

PRE-INSTALLATION CHECKLIST

Nanxing ND612DT

CNC 6-Side Drilling Machine

Confirm site readiness before scheduling installation. This checklist uses the supplied OEM specification with the selected 415V/50Hz supply. Final electrical details, extraction duty and application approval require confirmation.

Machine Specifications

Parameter	Value
Power supply / total power	415V/50Hz / 23.93KW
Air supply	0.6-0.7MPa
Machine size	6,150 × 3,010 × 2,320 mm
Total weight	3,650Kg
Panel length / thickness	200-3,000mm / 10-60mm
Panel width	30-1,200mm; 40mm with grooving
Main spindle power	Top 5.5kw / bottom 3.5kw
Tool magazine / control	6 slots / SYNTEC

1 Electrical Supply & Wiring

Verify the ordered electrical supply

- ☐ Selected SKU supply: 415V/50Hz. OEM-listed total power: 23.93KW. Obtain Nanxing's approved electrical drawing and confirm phase, tolerance, full-load current and the load of included accessories before connection.

Dedicated feeder and protection

- ☐ A qualified electrical engineer must size cable, isolation, protection and any voltage-correction equipment from the final nameplate, full-load current and site conditions.

Earthing and isolation

- ☐ Have protective earthing, bonding, isolation and test records ready. Connect only after the service engineer verifies the supply and safety circuits.

UTILITIES & SITE

2 Compressed Air

Air supply at the machine

- ☐ Provide 0.6-0.7MPa at the inlet during operation. Confirm required flow, inlet connection and pressure drop with Nanxing; these are not stated in the PDF.

Air quality and conditioning

- ☐ Obtain the OEM air-quality requirement and provide suitable filtration, drying, condensate removal and local isolation. Do not add lubrication without OEM approval.

Leak test and commissioning

- ☐ Complete a leak check, secure hoses and make the regulator accessible. Record working pressure during the site acceptance test.

3 Space & Civil Readiness

Layout and service access

- ☐ Machine size is 6,150 × 3,010 × 2,320 mm. Approve the final layout, access and operator space before placing the machine; the footprint alone is not the installation area.

Panel flow and access route

- ☐ Plan for 200-3,000mm panel length and 30-1,200mm width; grooving needs 40mm minimum width. Confirm front-return or front-in/rear-out workflow and material access.

Floor and environmental readiness

- ☐ Machine weight is 3,650Kg. Have the civil engineer approve support, point loads and levelling from the final foundation drawing. Keep control-cabinet cooling airflow unobstructed.

DELIVERY & COMMISSIONING

4 Material Handling & Unloading

Packing list and lifting plan

- ☐ Confirm packed dimensions, shipping weight, centre of gravity and OEM lifting points. Use a competent rigger and lifting equipment rated for the actual shipment, not machine weight alone.

Clear unloading route

- ☐ Confirm vehicle access, unloading space, doorway clearance and the complete route to the final location. Keep people outside the unloading and lifting exclusion zone.

Receive and inspect

- ☐ Check for transit damage, packing-list shortages and accessory condition. Photograph and report discrepancies before assembly or energising.

5 Machine & Process Pre-Checks

Verify the selected configuration

- ☐ Check the two-head side-routing aggregate (ISO30 / ER32 / Max6000 RPM), board thickness sensor and control-cabinet air conditioner against the order and delivery.

Extraction and aluminium application

- ☐ Three extraction ports: top 200mm × 2 and lower 125mm × 1. Confirm the OEM-stated air-speed unit before sizing. Obtain written OEM approval and sample trials for the intended aluminium honeycomb build-up, tooling and process.

Dust hazard assessment

- ☐ Have a competent specialist assess aluminium/composite dust, extraction suitability and housekeeping before trials. Aluminium dust can be explosible under suitable conditions (OSHA: <https://www.osha.gov/combustible-dust>). Do not assume a wood-dust system is suitable.

Guarding, tool limits and dry run

- ☐ Have the service engineer verify the complete safeguarding arrangement, interlocks, emergency stops, clamp clearance and tool limits before any run. Removing unselected catalogue options does not waive safe-operation requirements.

TEAM READINESS & SIGN-OFF

6 Resource & Personnel Readiness

People and supervision

- ☐ Nominate a trained operator, maintenance contact, qualified electrician and responsible site representative for commissioning and sign-off.

Programs, samples and inspection tools

- ☐ Prepare representative panels, drawings, approved tools and gauges. Validate file import using MPR, DXF, BAN, BPP, PDX, XML or XXL, as applicable.

Training and acceptance criteria

- ☐ Agree the sample parts, tolerances, safety checks and operator-training scope with Caple before the visit. Record trial results and any unresolved issues.

7 Recommended Spares & Accessories

Tooling and wear parts

- ☐ Agree suitable drill bits, ISO30/ER32 tooling and ER25 collets for the actual material and operations. Confirm dimensions, speed limits and approved spare quantities with Nanxing.

Maintenance consumables

- ☐ Arrange OEM-approved lubricant and specified filters, plus a maintenance log and cleaning equipment approved for the assessed dust hazard.

Important Notice

Incomplete site readiness may delay installation and attract additional service charges. The applicable daily rate and customer lodging/boarding responsibilities must be confirmed in writing with Caple before scheduling; no rate is assumed in this checklist.

CUSTOMER SIGNATURE & SEAL

DATE

AUTHORIZED BY

Service Head

Caple Industrial Solutions

Kindly sign, stamp, and return this checklist by email to sales@caple.in before the installation date.