

# Magnetic Pulleys

磁性皮帶輪

*...Only from Eriez.*

*Permanent and Electric* 永久和電氣

*Powerful magnetic pulleys for automatic separation of heavy tramp iron contaminants from conveyor transported materials.*

**E**riez provides a uniform permanent magnetic pulley that will transform your belt conveyor into a powerful self cleaning magnetic separator. The axial interpole magnetic circuit provides a uniform magnetic field to remove tramp iron from material on almost any belt conveyor.

Eriez Magnetic Pulleys provide ideal automatic removal of unwanted iron from materials conveyed on belts to prevent machinery damage and product contamination for sand, gravel, limestone, recyclables, wood products, food, chemical, mining, rock products, ceramic, paper, coal handling and foundry operations.



## 操作的原理

### PRINCIPLE OF OPERATION

Eriez Magnetic Pulleys are widely used as head pulleys in belt conveyors for continuous automatic removal of damaging tramp iron from a variety of materials.

As illustrated in Figure 1, tramp-iron contaminated material comes within the pulley's magnetic field, the tramp iron is attracted and held to the belt until it reaches the underside, passes out of the magnetic field, and is separately discharged. The cleaned, nonmagnetic material is discharged over the pulley in a normal trajectory.

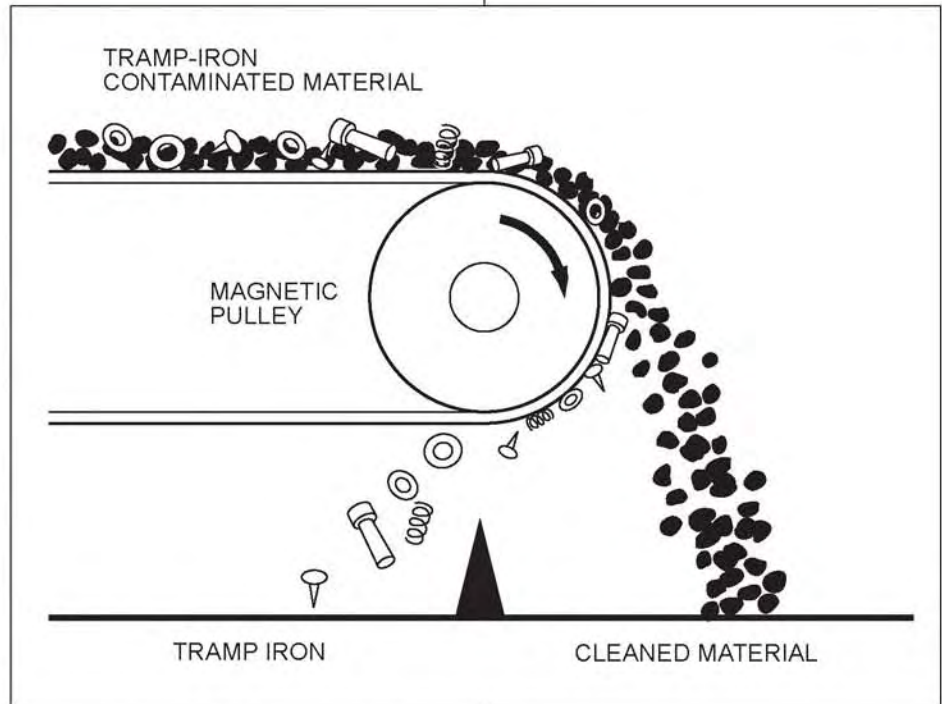
A stainless steel splitter assembly is required to separate segmented material fractions. An adjustable splitter will permit separation fine tuning and provide optimum separation performance for your application.

Figures 2 and 3 illustrate the degree of separation possible in a typical processing line situation.

**Figure 2. Fine Iron Contaminants Removed from Three-Inch Burden Depth**



**Figure 3. Large Pieces of Tramp Iron Automatically Removed from Processing Line**



**Figure 1. Operating Principle of a Magnetic Pulley**

## AIP 皮帶輪結構

### AIP PULLEY CONSTRUCTION

(軸流式內極皮帶輪 AXIAL INTERPOLE PULLEYS)

All Eriez Permanent Magnet Axial Interpole Pulleys are constructed of quality steel center tubes with welded dividers to securely hold magnet stacks. Standard pulley models use powerful ceramic magnets in an axial interpole circuit. Pulleys are all-welded heavy duty construction for use in severe applications involving extra long conveyors, heavy loads or start-stop operations. Pulleys are finish painted and hub bore holes are coated to prevent rust or pitting. Options available in the magnetic pulley line include custom pulley face widths, shafts and lagging.

#### 高溫用途

#### High Temperature Applications

Model AA Pulleys, with a powerful agitating magnetic field, are constructed with Alnico magnet material for use in high temperature applications above 250°F (121°C). They are available in standard diameters of 8, 12, 15 and 18-inches (203, 305, 381 and 457mm), and in widths from 8 to 60-inches (203 to 1524mm). Like all Eriez pulleys, larger sizes can be built to order.

