



SAVELLI
Savelli Machinery India Pvt. Ltd.



Sand Mixers – SGM Series

03/2021

For internal use only

Sand Mixer Performance

Our experience shows two foundries never use same sand properties, Input conditions also varies. However the important parameters are always on count for any good Foundry.

- **Compactability** that allows a good moulding and consequent shakeout
- **Strength** that allows to produce moulds resistant to handling, core placement
- **Temperature** 5 –10°C above ambient
- **Permeability** that enables the evacuation of gases

- **High reliability and ruggedly constructed**
- **Less power consumption per tonne of sand produced**
- **High productivity**
- **Ceramic lining for shell and bottom mixing surface including discharge door.**
- **High Performance Power Transmission System:**
 - The mixed sand is **discharged from the bottom** with large opening reducing the lump formation and improving the cycle time.
 - The door is operated **Hydraulically with separate power pack**
 - **High performance mixing tools.**



Sand Mixer

No	Feature	Savelli SGM 20	Competitor 1	Competitor 1
1	Designed Batch Capacity	600 kg	500 kg	500 kg
2	Output sand / hour	18 TPH	14-16 TPH	14 TPH
3	Total power in KW	30	67.5	90
4	Wall scraper	Available	Not available	Not available
5	Bottom wear plate	Ceramic	Metallic	Metallic
6	Wall wear plate	Ceramic	Metallic	Metallic
7	Wall wear plate height.	Full	Half	Half
8	Life of bottom wear plate	9-10 years	<1 year	1.5 years
9	Life of wall wear plate	7-8 years	<1 year	1.5 years
10	Motor to gear box drive	Fluid coupling	Fluid coupling	Direct drive
11	Discharge door type	Bottom	Side	Bottom
12	Gear box mounting position	Top	bottom	Top
13	Number of drive motors	1	2	2

“ Two mixers delivered at RSM, Savelli Mixers are amazing. At 90 secs mixing it gives a mixing efficiency of 62 to 65%, even with 150 Secs cycles neither DISA or Eierich crosses 55/58. this is the best efficiency I have seen in Coimbatore. Compliments!”

- Mr. Hariharan, Foundry expert

Sand Mixer comparison			
SI No.	Model	SGM 36	TM 190
1	BATCH SIZE IN KG	1200	800
2	CYCLE TIME IN SEC	120	100
3	CAPACITY IN TONS/HR	36	24
4	POWER IN KW	55	112
5	CERAMIC LINING	Yes	No
6	Spares cost/year in ₹ (Approximately)	40,000	2,00,000
Difference in power compared with TM 190 : 57Kw/hr			
Savings			
57Kw X 20 hrs = 1140 units/day			
1140 units X 25 days = 28500 units/month			
28500 units X 12 Months = 342000 units/year			
342000 units X 3.72 ₹ /unit= 12,72,240₹/-year			
Spares saving - 1,60,000 ₹			
Power saving - 12,72,240 ₹s			
Total Savings/Year - 14,32,240/-₹			

Technical Specifications

MIXER Model	Batch capacity in Kg	Power connected in kW	Out put in Tonnes/Hr for Cycle time 100-120 secs
SGM 10	300	15	9 - 11
SGM 15	400	22	12-14
SGM 20	600	30	18-22
SGM 25	800	45	24-28
SGM 36	1200	55*	36 -40
		* HY power pack 3.7 kW	