



NCT & NCH MODEL

Devoted to
performance



WATER JET SWEDEN

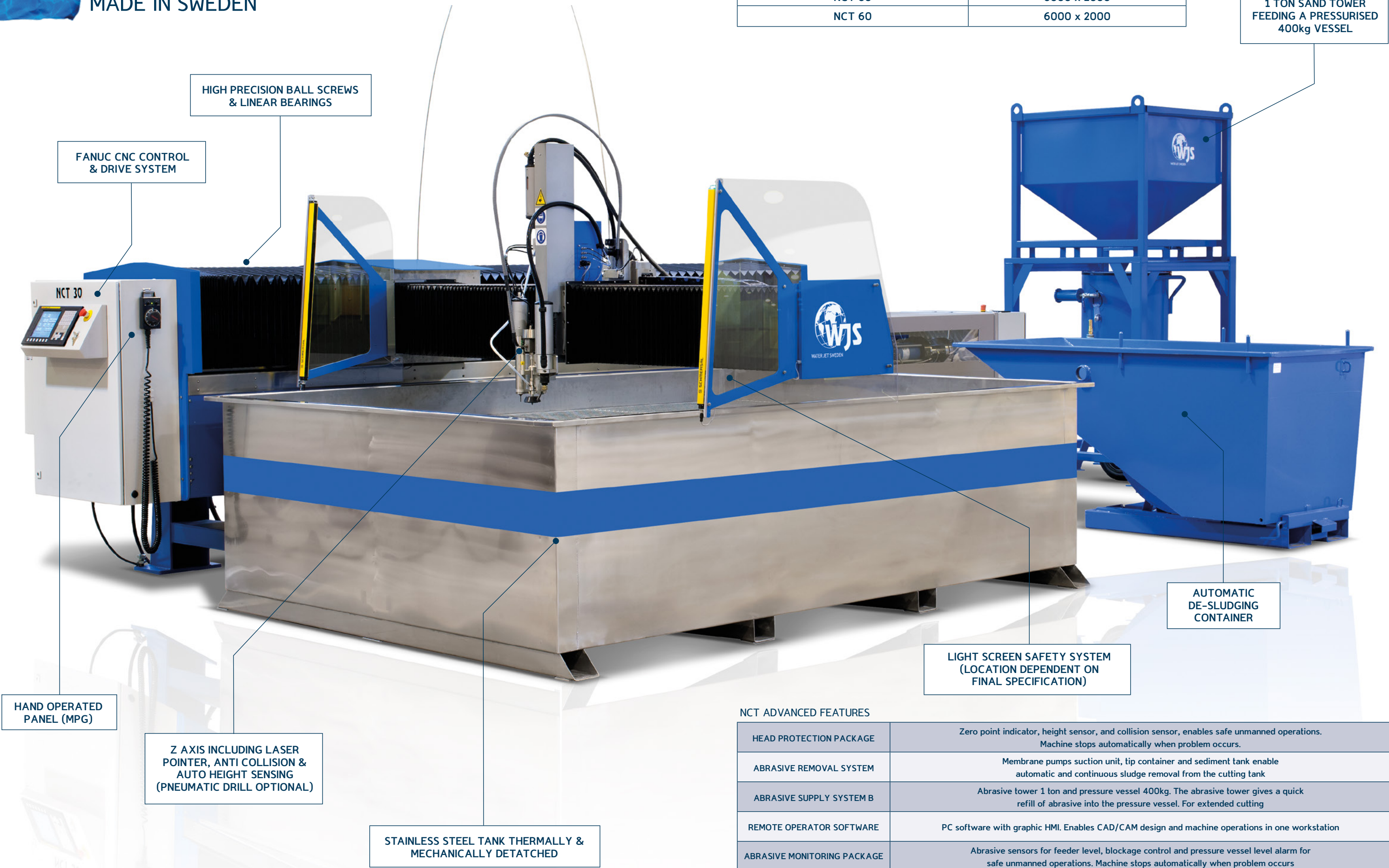


NCT ADVANCED

MADE IN SWEDEN

MODEL	CUTTING AREA
NCT 30	3000 x 2000
NCT 60	6000 x 2000

1 TON SAND TOWER
FEEDING A PRESSURISED
400kg VESSEL



NCT ADVANCED FEATURES

HEAD PROTECTION PACKAGE	Zero point indicator, height sensor, and collision sensor, enables safe unmanned operations. Machine stops automatically when problem occurs.
ABRASIVE REMOVAL SYSTEM	Membrane pumps suction unit, tip container and sediment tank enable automatic and continuous sludge removal from the cutting tank
ABRASIVE SUPPLY SYSTEM B	Abrasive tower 1 ton and pressure vessel 400kg. The abrasive tower gives a quick refill of abrasive into the pressure vessel. For extended cutting
REMOTE OPERATOR SOFTWARE	PC software with graphic HMI. Enables CAD/CAM design and machine operations in one workstation
ABRASIVE MONITORING PACKAGE	Abrasive sensors for feeder level, blockage control and pressure vessel level alarm for safe unmanned operations. Machine stops automatically when problem occurs



NCT STANDARD

MADE IN SWEDEN

HEAVY DUTY Z AXIS CARRIAGE
WITH LINEAR BEARINGS

MODEL	CUTTING AREA
NCT 30	3000 x 2000
NCT 60	6000 x 2000

LARGE 400kg SAND
PRESSURE VESSEL

HIGH PRECISION BALL SCREWS
& LINEAR BEARINGS

FANUC CNC CONTROL
& DRIVE SYSTEM

HAND OPERATED
PANEL (MPG)

STAINLESS STEEL TANK THERMALLY &
MECHANICALLY DETACHED

Z AXIS SHOWING (OPTIONAL) LASER POINTER,
ANTI COLLISION, AUTO HEIGHT SENSING
& PNEUMATIC DRILL

LIGHT SCREEN SAFETY SYSTEM
(LOCATION DEPENDENT ON
FINAL SPECIFICATION)

