# OVER-BELT SEPARATOR
## TYPE STM


### FEATURES

- High permanent magnetic field range.
- Can be adapted to all types of belt conveyors.
- Low operating cost - permanent magnet does not consume electrical energy.
- Rugged construction ensuring long service life.
- Accessories from leading manufacturers.

### VERSIONS

- Explosion-proof design in accordance with the ATEX directive.
- Stainless steel design for operation in aggressive environment
- Separator with Danfoss hydraulic drive for installation on the mobile crusher.

## EXAMPLE PROJECTS


Removal of tramp iron contaminants from gravel.

Protection of the limestone crusher against tramp iron.

Removal of tramp iron contaminants from copper ore.

Separation of ferrous scrap from glass cullet.

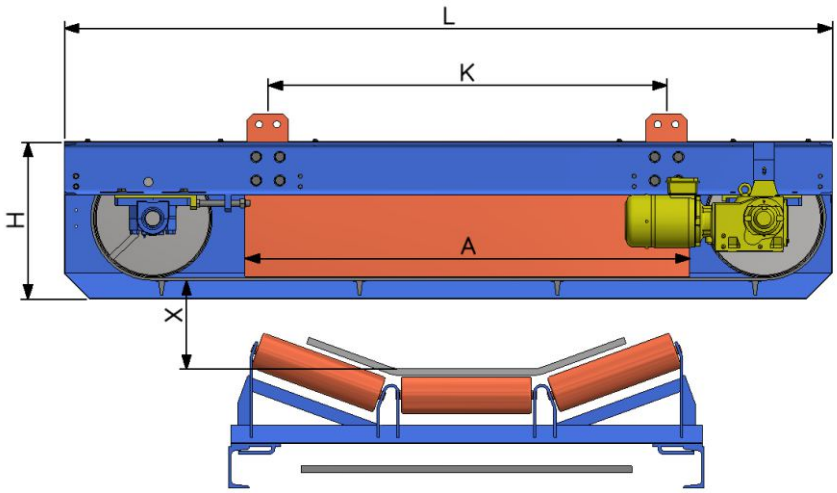
## DESIGN AND STANDARD EQUIPMENT

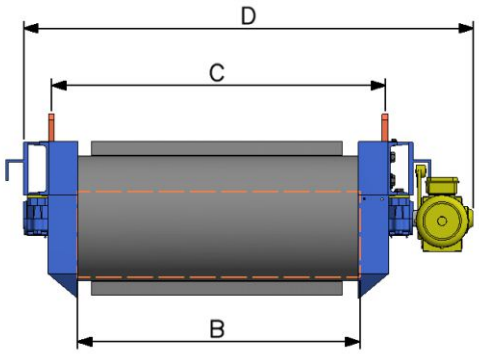
- The magnetic block made of ferrite or neodymium (NdFeB) permanent magnets to capture ferromagnetic metals.
- The block housing made of non-magnetic steel and tightly welded.
- The short conveyor with the cleated belt to remove the captured metals.
- The drive pulley and idler feature a barrel shape for more precise centering a conveyor belt movement.
- The pulleys equipped with the replaceable shafts mounted with the expanding rings.
- Reinforced bearings in dustproof housings.
- Deflector rolls improving belt alignment.
- The belt drive with NORD geared motor or of other manufacturer's on customer request.

## OPTIONAL EQUIPMENT

- Automatic lubricators.
- The pulley surfaces covered with rubber lining with diamond shaped groves.
- STEUTE belt limit switches signalling the belt sliding off.
- TELEMECANIQUE motion sensor signalling the belt drive failure.
- The control cabinet.
- Chain slings.

# TECHNICAL DATA




| Type | Working distance | Drive power | Dimensions (mm) | | | | | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | X (mm) | (kW) | A | B | C | D | H | K | L | (kg) |
| STM 60-75L | 200 ÷ 250 | 0,75 | 750 | 600 | 760 | 1100 | 410 | 550 | 1550 | 580 |
| STM 60-90L | | | 900 | | | | | 750 | 1750 | 680 |
| STM 60-110L | | | 1100 | | | | | 950 | 1950 | 780 |
| STM 60-130L | | 1,1 | 1300 | | | | | 1150 | 2150 | 870 |
| STM 60-150L | | | 1500 | | | | | 1350 | 2350 | 980 |
| STM 80-75 | 250 ÷ 300 | | 750 | 800 | 910 | 1250 | 450 | 550 | 1550 | 950 |
| STM 80-90 | | | 900 | | | | | 750 | 1750 | 1080 |
| STM 80-110 | | | 1100 | | | | | 950 | 1950 | 1260 |
| STM 80-130 | | 1,5 | 1300 | | | | | 1150 | 2150 | 1430 |
| STM 80-150 | | | 1500 | | | | | 1350 | 2350 | 1650 |
| STM 100-75 | 300 ÷ 350 | | 750 | 1000 | 1150 | 1550 | 550 | 550 | 1800 | 1580 |
| STM 100-90 | | | 900 | | | | | 750 | 2000 | 1790 |
| STM 100-110 | | | 1100 | | | | | 950 | 2200 | 2100 |
| STM 100-130 | | 2,2 | 1300 | | | | | 1150 | 2400 | 2400 |
| STM 100-150 | | | 1500 | | | | | 1350 | 2600 | 2700 |
| STM 100-170 | | | 1700 | | | | | 1550 | 2800 | 3000 |
| STM 120-75 | 350 ÷ 400 | | 750 | 1200 | 1330 | 1750 | 580 | 550 | 1900 | 2300 |
| STM 120-90 | | | 900 | | | | | 750 | 2100 | 2700 |
| STM 120-110 | | | 1100 | | | | | 950 | 2300 | 3050 |
| STM 120-130 | | 3,0 | 1300 | | | | | 1150 | 2500 | 3500 |
| STM 120-150 | | | 1500 | | | | | 1350 | 2700 | 4000 |
| STM 120-170 | | | 1700 | | | | | 1550 | 2900 | 4400 |
| STM 140-130 | > 400 | 4,0 | 1300 | 1400 | 1530 | 1950 | 580 | 1150 | 2500 | 3900 |
| STM 160-130 | | | 1300 | 1600 | 1730 | 2150 | 580 | 1150 | 2500 | 4300 |