

temperature grease oil.

Roll gap adjustment: 1 manual gap adjustment with LVDT & digital display is standard.

Application

Numerous of mixing equipments are available as per the kind of raw material being blended and the industry they will cater to most of these machines are electronic motor driven and out put depends on the size and the technology of the machinery . The various types of mixing machines are used for many different purposes like

- Used for the processing of rubber & plastic products
- Mainly for mixing rubber, sheeting rubber, plasticizing and warming rubber & PVC (plastics)
- Low operating cost
- High precision
- Uniform mixing and blending of raw materials

TECHNICAL SPECIFICATIONS:

Description	LMM-4	LMM-6	LMM-9
Roll Deameler (mm)	110	150	225
Roll Length (mm)	280	400	450
Working Length (mm)	220	300	370
Batch Capacity (approx) gms	100-500	200-1000	500-3000
NIP Gap	Rubber 0.2 to 10	0.2 to 10	0.2 to 10
Adjustment	Plastic 0.1 to 5	0.1 to 5	0.1 to 5
Standard Friction Ratio	1: 1.4	1: 1.4	1: 1.4
Electrical	Rubber 7.5 H.P	10 H.P	15H.P
Motor (H.P)	Plastic 5 H.P	7.5 H.P	10H.P
Roll Temperature	250°	250°	250°
Water Cooling For Plastic	yes	yes	yes
Heating Capacity For Plastic	2 x 9 kw	2 x 9 kw	2 x 9 kw

* Heating is controlled by Automatic temp. control unit (TCU)



Two Rolls Rubber Mixing Mills

"Precision Heavy Duty Mills with all latest trends.."

Overview

Santec's two roll mixing mills are widely used for mixing and kneading raw rubber, synthetic rubber, thermoplastic or EVA with chemicals into even materials. The even materials can be fed to calender, hot presses or other processing machinery for manufacturing rubber or plastic products. These mills are available in various capacities with bushings or self-aligning roller bearings, and manual or motorized nip adjustment. Mills are specially fabricated to mix newer and tougher compounds in a silent and trouble-free manner. Two roll mixing machine can also be customized to meet the specific application requirements of the clients.

Construction : The rolls are machined from a solid rod of high graded tool steel & are hardened to give a roll surface hardness of over 60 rockwell. The surface of the rolls have been hard chromed, ground & polished to a mirror surface the electrically heated rolls are made with a heat conductive core, which contains the special electrical cartridge heater for uniform heat distribution over the entire roll surface the oil heated or water cooled rolls are made with internal machined spiral channels near the roll surface which run along the entire working area.

Drive system: The drive unit consists of A. C. Motor which drives a large helical worm gear via pulley the worm gear is in turn attached directly to a totally enclosed connecting gearbox which drives the rolls via heavy duty chains. Due to this chain drive systems the rolls are hanging free from the connecting gear & the nip gap can be adjusted without any negative effect on the fixed connecting gear .

A. C. frequency drive: The optional individual infinite variable speed drive of each roll is also possible on request. For this two A. C. frequency driver & two ac motors which are flange mounted to a large totally enclosed helical gear box . The drives are programmed to give a very high starting torque so that it is possible to start the mill with a full load of even the most heavy polymers.

Roll temperate control system: infrared temperature sensor placed on a bar over the nip gap & compiled with a PID controller on control panel. This sensor can be moved over the entire roll length to measure any temperature variances in the rolling bank.

Frame: The machine frame is built up with welded rectangular tubes and is covered with removable covers. The frame is rigid & heavy duty to withstand the load.

Blocks: The bearing blocks are each equipped with a double set of needle bearings which together with the precision ground roll shafts will give a very sturdy support to the rolls with no play. The bearings are lubricated with high

