

LOW-PROFILE SEPARATOR – LPS SERIES

GMX LOW-PROFILE SEPARATOR (LPS)

The LPS Series is engineered for high-capacity scalping of powders and sometimes liquids. Its compact, centrally aligned inlet and outlet design facilitates easier installation, streamlined equipment layout, and retrofits to existing processes.



LPS Series

FEATURES

High Throughput

Material is fed through the top central inlet, while fine particles are discharged in a near free-fall motion through the aligned central outlet. This design enables exceptionally high throughput, particularly effective for scalping applications.

Less Blinding

The LPS Series is equipped with anti-blinding devices, including bouncing balls or ultrasonic systems, to prevent screen blinding and ensure optimal screening efficiency.

Flexible installation

The adoption of a compact, low-profile structure with low headroom requirements and centrally aligned inlet and outlet allows it to integrate seamlessly into existing production lines without extensive modifications.

Low Foundation Loads

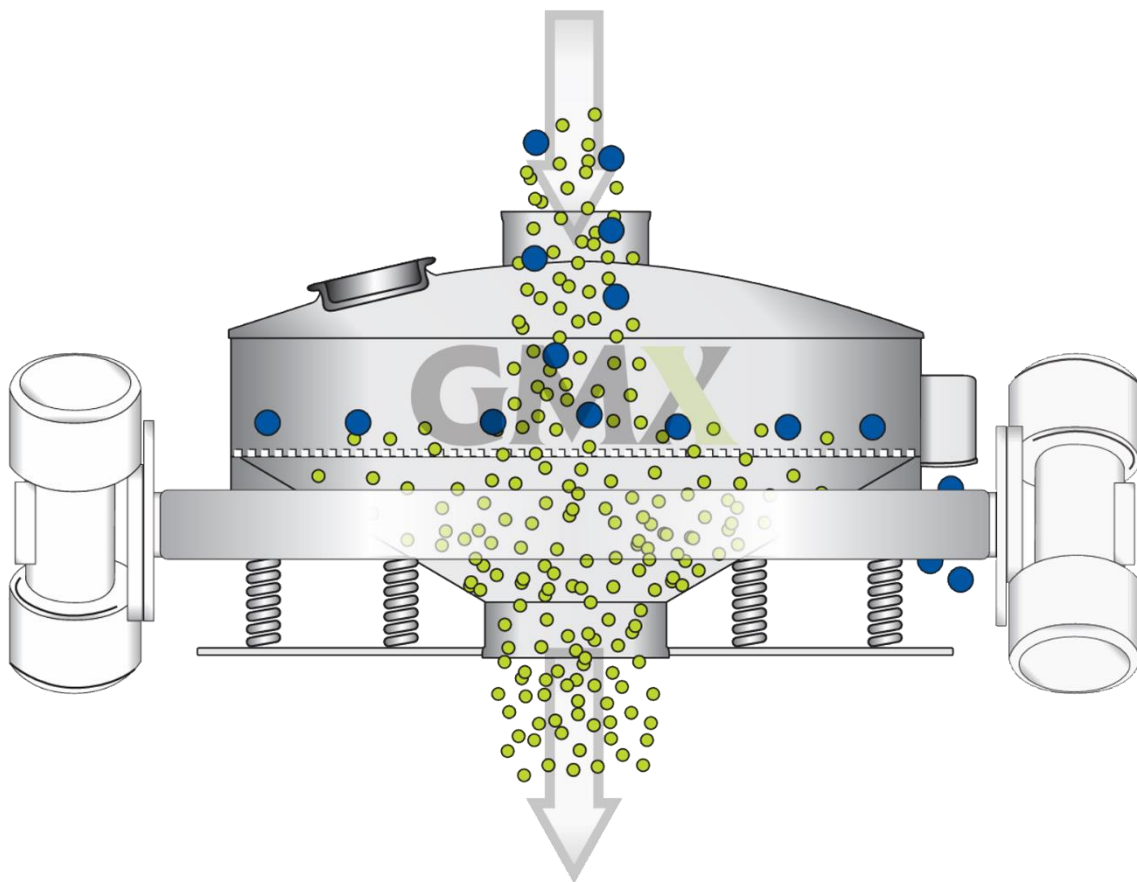
The LPS Series features a base frame with low-noise coil springs for vibration insulation, minimizing load and impact on its foundation.