STANDARD FEATURES FOR ALL NCT MACHINES

NCT MACHINE SYSTEM	NCT-model original flying bridge machine platform with a 3 x 2m cutting table, WJS original cutting tool and Fanuc world famous CNC control system
ULTRA HIGH PRESSURE INTENSIFIER PUMP	BFT 4022 intensifier pump, optimal for efficient cutting of materials up to 200mm thick with one cutting head. Intensifier pump for quick and easy repair and maintenance
ABRASIVE SUPPLY SYSTEM A	Abrasive pressure vessel 400kg enables 20 hours of non stop cutting without a refill, depending on cutting head setup
CAD/CAM SOFTWARE	IGEMS water jet specific CAD/CAM software. CAD module for parts design, CAM module for machine programming and AWJ module for water jet optimization. All you need to design water jet cutting programs
TRAINING AND INSTALLATION	CAD/CAM training, machine operator training, ultra-high pressure pump training, machine installation and start up settings. All you need to get started.



NCH ADVANCED & STANDARD
MADE IN SWEDEN

MODEL	CUTTING AREA
NCH 10	1000 x 1000
NCH 20	2000 x 1000
NCH 30	3000 x 1500



MACHINE SHOWN IS AN NCH 30 ADVANCED WITH TWIN CUTTING HEADS & SM 4000 SAND DELIVERY AND BFT HP INTENSIFIER PUMP.

NCT & NCH FEATURES & OPTIONS



COMBINED SINGLE CUTTING HEAD

The single abrasive cutting head shows height sensor, laser power & optional pneumatic drill.



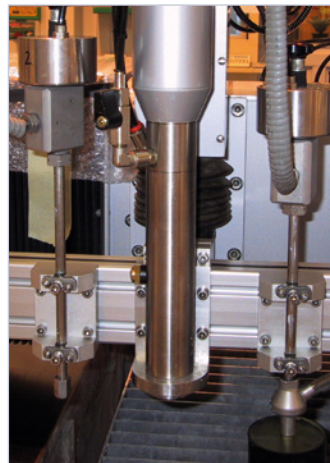
MICRO ABRASIVE CUTTING HEAD

All machines can be equipped with a micro abrasive cutting head for fine abrasive cutting. Using a 0.3mm abrasive nozzle this is ideal for fine detail component parts.



