

ASA-2F

Diamond shape sorting machines

New product



Diamond sorting machine is designed for automatic diamonds classification by shape and its sorting in 10 groups.

Operation

Diamonds automatically come one by one from the feeding bin to the detection zone. Nine cameras take and transmit diamond projections to the software, which generates 3D image, defines diamond's shape and assign each crystal to certain group. Then, the diamond comes into a cell of the receiving drum where it is ejected to the corresponding concentrate box.

Technical data

Size fraction, mm	-4,5+1,8
Size variations for each size fraction, mm	0,3
Sorting rate, particles per second, not less	5
Number of groups of diamonds after sorting: <ul style="list-style-type: none">- classified diamonds- unclassified diamonds	10 1
Sorting accuracy: after sorting each classified group of diamonds contains: <ul style="list-style-type: none">- assigned type of stones, not less than 90%- another type of stone, not more than 10%	90 10 (including >90% of diamonds from neighbor groups)
Accuracy of mechanical extraction of diamonds, %	99
Compressed air consumption (0.4 MPa), l/min	not more than 200
Overall dimensions (LxWxH), mm	1200x900x1500
Net weight, kg	235
Power consumption, VA (single phase main, 220 V/50 Hz)	500