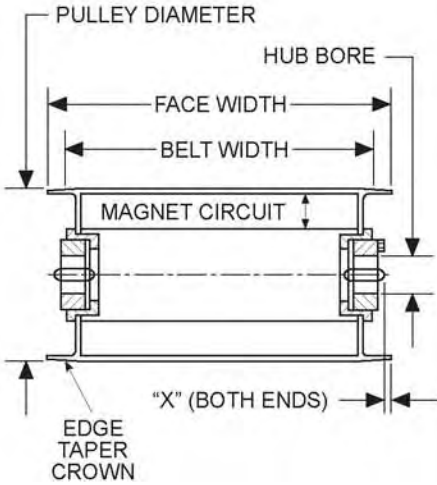


**STANDARD AIP PULLEY DIMENSIONS**

**SPECIFICATIONS 規格**

Inch-Lb. System (英製)

Listed capacities are based on operation at rated belt speed shown for each diameter and strength, which are maximum recommended belt speeds. Lower belt speeds will require a proportionate reduction in capacity to maintain a reasonable depth of flow consistent with efficient separation performance.



Pulley Diameter Inches (Belt Speed)	Belt Width Inches	Shipping Wt. Lbs. Approx.	Capacity CU. Ft. Per. Hr.	Face Width Inches	Standard Hub Bore Inches	Keyway In Shaft W. x Dp. x Lg. Inches	Dimension X Inches
<b>8</b> (140 FPM)	8	55	450	10	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	10	70	580	12	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	12	85	640	14	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	14	95	800	16	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	16	110	1,070	18	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	18	125	1,370	20	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	20	140	1,750	22	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	24	165	2,400	26	1 7/16	3/8 x 3/16 x 2 1/4	1/4
	30	205	4,010	32	1 7/16	3/8 x 3/16 x 2 1/4	1/4
36	250	5,690	38	1 7/16	3/8 x 3/16 x 2 1/4	1/4	
<b>12</b> (210 FPM)	12	165	950	14	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	14	195	1,200	16	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	16	225	1,590	18	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	18	255	2,250	20	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	20	285	2,700	22	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	24	340	3,590	26	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	30	430	6,020	32	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	36	520	8,530	38	1 15/16	1/2 x 1/4 x 2 1/2	1/4
	48	610	10,800	44	1 15/16	1/2 x 1/4 x 2 1/2	1/4
48	700	15,120	51	1 15/16	1/2 x 1/4 x 2 1/2	1/4	
<b>15</b> (240 FPM)	12	245	1,070	14	2 7/16	5/8 x 5/16 x 3	1/4
	14	295	1,360	16	2 7/16	5/8 x 5/16 x 3	1/4
	16	340	1,870	18	2 7/16	5/8 x 5/16 x 3	1/4
	18	390	2,720	20	2 7/16	5/8 x 5/16 x 3	1/4
	20	440	3,100	22	2 7/16	5/8 x 5/16 x 3	1/4
	24	535	4,100	26	2 7/16	5/8 x 5/16 x 3	1/4
	30	680	6,880	32	2 7/16	5/8 x 5/16 x 3	1/4
	36	820	9,750	38	2 7/16	5/8 x 5/16 x 3	1/4
	48	965	12,320	44	2 7/16	5/8 x 5/16 x 3	1/4
48	1,110	17,280	51	2 7/16	5/8 x 5/16 x 3	1/4	
<b>18</b> (270 FPM)	12	350	1,200	14	2 7/16	5/8 x 5/16 x 3	1/4
