E2015EN

Overbelt electromagnetic separator type STE

FEATURES

- Electromagnet with high magnetic field range and strength adapted for continuous operation S1.
- Electrical winding with reinforced insulation.
- Adaptation to all types of belt conveyors.
- Rugged construction ensuring long service life.
- Leading manufacturers' accessories.

VERSIONS

- Explosion-proof design in accordance with the requirements of the ATEX directive.
- Stainless steel design for operation in aggressive environment.
- Oil cooling design for operation in high temperatures.

EXAMPLE PROJECTS

Removal of tramp iron from coal.

Ferrous scrap recovery from metallurgical slag.

Removal of tramp iron from clinker.

Ferrous scrap recovery from municipal waste.

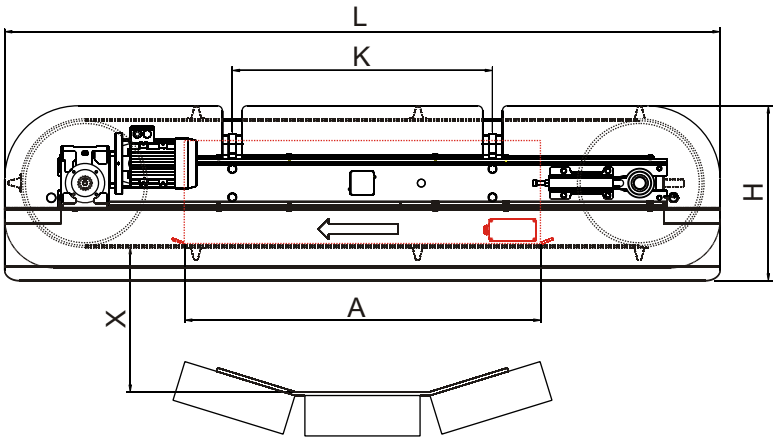
DESIGN AND STANDARD EQUIPMENT

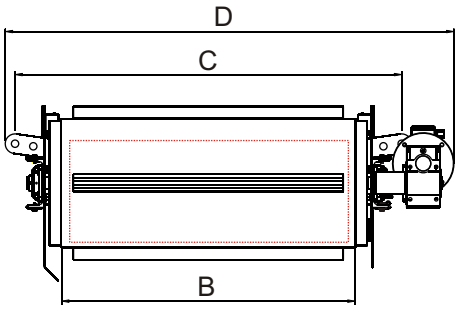
- The electromagnet body made of high magnetic susceptibility steel and tightly welded.
- The electromagnet winding composed by anodized aluminium strip and supplied with DC.
- The winding filled by special mixture with high dielectric insulation properties and high termal dispersion coefficient.
- The bottom plate made of non-magnetic and wear resistant manganese steel to protect the winding against mechanical damage.
- The short conveyor with the rubber belt equipped with the cleats to remove the captured metals.
- The drive pulley and idler feature a barrel shape for more precise centering a conveyor belt movement.
- The belt drive with SEW geared motor or of other manufacturer's on customer request.
- The control cabinet for power supply, monitoring of the operating states and control of the separator.

OPTIONAL EQUIPMENT

- The pulleys equipped with the replaceable shafts mounted with the expanding rings.
- Reinforced bearings in dustproof housings.
- Guide rollers used when the separator is suspended at angle of > 20°
- Automatic lubricators.
- The pulley surfaces covered with rubber lining with diamond shaped groves.
- Belt limit switches signalling the belt sliding off.
- Telemecanique motion sensor signalling the belt drive failure.
- Chain slings.

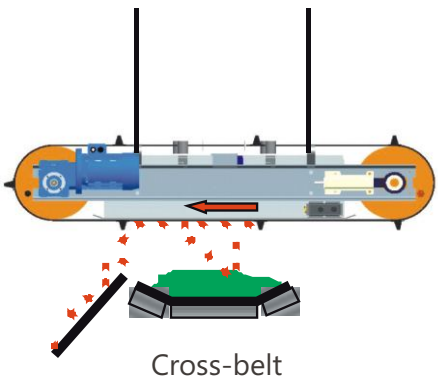
TECHNICAL DATA



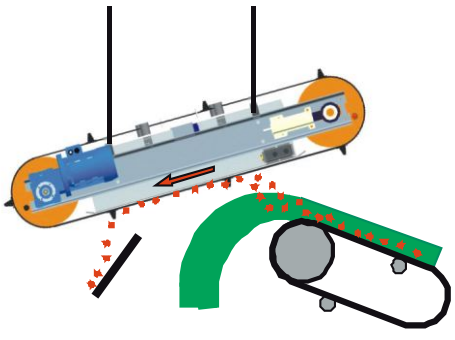


Type	Range	Magnet power	Magnet voltage	Drive power	Dimensions (mm)							Weight
	X (mm)	(kW)	(VDC)	(kW)	A	B	C	D	H	K	L	(kg)
STE 80-100	350	3,0	222	1,5	980	800	1180	1375	650	640	2190	1555
STE 80-110		3,4	250		1080					740	2290	1680
STE 80-120		4,0	290		1230					890	2440	1860
STE 80-160		5,4	380		1580					1240	2790	2290
STE 100-120	420	4,6	170	2,2	1250	1000	1390	1638	650	910	2460	2350
STE 100-140		5,2	186		1400					1060	2610	2605
STE 100-160		6,0	220		1550					1210	2760	2845
STE 100-180		6,6	236		1750					1410	2960	3170
STE 120-140	500	6,7	200	3	1425	1200	1575	1825	800	1060	2915	4100
STE 120-160		7,5	222		1575					1210	3065	4465
STE 120-180		8,4	249		1775					1410	3265	4955
STE 120-200		9,5	280		1995					1630	3485	5500
STE 140-170	600	10,5	300	3	1670	1400	1770	2020	830	1310	3165	5795
STE 140-190		11.6	332		1870					1510	3365	6420
STE 140-210		12,0	350		2070					1710	3565	7010
STE 160-210	720	14,2	194	5	2120	1600	1980	2255	850	1710	3985	10910
STE 160-230		15,4	210		2320					1910	4185	11630
STE 160-250		17,9	235		2520					2110	4385	12355
STE 180-210	830	17,3	233	7,5	2120	1800	2180	2490	850	1710	3985	11760
STE 180-250		23,8	295		2520					2110	4385	13340

INSTALLATION METHOD



Cross-belt



In-line