




*A global leader in agitation agglomeration technology —
the conversion of fine powders and dusts
into spherical pellets.*

Disc Pelletizer

The Mars Mineral Disc Pelletizer is an adjustable pan device utilized in micro-pelletizing, pelletizing and conditioning applications in which a shallow pan and a smaller retained burden are desired. It can be used to pelletize materials such as taconites, copper, nickel, lead and zinc concentrates. Other applications include pelletizing of reclaimed sludge, moist filter cakes, coal, flue dusts, limestone, fertilizers and ores.

Disc Pelletizer	Used as Pelletizer	Used as Mixer	End Product		Capacity
			Size	Shape	
	Yes	No	0.03 - 1.5 in. dia. 0.85 - 3.8 mm	Spherical	19 - 3500 ft ³ /hr 0.54 - 99.1 m ³ /hr

The Mars Mineral Disc Pelletizer consists of a pan, rocker deck, plow support with plows, spray system and dust cover which are supported on a heavy structural frame and base.

The pan is driven by heavy-duty gear reducer that is mounted directly on the output shaft.

Changes in pan rotational speed can be made through an optional control panel with a VFD. The pan angle is adjustable within a range of 20 degrees to suit various pelletizing conditions and applications.

The Mars Mineral Disc Pelletizer is equipped with a binder spray system which includes piping, tubing, nozzles, pressure gauges, valves, pressure regulator and strainer. For extremely dusty or toxic applications, Mars Mineral will also provide a discharge chute and a dust cover as optional items.

This unit is a front feeding device. Various feeders are used in conjunction with it to accommodate a range of materials and accuracies. Selection may be made from volumetric screw feeders, belt or table feeders and gravimetric weigh belt feeders.



Mars Mineral's Disc Pelletizer is equipped with binder-spray system for use in micro-pelletizing, pelletizing or conditioning of a wide range of materials.



Disc Pelletizer Specifications

Model	Diameter	Depth	Capacity (ft ³ /hr)	Capacity (m ³ /hr)	HP	Length	Width	Height	Weight (lb)
P-30	3'	8"	19	0.54	1	4'-6"	4'-0"	4'-0"	1,100
P-45	4.5'	9"	62	1.75	3	4'-9"	6'-1"	6'-3"	1,900
P-60	6'	10"	112	3.17	5	6'-7"	7'-5"	7'-11"	4,000
P-80	8'	1'-1"	250	7.1	15	8'-8"	9'-5"	10'-0"	12,000
P-100	10'	1'-31/2"	375	10.6	25	11'-9"	12'-4"	12'-3"	16,000
P-120	12'	1'-6"	625	17.7	40	13'-2"	15'-0"	14'-8"	28,000
P-140	14'	1'-8"	925	26.2	60	15'-1"	17'-0"	16'-6"	34,000
P-160	16'	1'-10"	1400	39.6	75	17'-2"	19'-0"	17'-7"	38,000
P-180	18'	2'-0"	1875	53.1	100	19'-0"	21'-0"	20'-4"	50,000
P-200	20'	2'-2"	2500	70.8	125	21'-8"	24'-7"	24'-3"	70,000
P-220	22'	2'-4"	3125	88.4	150	22'-7"	26'-7"	26'-11"	80,000
P-250	25'	2'-8"	3500	99.1	200	24'-10"	29'-7"	27'-6"	95,000

CAPACITY BASED UPON FREE FLOWING MATERIAL. SPECIFICATIONS AND DIMENSIONS ARE FOR GENERAL USE ONLY.

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