	14	420	1,540	16	2 7/16	5/8 x 5/16 x 3	1/4
	16	490	2,200	18	2 7/16	5/8 x 5/16 x 3	1/4
	18	550	3,060	20	2 7/16	5/8 x 5/16 x 3	1/4
	20	620	3,690	22	2 15/16	3/4 x 3/8 x 3	1/4
	24	760	4,620	26	2 15/16	3/4 x 3/8 x 3	1/4
	30	960	7,740	32	2 15/16	3/4 x 3/8 x 3	1/4
	36	1,160	10,970	38	2 15/16	3/4 x 3/8 x 3	1/4
	48	1,360	13,900	44	2 15/16	3/4 x 3/8 x 3	1/4
48	1,560	19,450	51	2 15/16	3/4 x 3/8 x 3	1/4	
<b>20</b> (300 FPM)	14	500	1,700	16	2 15/16	3/4 x 3/8 x 3	1/4
	16	590	2,400	18	2 15/16	3/4 x 3/8 x 3	1/4
	18	680	3,400	20	2 15/16	3/4 x 3/8 x 3	1/4
	20	750	4,100	22	2 15/16	3/4 x 3/8 x 3	1/4
	24	880	5,130	26	2 15/16	3/4 x 3/8 x 3	1/4
	30	1,120	8,600	32	2 15/16	3/4 x 3/8 x 3	1/4
	36	1,350	12,190	38	2 15/16	3/4 x 3/8 x 3	1/4
	42	1,600	15,400	44	2 15/16	3/4 x 3/8 x 3	1/4
	48	1,850	21,600	51	2 15/16	3/4 x 3/8 x 3	1/4
54	2,050	28,410	57	2 15/16	3/4 x 3/8 x 3	1/4	
60	2,300	37,080	63	2 15/16	3/4 x 3/8 x 3	1/4	
<b>24</b> (340 FPM)	14	765	2,000	16	2 15/16	3/4 x 3/8 x 3	1/4
	16	885	2,720	18	2 15/16	3/4 x 3/8 x 3	1/4
	18	1,010	4,420	20	2 15/16	3/4 x 3/8 x 3	1/4
	20	1,130	4,670	22	2 15/16	3/4 x 3/8 x 3	1/4
	24	1,380	5,850	26	2 15/16	3/4 x 3/8 x 3	1/4
	30	1,750	9,800	32	3 7/16	7/8 x 7/16 x 3	1/4
	36	2,150	16,250	38	3 7/16	7/8 x 7/16 x 3	1/4
	42	2,500	17,500	44	3 15/16	1 x 1/2 x 3	1/4
	48	2,900	24,500	51	3 15/16	1 x 1/2 x 3	1/4
54	3,250	32,390	57	3 15/16	1 x 1/2 x 3	1/4	
60	3,600	42,270	63	3 15/16	1 x 1/2 x 3	1/4	
<b>30</b> (400 FPM)	18	1,350	4,550	20	3 15/16	1 x 1/2 x 3	1/4
	20	1,500	5,460	22	3 15/16	1 x 1/2 x 3	1/4
	24	1,850	6,840	26	4 3/16	1 x 1/2 x 3	1/4
	30	2,350	11,460	32	4 11/16	1 1/4 x 5/8 x 3 1/2	1/4
	36	2,850	16,250	38	4 11/16	1 1/4 x 5/8 x 3 1/2	1/4
	42	3,400	20,600	44	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
	48	3,900	28,800	51	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
	54	4,450	37,870	57	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
	60	4,950	49,320	63	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
<b>36</b> (440 FPM)	18	1,900	5,100	20	4 3/16	1 x 1/2 x 3	1/4
	20	2,100	6,050	22	4 3/16	1 x 1/2 x 3	1/4
	24	2,600	7,500	26	4 11/16	1 1/4 x 5/8 x 3 1/2	1/4
	30	3,250	12,600	32	4 11/16	1 1/4 x 5/8 x 3 1/2	1/4
	36	3,950	17,900	38	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
	42	4,650	22,600	44	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
	48	5,350	31,700	51	5 3/16	1 1/4 x 5/8 x 3 1/2	1/4
	54	6,050	41,700	57	6 3/16	1 1/2 x 3/4 x 4	1/4
	60	6,800	54,400	63	7 3/16	1 1/2 x 3/4 x 4 7/8	1/4