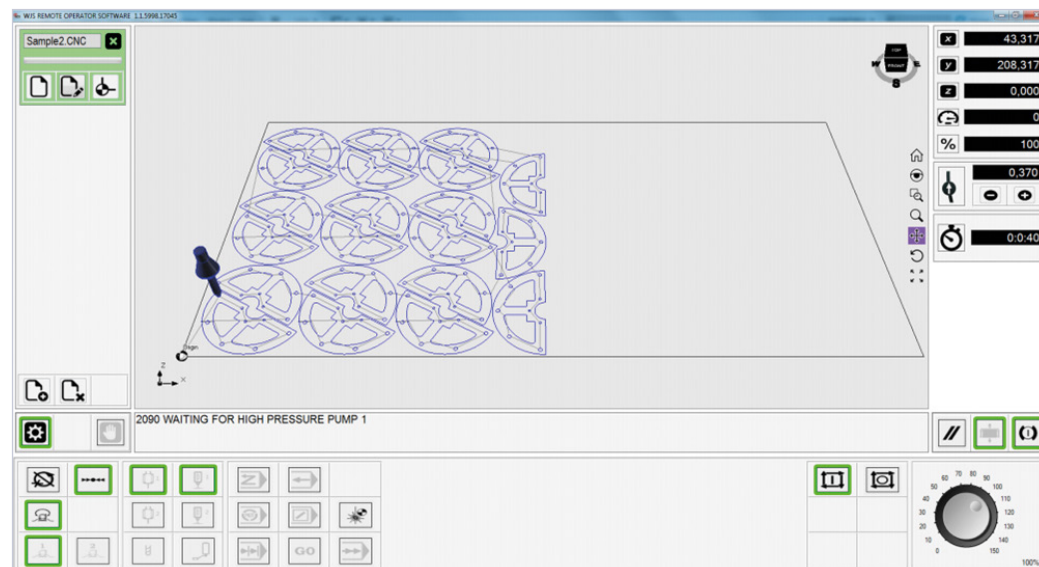
TWIN CUTTING HEAD

Mounted on an aluminium beam, two abrasive cutting heads allow for twin part cutting and double productivity.



PNEUMATIC DRILL UNIT

A pneumatic drill unit sits off-set from the cutting head and is ideal for soft and soft laminate materials.



REMOTE OPERATING SOFTWARE

An optional HMI software which can be installed on any standard PC station close by the machine.

- The main features are:
- Easy to use one page interface
 - Real time graphics simulation
 - Job management with multiple program zero points
 - Simplified file management
 - This feature is delivered with Advanced products and as an option with Standard

WJS INCLUSIVE BENEFITS

- Each machine is built in Sweden by a highly skilled team of experienced technicians.
- Fanuc CNC Control, Drives and Motors inclusive of worldwide Service Support and a Fanuc 25 year supply guarantee.
- Your machine accuracy is verified at time of build by use of a Renishaw Interferometer and ball bar.

- All machines are built using component parts that are delivered from the world's leading suppliers.
- The machine is Upgradable to meet your future needs. (Additional Cutting Heads, Drill and HP pumps are all retrofittable)

5 YEARS EXTENDED MECHANICAL WARRANTY



We guarantee a brand new machine performance after five years of usage – a warranty extension derived from a unique design

Our patented guiding system and a robust mechanical design ensure reliable machine performance over an extensive life span. Due to this fact, we have now decided to offer a mechanical warranty spanning over five years or 10,000 hours of operation!

OUR PATENTED SOLUTION TO A “CLASSICAL” PROBLEM

No frame can be made 100% straight and parallel. When the X-beam moves along the Y-axis, irregularities and thermal impact will have a harmful effect on the cutting result and the life span of the machine. This influence will increase with the length of the cutting table.

Traditional designs try to cope with this problem by tolerating a compensating slack along the guide rail – thereby still compromising both cutting accuracy and the life span of the machine.

The unique, patented solution used for all the WJS machines eliminates this problem by a parallel-axes system, where one side of the machine is fixed and the other will adjust itself continuously. Thus the wear on the mechanical parts is reduced considerably, calibration is facilitated and consistent, first-rate cutting quality can be obtained regardless of machine size.

SIMPLE CONDITIONS AND HASSLE-FREE OPERATION

The extended warranty comprises all our gantry machine models ordered after May 1, 2015 and covers the frame and moving parts of the mechanical system. Electronic functions, tools, wear parts or machinery protection units are not included. Except for handling according to manual, the extended warranty requires service and yearly maintenance by technicians authorized by Water Jet Sweden and exclusive use of original WJS parts.

“WE GUARANTEE THAT ALL OUR MACHINES KEEP THE SAME TOLERANCE LEVEL AFTER FIVE YEARS AS THE DAY WHEN THE MACHINE WAS FIRST DELIVERED”



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