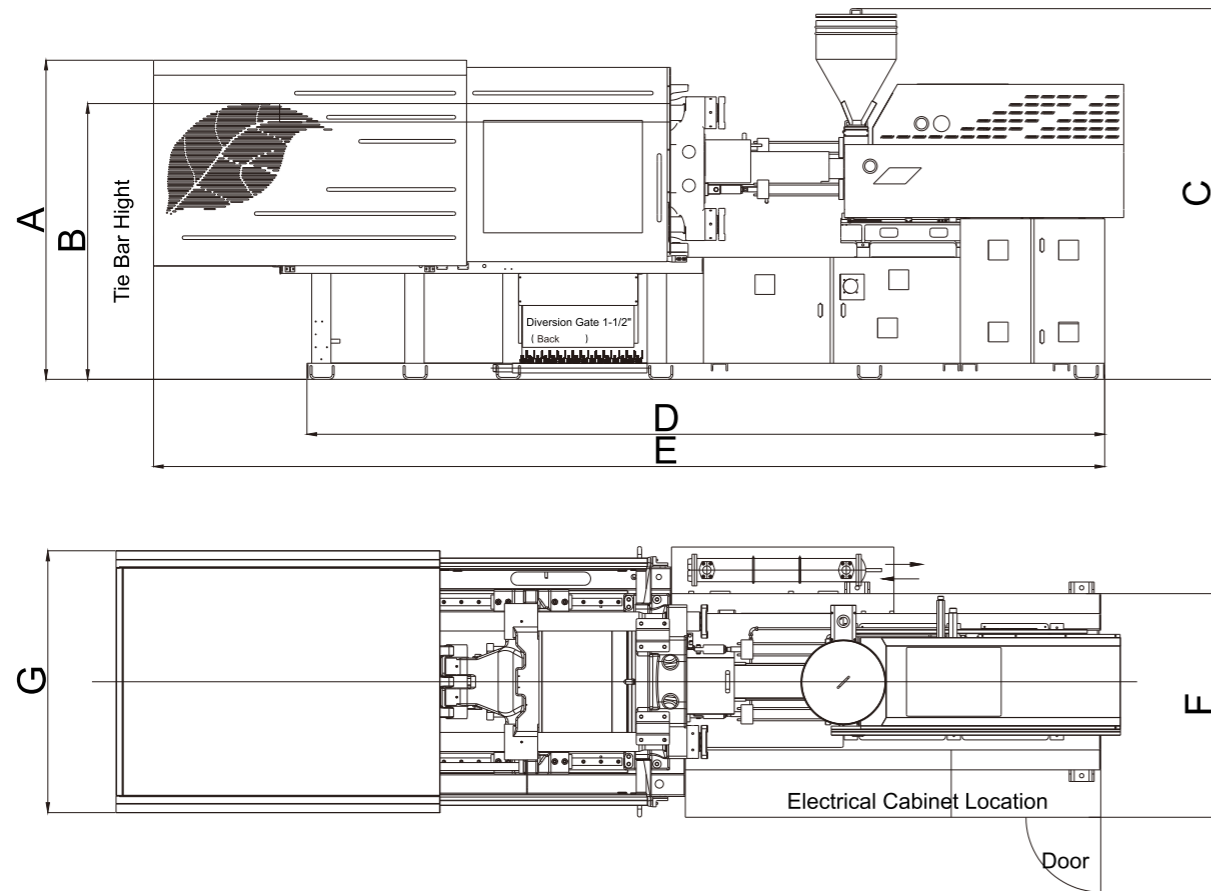


Machine Dimensions



| MODEL | A | B | C | D | E | F | G |
|--------|------|------|------|------|------|------|------|
| 233SEc | 1797 | 1642 | 2248 | 4710 | 5654 | 1710 | 1485 |
| 293SEc | 1879 | 1717 | 2308 | 4970 | 6060 | 1540 | 1573 |
| 353SEc | 1962 | 1766 | 2280 | 6222 | 7023 | 1934 | 1880 |
| 423SEc | 2011 | 1805 | 2322 | 6580 | 7431 | 2490 | 1980 |
| 613SEc | 2192 | 1966 | 2414 | 7551 | 8563 | 2614 | 2270 |

