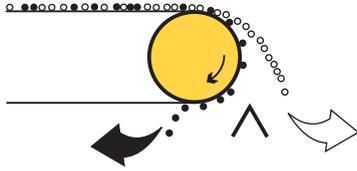


PLY



PLY magnetic pulley provides a uniform and high-intensity magnetic field to ensure the continuous and automatic separation of tramp iron from material conveyed on any belt conveyor system. The magnetic field is generated all around the pulley and is effective on the entire surface in the range of conveyor belt, the magnetizable iron pieces pass through the magnetic field with minimum distance over separator, and they are attracted and held to the belt until it passes out of the magnetic field and are discharged into a chute or bin. The cleaned, non-magnetic material is discharged normally over the pulley. The pulley shaft is made of removable mild steel and is optionally available in stainless steel. An adjustable stainless-steel divider, typically installed below the head pulley, is positioned according to specific material flow and tramp iron discharge conditions. It allows for precise separation tuning and ensures optimal separation performance. Standard PLY separators are designed with an alternating axial pole configuration and are equipped with high-strength ceramic magnets encased in a rolled stainless-steel shell. The end caps are fitted with flanged hubs, machined to accommodate any shaft specifications as per customer requirements. Standard pulleys are rated for conveyed material temperatures up to 80°C. For specialized applications—such as the separation of weakly magnetic particles, very fine ferrous contaminants, or materials with high burden

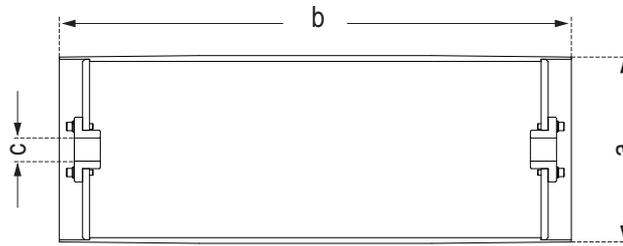
with high-performance Neodymium (NdFeB) magnet assemblies, providing significantly increased magnetic field strength and penetration. The pulley length is determined by the belt width. To optimize separation performance, please provide detailed information on the size and shape of the ferrous contaminants to be separated, the type and layer thickness of the conveyed material, and the belt speed. PLY separators are ideally suited for applications with low bulk material heights or for the separation of ferrous tramp iron particles that are captured and embedded within the material flow. PLY separators are designed to remove large ferrous contaminants, such as bolts, strips, and tools, which could otherwise cause damage to conveyors, crushers, or processing machinery. PLY magnetic pulleys are suitable for a wide range of bulk materials, including coal, coke, limestone, cement, rock, salt, potash, blast furnace and steel mill slag, foundry sand, gravel, synthetic granulates, recyclable wood products, food, chemicals, mining materials, ceramics, paper, and applications in coal handling and foundry operations.

Features and application

- Available in high depth radial pole or axial alternative pole arrangement
- Self-cleaning separator
- Stainless steel shell with mild steel caps
- High strength ceramic or optional Rare-Earth magnet elements
- Standard stainless steel flat face in optional crowned face or vulcanized rubber lagging
- Low-cost operation and maintenance



PLY



Model	Pulley diameter a	Belt width	Effective magnet width	Pulley width b	Effective depth of field	Max belt speed m/sec	Inside hub diameter c	Weight
	Mm (inch)	mm	mm	mm	mm		mm	kg
PLY 20-40	203 (8)	400	350	500	30	0.5	35	55
PLY 20-50		500	450	600				70
PLY 20-60		600	550	700				82
PLY 20-70		700	650	800				96
PLY 20-80		800	750	950				110
PLY 20-90		900	850	1,050				120
PLY 20-100		1,000	950	1,150				135
PLY 30-40	305 (12)	400	350	500	50	0.8	50	112
PLY 30-50		500	450	600				142
PLY 30-60		600	550	700				170
PLY 30-70		700	650	800				200
PLY 30-80		800	750	950				225
PLY 30-90		900	850	1,050				257
PLY 30-100		1,000	950	1,150				300
PLY 30-120	1,200	1,150	1,350	350				
PLY 38-40	381 (15)	400	350	500	60	1	60	170
PLY 38-50		500	450	600				220
PLY 38-60		600	550	700				270
PLY 38-70		700	650	800				310
PLY 38-80		800	750	950				350
PLY 38-90		900	850	1,050				410
PLY 38-100		1,000	950	1,150				480
PLY 38-120	1,200	1,150	1,350	550				
PLY 45-40	457 (18)	400	350	500	70	1.2	70	250
PLY 45-50		500	450	600				310
PLY 45-60		600	550	700				380
PLY 45-70		700	650	800				440
PLY 45-80		800	750	950				510
PLY 45-90		900	850	1,050				580
PLY 45-100		1,000	950	1,150				680
PLY 45-120	1,200	1,150	1,350	780				
PLY 50-40	508 (20)	400	350	500	80	1.5	75	295
PLY 50-50		500	450	600				375
PLY 50-60		600	550	700				440
PLY 50-70		700	650	800				510
PLY 50-80		800	750	950				580
PLY 50-90		900	850	1,050				670
PLY 50-100		1,000	950	1,150				800
PLY 50-120		1,200	1,150	1,350				930
PLY 50-130		1,300	1,250	1,450				1,000
PLY 50-140		1,400	1,350	1,550				1,080
PLY 50-150		1,500	1,450	1,650				1,150
PLY 60-40	610 (24)	400	350	500	100	1.8	90	440
PLY 60-50		500	450	600				565
PLY 60-60		600	550	700				690
PLY 60-70		700	650	800				800
PLY 60-80		800	750	950				920
PLY 60-90		900	850	1,050				1,080
PLY 60-100		1,000	950	1,150				1,250
PLY 60-120		1,200	1,150	1,350				1,450
PLY 60-130		1,300	1,250	1,450				1,570
PLY 60-140		1,400	1,350	1,550				1,680
PLY 60-150		1,500	1,450	1,650				1,800