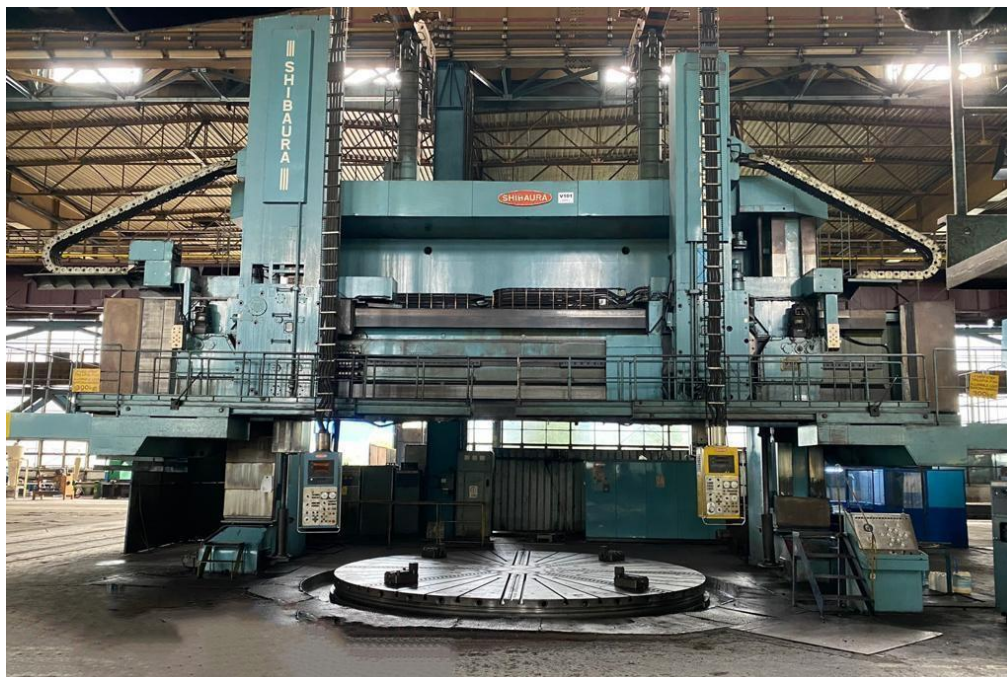


APRODEX MASINI UNELTE S.R.L.

Serving the global market since 2001

HEAVY DUTY VERTICAL TURNING AND BORING MILL



type TD 60/ 85 CNC (Toshiba made)

General Description and Application Field

This machine is a numerically controlled and cross rail elevating double column type vertical boring and turning mill. Is a machine with two rail heads. One, on the right side is turning head and the other, on the left side is a milling head. The right head is utilized exclusively for turning work and can withstand heavy duty operation, and left performs boring and milling work. After the turning is completed, both heads can be performed without changing the machine set-up. These features, coupled with table indexing and milling feed, assure versatility machining capabilities.



The cross rail is guided by the slideways of the two columns. Electro-hydraulic clamping devices assure clamping of the cross rail at the desired position. Highly accurate horizontal straightness is guaranteed by the simple and stabilized method of utilizing the compensation beam inside the cross beam. All control operations for running the machine can be performed either on the platform of the cross rail or on the floor. The hydrostatic lubrication system is employed for the rail head guideways and table.

Operation system FANUC 2000 C

Technical Specifications	
Table diameter	6000 mm
Max. turning diameter	8500 mm
Max. distance between table top and tool holder of rail heads	3500 mm
Vertical travel of right ram	2300 mm
Vertical travel of left ram	2000 mm
Max. swivel angle of right and left ram	±30 deg
Diameter of milling-spindle nose	290 mm
Taper of milling spindle	ISO 50
Max. load on table (less than 10 rpm)	160000 kg
Section of right ram	320×320 mm
Section of left ram	450×450 mm
Milling spindle speed (on 3 steps)	6.3-630 rpm
Table speed (on 3 steps)	0.315-31.5 rpm
Table milling speed	0.0006-0.2 rpm
Feed speed of rail heads	0.2-800 mm/min
Rapid speed of rail heads	2400 mm/min
Cross rail elevating speed	300 mm/min
Weight of machine	225000 kg