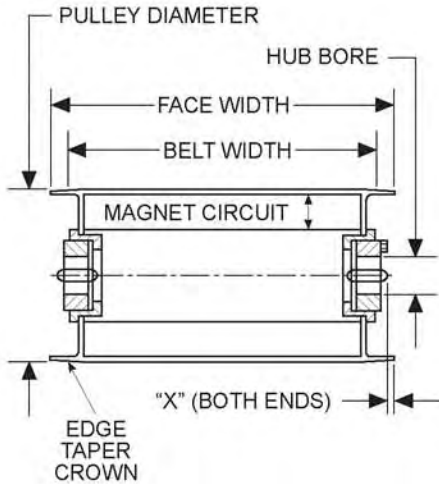
Special Hub Bores Available Upon Request

**METRIC AIP PULLEY DIMENSIONS**

**SPECIFICATIONS 規格**

Metric System (公製)

Listed capacities are based on operation at rated belt speed shown for each diameter and strength, which are maximum recommended belt speeds. Lower belt speeds will require a proportionate reduction in capacity to maintain a reasonable depth of flow consistent with efficient separation performance.

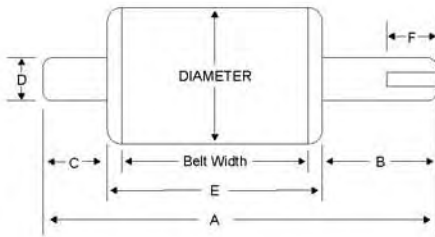


**Special Hub Bores Available Upon Request**

Pulley Diameter mm (Belt Speed)	Belt Width mm	Shipping Wt. Kg. Approx.	Capacity CU. Mtr. Per. Hr.	Face Width mm	Standard Hub Bore mm	Keyway In Shaft W. x Dp. x Lg. mm	Dimension X mm
203mm (43 MTR P.M.)	203	25	12.7	254	36.5	9.53 x 4.77 x 58	6
	254	32	16.4	305	36.5	9.53 x 4.77 x 58	6
	305	39	18.1	356	36.5	9.53 x 4.77 x 58	6
	356	43	22.6	406	36.5	9.53 x 4.77 x 58	6
	406	50	30.3	457	36.5	9.53 x 4.77 x 58	6
	457	57	38.8	508	36.5	9.53 x 4.77 x 58	6
	508	64	50	559	36.5	9.53 x 4.77 x 58	6
	610	75	68	660	36.5	9.53 x 4.77 x 58	6
	914	93	114	813	36.5	9.53 x 4.77 x 58	6
	914	114	161	965	36.5	9.53 x 4.77 x 58	6
305mm (64 MTR P.M.)	305	75	27	356	49.2	12.7 x 6.3 x 63.5	6
	356	89	34	406	49.2	12.7 x 6.3 x 63.5	6
	406	102	45	457	49.2	12.7 x 6.3 x 63.5	6
	457	116	64	508	49.2	12.7 x 6.3 x 63.5	6
	508	129	77	559	49.2	12.7 x 6.3 x 63.5	6
	610	154	102	660	49.2	12.7 x 6.3 x 63.5	6
	762	195	170	813	49.2	12.7 x 6.3 x 63.5	6
	914	236	242	965	49.2	12.7 x 6.3 x 63.5	6
	1,067	277	306	1,118	49.2	12.7 x 6.3 x 63.5	6
1,219	318	428	1,295	49.2	12.7 x 6.3 x 63.5	6	
381mm (73 MTR P.M.)	305	111	30	356	61.9	15.88 x 7.94 x 76	6
	356	134	39	406	61.9	15.88 x 7.94 x 76	6
	406	154	53	457	61.9	15.88 x 7.94 x 76	6
	457	177	77	508	61.9	15.88 x 7.94 x 76	6
	508	200	88	559	61.9	15.88 x 7.94 x 76	6
	610	243	116	660	61.9	15.88 x 7.94 x 76	6
	762	309	195	813	61.9	15.88 x 7.94 x 76	6
	914	372	276	965	61.9	15.88 x 7.94 x 76	6
	1,067	438	349	1,118	61.9	15.88 x 7.94 x 76	6
1,219	504	489	1,295	61.9	15.88 x 7.94 x 76	6	
457mm (82 MTR P.M.)	305	159	34	356	61.9	15.88 x 7.94 x 76	6
	356	191	44	406	61.9	15.88 x 7.94 x 76	6
	406	222	62	457	61.9	15.88 x 7.94 x 76	6
