



DISCOVER THE WORLD
OF BTB TRANSFER



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**BTB T8 FLEXTURN
TRV 8S-12MC LATHE CN-EL**

A REVOLUTIONARY ROTARY TRANSFER WITH 8 INDEPENDENT
CNC LATHE STATIONS





BTB T8 FLEXTURN

**BTB TRANSFER, THE LEADER IN ROTARY TRANSFER
BRINGS THEIR LEADING MACHINE TOOL TECHNOLOGIES
INTO THE NC LATHE WORLD.**

THE CONCEPT

The T8 Flex Turn is the latest creation of BTB Transfer. It unlocks the advantages of the rotary transfer technology to the CNC Lathe World.

It is dedicated to high volume complex turning parts that require also multiple drilling and milling operations.

The T8 Flex Turn offers the functions of a multi spindle lathe into the frame of a rotary transfer:

- The flexibility to suit production from either bar stock, forging or casting.
- The ergonomic and accessibility of a Rotary transfer with access door between every single machining stations.
- The cleanness and efficiency of a wide machining area and chip evacuation system
- The productivity of independent multi tools axis engaging the part from upper and radial positions for every lathe
- The flexibility of up to two motorized tools for every single lathe
- Extensive tooling and NC flexibility
- Multi side machining to avoid costly secondary operations
- Various types of part clamping systems

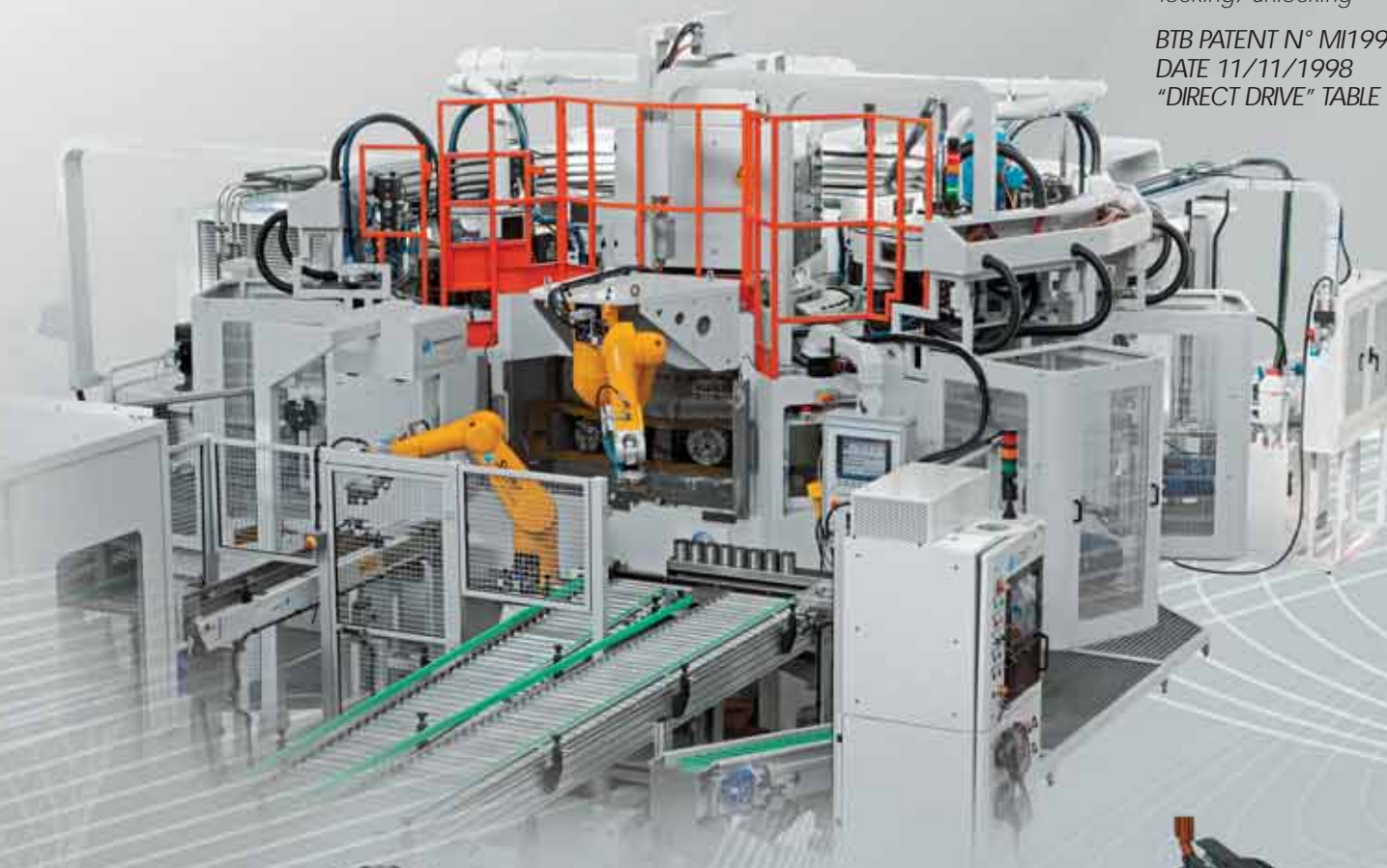
Machine Description

The T8 Flexturn has an 8 positions Indexing table, rotating on a vertical axis. On every station there is an NC Lathe.

One Load and one Unload station. The other six stations consist of six independent NC Lathes Spindles engaged by two independent Tool axis each. The use of advanced and innovative technologies, researched and validated on many other high productivity machine concepts, has enabled us to develop a robust and versatile machine, that delivers an outstanding productivity level with unprecedented payback, with the risk level of fully flexible Machine tool.

BTB Transfer offers leading capability in design, manufacture, integration and support of Turn-key medium and high volume, precision and automated machining system. Each spindle lathe has independent speed on each station. The spindle rotation between one station and another occurs without interruption. It is possible to hydraulically stop the spindle in position to execute operations with the part still.

- 1) Each station has 2 CNC centers in upper and radial position (X, Y, Z)
- 2) Each CNC lathe has a turret for fixed tools with 2, 3 or 4 positions.
- 3) Each CNC center can be equipped with a motorized tool



DIRECT DRIVE TABLE

Table rotation by means of a "Direct Drive" motor with closed loop adjustment of speed and control by means of a precision absolute encoder. This solution allows to obtain a higher rotational speed thanks to higher torque values and to the absence of any backlash. High precision table locking through Hirth Corwn. Rotation 1,6 sec. total including table locking/unlocking

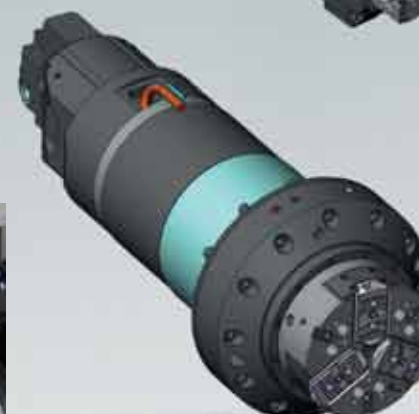
BTB PATENT N° MI1998A02450
DATE 11/11/1998
"DIRECT DRIVE" TABLE



NC LATHES

Technical characteristics:

- Motor power: 12 Kw
- Motor torque 80 Nm, 2000 rpm
- Hydraulic spindle clamping system
- Precision encoder on spindle axis
- spindle bearings cooling system
- water coolant locking system



QUICK CHANGE CLAMPING TOOLING SYSTEM

- Autoblock three chuck jaw D=215
- internal or external collets
- Max part length: D= 210mm L= 250 mm