

PLOUGH SHARE MIXER

In the horizontally disposed cylindrical mixing drum, the tools arranged in the staggered order rotate on the shaft.

The mixing tools are arranged in the staggered order and rotate on the strong horizontal shaft mounted in cylindrical mixing drum. The shape and arrangement of the mixing tools, force the mixed material to falls away from the drum walls and cause intense mixing. The circumferential velocity of the mixing tools is designed in such a way, that the mixed material forms a vortex layer, whereby an optimal turbulence for the mixing process is created.

With an adjustable gate in front of the discharge orifice, the holding time of the mixed material can be regulated.

For the crushing of agglomerates and lumps, the mixing unit can be equipped additionally with cutter heads arranged laterally on the drum wall.

PURATEK plough share mixers can be used for batchwise mixing of:

- dry solid material
- granulate material
- paste-like material
- powdery material
- sludge with solids (conditioning)

Therefore the plough share mixers areas of application are as follows:

- disposal industry
- sewage treatment plants
- building materials industry
- chemical industry
- environment engineering

Main features:

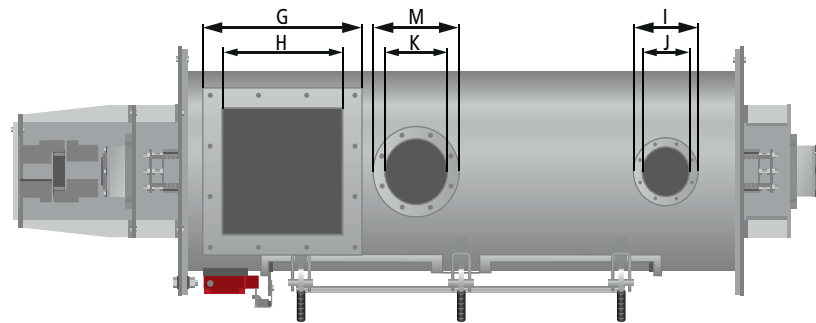
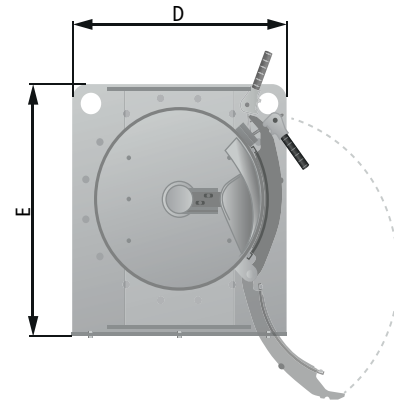
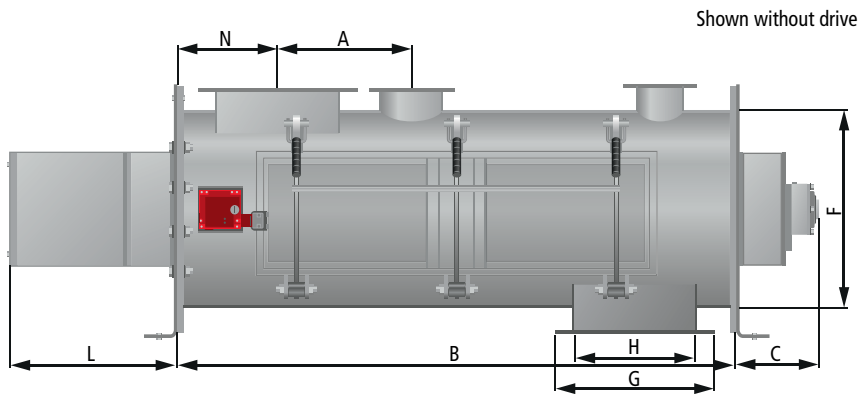
- Highest mixing qualities with short mixing times
- Simple, compact and robust design
- High operational reliability and long service life
- Easy-to-clean mixing chamber and small installation dimensions

The mixer inlet and outlet openings have rectangular flanges. The addition of the conditioning agent takes place in a round inlet pipe with flange. Gases are extracted through additional pipe connection.



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Technical data and principal dimensions



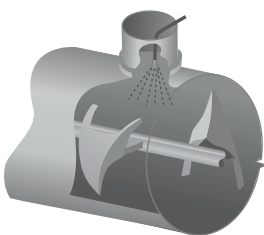
Standard materials for main parts:

- Steel painted
- stainless steel pickled and passivated (material no. 1.4301 or 1.4571)
- other materials on request

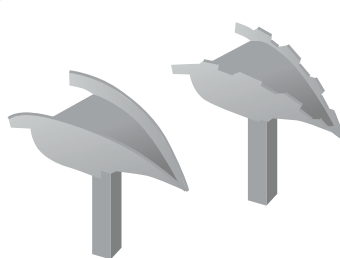
Powerful motors with variable speed gears are used as drives, and the power is transmitted by means of a claw coupling in a closed housing.

TYPE	Throughput capacity in m ³ /h	Drive approx. KW	Drum capacity in l	A	B	C	D	E	F	G	H	I	J	K	L	M	N
PSM 150	up to 5	4	162	320	1250	200	485	480	400	361	275	114,3	220	168	450	228	260
PSM 300	up to 10	5,5	303	360	1500	220	640	665	500	433	325	114,3	220	168	450	228	300
PSM 600	up to 20	9,2	610	380	2100	250	770	800	630	483	375	114,3	220	168	450	228	325
PSM 1200	up to 30	22	1190	430	2300	265	1010	1060	790	535	425	168,3	285	219	600	278	365
PSM 2400	up to 50	30	2398	490	2960	290	1210	1290	950	655	525	168,3	285	219	600	278	425

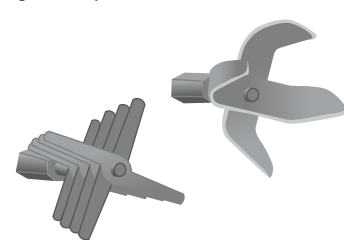
Fluid injector



Plough share tool



Milling head (optional)



All dimensions in mm / subject to change without notice / special dimensions and design on request