Remark: C-hopper height for reference only



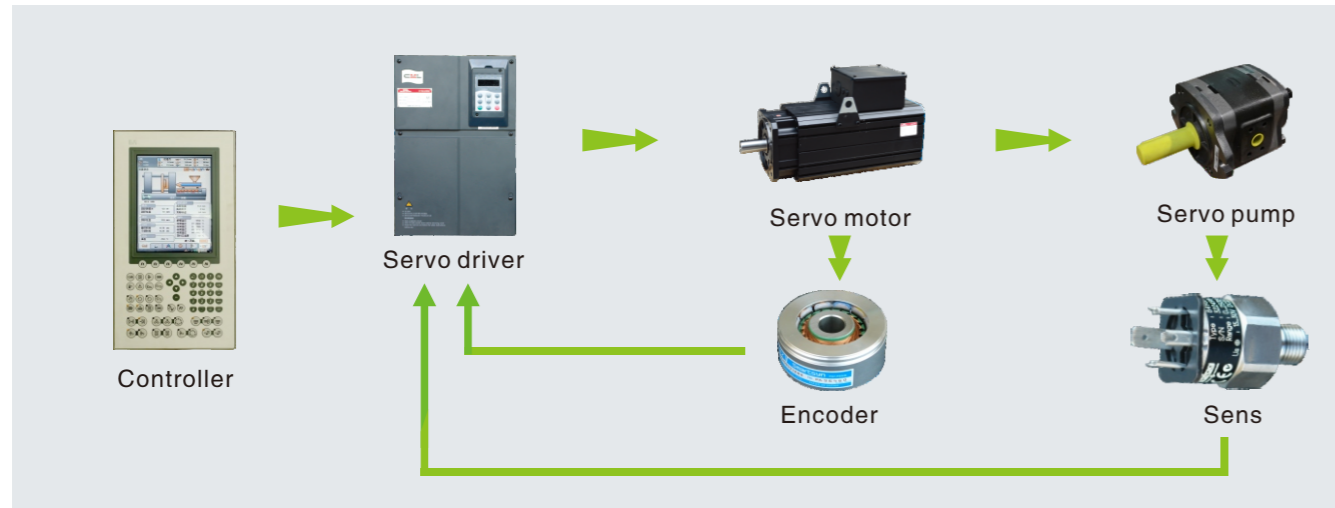
SEc Series Servo Energy Saving Thin-wall High Speed Special Injection Moulding Machine (233-613Ton)



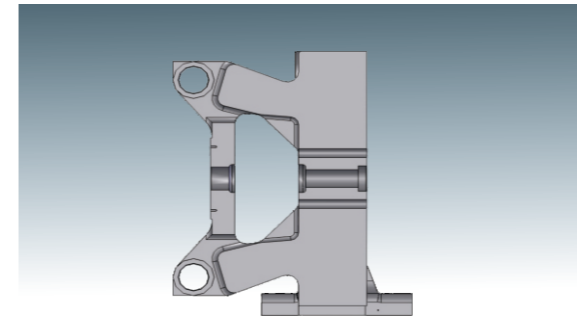


Structural Innovation

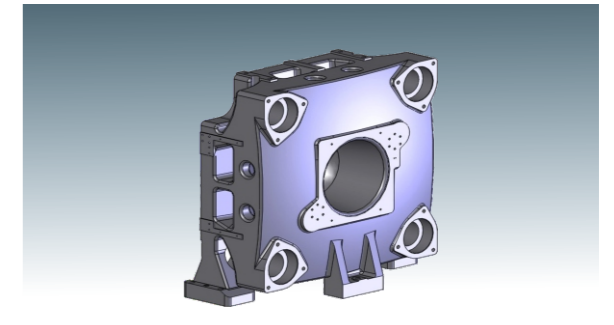
The precision and energy saving servo-driven system satisfies high-speed production.



Stresses are evenly distributed through the platens and the center of the mould, high platen-parallelism to minimize flashes and reduce the demand for clamping force.



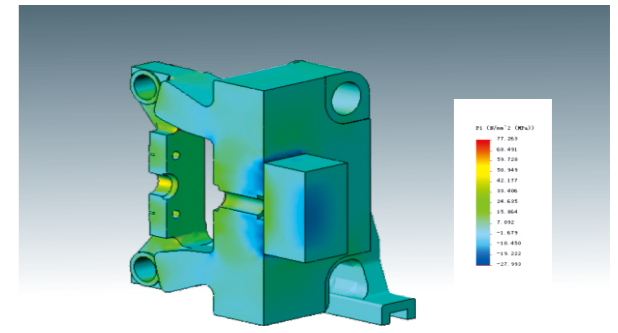
Stress-reducing mould platen designs to help maintaining platen-parallelism effectively and delivering products with even thickness.



