

GROOVE GRINDING

Model	Max. machining diameter	Workable length between the points	CNC	Roll material	
				Tungsten carbide	Cast iron
AT 710	150	100		x	x
AT 720E	350	600	x	x	x
AT 730E	450	2000	x	x	x

GROOVE AND RIB GRINDING

Model	Max. machining diameter	Workable length between the points	CNC	Roll material	
				Tungsten carbide	Cast iron
AT 730ER	450	2000	x	x	x

RIB GRINDING

Model	Max. machining diameter	Workable length between the points	CNC	Roll material	
				Tungsten carbide	Cast iron
AT 810E	320	200	x	x	x
AT 820E	450	2000	x	x	x
AT 830	450	2000			x

ATOMAT ALSO SUPPLIES A COMPLETE RANGE OF PRODUCTS FOR THE HOT ROLLING FIELD:

- Tungsten carbide rolls for finishing blocks
- Steel and tungsten carbide rolls for rebar mills
- Titanium carbide guide, pinch and twist rolls
- Metal-bonded and electroplated diamond wheels

ATOMAT
GROUP

ATOMAT

ATOMAT ENGINEERING

MULTICARB

H.C.ROLLING

ATOMAT ENGINEERING

33047 REMANZACCO (UD) Italy
Strada di Oselin
Telefono (0432) 667204-5-6
Telex 450274-I
Telefax (0432) 667101

Azimat Studio / Pordenone

The technical characteristics and data featured in this may undergo changes without any notice on the part of the manufacturer.

220 000 DM

ATOMAT ENGINEERING SRL

DESIGNERS, ENGINEERS, MANUFACTURERS OF ROLL MACHINERY AND ALLIED EQUIPMENT.



AT810E

CNC RIB GRINDER FOR TUNGSTEN CARBIDE ROLLS



INTRODUCES A NEW, REVOLUTIONARY CONCEPT FOR THE GRINDING OF RIBS ON TUNGSTEN CARBIDE ROLLS: THE

AT810E

AT 810E CNC RIB GRINDER FOR TUNGSTEN CARBIDE ROLLS

The Atomat system for the optimum grinding of ribs and grooves on tungsten carbide rolls used in the hot rolling sector.

The AT 810E CNC RIB GRINDER is a numerically controlled, computerized grinding machine for grinding ribs on tungsten carbide rolls used in the production of rebars and reinforcing wire rod. Its easy use permits the quick and accurate grinding of both new and worn tungsten carbide rebar rolls of any tungsten carbide grade.

The AT810E is made of a robust steel structure that enables the machine to remove large amounts of material. The bearings and gears are ground to high precision (IT4) guaranteeing stability and accuracy with all working speeds.



The use of special electroplated diamond grinding wheels allows the grinding of ribs with different forms and inclinations.

The grinding wheel can be changed quickly while maintaining the correct positioning of the grinding wheel in respect to the groove.

A diamond grinding wheel will last up to ten new ribbed grooves and, when regrinding already existing ribs will last even longer.

GRINDING COSTS ARE EXTREMELY REDUCED DUE TO:

- A completely automatic working cycle controlled by CNC.
- High productivity (12 grooves per shift average).
- Increased grinding wheel life with reduced tool costs.

RIBBED GROOVE GRINDING TIME

ROLL O.D.	GROOVE DIAMETER	GRINDING TIME
210 mm (8")	16 mm	60 minutes
166 mm (6")	6 mm	20 minutes



The AT810E is equipped with special diamond grinding wheels that permit the machining of the same rolls used for the production of wire rod (WC 80-85%, CO 15-20%). The use of rolls with a lower level of cobalt can lead to an increase of up to 30% in the groove life of the roll thus, reducing the quantity of rolls consumed per ton produced and the mill down time for changing rolls.

TECHNICAL INFORMATION

Max. roll diameter	320 mm	Min. angle of inclination	40 degrees
Max. roll thickness	200 mm	Rib tolerance	+/- 0.025 mm
Min. diameter of ribbed groove	6 mm	Diamond wheel speed	0 - 5000 rpm
Max. diameter of ribbed groove	16 mm	Electrical power	220-380 V
Installed power	3.5 Kw	Dimensions	950x1310x1480
		Weight	1200 Kg (Approx.)