ALROSA GROUP
INNOVATION CENTER
BOUREVESTNIK
RESEARCH ✦ DESIGN ✦ PRODUCTION

EXPERT-01M

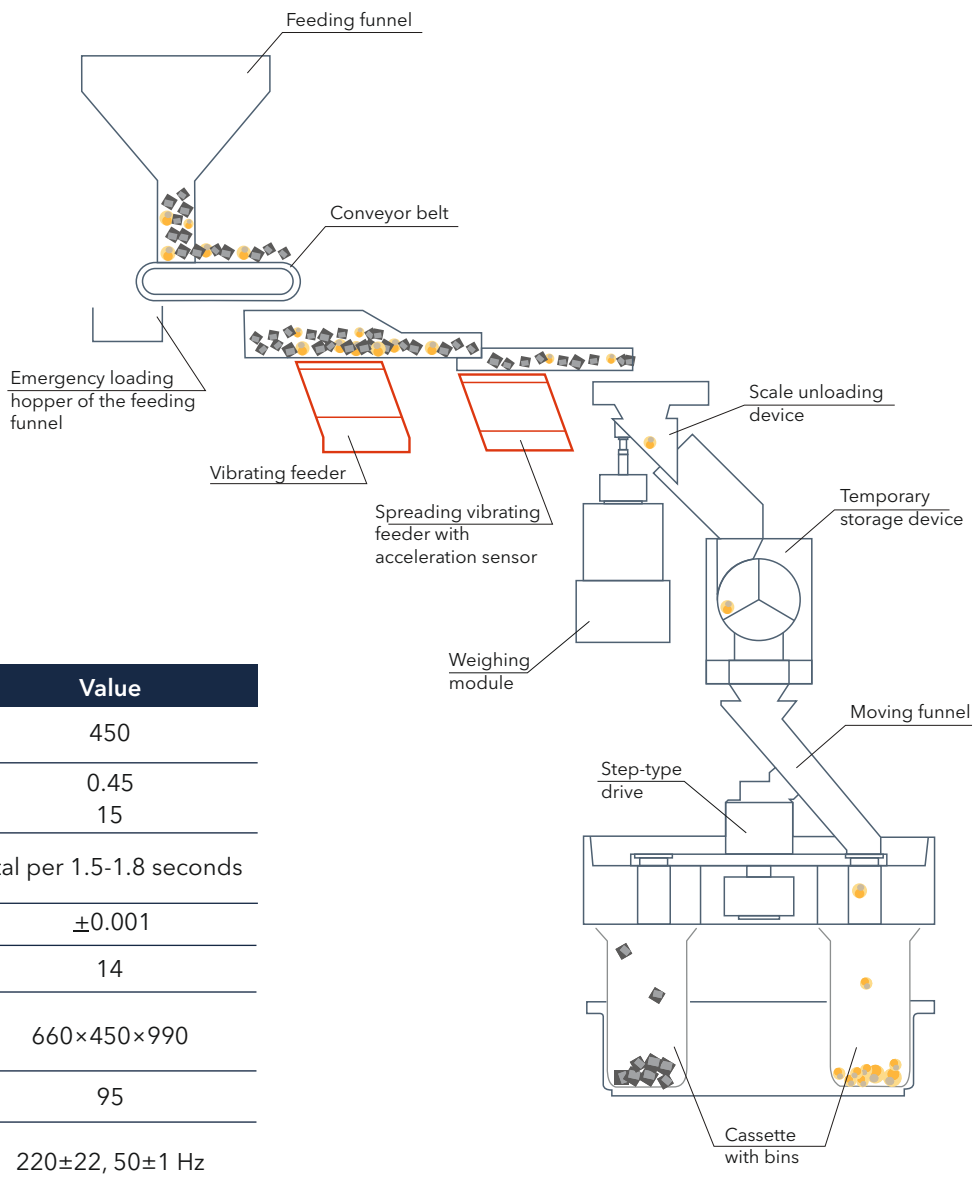
Weight sorting machine | **15-0.45 ct** | **New product**

EXPERT-01M weight sorting machine is designed for automatic sorting of diamonds and other precious stones by weight groups.

The machine is equipped with a high-performance automatic diamond sorting system that divides stones into 14 weight groups. Material is individually fed from the feeding hopper through the belt conveyor and two vibrating feeders to the weighing module, where each stone is weighed.

After weighing, the crystal is automatically sent through a temporary storage device and a moving distribution funnel to the appropriate outlet hopper of the weight group. The system of sensors and step-type drives ensures accurate positioning and stable operation of the machine. The operator loads the source material and, at the end of the process, extracts cassettes with sorted stones.





Main technical specification

Parameter	Value
Volume of one output hopper, cm^3	450
Diamond mass range, ct	0.45 15
Average throughput, with a full transport system	1 crystal per 1.5-1.8 seconds
Weighing accuracy, ct	±0.001
Number of output bins, pcs	14
Overall dimensions of the device (LxWxH), mm	660×450×990
Weight of the device, kg	95
Supply voltage, V (single-phase)	220±22, 50±1 Hz

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