TURBOJET

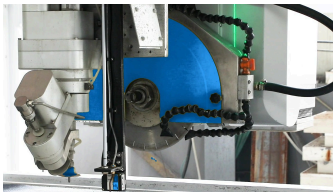
5-axis CNC sawjet: blade + waterjet



TurboJet, Next Level image (pump unit not shown)

PRODUCT OVERVIEW

TurboJet puts a blade saw and an abrasive waterjet on one 5-axis bridge. The blade does the fast straight cuts; the waterjet cuts curves, small radii, inside corners and sink holes, even in sintered stone and porcelain, without moving the slab to another machine.



Saw + waterjet head



Jet tilted, cutting

29.5 HP	65,000 psi	20 MP	90 hours
Saw motor (22 kW)	Rated jet pressure (450 MPa)	Camera photo layout	Installation + training

KEY SPECIFICATIONS

Waterjet cutting	149⅝ × 82⅝ × 2⅜ in (3,800 × 2,100 × 60 mm)
Saw chamfering	141¾ × 82⅝ × 2¾ in (3,600 × 2,100 × 70 mm)
Saw motor	29.5 HP (22 kW); 0–4,000 rpm
Blade	17¾ in (450 mm)
Pump motor	49.6 HP (37 kW)
Jet pressure	46,000–55,000 psi working
Jet head tilt	0–50°
Control	5-axis RTCP CNC; 21-inch industrial PC
Build	Galvanized tank and chassis; TÜV standard
Warranty	One-year limited

TWO TOOLS, TWO ENVELOPES

The blade and the waterjet have different work areas: saw chamfering up to 141¾ × 82⅝ × 2¾ in (3,600 × 2,100 × 70 mm), waterjet up to 149⅝ × 82⅝ × 2⅜ in (3,800 × 2,100 × 60 mm).

IDEAL APPLICATIONS

- Sink and basin holes, inside corners and small radii.
- Sintered stone, porcelain and ceramic as well as granite and quartz.
- Countertops cut, chamfered and holed on one table.
- Inlays, curves and shapes from DXF drawings.

INCLUDED CONFIGURATION

- TurboJet sawjet with high-pressure pump and automatic sand feeder.
- Next Level upgrade: automatic sand-cleaning machine.
- 21-inch industrial PC with the CNC software and office license.
- Camera, laser height gauge and blade probe.
- Vacuum cups to move plates; operating handle.
- Sealed electrical cabinet with industrial A/C.
- Spare-parts kit.
- Installation and operator training by Next Level technicians.

BEFORE YOU ORDER

Plan floor space for the pump and the sand feeder next to the machine, plus 87 psi (6 bar) compressed air. Abrasive, blades and wear parts are separate. Confirm your 3-phase voltage at order.

BLADE SPEED. WATERJET DETAIL.

The saw makes the straight cuts; the jet does what a blade can't. Photos: components in Next Level colors.



Saw and waterjet head

A 29.5 HP (22 kW) permanent-magnet saw motor and an abrasive waterjet nozzle share one 5-axis head. The jet tilts 0–50° for chamfers, and the saw-motor shaft has an inner water pipe, so it can also carry a drill or milling tool.

Saw speed	0–4,000 rpm, variable frequency
Jet nozzle	0.33 mm orifice; 1.02 mm mixing tube
Drives	Helical rack + pinion; ball-screw Z



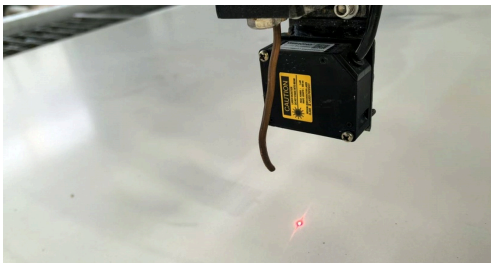
65,000 psi intensifier pump



Automatic sand feeder



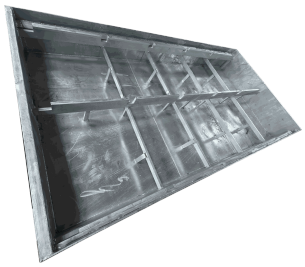
21-inch industrial PC



Laser height gauge



20 MP industrial camera



Galvanized water tank

Intensifier pump

37 kW (49.6 HP) motor, 20:1 boost ratio, up to 0.98 GPM (3.7 L/min); working pressure 46,000–55,000 psi (320–380 MPa); fan and heat-sink cooled.

Sand feeder

100 L pressure vessel holds 331 lb (150 kg) of abrasive, enough for 200–300 minutes of cutting; low-sand alarm; can feed up to two jet heads.

Measured before it cuts

A European-brand laser builds a height map along each cutting path, blowing the water film away first; a 20 MP, 1-inch CMOS camera photographs the slab so you program on the real slab.

Control and build

5-axis RTCP CNC, bus servos with absolute encoders; shape and countertop libraries, DXF import, nesting, vein matching, remote support. Galvanized, painted tank and chassis; 85° tilting table; automatic greasing. TÜV Rheinland certificate of conformity (EU Machinery Regulation 2023/1230); four sliding doors cut power when opened.

