PRE-INSTALLATION CHECKLIST

SP-R1300M7 Pre-Installation Checklist

Belino Wide Profile Sanding Machine SP-R1300M7
4,630 x 2,200 x 2,100 mm | 4,200 kg | 13.95 kW | 415 V / 50 Hz / 3 phase

1. Site & Foundation

- Final location is approved, level and capable of supporting the approximately 4,200 kg machine.
- Provide adequate operating, maintenance and 1,300 mm panel-handling clearance around the machine.
- Keep the area clean, dry, illuminated and free from unfinished construction or obstructions.

2. Unloading & Positioning

- Arrange a certified crane or forklift, lifting accessories and trained rigging personnel for the 4,200 kg load.
- Confirm access doors, passages and turning space before unloading; use only approved lifting points.
- Inspect the packaging and machine for visible transit damage and report it before commissioning.

3. Electrical Supply, Protection & Cable

- Provide stable 415 V / 50 Hz / 3-phase power; preliminary design current is approximately 34.5 A using 18.95 kW, PF 0.85 and efficiency 0.90.
- Preliminary recommendation: 40 A 4-pole industrial MCCB/MCB, coordinated with motor starting and the OEM panel, plus a lockable local isolator.
- Preliminary cable: 4-core x 6 mm2 copper flexible cable with a separate 6 mm2 green/yellow protective-earth conductor.
- A licensed electrician must verify phase sequence, voltage, earthing, fault level, cable length, derating and voltage drop before energising.

4. Voltage Stabiliser

- Design basis: 13.95 kW machine load + 5 kW approved surplus = 18.95 kW; 18.95 / 0.85 = 22.3 kVA.
- Provide a 25 kVA three-phase servo stabiliser minimum; consider 30 kVA for severe voltage variation or simultaneous motor starting.
- Specify bypass, digital metering and phase-failure, phase-sequence, under/over-voltage, overload, short-circuit and high-temperature protection.

5. Dust Extraction & Utilities

- Provide connections for five 200 mm dust-extraction outlets with suitable hoses and independently controllable branches.
- Confirm airflow and static-pressure requirements with Belino/Caple; do not size extraction from outlet diameter alone.
- Confirm whether compressed air or any other utility is required before installation; consumption is not stated in the source.

6. Raw Materials & Trial Production

- Keep all required raw materials ready on the day of installation.
- Provide representative solid wood, MDF, veneer and primer-coated samples used in normal production.
- Keep extra trial workpieces and approved surface-quality references ready for setting and comparison.

7. Operators & Training

- Make sure two designated operators are available throughout commissioning and hands-on training.
- Operators should understand the normal profiles, materials and required surface finish and should record approved settings.
- Provide PPE including safety shoes, eye protection, hearing protection and suitable respiratory protection.

8. Documents, Safety & Final Readiness

- Keep the approved layout, packing list, electrical diagram, operating manual, serial number and site contact details available.
- Arrange a qualified electrician and responsible site coordinator for installation and final trials.
- Confirm guards, emergency stops, fire protection, clear exits and housekeeping before Caple commissioning approval.

Engineering note: Breaker, cable, earthing, isolator and stabiliser selections are preliminary. Final selection must be verified against the machine nameplate, OEM electrical drawing, cable route, installation method, ambient temperature, permissible voltage drop and measured site fault level by a licensed electrical contractor.

Customer / Site Readiness Confirmation

Technical parameter	Confirmed value
Customer / site	
Installation address	
Planned installation date	
Site readiness checked by	
Signature and date	