

OJSC "Orsha Machine Tool Building Plant "Krasny Borets"



Activities: **Machines**
Year of foundation.....**1900**
Number of employees.....**790**

Production

- High-precision surface grinding machines;
- Profile surface grinders;
- Horizontal knee-type milling machines;
- Metal-sawing machines;
- Semi-automatic machines for diamond-electrochemical grinding;
- Rough grinding machines;
- Bench-type drilling and milling machines;
- Open crank-and-rod presses;

Contacts

211391, Republic of Belarus,
Orsha, 29 Engelsa str,
Tel: (+375 216) 21-81-22
Fax: (+375 216) 21-81-23
E-mail: market@krasnyborets.com
www.krasnyborets.com





OJSC MACHINE TOOL BUILDING PLANT

“KRASNY BORETS”



OJSC "Machine-Tool Plant "Krasny Borets" is big producer of precision equipment. High technological level of production, highly skilled staff and engineers permit to produce modern equipment. More than 100000 machines, working in 100 countries around the world, are the best evidence of the quality and liability of the enterprise.

OJSC "Machine-Tool Plant "Krasny Borets" has good production plant to manufacture of various high-precision equipment as universal than for special purpose: the plant area is 137 th. of square meters, production plant is 36,108 th. of square meters.

The present time the plant produces following equipment:

- planogrinding machines with long table and slide rest;
- planogrinding machines with round table and horizontal and vertical spindle;
- semiautomatic machines special restackin, inside restacking, angel wheelhead, sphere grinding, spline gear grinder;
- knee milling machines, including also CNC;
- crank presses;
- table drilling-and-milling machines;
- cutoffs and rough grinding machines;
- rough grinding-and -polishing machines;
- dust exhaust apparatuses;
- bending machines;
- saw sharpening machines;
- devices for profile grinding;
- electromagnetic chucks small polar, electropulse;
- woodworking machines and tools;
- accessory for miller;
- parts for cutting machine;
- technological equipments: level shears, drilling-and-plank vice, metalworker`s cramps, punch for boundary pipe cutting, universal bending devices;
- consumer goods;
- realizes repair, starting-up and adjustment of grinders, lathes, millers, forging equipment, modernization and capital repair of cutting machines.

Depends on difficulty of current tasks a user can choose various machine control systems:

- easy and simple mastered system of control for programmed flat and infeed grinding with the compensation of the material removal on the base of bracket Simatic S7-300, operating panels OP-7, and electric drive STEPDRIVE (Siemens);
- analog system of CNC- 802C, servo drive Simodrive 611, photo pulse transformers Heidenheim;
- numeral system of CNC Sinumeric – 802D, Sinumeric – 810D, Sinumeric – 840D.



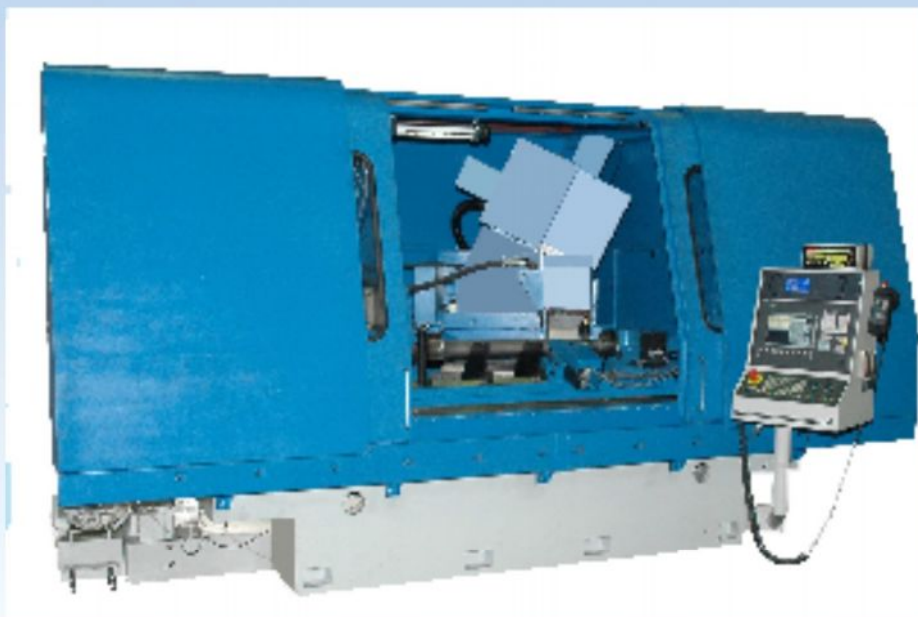
SEMIAUTOMATIC ANGEL WHEELHEAD MACHINE WITH CNC OSH-650F3

Semiautomatic angel wheelhead machine with CNC OSH-650F3 serves to external grind of even and abrupt cylindrical and end surface. The field of machine use – the enterprises of the lot production and large-lot job.



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SEMIAUTOMATIC SPECIAL ROUND GRINDING MACHINE WITH CNC OSH-651F3

Semiautomatic special round grinding machine with CNC OSH-651F3 is used for external grinding of a neck part such as a wag axis in the structure of the automatic line. The field of the machine usage – the enterprises of the lot production and large-lot job.



№ s/n	Parameters name	Parameters value
1	Indices of work: Limit of size of work, mm: -external diameter -length	200 2220
2	The biggest mass of work, kg	450
3	Tool indices, installed on the machine Grinding round on State Standards 2424-83 - external diameter, mm the biggest (new) the smallest (outworn) -inner diameter, mm - high (in the set)	750 450 305 235
4	Indices of main accessory movements Move, mm: -lateral of grinding head -bed table -longitudinal carriage of trimming mechanism -vertical trimming mechanism	425 500 280 180
5	Total power of electric motors, kW	67
6	Indices of machine size and its mass Machine size, mm: without handling device- -length (from the left to the right) -width (from the front to the back) with handling device- -length (from the left to the right)	5800 3850 14920
7	Machine mass, kg: without attached equipment with attached equipment	13000 22000



OPEN CRACK PRESSES: INCLINABLE AND NON-INCLINABLE



Structural peculiarities:

- iron stand
- hardened steel build-up guideway
- use of bronze cover
- front disposition of supplementary shaft
- mechanized position of slide block
- centralized oiling system
- presence of safety washer and hydraulic protecting device against overloads
- componentry of electric equipment produced by Siemens
- presses ORSHA -800 are produced in two versions: non-inclinable and inclinable.

