

How it Works: Direct Drive Feeders & Conveyors

Drive mechanism: The utilisation of contra-rotating electromechanical motors imparts both an upward & forward stroke to the main feeder body. The angle of the motors determines the preference towards either lift or conveying. The stroke can be adjusted from zero to around 10mm in most cases.

Isolation mounts: Rosta mechanical, standard barrel type mounts can be used for all foot mounted requirements. For suspension design isolation rods & rubber mounts are provided along with safety straps.

Hopper interface: For hopper bottom installations Rotex can provide either an open type or fully enclosed type interface with or without a rod gate isolation system.

Screens: Screens are usually of a hook strip design with manual tensioning or of a taper slot finger design in the form of removable modular baskets. Typical media designs include - square aperture & slotted aperture mesh. Rod decks, taper finger decks, piano wire, perforated plate.



▲ Direct Drive Feeder

- Fully isolated design
- Suspended or floor mounted
- Continuous one piece tray sections
- Twin vibrator drive

Specification: Direct Drive Screeners, Feeders & Conveyors

Construction: All machines are available in either mild or stainless steel construction. Liners are available in most materials such as - Mild steel, Stainless, UHMWP, Abro, Hardox, Alumina, Ceramic.

Sizes: Sizes range from 200mm - 2m wide & from 0.5m to over 6m long.

Drives: The drives are from an electromechanical range with adjustable weights for accurate tuning. Voltages & IP requirements can be offered to suit most applications.

Enclosures: Covers can be offered with either bolted or quick release mechanisms. Fully enclosed systems use Trelleborg type seals & enclosed shrouds.

Hopper interface: For hopper bottom installations Rotex can provide either an open type or fully enclosed type interface with or without a rod gate isolation system.

Screens: Typical media designs include - square aperture & slotted aperture mesh. Rod decks, taper finger decks, piano wire, perforated plate.

Satisfy Light to Heavy Duty Applications in a Cost-Effective Way

Rotex Europe has designed a full range of Direct Drive® Feeders and Conveyors for meeting all process requirements in the bulk handling industries.

The Direct Drive Product Range is designed for screening, feeding and conveying your product in a cost effective way.



▲ Direct Drive Screener

Direct Drive Feeders and Conveyors are designed and built to meet your requirements:

- The utilisation of contra-rotating electromechanical motors imparts both an upward & forward stroke to the main feeder body. The angle of the motors determines the preference towards either lift or conveying.
- Various installation options include Rosta, Barrel or Suspension style mounts. Safety straps are fitted where relevant.
- Rotex can provide either an open type or fully enclosed type interface with or without a rod gate isolation system for hopper bottom installations.

FREE MATERIAL ANALYSIS

Over 100 years of proven correlation between lab test results and actual field performance:

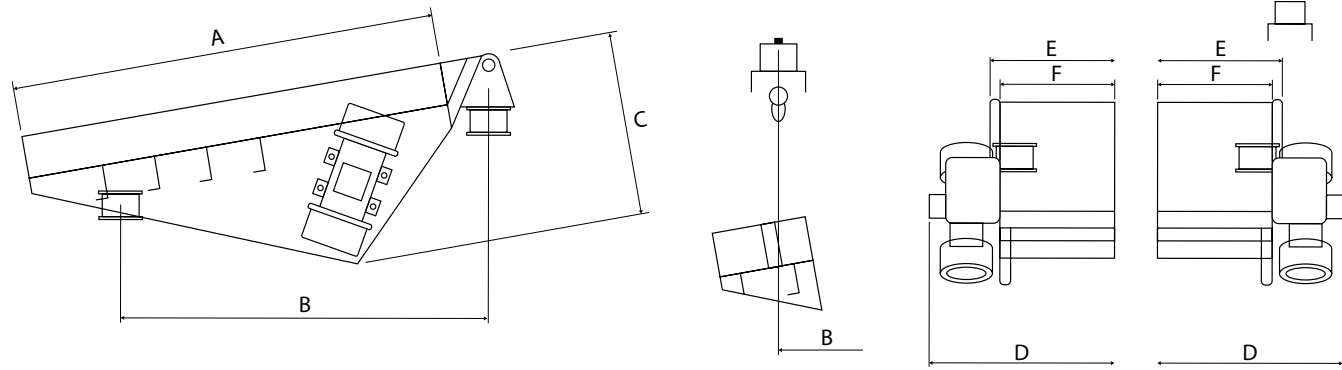
- Experienced Lab Technicians and Application Engineers recommend machine size, settings and screen openings to ensure accurate, efficient separations
- Comprehensive separation analysis
- Summary report provides data to support ROI decisions

“Rotex Direct Drive feeders have a reputation for reliability and simplicity. The use of Rosta mounts significantly improves machine stability during start/stop conditions.”

