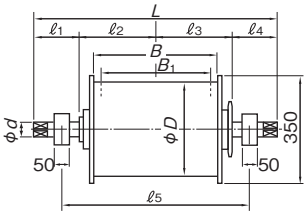
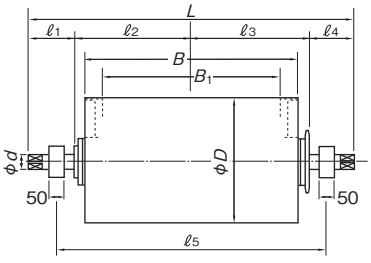
Model KPD PERMANENT MAGNETIC DRUM

KPD-4080B

KPD-3030B–3060B



KPD-4040B–60110B



[Application]

Used for sorting wastes and removing iron from granular materials in mining, ceramic, chemical and food industries.

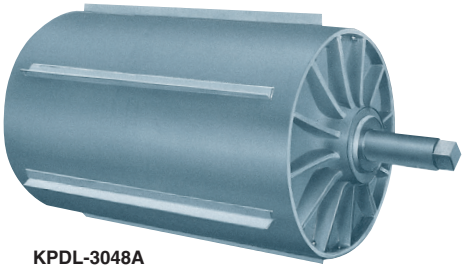
[Features]

- A powerful permanent magnet is used, requiring no power source.
- The outer nonmagnetic drum is rotated to automatically discharge iron.
- The drum shell is made of nonmagnetic stainless steel.
- KPD-HA 180 mT (1800 G), HC 300 mT (3000 G) and HE 500 mT (5000 G) Series are also available.
- In addition to the permanent magnet type, an electromagnet type (KED) is also available.

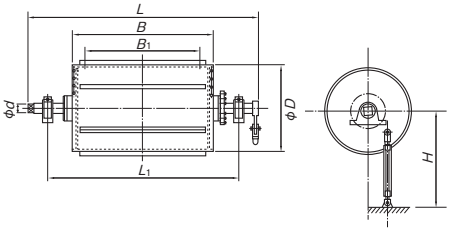
[mm (in)]

Model	Processing Capacity	Dimensions D	B1	B	ℓ2	ℓ3	L	ℓ5	ℓ4	ℓ1	φd	Surface Magnetic Flux Density	Recommended Revolution	Recommended Motor	Mass
KPD- 3030B	25m³ /h	300 (11.8)	268 (10.5)	300 (11.8)	200 (7.87)	225 (8.85)	690 (27.1)	580 (22.8)	120 (4.72)	145 (5.70)	45 (1.77)	100mT (1000G)	30–45rpm	0.4kW	60kg/ 132 lb
KPD- 3040B	35m³ /h		368 (14.4)	400 (15.7)	250 (9.84)	275 (10.8)	790 (31.1)	680 (26.7)							80kg/ 176 lb
KPD- 3050B	45m³ /h		468 (18.4)	500 (19.6)	300 (11.8)	325 (12.8)	890 (35.0)	780 (30.7)							100kg/ 220 lb
KPD- 3060B	55m³ /h		568 (22.3)	600 (23.6)	350 (13.7)	375 (14.7)	990 (38.9)	880 (34.6)							120kg/ 264 lb
KPD- 4040B	45m³ /h	400 (15.7)	330 (12.9)	430 (16.9)	260 (10.2)	292 (11.5)	830 (32.6)	710 (27.9)	123 (4.84)	155 (6.10)	55 (2.16)		25–40rpm		150kg/ 330 lb
KPD- 4050B	60m³ /h		430 (16.9)	530 (20.8)	310 (12.2)	342 (13.4)	930 (36.6)	810 (31.8)							200kg/ 440 lb
KPD- 4065B	75m³ /h		580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	960 (37.8)							250kg/ 551 lb
KPD- 4080B	90m³ /h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1110 (43.7)							215kg/ 474 lb
KPD- 5050B	80m³ /h	500 (19.6)	430 (16.9)	530 (20.8)	310 (12.2)	342 (13.4)	930 (36.6)	810 (31.8)			60 (2.36)		20–35rpm		280kg/ 617 lb
KPD- 5065B	105m³ /h		580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	960 (37.8)							345kg/ 760 lb
KPD- 5080B	125m³ /h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1110 (43.7)						0.75kW	410kg/ 903 lb
KPD- 5095B	150m³ /h		880 (34.6)	980 (38.5)	535 (21.0)	567 (22.3)	1380 (54.3)	1260 (49.6)							335kg/ 738 lb
KPD- 6065B	190m³ /h	600 (23.6)	580 (22.8)	680 (26.7)	385 (15.2)	417 (16.4)	1080 (42.5)	950 (37.4)			65 (2.55)		15–30rpm		410kg/ 903 lb
KPD- 6080B	220m³ /h		730 (28.7)	830 (32.6)	460 (18.1)	492 (19.3)	1230 (48.4)	1100 (43.3)							490kg/1080 lb
KPD- 6095B	240m³ /h		880 (34.6)	980 (38.5)	535 (21.0)	567 (22.3)	1380 (54.3)	1250 (49.2)						1.5kW	570kg/1257 lb
KPD-60110B			1030 (40.5)	1130 (44.4)	610 (24.0)	642 (25.2)	1530 (60.2)	1400 (55.1)							

