



**SATURN MACHINE**  
KNIVES®

# GRINDING MACHINE FOR KNIVES AND BLADES

# KS 250



The KS250 professional grinding machine is suitable for all types of industrial blades, including paper knives, chipper knives for wood, recycling blades for plastic (granulating knives), peeling and veneer knives, slitter blades, guillotine knives, and tungsten carbide edged blades. The machine is available in grinding lengths from 1000 mm to 7100 mm and longer upon request.

**The main features:**

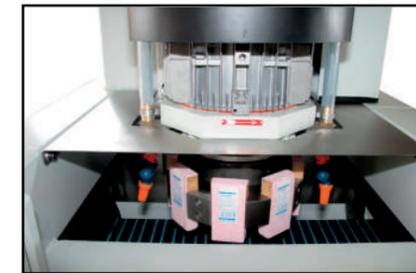
- Grinding head vibration free and very quiet;
- Magnetic chuck is permanent (cold) width 150mm, polarity 20-24mm;
- Carriage moves on lubricated sliding blocks, the sliding surface of which is made of PTFE, which has a very low coefficient of friction and is extremely hard wearing;
- Carriage drive via a toothed belt, which ensures a very smooth translation;
- Adjustable carriage run and variable carriage speed from 1 to 30 m / min;
- High flow rate of coolant with two side nozzles and one nozzle in the center of the grinding wheel;
- Automatic working cycle (roughing, finishing and spark-out) programmable via PLC;
- Electro-magnetic chuck rotating from 0 ° to 90 ° via lever with position locking bolt;
- Possibility to design systems for clamping of blades and/or offer special versions.



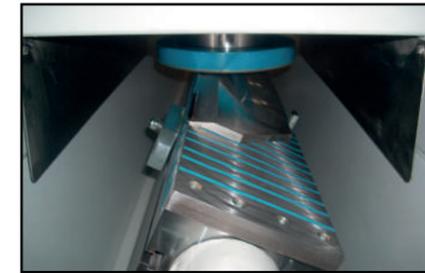
Additional super-finishing head  
1,1 kW



Angular divisor for magnetic chuck  $\pm 90^\circ$



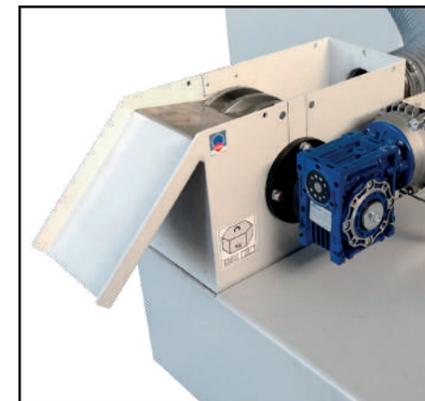
Segment grinding wheel



Magnetic chuck



Siemens digital PLC programmer



Magnetic cleaner with rotating discs

Grinding wheel motor power	Grinding wheel diameter	Carriage speed	Magnets between grinding wheels and chuck	Magnetic chuck width
5,5 kW (7,5 HP)	Ø250 mm	1 – 30 m/min	110 mm	150 mm

Grinding length (mm)		Overall dimensions (mm)	
1000	3150	1300	1700
1500	3600	1300	1700
2100	4200	1300	1700
2500	4650	1300	1700
3100	5250	1300	1700
3600	5700	1300	1700
4100	6150	1300	1700
5100	7250	1300	1700
6100	8150	1300	1700
7100	9200	1300	1700

### Upon request:

- Grinding motor 7,5 kW (10 HP) – 9,5 kW (13 HP) – 11 kW (15 HP);
- Magnetic chuck 200mm wide;
- Angular divisor for magnetic chuck ±90°;
- Quick change of the grinding wheel;
- Slow carriage speed 0,3 - 25 m/min;
- Siemens digital PLC programmer with touch screen;
- Wheel wear compensation system RTS;
- Additional super-finishing head 1,1 kW;
- Additional grinding head 3,7 kW;
- Automatic lubrication of the sliding blocks;
- Magnetic cleaner with rotating discs;
- **Manual and automatic paper filters.**



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