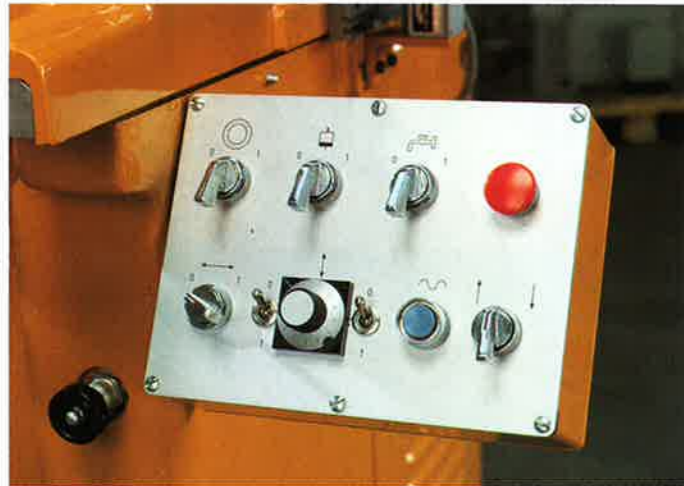


The Storebro Surface Grinder Model MPS-450 is the right machine for grinding works demanding a high degree of accuracy: Due to its accurate guide ways and stable construction the MPS-450 is just the machine for this sort of work. A special feature contributing to its accu-

acy is the well balanced grinding wheel headstock which runs between flat guide ways. More than 2000 units have been produced. The MPS-450 is a well-ried, reliable machine in excellent working order which now is manufactured in a new generation with increased performance.



STOREBRO MPS-450 of today's production has a new performance with an increased capacity. This well-known construction has now been equipped with a considerably increased cross-feed and rapid traverse.

Control panel

From the control panel — easy to survey — all the head functions of the machine are operated. The upper line has the following functions:

- start/stop of the grinding wheel
- hydraulic
- coolant
- emergency stop

The lower line:

- start/stop of the longitudinal traverse
- potentiometer for infinitely control of the speed of cross feed
- on both sides of the potentiometer are the selectors for cross feed in left resp. right table strokes
- knob for rapid traverse in cross direction
- selector for cross feed direction

