# STANDARD EPS PRODUCTION LINE

FANGYUAN - 2018 | Cluj, Romania

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|---|---|
| **Type** | Complete standard EPS production line |
| **Brand** | Hangzhou Fangyuan Plastics Machinery |
| **Year** | 2018 |
| **Location** | Cluj, Romania - European Union |
| **Asking price** | EUR 65,000 |
| **Sale basis** | EXW Cluj, Romania. Dismantling, disconnection, loading and transport by buyer unless otherwise agreed. |

Complete EPS production package covering pre-expansion, material storage, automatic shape moulding and cooling-water circulation. The equipment is currently installed and can be inspected before dismantling.

## 1. Fangyuan SPJ90A Batch Pre-Expander

Automatic EPS batch pre-expander supplied with main expansion machine, screw conveyor, fluidized-bed dryer and density-control unit.

| Parameter | Specification |
|---|---|
| **Expansion chamber** | Diameter 900 mm |
| **Density range** | 12-90 g/l |
| **Capacity** | Approx. 240 kg/h at 12 g/l; 350 kg/h at 18 g/l; 480 kg/h at 25 g/l; 590 kg/h at 30 g/l; 720 kg/h at 50 g/l |
| **Steam consumption** | 2-4 kg/cycle |
| **Steam pressure** | 0.6-0.8 MPa |
| **Compressed air** | 0.3-0.4 m3/cycle at 0.6-0.8 MPa |
| **Connected load** | 16.75 kW |
| **Typical cycle time** | Approx. 60-70 s |
| **Material capability** | White and grey EPS |
| **Controls** | PLC, density measurement and PCC density auto-adjustment system |
| **CE** | Supplier documentation states CE certificate |

Operating history: approximately 16,000 kg total EPS processed and approximately 800 production cycles.

## 2. EPS Storage System

| Parameter | Specification |
|---|---|
| **Quantity** | 6 silos |
| **Volume** | Approx. 25 m3 each / approx. 150 m3 total |
| **Approx. size per silo** | 2.5 x 2.5 x 5.5 m |
| **Construction** | Profile-steel structure, galvanized components and nylon-net silo body |

| Parameter | Specification |
|---|---|
| **Operation** | Air-cylinder control for filling hopper |

## 3. Fangyuan SPZ80K Automatic EPS Shape Moulding Machine with Vacuum

Fangyuan SPZ80K conventional automatic EPS shape moulding machine with integrated steam chamber and vacuum system.

| Parameter | Specification |
|---|---|
| **Moulding area** | 840 x 720 mm, including steam chamber and mould plates |
| **Individual mould positions** | 330 x 250 mm; up to 4 positions |
| **Steam pressure** | 6-8 bar |
| **Steam consumption** | Approx. 6 kg/cycle |
| **Compressed air** | 6 bar; approx. 1.2 m3/cycle |
| **Cooling water** | Approx. 40-120 kg/cycle (recycled water, closed-loop cooling circuit) |
| **Connected load** | 10.6 kW |
| **Typical cycle** | Approx. 90 s |
| **Overall dimensions** | Approx. 4,500 x 1,640 x 2,700 mm |
| **Machine weight** | Approx. 4,000 kg |
| **Machine design** | Integrated steam chamber; air-blow demoulding without ejectors |

Operating history: approximately 53,300 recorded machine cycles.

## 4. Complete Cooling-Water System

| Parameter | Specification |
|---|---|
| **Cooling tower capacity** | 100 m3/h |
| **Cooling tower power** | 4 kW, 380 V / 50 Hz |
| **Cooling tower inlet temperature** | Supplier quotation states 70 deg C |
| **Pumps** | 1 low-pressure pump + 2 high-pressure pumps |
| **Water filter** | DN150; nominal capacity 100 m3/h; 1.6 MPa; 100 micron; 304 stainless steel; 0.75 kW motor reducer; control box included |

## Included / Commercial Notes

- Package includes the SPJ90A pre-expander, 6 storage silos, SPZ80K shape moulding machine, cooling tower, pumps and Fangyuan water filter described above.
- Technical documentation, manuals, photos and videos are available.
- Inspection of the installed equipment is possible before dismantling.
- Moulds are not included unless specifically agreed.
- Dismantling, loading, transport, insurance and reinstallation are not included unless otherwise agreed in writing.
- The package can be combined with the separately offered SPZ6M special moulding machine and ICI SIXEN steam-generation plant.