Model KPDL LARGE PERMANENT MAGNETIC DRUM



KPDL-3048A



[Application]

This model is recommended for removal of large iron pieces and iron lumps from various raw materials as well as from bulky wastes.

[Features]

- The super powerful, large magnet generates a uniform and strong magnetic force.
- The robust construction can withstand impacts by large iron pieces when they are collected.
- Scrapers for complete removal and collection are provided.
- The magnet position adjusting turnbuckle is installed to enable adjustment of the collection position as desired.
- In addition to the permanent magnet type, an electromagnet type (KEDL) is also available.

[mm (in)]

Model	Processing Capacity, (Magnetized substance × 75%)	Dimensions B1	B	L1	L	D	φd	H	Surface Magnetic Flux Density	Recommended Revolution Over Feed	Under Feed	Recommended Motor	Mass
KPDL-3026A	12–17t/h	460 (18.1)	660 (25.9)	1140 (44.8)	1420 (55.9)	760 (29.9)	100 (3.93)	1190 (46.8)	100mT (1000G)	25–30 rpm	26–35 rpm	1.5kW	700kg/ 1543 lb
KPDL-3048A	20–32t/h	1020 (40.1)	1220 (48.0)	1700 (66.9)	1980 (77.9)								1000kg/ 2205 lb
KPDL-3060A	28–40t/h	1320 (51.9)	1520 (59.8)	2000 (78.7)	2280 (89.7)								1200kg/ 2646 lb
KPDL-3636A	16–24t/h	660 (25.9)	930 (36.6)	1430 (56.3)	1730 (68.1)	930 (36.6)	120 (4.72)	1260 (49.6)		20–25 rpm			1000kg/ 2205 lb
KPDL-3648A	25–36t/h	950 (37.4)	1220 (48.0)	1720 (67.7)	2020 (79.5)								1350kg/ 2976 lb
KPDL-3660A	35–50t/h	1250 (49.2)	1520 (59.8)	2020 (79.5)	2320 (91.3)							2.2kW	1700kg/ 3748 lb
KPDL-3672A	42–60t/h	1550 (61.0)	1820 (71.6)	2320 (91.3)	2620 (103.1)								2000kg/ 4409 lb
KPDL-4260A	40–56t/h	1250 (49.2)	1520 (59.8)	2180 (85.8)	2520 (99.2)	1080 (42.5)						3.7kW	2500kg/ 5512 lb
KPDL-4272A	40–65t/h	1550 (61.0)	1820 (71.6)	2480 (97.6)	2820 (111.0)								3000kg/ 6614 lb

Measurements of magnet attractive force (attraction distance)

[mm (in)]

No.	Test Piece to Attract	Weight (g)	Attraction Distance (mm)
1	12-cm nail	10g/0.02 lb	400 (15.7)
2	Hex bolt M10 × 70	40g/0.09 lb	325 (12.8)
3	Hex bolt M16 × 100	60g/0.13 lb	300 (11.8)
4	Hex bolt M20 × 100	280g/0.61 lb	275 (10.8)
5	Hex nut M20	30g/0.06 lb	150 (5.90)
6	Round bar φ20 × 200	480g/1.06 lb	350 (13.7)
7	Steel plate 25 × 30 × 65	350g/0.87 lb	200 (7.87)
8	Steel plate 6 × 55 × 280	720g/1.59 lb	400 (15.7)
9	Angle 40 × 40 × 350	930g/2.05 lb	400 (15.7)

※Values by KPDL-3660A.