	457	250	87	508	61.9	15.88 x 7.94 x 76	6
	508	281	105	559	74.6	19.05 x 9.53 x 76	6
	610	345	132	660	74.6	19.05 x 9.53 x 76	6
	762	436	219	813	74.6	19.05 x 9.53 x 76	6
	914	527	310	965	74.6	19.05 x 9.53 x 76	6
	1,067	617	394	1,118	74.6	19.05 x 9.53 x 76	6
1,219	708	550	1,295	74.6	19.05 x 9.53 x 76	6	
508mm (91 MTR P.M.)	356	227	48	406	74.6	19.05 x 9.53 x 76	6
	406	268	68	457	74.6	19.05 x 9.53 x 76	6
	457	309	96	508	74.6	19.05 x 9.53 x 76	6
	508	341	116	559	74.6	19.05 x 9.53 x 76	6
	610	400	145	660	74.6	19.05 x 9.53 x 76	6
	762	508	244	813	74.6	19.05 x 9.53 x 76	6
	914	613	345	965	74.6	19.05 x 9.53 x 76	6
	1,067	726	436	1,118	74.6	19.05 x 9.53 x 76	6
	1,219	840	615	1,295	74.6	19.05 x 9.53 x 76	6
1,372	931	810	1,448	74.6	19.05 x 9.53 x 76	6	
1,524	1,044	1,050	1,600	74.6	19.05 x 9.53 x 76	6	
610mm (104 MTR P.M.)	356	347	57	406	74.6	19.05 x 9.53 x 76	6
	406	402	77	457	74.6	19.05 x 9.53 x 76	6
	457	459	125	508	74.6	19.05 x 9.53 x 76	6
	508	513	132	559	74.6	19.05 x 9.53 x 76	6
	610	627	166	660	74.6	19.05 x 9.53 x 76	6
	762	795	280	813	87.3	22.23 x 11.11 x 76	6
	914	976	460	965	87.3	22.23 x 11.11 x 76	6
	1,067	1,135	500	1,118	100	25.4 x 12.7 x 76	6
	1,219	1,317	700	1,295	100	25.4 x 12.7 x 76	6
1,372	1,476	920	1,448	100	25.4 x 12.7 x 76	6	
1,524	1,634	1,200	1,600	100	25.4 x 12.7 x 76	6	
762mm (122 MTR P.M.)	457	613	130	508	100	25.4 x 12.7 x 76	6
	508	681	155	559	100	25.4 x 12.7 x 76	6
	610	840	195	660	106.4	25.4 x 12.7 x 76	6
	762	1,067	325	813	119	31.75 x 15.88 x 89	6
	914	1,294	460	965	119	31.75 x 15.88 x 89	6
	1,067	1,544	585	1,118	131.8	31.75 x 15.88 x 89	6
	1,219	1,771	815	1,295	131.8	31.75 x 15.88 x 89	6
	1,372	2,020	1,071	1,448	134.9	31.75 x 15.88 x 89	6
	1,524	2,247	1,400	1,600	134.9	31.75 x 15.88 x 89	6
914mm (134 MTR P.M.)	457	863	145	508	106.4	25.4 x 12.7 x 76	6
	508	953	175	559	106.4	25.4 x 12.7 x 76	6
	610	1,180	215	660	119	31.75 x 15.88 x 89	6
	762	1,476	360	813	119	31.75 x 15.88 x 89	6
	914	1,793	510	965	131.8	31.75 x 15.88 x 89	6
	1,067	2,111	640	1,118	131.8	31.75 x 15.88 x 89	6
	1,219	2,429	900	1,295	134.9	31.75 x 15.88 x 89	6
	1,372	2,747	1,180	1,448	151.2	38.1 x 19.05 x 102	6
	1,524	3,087	1,540	1,600	182.5	44.45 x 22.23 x 124	6