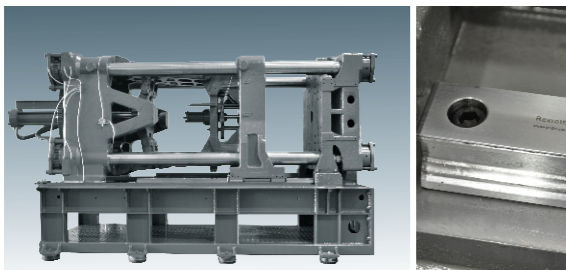
Austrian made, B&R professional control system designed for injection moulding machine, equipped with high-speed control program, 10.4-inch colour screen and network data interface. Providing excellent HMI user-friendliness.



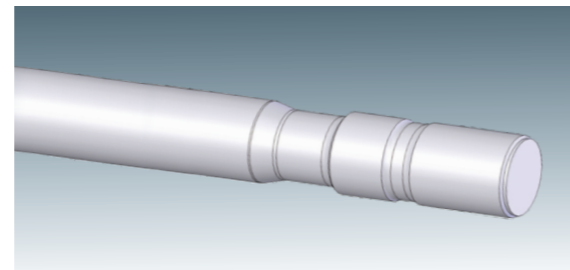
Optimised mould platen reduces deformation and stress. It improves durability to cater to high precision injection moulding.



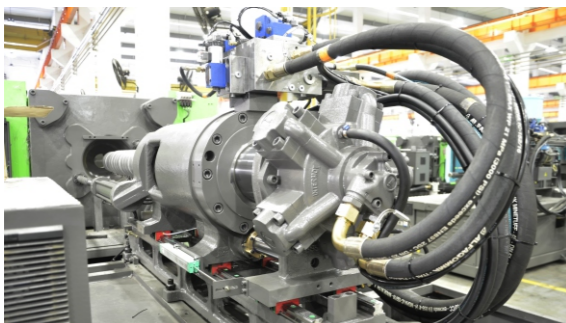
High rigidity clamping structure equipped with linear slide rail and proportional valve is more suitable for high speed system.



The special stress-relief groove of tie bar is designed to disperse the clamping stress and avoid breaking.



Injection by single cylinder to effectively avoid breaking of injection screw and piston which are commonly seen in the imbalanced double-cylinder injection designs.



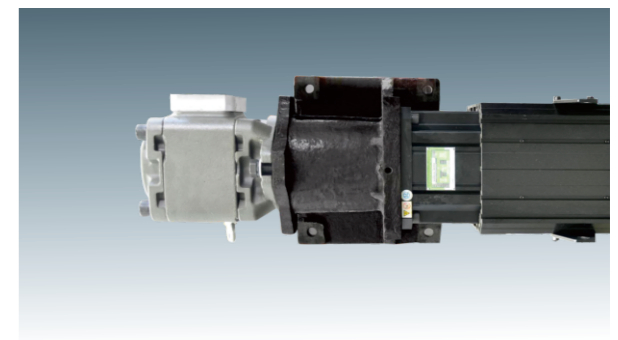
The design of the clamping toggle has been optimized to follow high-speed motion curve, and reduce stress for mould open/close which avoids damaging the toggle.



High-speed and stable hydraulic circuits for mould open/close to achieve very sensitive and low-pressure mould protection. Hydraulic components of renowned brands to ensure high repeatability in mould open/close position accuracy of $\pm 0.15\text{mm}$.



