Stroke	mm	330		370		420		490		530	
Spae Between Tie Bars(H*V)	mm	360x360		410x410		460x460		530x530		580x580	
Mould Thickness(min.-max.)	mm	130-380		145-450		160-520		180-550		195-610	
Maximum Daylight	mm	710		820		940		1040		1140	
Ejector Force(max.)	t	2.8		4.2		4.2		6.7		7.7	
Ejector Stroke	mm	100		120		140		150		170	
Mould Register Hole	mm	100		100		100		160		160	
<b>Plower / Heating</b>											
System Pressure	kgf/cm <sup>2</sup>	175		175		175		175		175	
Pump Power	KW	11		16		16		24		36	
Electrical Heating Power	KW	6.4		10.1		12.2		15.5		18.9	
Temperature Control Zones		3+1		3+1		3+1		4+1		4+1	
<b>Others</b>											
Machine Dimension(L*W*H)	m	4.3x1.2x1.8		4.6x1.3x1.8		5.2x1.4x2		5.7x1.5x2.1		6.4x1.6x2.3	
Oil Tank Capacity	liter	160		190		250		320		410	
Machine Weight(Approx.)	t	2.86		3.54		4.41		5.71		7.81	

Specifications may be changed without prior notice.