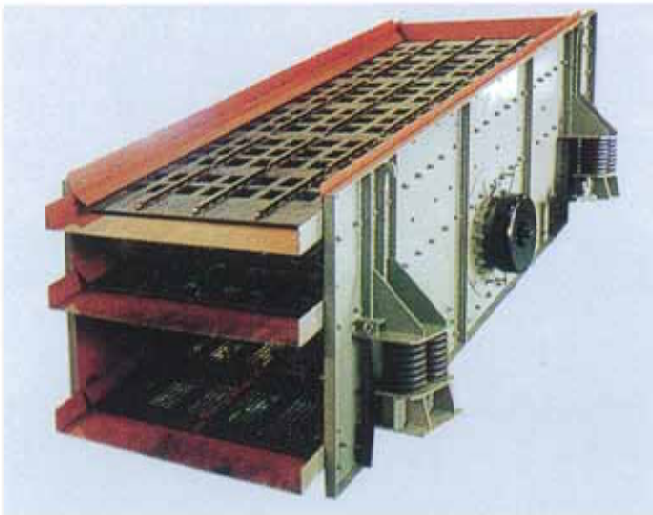


4

CLASSIFYING, PRECIPITATING, AND FILTERING

Vibrating Screen

The vibrating screen applies a circular vibration to the screen face having an inclination of 15 to 20 degrees to screen materials. The screen mesh ranges from tens of mm to about 5 mm. A heavy-duty scalping screen with 100 to 150 mm mesh that is capable of processing materials containing lumps as large as hundreds of mm is available. The buffer is available in two types—the spring type and the air spring type.



Mechanical Air Separator



The mechanical air separator is a dry-type classifier which disperses the feed powder in an air current that spirals upward by the centrifugal force of a revolving disk to separate the feed into coarse particles and fine particles by the dispersing effect of the centrifugal force and the inertia force of revolving vanes. The separator has a built-in fan, and the air current circulates inside the separator. This type of separator has a simple construction and is suitable for processing large volumes of powdery materials.

Model	Drum size mm	Vertical shaft Rotational speed rpm	Motor kW
OA-800	800	600~850	2.2
OA-1200	1200	460~680	3.7
OA-1500	1500	380~560	5.5
OA-1800	1800	300~450	7.5
OA-2100	2100	260~380	7.5
OA-2400	2400	230~330	15
OA-3000	3000	190~270	22
OA-3600	3600	140~210	30
OA-4200	4200	130~180	37
OA-4800	4800	115~170	55
OA-5400	5400	100~150	75

Spiral Classifier



The spiral classifier is a wet-type classifier which classifies the feed by precipitating it in a horizontal current of water in a tank which has an inclined bottom. Fine particles overflow from one end of the tank, whereas coarse particles precipitate to the tank bottom, from where they are scraped up to the water surface by a slowly turning screw and let out of the separator.

Model	Spiral diameter mm	Tank width mm		Machine length mm	Bottom inclination	Spiral speed rpm	Motor kW	
		Singles type	Dual type				Singles type	Dual type
OS-500	500	580	—	3100~5100	25/100~33/100	8~17	1.5	—
OS-800	800	690	1300	3800~5900	25/100~33/100	8~16	2.2	3.7
OS-750	750	860	1680	4500~6500	25/100~33/100	8~13	2.2	3.7
OS-900	900	1000	1900	5900~8200	25/100~33/100	6~11	2.2~3.7	3.7~5.5
OS-1050	1050	1200	2320	6200~8900	25/100~33/100	4.5~8	3.7~5.5	5.5~7.5
OS-1200	1200	1340	2600	7100~9900	25/100~33/100	4~8	3.7~5.5	5.5~7.5
OS-1350	1350	1520	2950	7100~9900	25/100~33/100	3.5~7	3.7~7.5	7.5~11
OS-1500	1500	1650	3200	8800~11200	25/100~33/100	3~8	5.5~7.5	11~15
OS-1800	1800	2000	3900	10700~13700	25/100~33/100	3~5	7.5~11	15~22
OS-2100	2100	2300	4500	13200~18200	25/100~33/100	3~5	11~15	22~30
OS-2400	2400	2600	5100	13600~17200	25/100~33/100	2.5~5	15~22	37~45