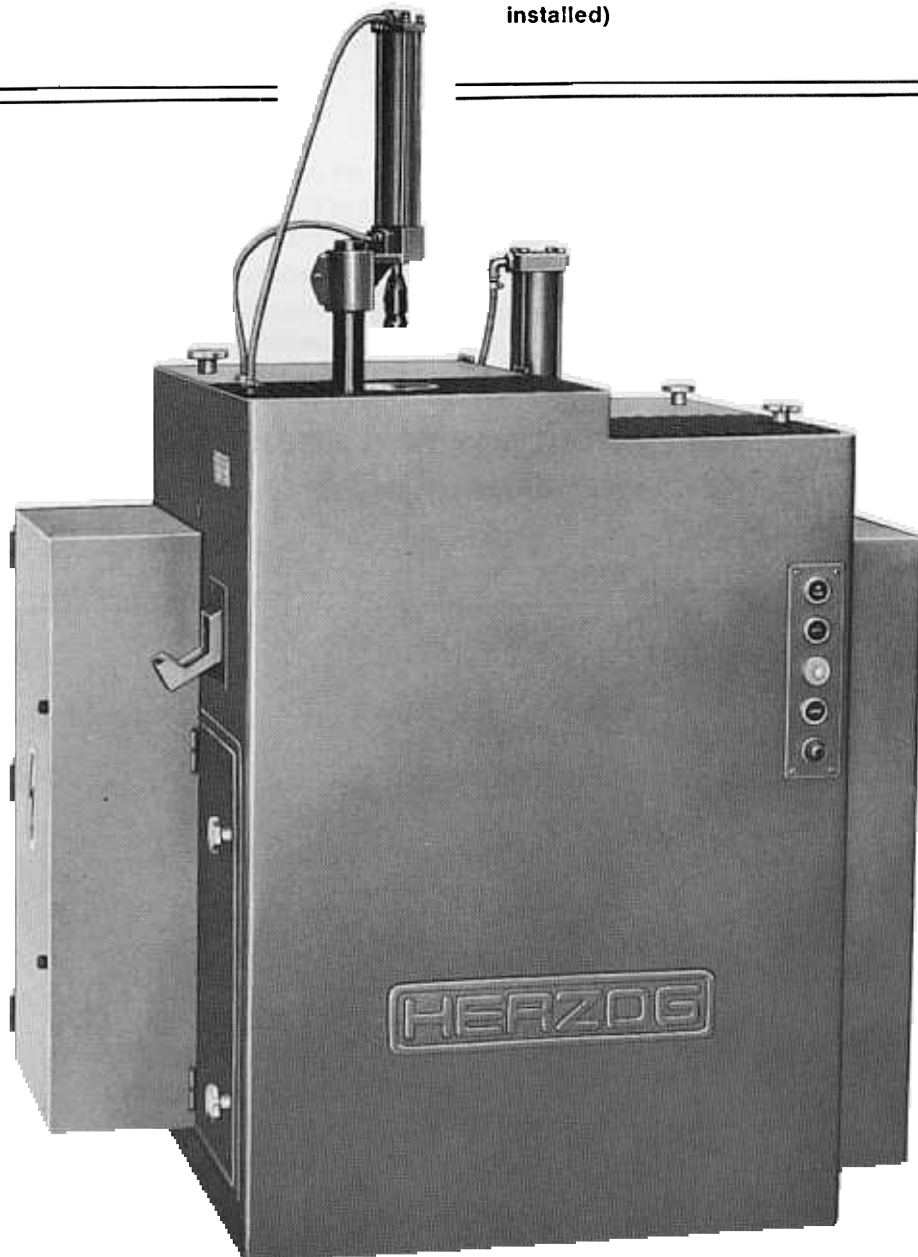


HERZOG

AUTOMATIC CUT-OFF MACHINE VST

**Fully automatic machine
for cutting samples
for spectrographic
analysis**

- Single push-button control
- Absolutely plane cut
- Little finishing effort
- Samples cold or red-hot, any type of material
- Minimum of time –
low wear on cutting disks
- Installation on the furnace platform or in the
laboratory (dust extractor and air purifier
installed)



Controls

- 1 Door for cutting disk change
- 2 Retaining cylinder
- 3 Compressed air feed with micro-lubricator
- 4 Sample removal
- 5 Electric panel
- 6 Door
- 7 Thrust piece
- 8 Input hopper for samples
- 9 Pressure tank
- 10 Cover plate
- 11 "ON"
- 12 "OFF-EMERGENCY" – "TROUBLESHOOTING"
- 13 Control lamp
- 14 Manual sample ejection
- 15 Trouble warning light
- 16 Door

