



X-RAY SYSTEM FOR SORTING OF PORTABLE WASTE BATTERIES & ACCUMULATORS



KEY FEATURES

Battery sorting with Al-driven X-ray technology

Damaged, corroded and counterfeit batteries friendly

Conveyor speed allows to provide sorting process with a productivity of 300 kg per hour

Purity of sorting for Alkaline/ZnC-99,5%

Wide coverage standard map which includes the most popular types and sizes of batteries

BATTERAY is a unique technology with no equals at the market. The influence of the upper layer of the battery is excluded. Even if a label or marking are missing, or if the battery is counterfeit the system will correctly determine the type of battery.

BATTERAY recognizes the type of batteries by scanning with X-Ray radiation. The operator is protected from X-rays.

There is a possibility to add other batteries types to the preliminary sort map, including non-standard sizes from AAAA to 21700.



TECHNICAL SPECIFICATIONS



CHARACTERISTICS (PARAMETERS):	VALUE			
Overall dimensions:				
Length	7 940 mm (312,6")			
Width	2 680 mm (105,5")			
Height	2 500 mm (98,4")			
Weight	2 400 kg (5291 lbs)			
Capacity of the loading hopper	350 kg (772 lbs)			
Size of the loading hopper	250 L (66 gal)			
Speed of sorting conveyor	1,0 m/sec			
Sorting capacity	up to 25000 batteries per hour			
Throughput capacity	350-500 kg/h			
Pneumatic	8 bar, 200-500 SLPM			
X-ray protection	Full operator protection			
X-ray emission	Complies with the standard: 1 μ Sv/h at any point at a distance of 10 cm from the device. Typical value of our system less than 0.3 μ Sv			
Purity of sorting:				
Zinc-carbon, alkaline	99,5 %			
All groups	95 %			

SORT MAP (pretrained by default)

SIZE		GROUP / INJECTOR							
	Zn	ALK	NiCd/MH*	NiCd	NiMH	Li-Primary *	Li-lon		
AAAA (LR61)	+	+	+	+	+				
AAA (R03)	+	+	+	+	+	+	+		
AA	+	+	+	+	+	+	+		
С	+	+	+			+			
D	+	+	+	+	+	+			
6F22 (9V)	+	+	+			+			
A23		+							
A27		+							
Cr2									
16340 (R123)						+	+		
1/2AA						+			
18650							+		
21700							+		

* Li-Primary Li-S02, Li-FeS2, Li-Mn02

SOFTWARE FUNCTIONS

- Program for adding batteries not included in preliminary trained sort map. Including non-standard sizes from AAAA to 21700
- Standard sorting (default sort map)
- Sorting with customer added batteries (default sort map + customer base) the user can add previously unrecognized batteries to the database