Production Manager - Phosphatic Fertilizer Processor

➤ Direct Drives are suitable for most processing plants

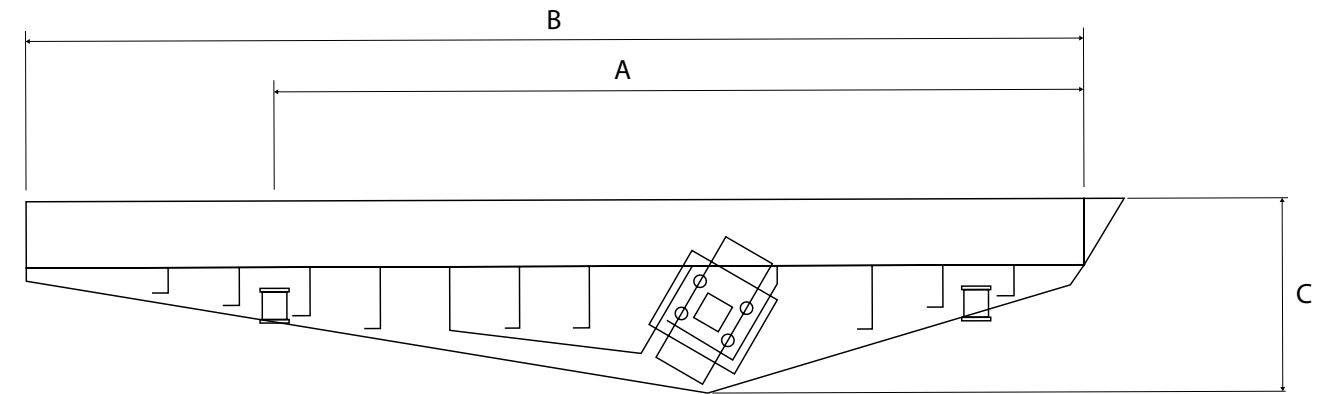




Model Reference Number	CAP TPH	Non Power KW	Weight		Principal Dimensions											
					A		B		C		D		E		F	
			lb	kg	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Medium Duty																
LDDF 400-1000 M	95	2 x 0.5	522	237	39	1000	34	850	21	520	38	950	20	512	16	400
LDDF 500-1000 M	120	2 x 0.5	540	245	39	1000	34	850	21	520	41	1050	24	612	20	500
LDDF 600-1000 M	140	2 x 0.5	573	260	39	1000	34	850	21	520	45	1150	28	712	24	600
LDDF 400-1500 M	155	2 x 0.5	590	268	59	1500	51	1300	22	570	37	950	20	512	16	400
LDDF 500-1500 M	190	2 x 0.5	690	313	59	1500	51	1300	22	570	41	1050	24	612	20	500
LDDF 600-1500 M	230	2 x 0.9	914	415	59	1500	51	1300	22	570	49	1226	28	712	24	600
LDDF 800-1500 M	305	2 x 0.9	1113	505	59	1500	51	1300	23	600	56	1426	36	912	32	800
LDDF 1000-1500 M	385	2 x 1.3	1417	643	59	1500	51	1300	26	650	69	1750	44	1112	40	1000
LDDF 1200-1500 M	460	2 x 1.3	1664	755	59	1500	51	1300	28	700	76	1950	52	1312	47	1200
LDDF 400-2000 M	215	2 x 0.9	881	400	79	2000	69	1750	24	600	40	1026	20	512	16	400
LDDF 500-2000 M	265	2 x 0.9	914	415	79	2000	69	1750	24	600	44	1126	24	612	20	500
LDDF 600-2000 M	320	2 x 0.9	1014	460	79	2000	69	1750	24	600	48	1226	28	712	24	600
LDDF 800-2000 M	425	2 x 1.3	1433	650	79	2000	69	1750	28	650	61	1550	36	912	32	800
LDDF 1000-2000 M	530	2 x 2.3	1951	885	79	2000	69	1750	28	700	70	1780	44	1112	40	1000
LDDF 1200-2000 M	640	2 x 2.3	2266	1028	79	2000	69	1750	28	700	78	1980	52	1312	47	1200
LDDF 1600-2000 M	850	2 x 4.0	2689	1220	79	2000	69	1750	28	700	98	2488	67	1712	63	1600
LDDF 400-2500 M	285	2 x 1.3	1119	508	98	2500	89	2250	24	600	45	1150	20	512	16	400
LDDF 500-2500 M	355	2 x 1.3	1186	538	98	2500	89	2250	24	600	50	1250	24	612	20	500
LDDF 600-2500 M	425	2 x 1.3	1234	560	98	2500	89	2250	24	600	53	1350	28	712	24	600
LDDF 800-2500 M	565	2 x 2.3	1984	900	98	2500	89	2250	28	700	62	1580	36	912	32	800
LDDF 1000-2500 M	710	2 x 2.3	2182	990	98	2500	89	2250	28	700	70	1780	44	1112	40	1000
LDDF 1200-2500 M	850	2 x 4.0	2788	1265	98	2500	89	2250	28	700	82	2088	52	1312	47	1200
LDDF 1600-2500 M	1135	2 x 4.0	2998	1360	98	2500	89	2250	28	700	98	2488	67	1712	63	1600
Heavy Duty																
LDDF 800-1500 H	305	2 x 1.3	1336	606	59	1500	51	1300	27	700	61	1550	36	912	32	800
LDDF 1000-1500 H	385	2 x 1.3	1466	665	59	1500	51	1300	27	700	69	1750	44	1112	40	1000
LDDF 1200-1500 H	460	2 x 1.3	1598	725	59	1500	51	1300	27	700	76	1950	52	1312	47	1200
LDDF 800-2000 H	425	2 x 1.3	1501	681	79	2000	69	1750	27	700	61	1550	36	912	32	800
LDDF 1000-2000 H	530	2 x 2.3	1922	872	79	2000	69	1750	27	700	70	1780	44	1112	40	1000
LDDF 1200-2000 H	640	2 x 2.3	2303	1045	79	2000	69	1750	35	900	78	1980	52	1312	47	1200
LDDF 1600-2000 H	850	2 x 4.0	2907	1319	79	2000	69	1750	37	950	98	2488	67	1712	63	1600
LDDF 800-2500 H	565	2 x 2.3	1973	895	98	2500	89	2250	27	700	62	1580	36	912	32	800
LDDF 1000-2500 H	710	2 x 4.0	2473	1122	98	2500	89	2250	27	700	74	1888	44	1112	40	1000
LDDF 1200-2500 H	850	2 x 4.0	2821	1280	98	2500	89	2250	35	900	82	2088	52	1312	47	1200
LDDF 1600-2500 H	1135	2 x 4.0	3251	1475	98	2500	89	2250	37	950	98	2488	67	1712	63	1600
LDDF 2000-2500 H	1415	2 x 6.2	4369	1982	98	2500	89	2250	37	950	118	3008	83	2112	78	2000
LDDF 2500-2500 H	1770	2 x 9.75	6631	3008	98	2500	89	2250	39	1000	138	3508	102	2612	98	2500
LDDF 2000-3000 H	1770	2 x 9.75	6219	2821	118	3000	108	2750	39	1000	118	3008	83	2112	78	2000
LDDF 2500-3000 H	2200	2 x 9.75	7403	3358	118	3000	108	2750	39	1000	138	3508	102	2612	98	2500