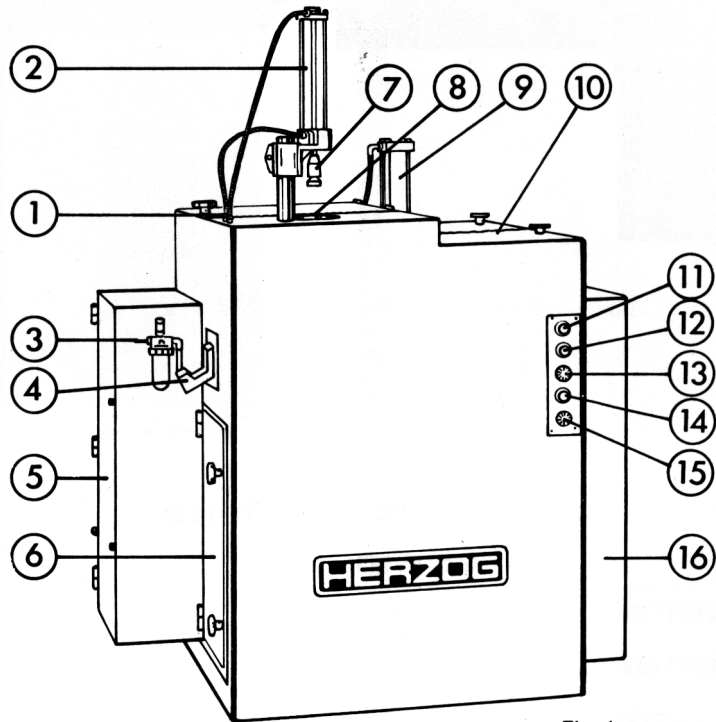


Fig. 1

Engineering Data

Motor performance:	cutting motor	11 kW
	chuck motor	1,1 kW
	dust extractor motor	1,1 kW
Cutting disks:		400 mm (16") diameter
Compressed air:		5 to 6 bars
Net weight:		appr. 660 kg
Gross weight (seaworthy packing):		appr. 830 kg
Case dimensions:		115 x 125 x 140 cm

(We reserve the right to effect design changes.)

TOTAL TIME REQUIRED FOR CUTTING OPERATION FROM PUSHING THE "ON" BUTTON TO REMOVAL OF THE SAMPLE: APPR. 10 SECONDS

As a result of the special cutting technique, wear on cutting disks is extremely low.

The cutting disks developed by us are specially mated to our machines and provide an optimum cutting effect. HERZOG-UNIVERSAL cutting disks, types RI and RI Super (fracture proof), can be used for all steel types (including pig iron), regardless of hardness and alloy type.

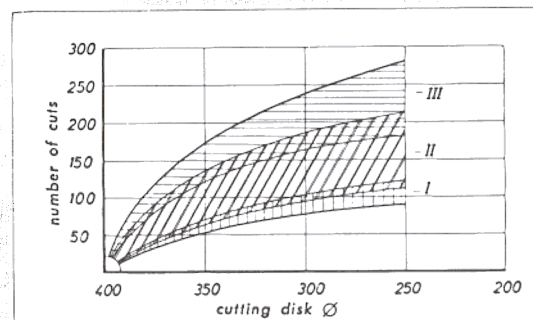


Fig. 2



Fig. 3

Operation

The sample is placed into the receiving hopper (fig. 1/8), and the automatic sequence of operation – retaining, cutting, ejection of the spectroscopic sample and residual sample – is initiated by pushing the “ON”-button.

During the cutting operation the sample is fixed in a retaining ring which can be exchanged rapidly when there is a change in sample configuration.

