

STOLZ

Twin shaft paddle mixer ST



ENGINEERED
TO YOUR NEEDS

Laws of gravity challenged

Lack of segregation due to a wide range of bulk densities, particle sizes or shapes.

Accurate mixing

- Minor components without premixing : 10 ppm
- No overheating
- Variation coefficient value less than 3% with powders.

Large opening side inspection doors

- Quick possible cleaning
- Better access

All kinds of steel finishing

Internal finishing :

- Stainless steel : all types of grains polishing, electropolishing, seamless welding
- Mild steel : 1 protective coating layer, high wear resistance coating on option.

External finishing :

- Stainless steel : fine glassbeatshot, protective coating layer on steel plates
- Mild steel : primary coating layer, final coating layers

THE MIXING

A shorter mixing time

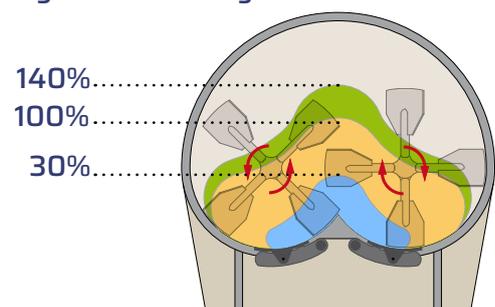
Depending on applications, mixing time is from 10 seconds up to 1 minute to achieve a stabilized mix involving dry material.

Flexible unit batch size

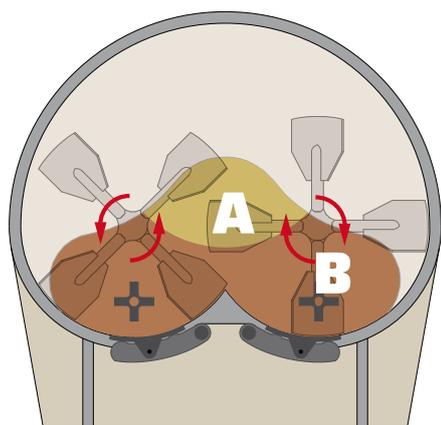
Loading rate from 30% up to 140% of the nominal capacity according to applications without changing operating parameters.

Shearing knives and dispersion sockets

According to applications, possible addition of active shearing and cutting devices even with a 30% loading rate efficiency.



FLUIDIZATION AND PARTICLE TRANSPORT ZONE



Rotor direction of rotation :

- The different particles are moved up into the central area of interpenetrating paddles by synchronized rotors.

Area A : Mechanical fluidization area :

- Area where the blades move upwards. Zone A is the actual mixing zone.

Area B : Circular movement of particles :

- Zone where particles have a circular and planetary movement and move simultaneously with complex movements in area A.

DIMENSIONS AND POWER BY TYPE

Type	Nominal volume	Usable volume (L)				Overall dimensions (mm)			Weight	Installed power
		Mini		Maxi		Length	Width	Height		
	L	No liquid	With liquid	No liquid	With liquid				kg	kW
ST20	20	6	14	26	26	650	890	660	400	1,5
ST60	60	18	42	78	78	960	1035	810	800	3
ST120	120	36	84	156	156	1250	1155	930	1000	4
ST250	250	75	175	325	325	1950	1350	1200	1300	5,5
ST500	500	150	350	650	650	2100	1650	1450	2000	7,5 to 11
ST1000	1000	300	700	1300	1300	2600	1950	1750	3500	15 to 30
ST2000	2000	600	1400	2600	2600	3250	2500	2350	6000	30 to 45
ST4000	4000	1200	2800	5200	5200	4000	3000	2600	11000	55 to 75
ST6000	6000	1800	4200	7800	7800	4500	3450	2850	15000	90 to 132
ST8000	8000	2400	5600	10400	10400	4950	3620	2950	20000	160
ST10000	10000	3000	7000	13000	13000	5800	3620	3000	24000	200

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