CAPACITY, UTILITIES AND WEAR PARTS.

TurboJet · technical data not shown on the pages before.

WORK AREA

X / Y travel	153½ × 111 in (3,900 × 2,820 mm)
Worktable	157½ × 82⅝ in (4,000 × 2,100 mm); faced with concrete plate or rubber; tilts to 85°

MORE TECHNICAL DATA

Blade	Flange 2 in (50 mm)
Blade probe	Measures blade diameter automatically
Abrasive flow	0–0.77 lb/min (0–350 g/min)
Axis speeds	X 164 / Y 131 / Z 26 ft/min (50 / 40 / 8 m/min)

MORE TECHNICAL DATA (CONT.)

Software license	Office license included

UTILITIES AND SIZE

Total power	69 kW
Water	13.2 GPM (3 m³/h)
Compressed air	87 psi (6 bar)
Size with front sliding doors (L × W × H)	20 ft 8¼ in × 17 ft 1⅜ in × 14 ft 3¼ in (6,304 × 5,215 × 4,349 mm)
Weight	28,660 lb (13,000 kg)

WATERJET WEAR PARTS.

Factory replacement intervals (Sep 29, 2026). Wear parts are not warranty items; life depends on hours, water quality and pressure.

REPLACEMENT INTERVALS

Keep abrasive sand and table grating or rubber sheets on the shelf too; clean, filtered supply water extends seal and orifice life.

3 months
Orifice, 0.33 mm

6 months
Seal kits, mixing tube, outer 1/4-in HP tubes

1 year
Valve kits, switch seals, inner HP tubes

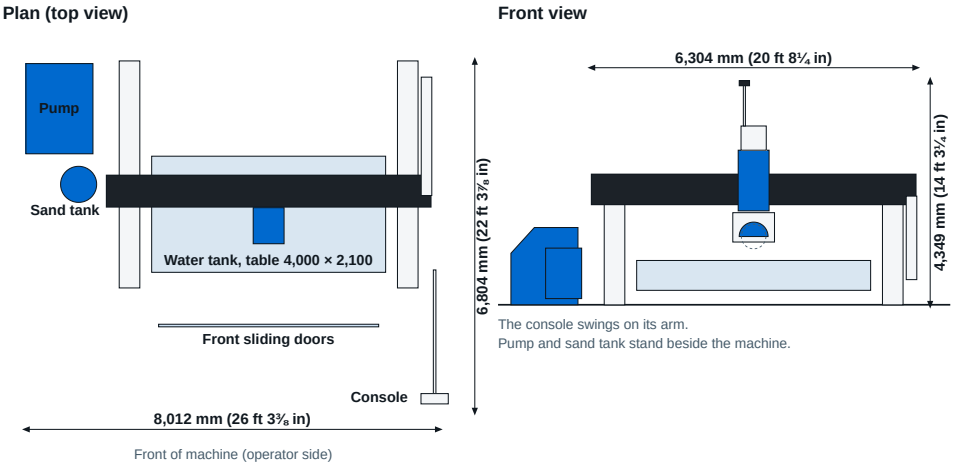
2 years
Valves, nozzle body, rotary joints

5 years
Proximity-switch cable

Factory data, Oct 28, 2026; size from the factory installation drawing (Nov 2026). U.S. values are converted and rounded. Pressures and flows are pump ratings; cutting speed depends on material, thickness and abrasive.

LAYOUT AND FOOTPRINT.

Drawn to scale from the factory's installation drawing. Your final drawing comes with the order.



FOOTPRINT

Floor area with pump and console	26 ft 3⅜ in × 22 ft 3⅞ in (8,012 × 6,804 mm)
Table	157½ × 82⅝ in (4,000 × 2,100 mm), over the water tank

BESIDE THE MACHINE

Pump unit (L × W × H)	51⅛ × 68⅞ × 59 in (1,300 × 1,750 × 1,500 mm); beside the left rail, 17¾ in (450 mm) from the machine
Sand supply tank	27½ in Ø × 43¼ in high (700 × 1,100 mm)
Console	On a swing arm at the front right corner

SITE. UTILITIES. SERVICE.

Plan the machine, pump and sand feeder together.

SITE REQUIREMENTS

- Level concrete floor with clear access, operating space and service space around the machine.
- A licensed electrician makes the final power connection; you provide water, drainage and compressed air as specified.
- A surge-protection device on the machine supply is required to keep the electrical warranty valid.
- Offloading and placement are by the customer unless the quotation says otherwise.

INSTALLATION AND WARRANTY

- 90 work hours of installation and operator training, combined; technician travel and lodging included.
- Setup, leveling, calibration, start-up, operational testing and commissioning on site.
- One-year limited warranty (mechanical and electrical, one shift), from installation; remote troubleshooting and diagnostic support from Next Level.
- Blades, router tools, abrasives and consumables are not included unless listed.

Plan the pump, sand tank and console positions with your water, drain, air and power runs. A 3D layout of this machine (GLB / USDZ) is available from Next Level. Budgetary equipment information. U.S. and metric values appear together; added conversions are approximate. This sales document does not replace the delivered manual, drawings or safety labels.