Dimensions given are approximate and should not be used for construction purposes. The maximum capacities quoted are based on a typical free-flowing material of reasonable size distribution, with a bulk cu mtr. density of 1600kg. The data and dimensions relating to the vibrator motors can be subject to change on examination of actual application requirements.

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Model Reference Number	CAP TPH	Non Power KW	Weight		Principal Dimensions											
					A		B		C		D		E		F	
			lb	kg	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Medium Duty																
LDDC 400-3000 M	40	2 x 0.5	954	433	90	2300	118	3000	25	650	37	950	20	508	16	400
LDDC 500-3000 M	50	2 x 0.9	1311	595	90	2300	118	3000	29	750	44	1126	23	608	20	500
LDDC 600-3000 M	65	2 x 0.9	1428	648	90	2300	118	3000	29	750	48	1226	26	708	24	600
LDDC 800-3000 M	85	2 x 0.9	1708	775	90	2300	118	3000	29	750	56	1426	35	908	31	800
LDDC 1000-3000 M	105	2 x 1.3	2193	995	90	2300	118	3000	31	800	68	1750	43	1108	40	1000
LDDC 1200-3000 M	125	2 x 1.3	2491	1130	90	2300	118	3000	31	800	76	1950	51	1308	47	1200
LDDC 400-4000 M	40	2 x 0.9	1377	625	118	3000	157	4000	29	750	40	1026	20	508	16	400
LDDC 500-4000 M	50	2 x 0.9	1543	700	118	3000	157	4000	29	750	44	1126	23	608	20	500
LDDC 600-4000 M	65	2 x 0.9	1774	805	118	3000	157	4000	29	750	48	1226	26	708	24	600
LDDC 800-4000 M	85	2 x 1.3	2259	1025	118	3000	157	4000	31	800	61	1550	35	908	31	800
LDDC 1000-4000 M	105	2 x 1.3	2616	1187	118	3000	157	4000	31	800	68	1750	43	1108	40	1000
LDDC 1200-4000 M	125	2 x 2.3	3317	1505	118	3000	157	4000	31	800	78	1980	51	1308	47	1200
LDDC 400-5000 M	40	2 x 0.9	1642	745	141	3600	196	5000	31	800	40	1026	20	508	16	400
LDDC 500-5000 M	50	2 x 0.9	1873	850	141	3600	196	5000	33	850	44	1126	23	608	20	500
LDDC 600-5000 M	65	2 x 1.3	2193	995	141	3600	196	5000	33	850	53	1350	26	708	24	600
LDDC 800-5000 M	85	2 x 1.3	2694	1202	141	3600	196	5000	33	850	61	1550	35	908	31	800
LDDC 1000-5000 M	105	2 x 2.3	3531	1602	141	3600	196	5000	39	1000	70	1780	43	1108	40	1000
LDDC 1200-5000 M	125	2 x 2.3	3796	1722	141	3600	196	5000	39	1000	78	1980	51	1308	47	1200

Dimensions given are approximate and should not be used for construction purposes. The maximum capacities quoted are based on a typical free-flowing material of reasonable size distribution, with a bulk cu mtr. density of 1600kg. The data and dimensions relating to the vibrator motors can be subject to change on examination of actual application requirements.

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