

Trio® Magnetic Separators

Technical specifications



Trio® CR42 pictured above

Trio® Magnetic Separators

Weir Minerals' range of Trio® magnetic separators are designed for heavy-duty applications and can be supplied in either electro or permanent magnetic arrangements.

The Trio® CR and CRS series separators use an electrically powered magnetic field which can be easily adjusted using an AC-DC converter. The CR series separators, feature self-cleaning stainless-steel-clad conveyor belts which can collect and discharge materials quickly to their desired locations.

The Trio® CRP and CRPS series permanent magnets do not require any electrical power to generate a magnetic field. The CRP series separators are also equipped with stainless-steel-clad conveyor belts which can be configured to enable self-cleaning functionality and driven either by electric or hydraulic power.

All Trio® magnetic separators can be installed on a stationary crushing production line or incorporated onto a portable working station.

Features	CR series	CRS series	CRP series	CRPS series
Electromagnet	X	X		
Permanent magnet			X	X
Self-cleaning	X		X	

Applications

- Tramp material removal for standard crushing circuits
- Metallurgy
- Ceramics
- Glass
- Paper
- Construction aggregates
- Coal
- Chemical industries

Features:

- A robust and proven design
- Able to feature either electro or permanent magnet configurations
- Self-cleaning functionality*
- Oil lubricated heavy-duty gearbox*
- Bolted replaceable stainless-steel belt armour*
- Machined crown and vulcanised lagged head pulley*
- Heavy duty fabricated tail pulleys*
- Standard XT style bushings*
- Service is available through the Weir Minerals global service network

* Trio® CR and CRP series magnetic separators only

Trio® Magnetic Separator Models

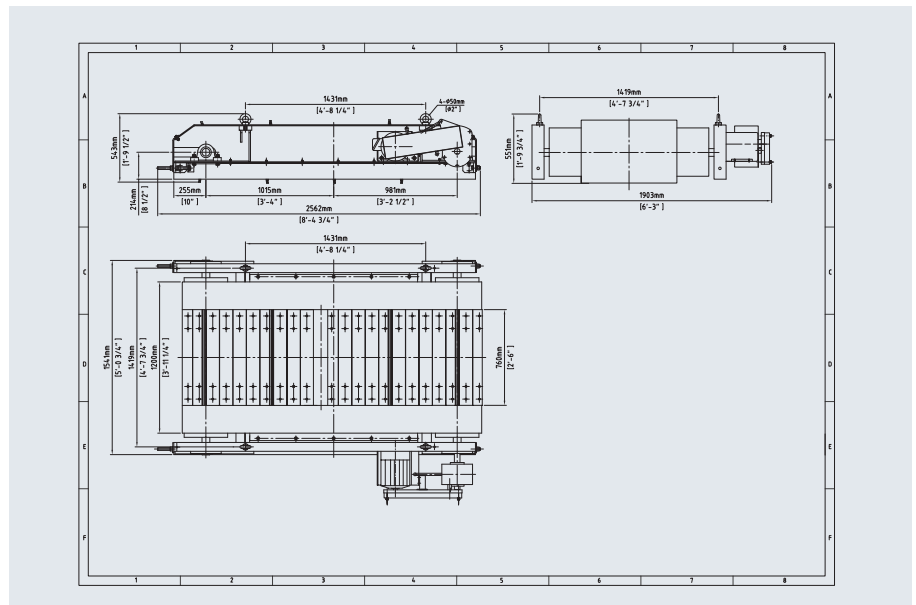
Trio® CR/CRP Series Magnetic Separators

Model	Belt Width (mm)	Machine Size (mm)(L×W×H)	Machine Weight (kg)	Rectifier Power (kW)	Motor Power (kW)
SELF-CLEANING					
CR36	915	2,374x1,668x752	2,395	6.1	4
CR42	1,060	2,548x1,828x766	2,900	7.5	4
CR48	1,200	2,701x1,972x766	3,290	9.6	4
CR54	1,370	2,887x2,125x767	4,355	10.9	5.5
CR60	1,524	3,240x2,294x785	5,332	12.9	5.5
CRP30	760	1,936x1,447x457	904		2.2
CRP36	915	2,257x1,599x551	1,632		2.2
CRP42	1,060	2,409x1,751x551	2,149		4
CRP48	1,200	2,562x1,903x543	2,786		4

Trio® CRS/CRPS Series Magnetic Separators

Model	Belt Width (mm)	Machine Size (mm)(L×W×H)	Machine Weight (kg)	Rectifier Power (kW)
STATIONARY				
CRS36	n/a	1,210x914x536	1,520	6.1
CRS42	n/a	1,362x1,067x536	1,840	7.5
CRS48	n/a	1,535x1,219x540	2,360	9.6
CRS54	n/a	1,667x1,372x510	2,750	10.9
CRS60	n/a	1,819x1,676x520	3,855	12.9
CRPS30	n/a	918x862x205	498	
CRPS36	n/a	1,067x1,014x294	1,060	
CRPS42	n/a	1,219x1,167x303	1,480	
CRPS48	n/a	1,372x1,319x304	2,018	

Trio® CR Series Magnetic Separators Model CRP48 General Arrangement Drawing



Weir Minerals

trio@mail.weir
www.global.weir

Please note: Drawings not to scale. For other models, please contact your local Weir Minerals representative. Specifications may not be representative of most recent upgrades and changes.

Copyright © 2020, Weir Group Machinery Equipment (Shanghai) Co., Ltd. All rights reserved. The trademarks mentioned in this document are trademarks and/or registered trademarks of companies forming part of The Weir Group PLC.
WMD1168/202006