

Type	Rmm-6x12	Rmm-10x24	Rmm-12x30	Rmm-14x36	Rmm-16x42	Rmm-18x48	Rmm-22x60
Working diameter of rolls (mm)	150	250	300	360	400	450	560
Working length of rolls (mm)	320	620	750	900	1000	1200	1530
Working linear speed of front roll (m/min)	8	15.1	15.1	16.25	18.65	24.5	27.7
Max gap (mm)	10	10	10	10	15	20	20
Capacity per. batch (kg)	1.5	10-15	15-20	25-30	35-40	45-55	60-80 kgs
Driving motor power (kw)	7.5	18.5	22	30	37	55	95
Overall	1080	3400	3580	3940	4250	5200	6120
Dimension (mm)	796	1350	1550	1780	1850	2380	2280
Weight (kg)	1415	1500	1695	1740	1870	1770	2000
	1500	4000	6500	8000	10000	15000	22000
Bearings	Anti Friction Roller Bearings						

Construction features:

1. Base plate and machine frames Welded to withstand high loads, the machine frames are positioned on the base plate using a key and keyway arrangement and then bolted firmly into place. The machine frames and base plate are of ample proportions for the loadings they carry.
2. Rolls Chilled castings with a surface hardness of 510 ± 20 HB (Brinell) and burnished roll faces provide a smooth wear-resistant surface.
3. Roll cooling :- Standard rolls are cored, cooling water being fed into the rolls via rotary unions and cooling pipes. The water also flows back through these rotary unions, which are connected to feed and discharge lines by flexible hoses. On request, either the working roll or both rolls can be supplied with peripheral bores to ensure even back through these rotary unions which are connected to feed and discharge lines by flexible hoses. On request, either the working roll or both rolls can be supplied with peripheral bores to ensure even more effective cooling of the compound.
4. Roll bearing Long service life is guaranteed by the use of generously sized roller bearings.
5. Bearing lubrication Automatic grease lubrication is standard for the lubrication of the roller bearings.
6. Roll nip adjustment :- Manual & Motorised, controlled by LVDT.
7. Uni driven - No Belts
8. Omex - Gear box equivalent to Ele con
9. Stock blender, pneumatic cutter, VFD controlled speed.



Rubber & Plastic Processing Machines



Two Roll Rubber & Plastic Mixing Mills



"Heavy Duty Mixing Mills for Better Mixing Quality."

Overview

For more than 15 years, SANTEC is well-known for manufacturing durable, hi-tech and state-of-the-art Two Roll Mills for the process industry. Our Two Roll Mills are designed with many user friendly features like durability, compactness, ergonomic features, ease of mobility, user friendly operation & maintenance and economy. Compounds may be of rubber, plastic, polymer, or tile compound. The mills are available in various sizes, with bushings or self-aligning roller bearings, and manual or motorized nip adjustments. The mills are heavily constructed to mix newer and tougher compounds in a silent, trouble-free manner, and are very durable and reliable in operation. The mills are manufactured as per rigid international standards with many attractive features and options.

Process : The process of mixing is carried out between two contrary rotors. The wicks of the both the rotors are arranged in parallel manner and possess different speeds. Due to the difference in tangential speed and nip construction, rubber compound experiences displacement and pressure energy during the process of mixing. Pressure energy increases the displacement energy, and displacement energy will break the rubber molecule bonding. The breakage of rubber molecules allow carbon and other chemicals to be uniformly mixed with rubber

Application

- Compounding and sheeting out of rubber
- Feed mills for calendars and extruders
- For re-mixing
- For plain compounding and mixing

Salient Features

Two Roll Rubber Mills are available with different attachments and equipment as per the kind of raw material to be blended. These mills have some of the significant benefits including:

- Low operating cost
- High precision
- Available in both conventional bull gear design & uni-drive type
- Equipped with all the required bull safety features to avoid any mis-happening
- Automatic temperature and time control system - optional
- High mixing performance
- Uncompromising quality
- Easy to install and maintain
- Environment friendly operation

