

Thermoplastic Composite
Molding Process



Overview

- » Fast pressing
- » Servo system
- » Reliable
- » Safety



LFT-D molding process (Long-fiber Reinforce Thermoplastic Direct) is a new Long Fiber reinforced thermoplastic composite technology, which is a process technology for the direct online production of long fiber reinforced thermoplastic composite products.

The equipment adopts high pressure accumulator system and servo oil-electric system to achieve rapid pressure building and rapid pressing functions, which brings more possibilities for LFT-D molding technology. Continuous innovation and research and development, PENGDA is committed to the development of LFT-D molding process.

Advantage

- Frame structure to ensure equipment stability
- Servo system ensures stable operation, energy saving and reliability
- A variety of safety protection measures to keep the machine safe and reliable.
- Faster down and return speed effectively improve the production cycle.
- Low failure rate, long service life

Performance

» Servo system

1. Can effectively reduce equipment power and save energy
2. Run more smoothly and without vibration
3. Equipment operation accuracy is higher

» Accumulator system

1. The accumulator system can achieve rapid pressure building in 1s, providing assurance for the rapid molding of thermoplastic products
2. If you don't need such a fast time, we can not use accumulator, only servo system is enough.



» Four Leveling system

1. Siemens high precision control system
2. High frequency response servo valve
3. Shows the curve of pressure and displacement
4. High precision adjustment through the cylinder located at the four corners ensures that the horizontal accuracy of the slide is maintained during the downward movement
5. Suitable for thin-walled parts



Speed	V=1~5mm/s	V=10mm/s	V=20mm/s
Accurate	±0.05 mm	±0.10 mm	±0.20 mm

Parameters

Type		Unit	2000T	2500T	3000T	4000T	5000T	6000T
Max. fluid pressure		MPa	25	25	25	25	25	25
Max. Opening		mm	2400	2400	2600	3500	3500	3500
Max. Stroke		Mm	2000	2000	2200	3000	3000	3000
Working table size	L-F	mm	3000	3500	3500	4000	4200	4500
	F-B	Mm	2000	2500	2500	3000	3200	3200
Speed	Fast down	mm	800	800	800	800	800	800
	Pressing	mm	1-80	1-80	1-80	1-80	1-80	1-80
	Slow return	mm	1-80	1-80	1-80	1-80	1-80	1-80
	Fast return	mm	800	800	800	800	800	800
Leveling force		Ton	200	200	400	400	800	800
Level speed	V=1~5mm/s	±0.05 mm						
	V=10mm/s	±0.10 mm						
	V=20mm/s	±0.20 mm						
Power		mm	272	272	353	353	390	390

* Customer can also choose a little bit slow speed, then accumulator is not necessary, servo motor is enough.

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