**STANDARD AIP SHAFT DIMENSIONS**

**SPECIFICATIONS 規格**  
Inch-Lb. System (英製)

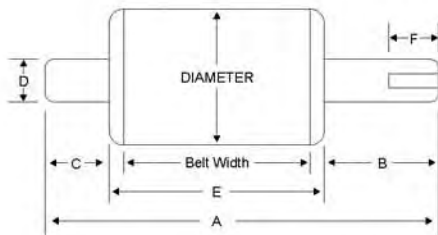


Standard Shaft Dimensions

**Special Shaft Sizes Available Upon Request**

Pulley Diameter mm (Belt Speed)	Belt Width	A	B	C	D	E	F	Keyway
<b>8</b> (140 FPM)	8	25	9	6	1 1/16	10	2 1/8	0.375 x 0.212
	10	27	9	6	1 1/16	12	2 1/8	0.375 x 0.212
	12	29	9	6	1 1/16	14	2 1/8	0.375 x 0.212
	14	31	9	6	1 1/16	16	2 1/8	0.375 x 0.212
	16	33	9	6	1 1/16	18	2 1/8	0.375 x 0.212
	18	35	9	6	1 1/16	20	2 1/8	0.375 x 0.212
	20	37	9	6	1 1/16	22	2 1/8	0.375 x 0.212
	24	41	9	6	1 1/16	26	2 1/8	0.375 x 0.212
	30	47	9	6	1 1/16	32	2 1/8	0.375 x 0.212
36	53	9	6	1 1/16	38	2 1/8	0.375 x 0.212	
<b>12</b> (210 FPM)	12	34	12	8	1 1/8	14	3 1/8	0.500 x 0.281
	14	36	12	8	1 1/8	16	3 1/8	0.500 x 0.281
	16	38	12	8	1 1/8	18	3 1/8	0.500 x 0.281
	18	40	12	8	1 1/8	20	3 1/8	0.500 x 0.281
	20	44	13	9	1 1/8	22	3 1/8	0.500 x 0.281
	24	48	13	9	1 1/8	26	3 1/8	0.500 x 0.281
	30	55	14	9	1 1/8	32	3 1/8	0.500 x 0.281
	36	61	14	9	1 1/8	38	3 1/8	0.500 x 0.281
	42	69	15	10	1 1/8	44	3 1/8	0.500 x 0.281
48	75	14	10	1 1/8	51	3 1/8	0.500 x 0.281	
<b>15</b> (240 FPM)	12	34	12	8	2 1/16	14	3 1/8	0.625 x 0.344
	14	36	12	8	2 1/16	16	3 1/8	0.625 x 0.344
	16	41	14	9	2 1/16	18	4 1/8	0.625 x 0.344
	18	43	14	9	2 1/16	20	4 1/8	0.625 x 0.344
	20	47	15	10	2 1/16	22	4 1/8	0.625 x 0.344
	24	53	16	11	2 1/16	26	4 1/8	0.625 x 0.344
	30	60	17	11	2 1/16	32	5 1/8	0.625 x 0.344
	36	66	17	11	2 1/16	38	5 1/8	0.625 x 0.344
	42	74	18	12	2 1/16	44	5 1/8	0.625 x 0.344
48	80	17	12	2 1/16	51	5 1/8	0.625 x 0.344	
<b>18</b> (270 FPM)	12	37	14	9	2 1/16	14	4 1/8	0.625 x 0.344
	14	39	14	9	2 1/16	16	4 1/8	0.625 x 0.344
	16	41	14	9	2 1/16	18	4 1/8	0.625 x 0.344
	18	43	14	9	2 1/16	20	4 1/8	0.625 x 0.344
	20	47	15	10	2 1/8	22	4 1/8	0.750 x 0.406
	24	53	16	11	2 1/8	26	4 1/8	0.750 x 0.406
	30	60	17	11	2 1/8	32	5 1/8	0.750 x 0.406
	36	66	17	11	2 1/8	38	5 1/8	0.750 x 0.406
	42	74	18	12	2 1/8	44	5 1/8	0.750 x 0.406
48	80	17	12	2 1/8	51	5 1/8	0.750 x 0.406	
<b>20</b> (300 FPM)	14	39	14	9	2 1/8	16	4 1/8	0.750 x 0.406
	16	41	14	9	2 1/8	18	4 1/8	0.750 x 0.406
	18	45	15	10	2 1/8	20	4 1/8	0.750 x 0.406
	20	47	15	10	2 1/8	22	4 1/8	0.750 x 0.406
	24	53	16	11	2 1/8	26	4 1/8	0.750 x 0.406
	30	60	17	11	2 1/8	32	5 1/8	0.750 x 0.406
	36	66	17	11	2 1/8	38	5 1/8	0.750 x 0.406
	42	74	18	12	2 1/8	44	5 1/8	0.750 x 0.406
	48	80	17	12	2 1/8	51	5 1/8	0.750 x 0.406
54	87	18	12	2 1/8	57	6 1/8	0.750 x 0.406	
60	93	18	12	2 1/8	63	6 1/8	0.750 x 0.406	
<b>24</b> (340 FPM)	14	39	14	9	2 1/8	16	4 1/8	0.750 x 0.406
	16	41	14	9	2 1/8	18	4 1/8	0.750 x 0.406
	18	45	15	10	2 1/8	20	4 1/8	0.750 x 0.406
	20	47	15	10	2 1/8	22	4 1/8	0.750 x 0.406
	24	53	16	11	2 1/8	26	4 1/8	0.750 x 0.406
	30	64	19	13	3 1/16	32	5 1/8	0.875 x 0.469
	36	70	19	13	3 1/16	38	5 1/8	0.875 x 0.469
	42	79	21	14	3 1/16	44	6 1/8	1.000 x 0.531
	48	85	20	14	3 1/16	51	6 1/8	1.000 x 0.531
54	94	22	15	3 1/16	57	7 1/8	1.000 x 0.531	
60	102	23	16	3 1/16	63	7 1/8	1.000 x 0.531	
<b>30</b> (400 FPM)	18	53 1/2	19 1/4	13 1/4	3 1/16	20	6	1.000 x 0.531
	20	57	20 1/2	14 1/2	3 1/16	22	6	1.000 x 0.531
	24	61	20 1/2	14 1/2	4 1/16	26	6	1.000 x 0.531
	30	71	23	16	4 1/16	32	6	1.000 x 0.531
	36	77	23	16	4 1/16	38	6	1.000 x 0.531
	42	87	25 1/2	17 1/2	4 1/8	44	7	1.250 x 0.656
	48	93	24 1/2	17 1/2	4 1/8	51	7	1.250 x 0.656
	54	106	29	20	5 1/16	57	9	1.250 x 0.656
	60	110	28	19	5 1/16	63	9	1.250 x 0.656
<b>36</b> (440 FPM)	18	49 1/2	18 1/4	11 1/4	3 1/8	20	6	1.000 x 0.531
	20	52	18 1/2	11 1/2	3 1/8	22	6	1.000 x 0.531
	24	59	20 1/2	12 1/2	4 1/16	26	6	1.000 x 0.531
	30	65	20 1/2	12 1/2	4 1/16	32	6	1.000 x 0.531
	36	74	22 1/2	13 1/2	4 1/8	38	7	1.250 x 0.656
	42	80	22 1/2	13 1/2	4 1/8	44	7	1.250 x 0.656
	48	91	24 1/2	15 1/2	5 1/16	51	9	1.250 x 0.656
	54	99	26 1/2	15 1/2	6	57	11	1.500 x 0.781
	60	111	30 1/2	17 1/2	7	63	13	1.750 x 0.656

