

Hardness Tester

HTA 0306 MF



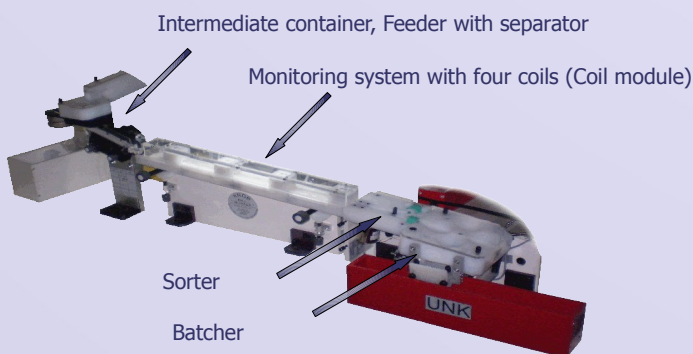
The automatic machine of type HTA 0306 MF is a device for the non-destructive testing and sorting of steel bearing balls according to the criteria of their material composition and their hardness. The device uses a method of measurement of the electrical parameters of the balls as they pass through a coil, which presents a picture of the chemical and crystallographic composition of the structure of the ball's surface. The multifrequency basis of the automatic machine with four separate coils through which the balls pass gives it an ability to monitor hardness using four independent frequencies. Each coil has its own monitoring and assessment system. Through the comparison with known, previously monitored calibration balls, the automatic machine is then able to sort balls with the precision of ± 2 HRC from the calibration samples giving a performance of 10 800 pcs/hour (constant for all diameters of balls to be sorted).



Description of the machine:

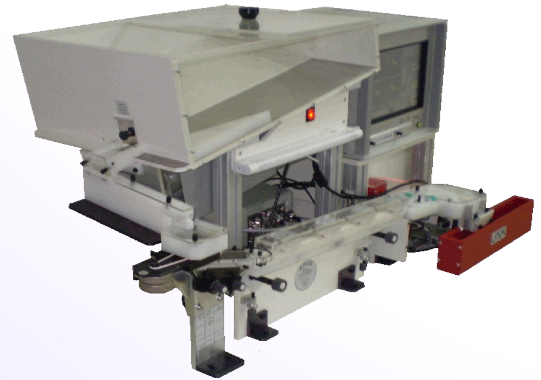
The hopper is composed of a plastic housing with an integrated ball loader and with a shute. From the hopper the balls move through the pre-sorter for balls of deviating diameters (if the machine is equipped with one) into the intermediate container and further on to the feeder with separator which separates the individual balls. From here the balls run through the monitoring module with four coils. Each coil has its own adjusting and testing system. The central control and monitoring unit CU-

TS then sorts the balls into BAD and OK/UNK. exits using the comparison of the test results with the control values (obtained previously by the monitoring of calibration balls). The OK/UNK. exit leads to the ball batcher and only in the case that the full batch of OK balls is complete and duly examined the balls are sorted as OK. In case of discrepancy (e. g. error in the number of balls etc.) the balls are sorted as ,unknown' - UNK and it is possible to start the sorting process again.



Technical parameters:

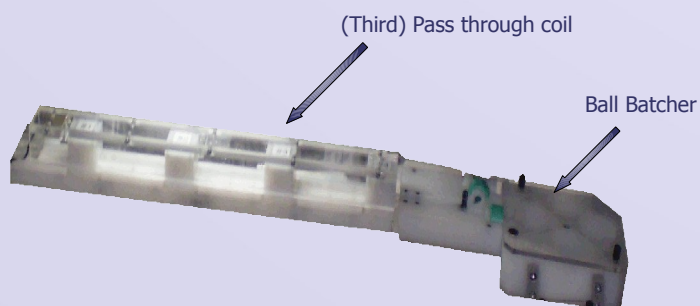
Voltage: 120V/230V 50/60 Hz $\pm 10\%$
 Phase: alternating one-phase current
 Input: Max. 250 VA
 Performance: 10 800 pcs/hour
 Range: from $\varnothing 3,0\text{mm}$ to $\varnothing 6,35\text{mm}$
 (diameter of the sorted ball)
 Precision: ca ± 2 HRC from the calibration
 samples
 Frequency range: from 10,0 to 150,0 kHz
 Weight: 40 kgs
 Basic proportions: 130 cm x 60 cm x 60 cm
 (length x height x width)
 Hopper volume: ca 100 kgs of sorted balls



Order numbers:

NAME	ORDER NUMBER	DESCRIPTION
HTA 0306 MF	K 375 023.001	Hardness Tester with Hopper and Pre-Sorter for deviating diameters for the range from 3,0 to 6,35 mm <u>Multi</u> Frequency.
HTA 0306 MF	K 375 023.002	Hardness Tester with Hopper and without Pre-Sorter for deviating diameters for the range from 3,0 to 6,35 mm <u>Multi</u> Frequency.
HT 0306 MF	K 375 024	Hardness Tester without Hopper and without Pre-Sorter for deviating diameters for the range from 3,0 to 6,35 mm <u>Multi</u> Frequency..

For orders, please, contact the producer.



Coil module (with four coils)



CU-TS - Central unit with touch screen

