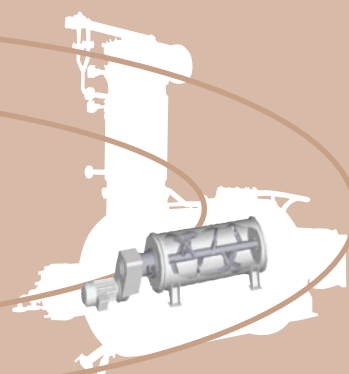




**Horizontal
Mixer for Solids HSM
Dryer for Solids HST**



HSM HST



Horizontal Mixer for Solids HSM, Horizontal D



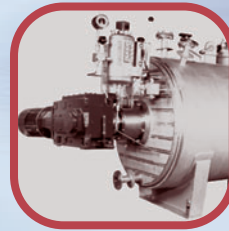
1



2



3



4



5

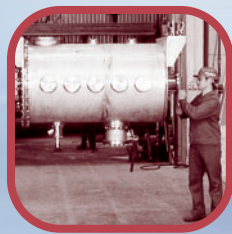
Design features:

- 1 Versatile process equipment for products with widely varying physical properties
- 2 Highly effective paddle agitator for minimum blend times and high degrees of homogeneity
- 3 Close clearances between agitator and vessel wall prevent product building up and reducing heat transfer
- 4 Standardized agitator drives ensure reliable operation and low maintenance costs
- 5 Appropriate shaft seal systems for every application. Installing the shaft seal away from the product enables the tried-and-tested EKATO standard agitator seals to be used
- 6 Large heat transfer surfaces provided by vessel geometry, as option also by agitator, making high evaporation rates possible
- 7 Various processes (blending, drying, reactions) can be carried out in one equipment item
- 8 Product fines are separated from the offgas in the vacuum dust filter. EKATO offers bag filters with coated surfaces or metallic filter cartridges. The fines drop back into the vessel when the filter cake is loosened
- 9 Chopper tools prevent lumps forming
- 10 EKATO offers package drying systems complete with heater, solvent recovery unit and control system, all from a single source

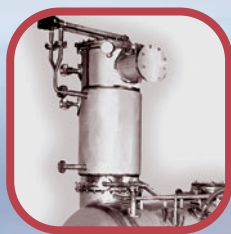
Dryer for Solids HST



6



7



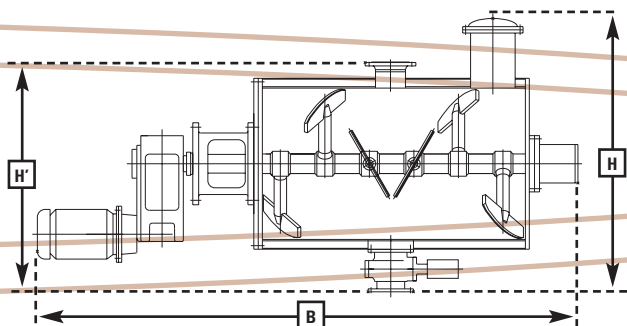
8



9



10



TYPE		EFF. VOLUME (l)	HEIGHT H (mm)	HEIGHT H' (mm)	WIDTH B (mm)	WEIGHT (kg)
HST/HSM	100	80	1900	850	1900	500
HST/HSM	250	190	2000	1000	2100	700
HST/HSM	315	235	2100	1100	2200	800
HST/HSM	400	300	2200	1150	2400	1000
HST/HSM	630	490	2400	1200	2600	1300
HST/HSM	1000	760	2500	1300	3000	2000
HST/HSM	1600	1230	2700	1600	3300	3000
HST/HSM	2500	1930	2900	1800	3700	5000
HST/HSM	3150	2360	3100	1900	4100	6000
HST/HSM	4000	3030	3500	2000	4500	8000
HST/HSM	6300	4850	4000	2300	4800	12 000
HST/HSM	10 000	7650	4500	2700	5500	16 000
HST/HSM	16 000	12 010	5000	3000	6000	20 000
HST/HSM	20 000	15 290	5300	3200	6300	25 000
HST/HSM	30 000	22 760	5500	3400	7400	40 000

All dimensions approximate

Function:

Vacuum contact dryer with heated walls (contact surfaces) supplying heat of evaporation to product

Intensive heat transfer through product circulation with agitator design adapted to suit the process duty (Becker paddles, plow blades, countercurrent helical ribbon)

Continuous renewal of the surface layer through the sweeping action of the agitator

Reduced boiling points under vacuum speed the drying process

Variety of applications including mixing duties (HSM)

Batch and continuous operating modes possible

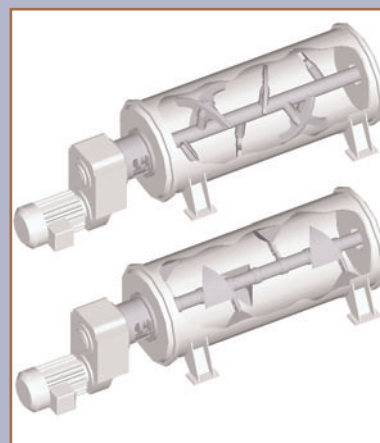
Application:

Drying of free-flowing products such as filter cake moist from the centrifuge, fine chemicals, pigments, shear-sensitive powders or crystals and pharmaceutical active ingredients

Mixing and drying of products with problematic flow properties or a pronounced transition phase

Mixing liquids into solids

Chemical reactions involving solids and high viscosity pastes under pressure or vacuum






EKATO Research and Development

- Application-oriented testing
- Development of special agitator impellers
- Engineering studies

EKATO SOLIDMIX GmbH

Käppelemattweg 2
79650 Schopfheim, Germany

Tel. +49 (0) 76 22 29-0
Fax +49 (0) 76 22 29-600
e-mail: info@solidmix.com

 www.solidmix.com

EKATO SOLIDMIX