

Company

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## Product 製品紹介



### Plastic Injection

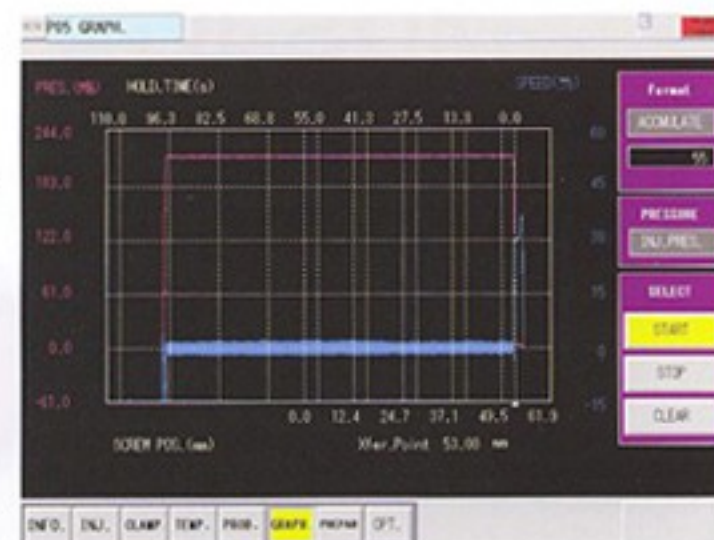
NIIGATA MACHINE TECHNO

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#### MDS - IV LP

This high-power machine has achieved long holding pressure molding using All Electric Machine, which was previously only possible using Hydraulic Machine.

- A newly developed motor is used.
  - An ultra-low inertia, low-speed and high-output motor is equipped.
- H.P.V control is used (PAT. PEND.)
  - A torque-loss reduction control is used during holding pressure.
- The "molding conditions, restriction" select function is used.
  - Maximum holding pressure can be maintained for up to 30 seconds with no limit on molding conditions.
  - A maximum 100-second continuous holding pressure is possible depending on the molding conditions.

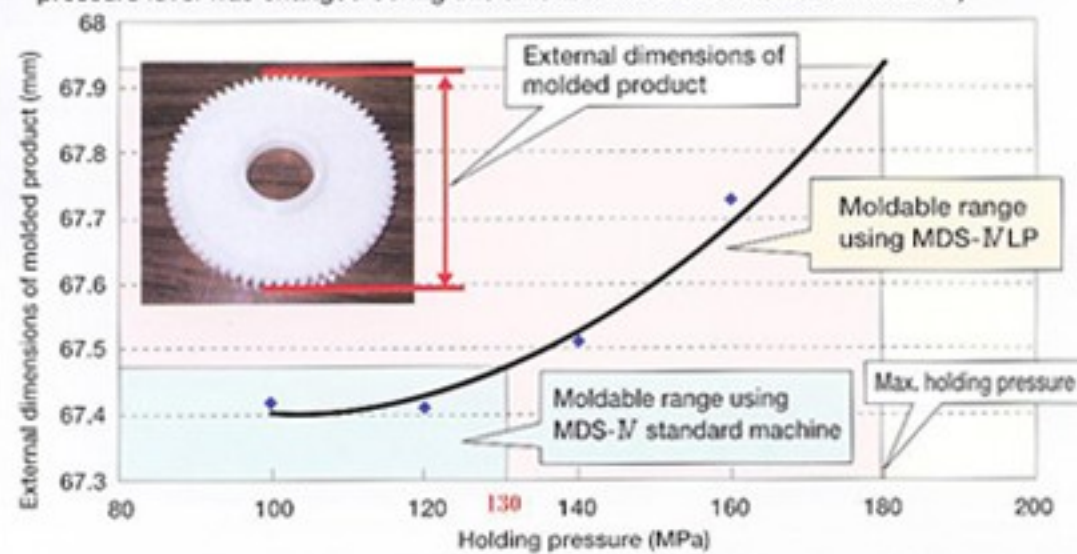


Pressure waveform at max. holding pressure 180 MPa when using the injection duty function



Thick lens molded using MDS-IV LP

Example of molding: With LP, the external dimensions of gear can be widely controlled by using holding pressure. (The holding pressure time is 20 seconds. The holding pressure level was changed during this time to control the external dimensions).



Items	Unit	MD50S-IV LP			MD75S-IV LP			MD100S-IV LP			MD180S-IV LP		
Injection Capacity	T · m	i 1.0			i 1.7			i 2.7			i 6.5		
Screw Type		YA	A	B	YA	A	B	YA	A	B	Y	A	B
Screw Diameter	mm	22	25	30	28	30	35	32	35	40	40	45	52
Shot Mass(PS)	g	35	45	65	68	78	106	104	124	162	237	300	401

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