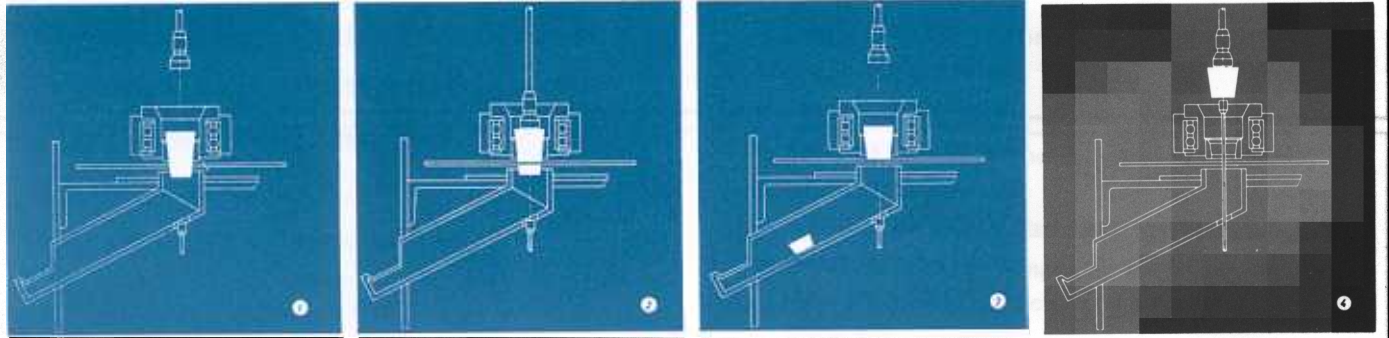


Fig. 4

Dust Extraction - Air Purification

The dust generated during the cutting process is removed by a built-in exhaustor. The space in which the cutting process takes place is completely sealed off to prevent any escape of dust. The sample is cooled effectively during the cutting operation by aspirated cooling air. The air exhausted from the machine is purified almost completely by coarse and fine filter systems.

The filter box seen in figure 5 is removable for cleaning and replacement of filters.

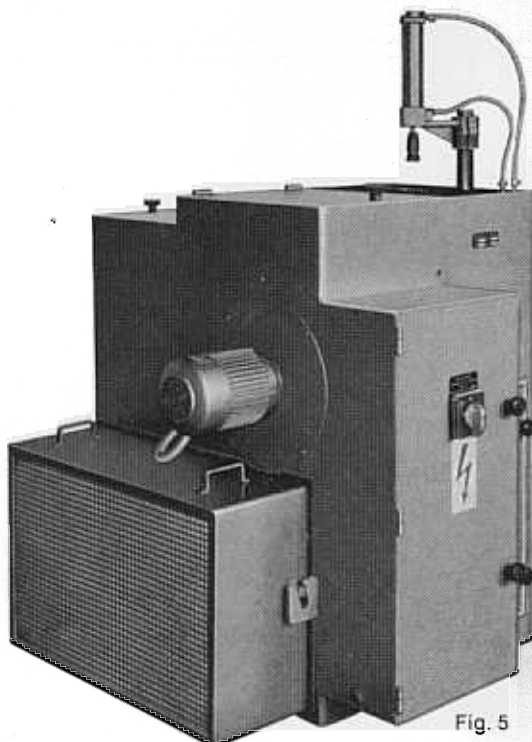


Fig. 5

Electrical System

The complete electrical control system is located in a dust-proof switchboard locker on the left-hand side of the machine.

All drive motors are controlled via motor protection switches with overload relay. The entire machine can be turned off by means of a built-in master switch.

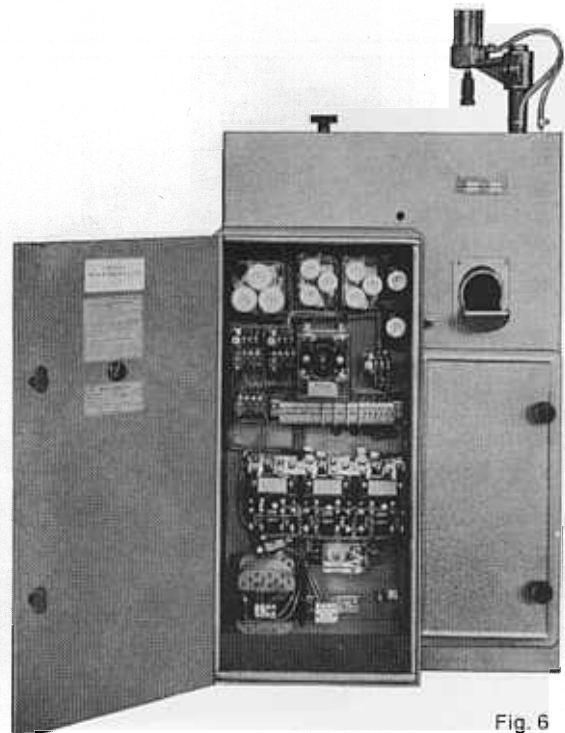


Fig. 6