## METRIC AIP SHAFT DIMENSIONS

**SPECIFICATIONS 規格**  
 Metric System (公製)


Standard Shaft Dimensions

**Special Shaft Sizes**  
 Available Upon Request

Pulley Diameter mm (Belt Speed)	Belt Width	A	B	C	D	E	F	Keyway
203mm (43 MTR P.M.)	203	635	229	152	36.5	254	73	9.53 x 5.38
	254	686	229	152	36.5	305	73	9.53 x 5.38
	305	737	229	152	36.5	356	73	9.53 x 5.38
	356	787	229	152	36.5	406	73	9.53 x 5.38
	406	838	229	152	36.5	457	73	9.53 x 5.38
	457	889	229	152	36.5	508	73	9.53 x 5.38
	508	940	229	152	36.5	559	73	9.53 x 5.38
	610	1041	229	152	36.5	660	73	9.53 x 5.38
	762	1194	229	152	36.5	813	73	9.53 x 5.38
914	1346	229	152	36.5	965	73	9.53 x 5.38	
305mm (64 MTR P.M.)	305	864	305	203	49.2	356	98	12.70 x 7.14
	356	914	305	203	49.2	406	98	12.70 x 7.14
	406	965	305	203	49.2	457	98	12.70 x 7.14
	457	1016	305	203	49.2	508	98	12.70 x 7.14
	508	1118	330	229	49.2	559	98	12.70 x 7.14
	610	1219	330	229	49.2	660	98	12.70 x 7.14
	762	1397	356	229	49.2	813	98	12.70 x 7.14
	914	1549	356	229	49.2	965	98	12.70 x 7.14
	1067	1753	381	254	49.2	1118	98	12.70 x 7.14
1219	1905	356	254	49.2	1295	98	12.70 x 7.14	
381mm (73 MTR P.M.)	305	864	305	203	61.9	356	98	15.88 x 8.74
	356	914	305	203	61.9	406	98	15.88 x 8.74
	406	1041	356	229	61.9	457	124	15.88 x 8.74
	457	1092	356	229	61.9	508	124	15.88 x 8.74
	508	1194	381	254	61.9	559	124	15.88 x 8.74
	610	1346	406	279	61.9	660	124	15.88 x 8.74
	762	1524	432	279	61.9	813	149	15.88 x 8.74
	914	1676	432	279	61.9	965	149	15.88 x 8.74
	1067	1880	457	305	61.9	1118	149	15.88 x 8.74
1219	2032	432	305	61.9	1295	149	15.88 x 8.74	
457mm (82 MTR P.M.)	305	940	356	229	61.9	356	124	15.88 x 8.74
	356	991	356	229	61.9	406	124	15.88 x 8.74
	406	1041	356	229	61.9	457	124	15.88 x 8.74
	457	1092	356	229	61.9	508	124	15.88 x 8.74
	508	1194	381	254	74.6	559	124	19.05 x 10.31
	610	1346	406	279	74.6	660	124	19.05 x 10.31
	762	1524	432	279	74.6	813	149	19.05 x 10.31
	914	1676	432	279	74.6	965	149	19.05 x 10.31
	1067	1880	457	305	74.6	1118	149	19.05 x 10.31
1219	2032	432	305	74.6	1295	149	19.05 x 10.31	
508mm (91 MTR P.M.)	356	991	356	229	74.6	406	124	19.05 x 10.31
	406	1041	356	229	74.6	457	124	19.05 x 10.31
	457	1143	381	254	74.6	508	124	19.05 x 10.31
	508	1194	381	254	74.6	559	124	19.05 x 10.31
	610	1346	406	279	74.6	660	124	19.05 x 10.31
	762	1524	432	279	74.6	813	149	19.05 x 10.31
	914	1676	432	279	74.6	965	149	19.05 x 10.31
	1067	1880	457	305	74.6	1118	149	19.05 x 10.31
	1219	2032	432	305	74.6	1295	149	19.05 x 10.31
610mm (104 MTR P.M.)	356	991	356	229	74.6	406	124	19.05 x 10.31
	406	1041	356	229	74.6	457	124	19.05 x 10.31
	457	1143	381	254	74.6	508	124	19.05 x 10.31
	508	1194	381	254	74.6	559	124	19.05 x 10.31
	610	1346	406	279	74.6	660	124	19.05 x 10.31
	762	1626	483	330	87.3	813	149	22.23 x 11.91
	914	1778	483	330	87.3	965	149	22.23 x 11.91
	1067	2007	533	356	100.0	1118	175	25.40 x 13.49
	1219	2159	508	356	100.0	1295	175	25.40 x 13.49
762mm (122 MTR P.M.)	356	991	356	229	74.6	406	124	19.05 x 10.31
	406	1041	356	229	74.6	457	124	19.05 x 10.31
	457	1143	381	254	74.6	508	124	19.05 x 10.31
	508	1194	381	254	74.6	559	124	19.05 x 10.31
	610	1346	406	279	74.6	660	124	19.05 x 10.31
	762	1626	483	330	87.3	813	149	22.23 x 11.91
	914	1778	483	330	87.3	965	149	22.23 x 11.91
	1067	2007	533	356	100.0	1118	175	25.40 x 13.49
	1219	2159	508	356	100.0	1295	175	25.40 x 13.49
914mm (134 MTR P.M.)	457	1257	464	286	100.0	508	152	25.40 x 13.49
	508	1321	470	292	100.0	559	152	25.40 x 13.49
	610	1499	521	318	112.7	660	152	25.40 x 13.49
	762	1651	521	318	112.7	813	152	25.40 x 13.49
	914	1880	572	343	125.4	965	178	31.75 x 16.66
	1067	2032	672	343	125.4	1118	178	31.75 x 16.66
	1219	2311	622	394	138.1	1295	229	31.75 x 16.66
	1372	2515	673	394	152.4	1448	279	38.10 x 19.84
	1524	2819	775	445	177.8	1600	330	44.45 x 16.66

