

## PS20 Twin Screw Laboratory Granulation Line

### Description

This pelletizing line is used for lab pelletizing, adopt special screw structure, can be pelletized with color masterbatch.

This line is mainly applied to the material color, new product development and research, technology research, advanced teaching experiment, masterbatch testing and etc..



### —. Using Condition

|                       |                                      |
|-----------------------|--------------------------------------|
| Electric resource     | 380V, 3PHASE, 50HZ                   |
| Plastic raw materials | By customer                          |
| Srip number           | 3                                    |
| Capacity              | 1-5kg/H                              |
| Total power           | 10kw                                 |
| Weight                | 1500kg                               |
| Dimension             | 3900×800×1500mm(length×width×height) |

### —. Technical Parameters

|                             |       |               |       |
|-----------------------------|-------|---------------|-------|
| 1、 PS20 Twin screw extruder | 1 SET |               |       |
| 2、 Mould                    | 1 SET | 3、 Water tank | 1 SET |
| 4、 Dryer                    | 1 SET | 5、 Pelletizer | 1 SET |

### III. Main Parts Specification

| 1. PS20 Twin screw extruder   |                              |           |
|---|------------------------------|-----------|
| Barrel screw diameter   | Φ20mm                        |           |
| Screw number  | 2                            |           |
| Screw speed )   | 50-600rpm                    |           |
| Screw L/D   | 44: 1                        |           |
| Screw structure   | mixing +air connection       |           |
| Barrel screw material   | High speed tool steel        |           |
| Barrel heating way  | Electric heating             |           |
| Motor   | Converter motor              |           |
| Motor power   | 4kw                          |           |
| Speed adjusting   | Frequency control            |           |
| Feeding system  | Single screw metering feeder |           |
| Feeder motor power  | 370W                         |           |
| Speed control   | Frequency control            |           |
| Cooling water   | Soft water                   |           |
| Water pump power  | 550W                         |           |
| 2. Mould  | Material                     | 45# steel |
|   | Strip number                 | 3         |
| 3. Water tank   | Material                     | SUS       |
|   | Length                       | 1000mm    |
|   | Roller                       | Movable   |
| 4. Dryer  | Power                        | 550W      |
| 5. Pelletizer   | Power                        | 0.75kw    |
|   | Max Output                   | 30kg/h    |
| 6. Electric control system  |                              |           |
| Control system  | Frequency control            |           |
| Temperature controller  | OMRON                        |           |
| Contactor   | SIEMENS                      |           |
| Tachograph  | QUANSHENG                    |           |
| 7. Safty protection   |                              |           |
| The control box has the power light, the stop switch, the emergency stop button |                              |           |
| Marked: all the dangerous and running place are marked                          |                              |           |