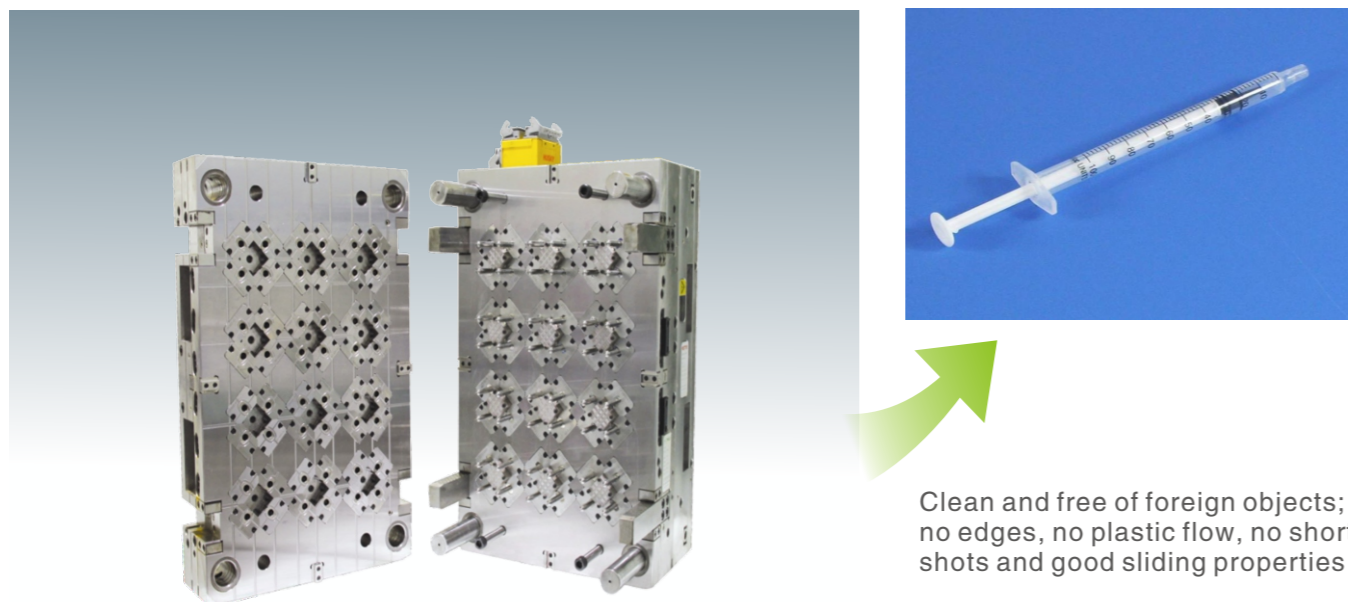
High response servo system is supported by -- High response, low inertia and high KT value special servo motor, 30ms perfect acceleration (0-2000rpm) together with the seamless connection by high response CAN communication servo driver and the special control system.





Medical Consumables

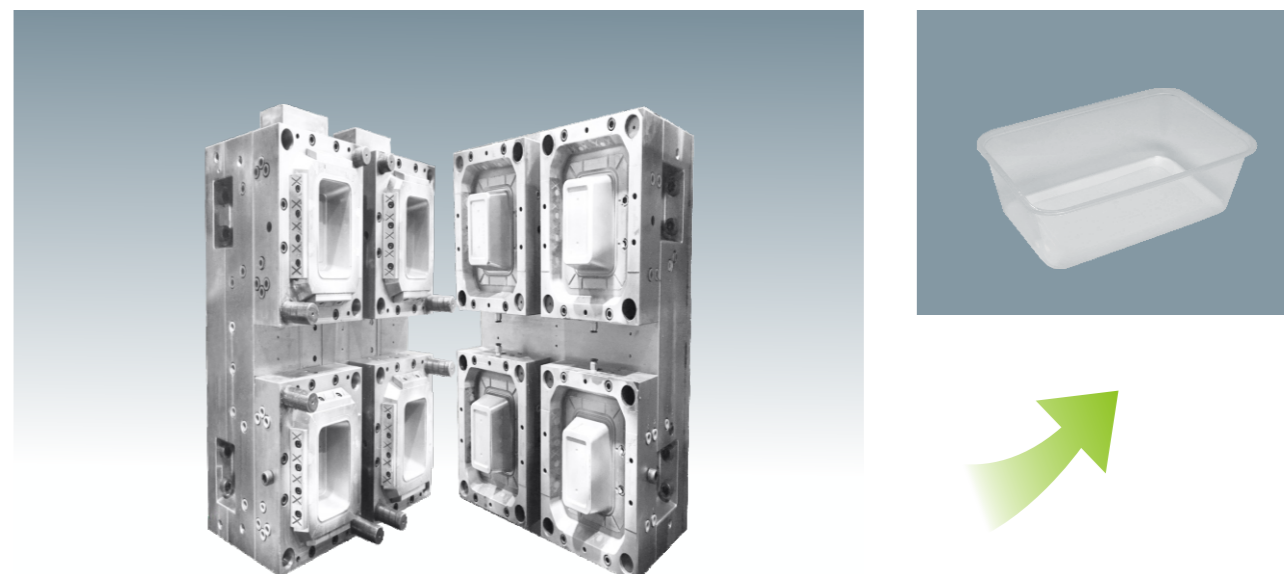
The features of injection moulded syringe:



Clean and free of foreign objects; no edges, no plastic flow, no short shots and good sliding properties

Food Packaging

The features of injection moulded food containers



Food container is durable. High pressure resistant and high-loading bearing qualities are achieved by uniform wall thickness, high tensile strength, good sealing and stable chemical properties.

