

# Twin shaft paddle mixer ST



## Laws of gravity challenged

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

## Accurate mixing

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

## Wide opening side inspection doors

- Quick inner inspection,
- Quick eventual cleaning,

## All kinds of steel finishing

Internal finish

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

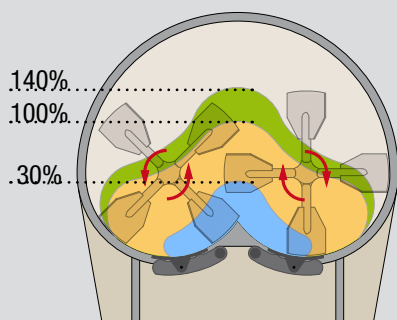
External finish :

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



# Twin shaft paddle mixer

## 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.

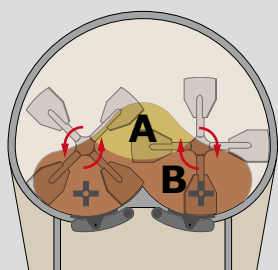
### Flexible unit batch size

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

### Shearing and dispersal tulip knives

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

## Fluidization and particles movement areas



Direction of rotating shafts :

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

Area A : Mechanical fluidization area :

- Area for interpenetration of paddles moving downward. Area A is the actual mixing area.

Area B : Circular movement of particles :

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

Type	Nominal volume	Used volume (L)				Overall sizing (mm)			Weight	Installed power
		Mini		Maxi		Length	Width	Height		
		L	No liquid	With liquid	Powders					
ST6	6	1.8	4.8	9	7.2	500	700	915	160	0.37
ST20	20	6	16	28	24	650	890	660	250	1.1
ST60	60	18	48	84	72	960	1035	810	280	3
ST120	120	36	96	168	144	1250	1155	930	450	4
ST200	200	60	160	280	240	1800	1500	1150	800	4/5.5
ST350	350	105	280	490	420	1850	1600	1350	1250	5.5/7.5
ST500	500	150	400	700	600	2100	1650	1450	1500	7.5/11
ST750	750	225	600	1050	900	2500	1850	1700	2500	11 to 22
ST1000	1000	300	800	1400	1200	2600	1950	1750	3500	15 to 30
ST1500	1500	450	1200	2100	1800	3050	2400	2100	5000	22 to 37
ST2000	2000	600	1600	2800	2400	3250	2500	2350	6000	30 to 45
ST2500	2500	750	2000	3500	3000	3400	2600	2400	7000	30 to 45
ST3600	3600	1080	2880	5040	4320	3600	3000	2500	8000	37 to 55
ST5000	5000	1500	4000	7000	6000	3900	3200	2800	10500	45 to 110
ST6000	6000	1800	4800	8400	7200	4150	3350	2600	13000	55 to 110
ST8000	8000	2400	6400	11000	9600	4800	3600	2600	17000	75 to 160
ST10000	10000	3000	8000	13750	12000	5600	3600	2600	22000	110 to 200