3-D Motion

The LPS Series is equipped with dual vibrator motors mounted laterally on opposite sides, inclined towards each other. This configuration generates a 3-D motion that is nearly vertical at the center of the machine, with a transport action along the periphery.

Consequently, fine particles drop through the center almost in free fall, while small quantities of oversized particles are discharged via the side outlet.

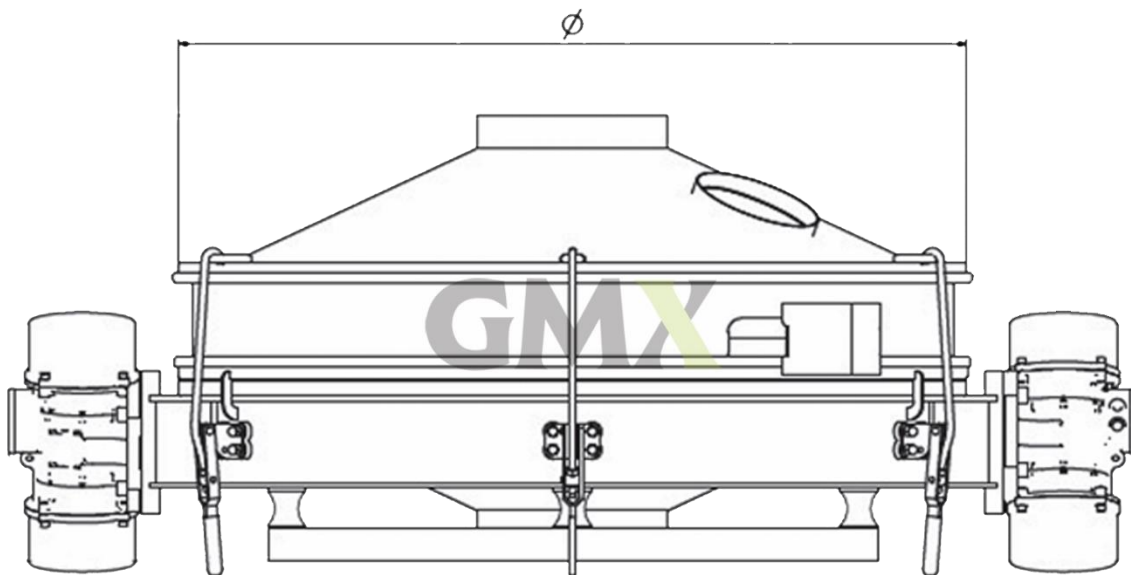
The motors' intensity and inclination can be adjusted to accommodate various products.



Datasheet

Mesh opening	2-50 mesh
Max capacity	20 t/h
Operating speed	1500 / 1800 rpm (at 50Hz / 60Hz)
Materials	304/316L Stainless steel; Carbon steel; Rubber materials FDA compliant
Surface options	Powder coating; Polishing; Bead blasting; Other specialized coating applied to material contact surfaces
Anti-blinding devices	Bouncing balls; Cleaning rings; Ultrasonic cleaning devices; Combination

Dimensions



Types		LPS 600	LPS 800	LPS 1000	LPS 1200	LPS 1500
Diameter Φ	mm	600	800	1,000	1,200	1,500
Mesh surface	m ²	0.22	0.4	0.65	0.95	1.5
Engine performance	kW	2 × 0.06	2 × 0.08	2 × 0.25	2 × 0.4	2 × 0.4
Weight	kg	120	150	180	220	460