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Technical Parameters Of The Injection Molding Machine



What are the key [technical parameters of the injection molding machine](#)? Here we introduce some of the technical parameters of the injection molding machine.

First, the technical parameters of the [injection molding components](#)

- (1) [Screw](#) diameter: outer diameter size of the screw
- (2) Screw effective length: The length (mm) of the thread on the screw is often used in L
- (3) Screw long diameter ratio L / D: The ratio of screw effective length and diameter
- (4) Screw compression ratio V2 / V1: The first screw volume V2 of the screw feed section is the least one screw tank volume V1
- (5) Injection molding stroke: the maximum distance of the screw movement, the maximum distance of the screw
- (6) Theoretical injection molding volume: the product of the screw head JIE area and the maximum injection stroke
- (7) Injection molding: The maximum weight (g) of the screw once injects PS
- (8) Injection molding pressure: maximum pressure MPA of the head pre-melt in the injection
- (9) Injection molding speed: maximum speed of the screw movement during injection (mm / s)
- (10) Injection molding time: When injection molding, the shortest time of the screw is over the injection itinerary.
- (11) Injection molding rate: the theoretical volume of injection within the unit time; screw JIE area × with the highest speed

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(12) Screw speed: When material plasticization, the lowest and highest speed range of screws

(13) Plasticization ability: in unit time, the maximum weight of plasticized materials

(14) Screw Torsion: When material plasticization, the maximum torque (N / m) of the screw drive

(15) Noise elongation: nozzle exits the front template, the length of the mold installation plane

Second, the technical parameters of the injection molding composite components

(1) Cooperative force: to overcome the melt clam mode, make the mold lock the maximum locking force

(2) Forming area: refers to the maximum projected area of the locking force under certain cavity pressure.

(3) Operation: To take out the product, make the maximum force on the mold

(4) Opening stroke: To remove the product, make the maximum distance of the template

(5) Template size: front and rear mold and moving template mold mounting flat size

(6) Removal modulus: Maximum thickness and minimum thickness of the mold can be installed on the injection molding machine

(7) Template: The maximum and minimum distance of the template and moving template of the injection molding machine

(8) Troll spacing: Pitch in the horizontal direction of the injection molding machine and the inner side in the vertical direction (mm)

Third, the whole performance technical parameters of the injection molding machine

(1) Motor maximum drive power: drive oil pump motor (kW)

(2) Tank capacity: Rated capacity of hydraulic system fuel tank

(3) Machine volume: Maximum length × height × width of the outer shape of the machine

(4) Weight: Total weight of the machine

Fourth, [mold clamp](#) specification technical parameters of injection molding machine

(1) Mold clamp size: Mold clamp M16 M20 M24 M30

(2) Mold clamp type: [Injection mold clamp](#), [CNC mold clamp](#), [Stamping die clamp](#), etc

(3) [Mould clamp manufacturer](#): [DGMF Mold Clamps Co., Ltd](#)

These are the four key technical parameters of the injection molding machine, besides the technical parameters of the injection molding machine article, you may also be interested in the below articles.

[Summary Of 50 Injection Mold Structure Operation Dynamic Diagrams](#)

[What Is An Overmold?](#)

[Auto Parts Stamping Die Design Concept](#)

[18 FAQ Of Injection Molding Machine Mold Clamping](#)

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