## 電磁式皮帶輪

### **ELECTROMAGNETIC PULLEYS**

Although permanent magnet pulleys have many advantages and are ideal for most applications, there are some situations where an electromagnetic pulley may be desirable. To meet these requirements, Eriez Magnetics offers a complete line of Electro Pulleys. Standard diameters range from 18 to 48-inches (457 to 1219mm) and belt widths from 12 to 60-inches (305 to 1524mm). For special applications, larger sizes can also be provided.

Electro pulleys are used for the toughest iron separation problems involving high speeds, heavy burden depths and hard-to-separate materials. Other applications include the concentration of magnetic materials, the purification of non-magnetics and other separations where a very high strength-to-size ratio is required. They are also used where it is desirable to turn off the magnetic field.

### **Pulley Operation**

The magnetic pulley replaces the head pulley of a belt conveyor, converting the conveyor into a magnetic separator. Material carried on the conveyor belt passes over the magnetic pulley, which holds magnetic particles to the belt until they reach the underside, pass out of the magnetic field and are discharged.

### **Equipment Furnished**

The shaft, collector rings, brush holders with brushes and dust-resistant collector ring housing are furnished with each pulley as standard equipment. Lagging is available as an option.

Only direct current is suitable for energizing electromagnetic pulleys. Standard voltage is 115V DC but other non-standard voltages can be supplied at slight additional cost. Where direct current is not available, suitable rectifiers can be supplied.

### **Shaft**

All shafts are steel and are amply proportioned to handle the required load. Shafts are carefully machined from over-size stock to required finished dimensions.

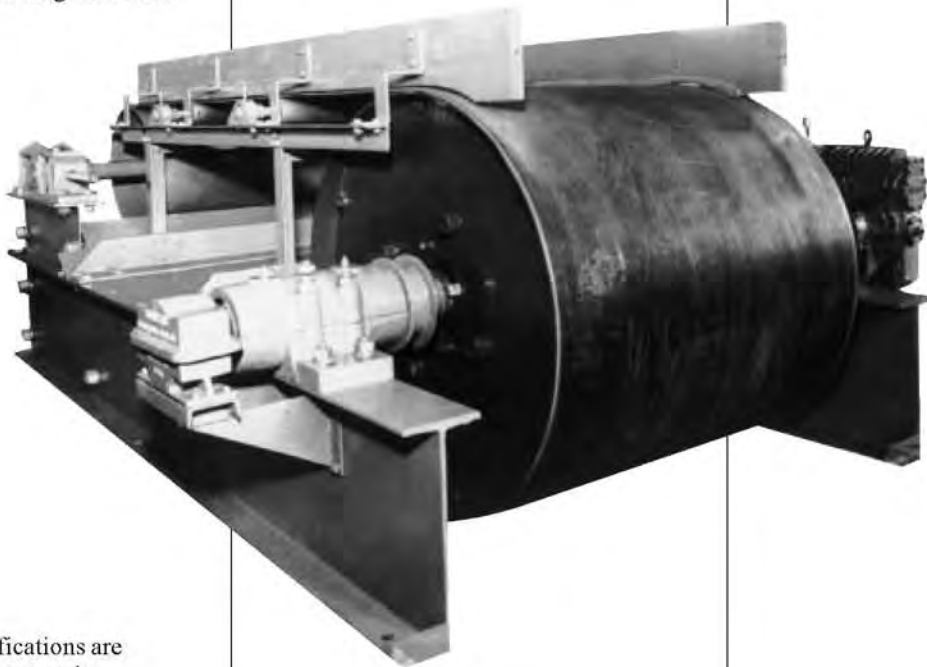
### **Insulation and Coils**

Coils are layer-wound on cores that are designed to prevent movement of the coils. High dielectric insulating materials are used on all metal surfaces adjacent to the coils.

### **Collector Rings and Housing**

Heavy cast bronze rings insulated by bakelite discs are used. Housing is of cast iron with a readily accessible interior.

Large carbon brushes insure positive continuous contact. The housing is equipped with grease- and dust-proof seals to prevent foreign matter from getting in.



Dimensions and specifications are subject to change without notice.