



ALS-L7.5

The high-energy permanent magnet inside a high speed drum creates a strong electromagnetic induction phenomenon on the surface of the drum. When the aluminum, copper, brass and magnesium (high conductive materials) pass through this magnetic field, the eddy current occurs repelling them respective to their conductivity thereby pushing each the distance determined by Fleming's left hand law creating separate piles for each type of material.

Usage

1. Recovery aluminum cans from plastic and glass bottles.
2. High efficiency of recovery of aluminum from city waste.
3. Separation of nails and iron steels from crushed machines.
4. Recovery of valuable metals from glass cullet.



Separation of aluminum cans from steel cans



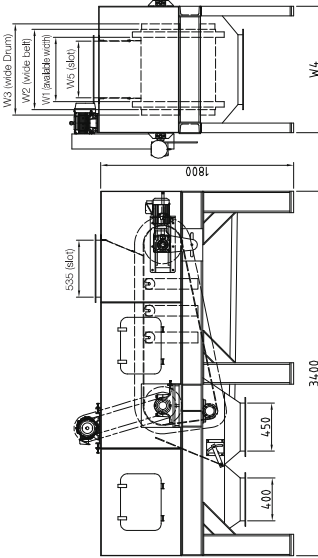
Separated ferrous metals

Features

1. 2 models for material size, ALS-L for large objects like cans & ALS-S for small objects.
2. Parallel usage with vibration feeder provides stable feeding volume and increase separation efficiency.
3. Belt drive with hypoid gear motor.

Specifications

1. Magnetic Drum Speed : ALS-L (Max. 1,800rpm) & ALS-S (Max. 2,500rpm)
2. Including a controller unit
3. Belt drive with hypoid gear motor.



ALS-L Series

Model	Standard body dimension (mm)										Drum diameter (mm)	Drum speed (PPM)	Ball speed (m/min)	Output(kw)		Approximate Weight (Approx. kg)
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10				Belt	Drum	
ALS-L6	300	450	550	680	230						2.2	1,200	0.75	3.7	1,500	
ALS-L4.5	450	600	700	1030	380					Max 1,800	2.2	1,500	1.5	5.5	1,800	
ALS-L6	600	750	850	1,180	530	4,954				Max 1,800	7.5	2,100	2.2	11	2,500	
ALS-L7.5	750	900	1,000	1,330	680					Max 2,500	7.5	2,500	2.2	11	3,000	
ALS-L9	900	1,050	1,150	1,480	830					Max 2,500	7.5	2,500	2.2	11	3,000	
ALS-L12	1,200	1,350	1,450	1,780	1,130					Max 2,500	7.5	2,500	2.2	11	3,000	



Aluminum separator is useful in situations such as:

●Bulky-waste crush lines

Aluminum separators enhance the efficiency of separation and recovery of aluminum from crushed city waste.

●Recovery of conductors from glass cullet

Aluminum separators streamline the recovery and separation of valuable metals contained in glass cullet.

●Processing of aluminum molding sand

Aluminum separators will be useful in the recovery of aluminum scrap in aluminum-shell-sand recycling lines.

●Classification of aluminum and steel cans

Aluminum separators automatically pick up aluminum and steel cans from all waste collected from the recycling stations and service areas along highways.

●Recovery of aluminum from PET bottles

Aluminum separators allow for efficient separation and recovery of aluminum from crushed PET bottles.

●Separation of nails used in pachinko game machines.

●Recovery other conductors



Recovered crushed non-ferrous metal from ALS machine

■ ALS-S Series

Model	Standard body dimension (mm)										Drum diameter (mm)	Drum speed (PPM)	Ball speed (m/min)	Output(kw)		Approximate Weight (Approx. kg)
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10				Belt	Drum	
ALS-S3	300	450	550	680	230						2.2	1,200	0.75	3.7	1,500	
ALS-S4.5	450	600	700	1,030	380					Max 2,500	2.2	1,500	1.5	5.5	1,800	
ALS-S6	600	750	850	1,180	530	4,954				Max 2,500	7.5	2,100	2.2	11	2,500	
ALS-S7.5	750	900	1,000	1,330	680					Max 2,500	7.5	2,500	2.2	11	3,000	
ALS-S9	900	1,050	1,150	1,480	830					Max 2,500	7.5	2,500	2.2	11	3,000	
ALS-S12	1,200	1,350	1,450	1,780	1,130					Max 2,500	7.5	2,500	2.2	11	3,000	

Mechanism of Eddy Current Separator

The high-energy permanent magnet located inside the high-speed drum creates a strong electromagnetic induction phenomenon on the surface of the drum. When the aluminum, copper, brass and magnesium pass through this magnetic field, the eddy current occurs repelling them respective to their conductivity thereby pushing each the distance determined by Fleming's left hand rule. The device is useful for recycling, resource collection, and as an aluminum separator.

