



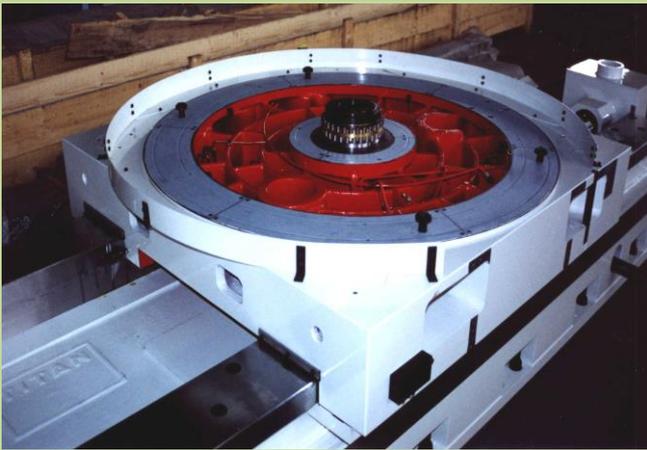
**GPM - TITAN
INTERNATIONAL S.R.L.**



**CNC HORIZONTAL BORING MILLS
WITH FIXED COLUMN AND MOVABLE ROTARY TABLE
AFD 105 DRO, AFD 105 CNC**

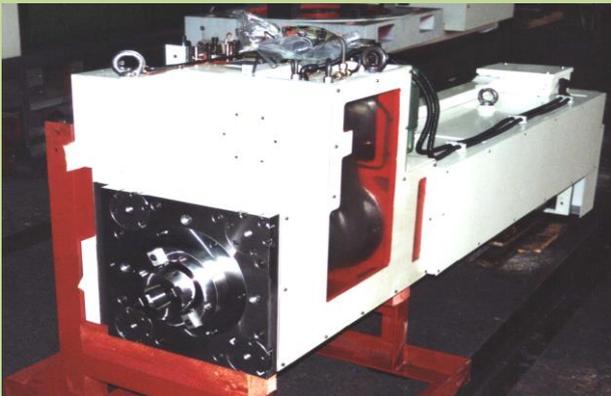


TECHNICAL FEATURES (STANDARD MACHINE)	MEASURE UNITS	AFD 105 DRO with Tailstock and 6" boring bar	AFD 105 NC/CNC
Boring spindle diameter	mm	105	106
Boring spindle taper	ISO/CAT	50	50
Main spindle speed range	rpm	10 to 1600	10 to 1600
Main motor power AC BRUSHLES	kW	15/20	15/20
Table surface	mm	1400x1600	1400x1600
Table cross travel (X axis)	mm	2100	2500
Headstock vertical travel (Y axis)	mm	1800	1800
Boring spindle longitudinal travel (Z axis)	mm	700	700
Longitudinal travel (W axis)	mm	1000/1600 with/without tailstock	1600
Maximum load on the table	kg	6000	6000
Table indexing	°	4x90 ± 6 sec	4x90 ± 6 sec
Feed range:			
X, Y, Z, W axes	mm/min	6.35-2050	6.35-2050
B axis (table rotation)	rpm	0.12 - 2.4	0.12 - 2.4
Rapid feed: X, Y, Z, W axes	mm/min	4000	4000
Overall dimension		6000x4650x4400	6000x4650x4400
Weight	kg	19500	19500
Automation equipment		HEIDENHAIN POSITIP 880 DIGITAL READ-OUT	HEIDENHAIN TNC 128 (NC)/ or on request TNC 320 (CNC)



- sturdy structure of the main structural components, made of special-quality cast iron for machine tools;
- wide guideways, made of high quality steel, hardened and accurately ground;
- counter-slideways coated with low friction material
- telescopic covers on X and W axes to protect guideways
- 80 mm diameter ball screws on X,Y,W axes

- two step automatic synchronic gearbox actuated by Siemens main motor
- independent drives on linear axes with Siemens feed motors,
- Heidenhain scales for each linear axis
- automatic lubrication system
- counterweight for headstock inside column
- coolant return system
- auxiliary guideways to support the longitudinal saddle
- nitrided boring spindle and high precision bearings
- mechanical power tool clamping, hydraulic unclamping



- Electric cabinet and installation on the machine with electrical components supplied by Siemens , Eaton and similar

Accessories with the DRO machine:

- Tailstock and 6" boring bar
- Handwheels on all axes for manual positioning

Accessories on additional order:

- Universal milling head(manual)
- Angular milling head (manual)
- Faceplate



- hydraulic units and components made in EU

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