Specification and model of medical consumable

| Number | Specification | Cavity Number | Model |
|--------|----------------------------------|---------------|--------|
| ① | Straight-mouth single-use barrel | 2ml | 233SEc |
| ② | | 5ml | 233SEc |
| ③ | | 10ml | 233SEc |
| ④ | | 20ml | 293SEc |
| ⑤ | | 50ml | 353SEc |
| ⑥ | Syringe plunger | 2ml | 233SEc |
| ⑦ | | 5ml | 293SEc |
| ⑧ | | 10ml | 233SEc |
| ⑨ | | 20ml | 293SEc |
| ⑩ | | 50ml | 423SEc |

Specification and model of food packaging

| Specification Number of cavity Model | Round/Square food container | | | | | | Round/Square lid | |
|--------------------------------------------|-----------------------------|-------|-------|--------|--------|--------|------------------|--------|
| | 350ml | 500ml | 750ml | 1000ml | 1250ml | 1500ml | 500ml | 1000ml |
| 233SEc | 4 | 4 | 2 | - | 1 | 1 | | 2 |
| 293SEc | 6 | 4 | 2 | 2 | 1 | 1 | 6 | 4 |
| 353SEc | 8 | 8 | 6 | 4 | 4 | 4 | 8 | 8 |
| 423SEc | 12 | 8 | 8 | 6 | 6 | 4 | 12 | 8 |
| 613SEc | 16 | 9 | 9 | 8 | 8 | 6 | 16 | - |

*The above is for reference only.





Main Specifications



| Item | | 233SEc | 293SEc | 353SEc | 423SEc | 613SEc |
|-------------------------------|----------------------|---------|---------|---------|---------|---------|
| Screw diameter | mm | 45 | 50 | 55 | 60 | 65 |
| Theoretical shot volume | cm ³ | 254 | 353 | 523 | 622 | 730 |
| Shot weight (PS) | g | 232 | 322 | 476 | 566 | 664 |
| Shot weight (PS) | OZ | 8 | 11.4 | 16.8 | 20 | 23.5 |
| Length/Diameter ratio | L/D | 22 | 22 | 25 | 25 | 23 |
| Injection pressure | MPa | 178 | 176 | 178 | 188 | 160 |
| Injection speed | mm/s | 225 | 300 | 380 | 475 | 500 |
| Injection rate | cm ³ /sec | 360 | 585 | 900 | 1345 | 1645 |
| Injection stroke | mm | 160 | 180 | 220 | 220 | 220 |
| Max. screw speed | rpm | 340 | 320 | 300 | 280 | 280 |
| Plasticizing capacity (PS) | g/s | 37.8 | 47.0 | 60.5 | 73.1 | 87.0 |
| Injection unit force | Ton | 5.7 | 7.2 | 10.7 | 10.7 | 10.7 |
| Carriage stroke | mm | 360 | 390 | 490 | 490 | 530 |
| Clamping force | Ton | 233 | 293 | 353 | 423 | 613 |
| Max. daylight | mm | 1070 | 1145 | 1300 | 1400 | 1600 |
| Clamping stroke | mm | 520 | 545 | 650 | 700 | 850 |
| Distance btwn Tie bars(H x V) | mm | 560x520 | 610x580 | 680x650 | 755x715 | 820x800 |
| Min. mould dimension(H x V) | mm | 390X360 | 420X400 | 470X450 | 530X500 | 575x560 |
| Mould thickness range | mm | 250-550 | 280-600 | 280-650 | 300-700 | 350-750 |
| Ejector force | Ton | 6.7 | 6.7 | 7.7 | 11.1 | 16.1 |
| Ejector stroke | mm | 120 | 120 | 140 | 150 | 200 |
| No. of ejector pins | unit | 5 | 9 | 13 | 13 | 13 |
| Max. motor power | kW | 34 | 51 | 80 | 128.7 | 131 |
| System pressure | MPa | 17.5 | 17.5 | 17.5 | 17.5 | 17.5 |
| No. of heater zones | unit | 5+1 | 5+1 | 5+1 | 5+1 | 5+1 |
| Heater input power | kW | 18 | 19.5 | 27.5 | 30 | 37.1 |
| Ultimate capacity | kW | 53 | 71.5 | 108.5 | 159.7 | 169 |
| Current | A | 81 | 109 | 165 | 243 | 257 |
| Machine net weight | Ton | 8.8 | 11 | 15.2 | 19 | 25 |
| Oil filling capacity | L | 450 | 460 | 800 | 1000 | 1300 |

Note:with* as a standard parameter

■ We are always working on improvement and reserve the right to change design and specifications without prior notice

Platen/Nozzle Dimensions

