

When uniform feeding, dust elimination, and trouble-free operation matter!



This *positive displacement feeder*, the first of its kind, is still a striking example of how simplicity of design can yield superior results in performance gains and equipment upkeep.

The genius of the POSIFLOW™ Feeder is centered on the way it takes advantage of the bridges that bulk solid materials tend to form. In most feeder equipment, material bridging causes problems. With the POSIFLOW™ Feeder, controlled bridging – which causes the material to lock up against the outer walls, fill the entire space, and then continuously unlock at the discharge point – is the basis of more uniform, more reliable, and more accurate feeding.

In addition, all these performance attributes are accomplished with only a single moving part which is nearly free of wear in most applications!

Advantages/Capabilities:

- Provides reliably accurate and exceptionally constant feed rates.
- Contains only a single moving part.
- Doesn't produce fugitive dust.
- Handles bulk solid materials with a broad range of bulk densities – as well as mixed loads – whether wet, dry, lumpy, sticky, abrasive, or granular.
- Minimizes feed rate error from varying moisture levels in feed material.
- Reduces plugging and downtime.
- Requires little maintenance: this feeder has no belts and needs almost no attention.
- Offers a level of trouble-free operation unknown with ordinary feeders.
- Handles capacities from 3 to 1800 TPH.
- Requires extremely low horsepower (rotation speeds as low as 1/2 to 15 RPM); very energy efficient because your material provides most of the power.
- Seals against downstream suction or pressure.
- Provides unvarying accuracy – up to 99.5%.
- Replaces rotary, table, weigh feeders, and triple-gates with an incredibly uniform feed rate and always delivers a precise amount of material.
- Improves plant safety because it's dust free.
- Offers an ideal solution for:
 - Coal
 - Culm
 - Biomass
 - Crushed Stone
 - Shale
 - Sand
 - Roofing Granules
 - Limestone
 - Wood Chips
 - Cereal, Grain

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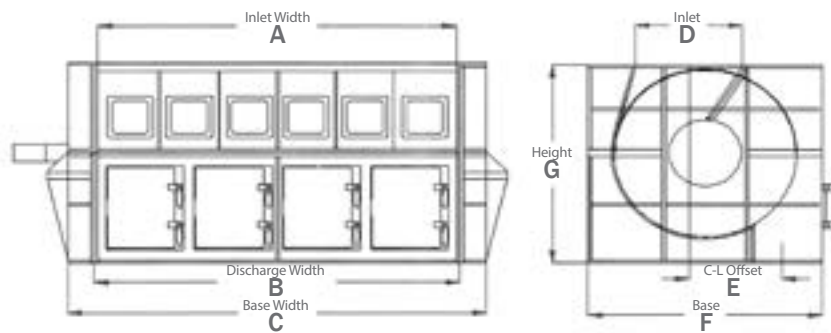

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The Secret of the POSIFLOW™ Feeder's Accurate and Steady Feed Rate

The volume of the material lock-up/transport section between the feed and discharge points (about 180° of arc) is fixed. In effect, this duct section serves as a container of known dimensions even though it is open at each end. Every rotation can only carry a fixed amount of material, regardless of moisture content. This configuration

makes it impossible to feed too little material (less than full section does not permit lock-up) or too much material (the volume is confined by the material lock-up). Another advantage of the lock-up is that it enables the duct walls to gently carry the material with no sliding motion, which reduces wear.

Dimensions and Weights



POSIFLOW™ FEEDERS
APPROXIMATE LAYOUT DIMENSIONS AND SHIPPING WEIGHTS

IN (MM)	A	B	C	D	E	F	G	LBS (KG)
1032								
X-2	20.5" (521)	23.5" (597)	34.3" (871)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	3,100 (1,406)
X-3	31.0" (787)	34.0" (102)	42.8" (1087)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	4,000 (1,814)
X-4	42.5" (1080)	45.5" (1156)	53.0" (1346)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	5,100 (2,313)
X-5	53.0" (1346)	56.0" (1422)	63.5" (1613)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	6,200 (2,812)
X-6	64.5" (1638)	67.5" (1715)	75.0" (1905)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	7,300 (3,311)
X-7	75.0" (1905)	78.0" (1981)	85.5" (2172)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	8,430 (3,824)
X-8	85.5" (2171)	88.5" (2248)	96.0" (0000)	20.8" (528)	19.4" (493)	43.0" (1092)	37.0" (940)	9,600 (4,355)
1240								
X-2	24.8" (630)	28.9" (734)	40.8" (1036)	23.3" (592)	20.3" (516)	51.8" (1316)	48.3" (1227)	5,700 (2,586)
X-3	37.8" (960)	41.8" (1062)	53.3" (1354)	23.3" (592)	20.3" (516)	51.8" (1316)	48.3" (1227)	7,275 (3,300)
X-4	50.7" (1288)	54.6" (1387)	66.1" (1679)	23.3" (592)	20.3" (516)	51.8" (1316)	48.3" (1227)	7,730 (3,506)
X-5	63.5" (1613)	67.0" (1702)	78.5" (1994)	23.3" (592)	20.3" (516)	51.8" (1316)	48.3" (1227)	9,145 (4,148)
X-6	76.4" (1941)	82.1" (2085)	92.0" (2337)	23.3" (592)	20.3" (516)	51.8" (1316)	48.3" (1227)	11,000 (4,990)
1548								
X-3	44.0" (1118)	48.5" (1232)	57.3" (1455)	29.0" (737)	26.1" (663)	61.0" (1549)	55.0" (1397)	7,000 (3,175)
X-4	59.0" (1499)	63.5" (1613)	72.3" (1836)	29.0" (737)	26.1" (663)	61.0" (1549)	55.0" (1397)	8,350 (3,788)
X-5	74.8" (1900)	79.3" (2014)	88.0" (2235)	29.0" (737)	26.1" (663)	61.0" (1549)	55.0" (1397)	12,875 (5,840)
X-6	90.5" (2299)	95.0" (2413)	103.8" (2637)	29.0" (737)	26.1" (663)	61.0" (1549)	55.0" (1397)	16,500 (7,484)
X-7	106.3" (2700)	110.8" (2814)	119.5" (3035)	29.0" (737)	26.1" (663)	61.0" (1549)	55.0" (1397)	19,400 (8,800)
X-8	122.0" (3099)	126.5" (3213)	135.3" (3437)	29.0" (737)	26.1" (663)	61.0" (1549)	55.0" (1397)	22,740 (10,315)
1760								
X-4	69.5" (1765)	75.0" (1905)	96.5" (2451)	36.8" (935)	29.8" (757)	78.8" (2002)	76.8" (1951)	21,760 (9,870)
X-5	87.3" (2217)	92.8" (2357)	114.3" (2903)	36.8" (935)	29.8" (757)	78.8" (2002)	76.8" (1951)	24,600 (11,158)
X-6	105.0" (2667)	110.5" (2807)	132.0" (3353)	36.8" (935)	29.8" (757)	78.8" (2002)	76.8" (1951)	27,200 (12,338)
X-7	122.8" (3119)	128.3" (3259)	149.8" (3805)	36.8" (935)	29.8" (757)	78.8" (2002)	76.8" (1951)	32,600 (14,787)

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