Well dimensioned for good stability

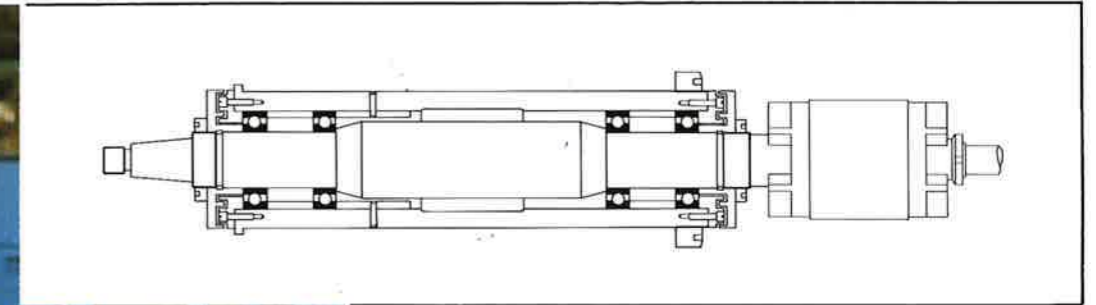
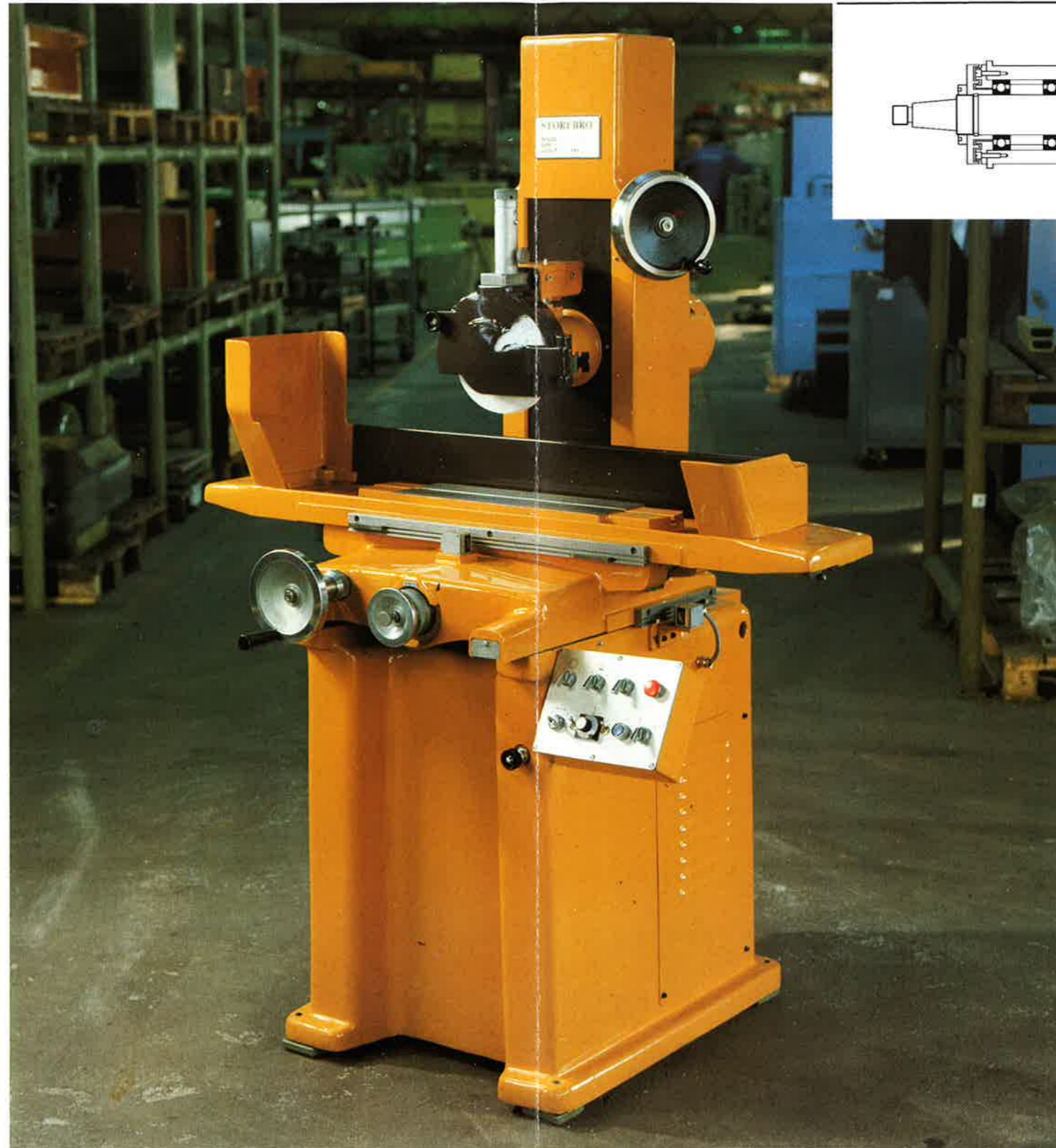
Stability is an essential factor for the accuracy of a machine. The larger the mass, the less likelihood there is of vibration and other phenomena impairing the grinding results. The STOREBRO MPS-450 Surface Grinder is well dimensioned. The frame, pillar, cross slide and table are all made of controlled cast iron from our own foundry.

Well balanced grinding wheel headstock

The grinding wheel spindle and motor are built as an integral unit, mounted on the vertical slide. The weight distribution is designed to eliminate any uneven loading. The height adjustment screw is centrally located in the pillar. Guiding is done by means of rigid, square-section guides, which are adjustable.

The construction means the play can be kept on a quite negligible degree with an increased accuracy as result.

The vertical adjustment of the grinding wheels is done with a graduated handwheel. The scale graduation is 0.01 mm (.0005").



The grinding wheel spindle is journaled in four SKF radial thrust ball bearings of the Special Precision type. The bearing system is lubricated for 5000 hours of troublefree operation on assembly.

Flexible table-feed

The longitudinal movement of the table is guided by a V-section guide way and a flat guide way. The speed of the hydraulically operated table is infinitely variable up to 12 metres (45') per minute. The table can, of course, also be controlled manually.

The cross feeding can be done either electrically or manually. The automatic cross feed is infinitely adjustable 0-10 mm per table stroke. This can be done optionally for one or both stroke directions. The cross feed scale graduation is 0.05 mm (.002").

The cross feed mechanism is well protected on the lower side of the cross slide.

The cross slide is supported on the frame by means of two V-section guide ways. All the guides are scraped. For accurate adjustment of the table cross feed, the machine can be provided with indexing attachment for dial gauge and gauge blocks.

The table, which is ground after assembly, has a 12-mm (15/32") T-slot for attaching workpieces or a magnetic chuck.

The picture illustrates the effective grinding width of the STOREBRO MPS-450 Surface Grinder, which shows the machine equipped with a standard 19 mm (3/4") wide grinding wheel.

