

High-Pressure  
Resin Transfer Molding



## Overview

- » Conservation
- » Rapid
- » Reliable
- » Safety



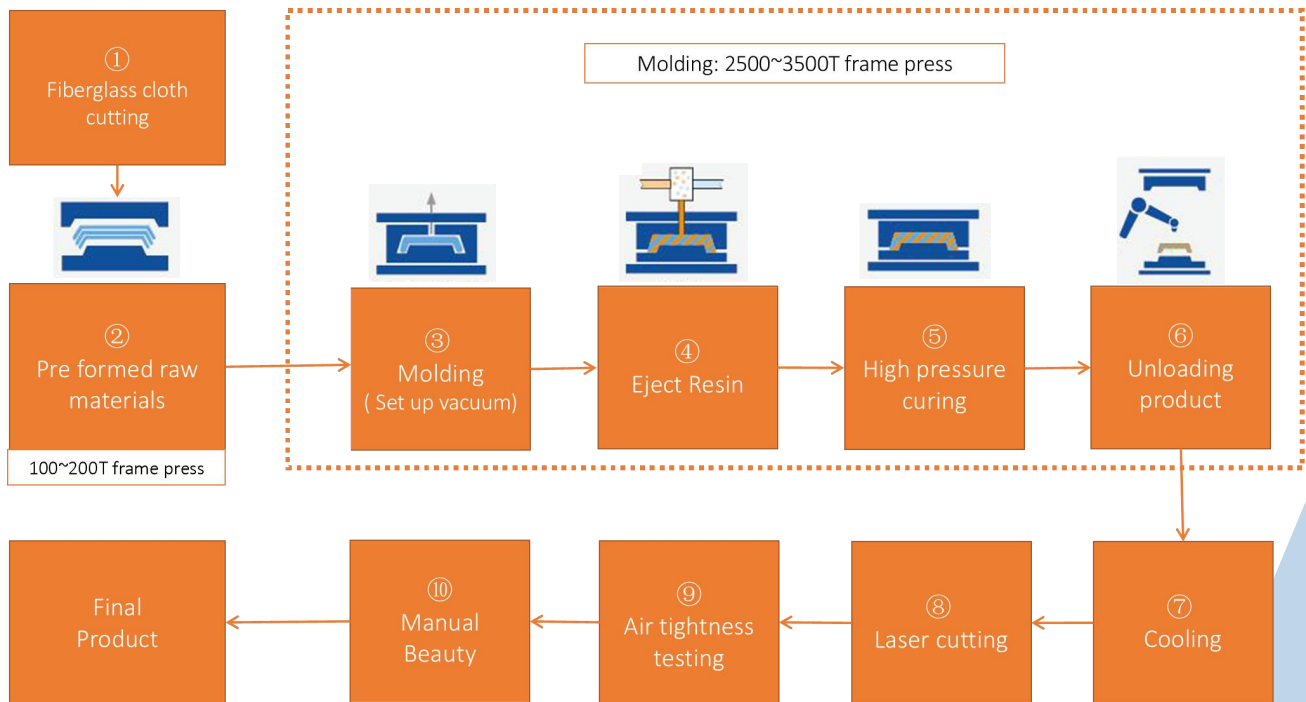
Fiber glass composite HP-RTM process is a new technology that combines traditional RTM technology with high pressure molding technology, which can greatly shorten the production time and reduce the production cost while ensuring product quality.

HP-RTM molded parts have the advantages of light weight, high strength, good fatigue resistance, high damage safety, good corrosion resistance, etc., and are widely used in aerospace, high-speed rail, electronics, military and other fields.

## 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.

## Produce process



## Performance

### » Heating system:

1. Maximum heating temperature: 200°C
2. Heating rate: 1~1.5°C/min
3. Normally equip with a 90KWx2 oil heater to separate control upper and lower tools.
4. Oil heater equip with PLC control system, directly show the temperature on the press touch screen. Equipment operation accuracy is higher

### » Vacuum system

1. Dual pump system
2. Imported vacuum pump to achieve rapid vacuum pumping in tool cavity
3. Under standard atmospheric pressure, the vacuum degree can reach -0.098Mpa

» **Four leveling system:**

1. Siemens control system
2. Separate closed loop system
3. Parallel control automatic intelligent adjustment
4. Leveling accuracy:  $\pm 0.05\text{mm/s}$

» **Glue injection machine joint adjustment:**

1. High pressure injection of two-component or multi-component resin raw material
2. Link between injection head and mold
3. Linkage debugging of press and glue injection machine

## Parameters

Type		Unit	Pre-molding press	Molding press
Force		Ton	100-200	2500-3500
Max. opening		mm	2000	2400
Max. stroke		mm	1600	1900
Working table size	L-R	mm	3000	3500
	F-B	mm	2000	2500
The height of working table		mm	0	0
Slider speed	Fast down	Mm/s	300	500
	Slow down	Mm/s	1-20	1-40
	Slow return	Mm/s	5-20	1-40
	Fast return	Mm/s	300	500
Power		KW	56	290
Four leveling system			/	Including

**PHP(Pengda Hydraulic Press)**

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