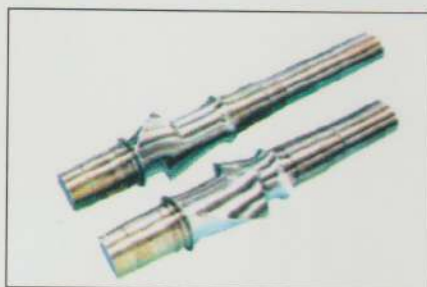
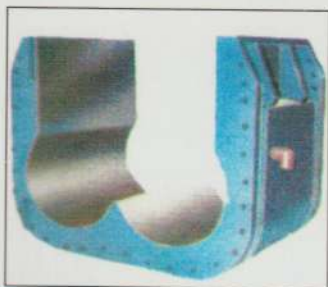


SLACH HYDRATECS Hitech rigid and robust tilt discharge dispersion kneader/intensive mixer designed and developed for high quality and optimum mixing performance of rubber, plastic and other polymers with different ingredients with minimum power consumption. Engineered for easy maintenance featuring self contained and floor mounted needs no foundation or grouting. The mixing chamber tilts at 140 degree angle for fast and easy discharge and loading of compound and easy cleaning for batch to batch consistency .

Conventional dispersion kneader

- 1) Single piece alloy steel casted rigid & robust main mixing chamber, end frame, pressure lid, hardened lips and hardchrome plated for longer working life.
- 2) Alloy steel mixing rotor, hard deposits through special grade material and hardchrome plated . The contour & geometry of rotor edges specially designed and proved for optimum mixing performance, output and results.
- 3) Most effective, positive, self lubricating seals, (dust stop) designed to minimize to oxidization of chemical and dust
- 4) Specially designed heavy duty reliable multi-stage hellical gearbox unit for lower power consumption.
- 5) Easy to use standard control - easy to use simplified panel controls with all basic functions. Safety interlock to protect operator & equipment. The batch is protected from over or under mixing with exclusive audible alarm
- 6) Water jacketing in both the side plates for effective cooling of the chamber.



MODELS AVAILABLE

- ▶ High Speed Mixer
- ▶ Conventional / Standard Mixer

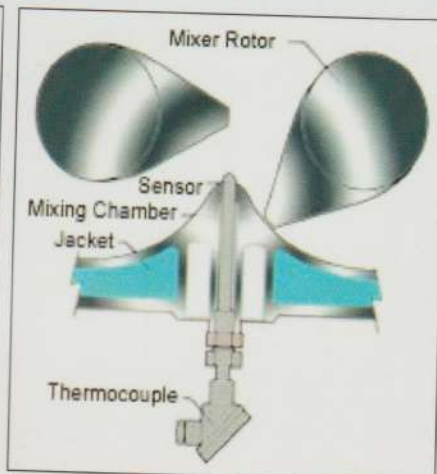
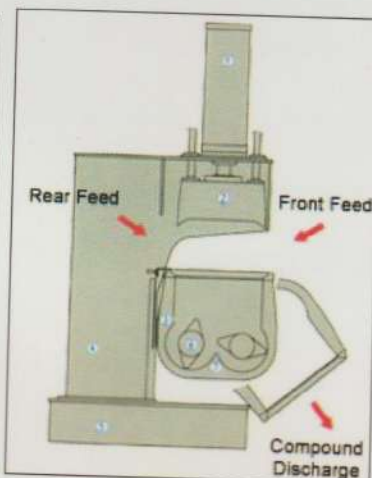
ADDITIONAL FEATURES

- ▶ Fully Hydraulically Operated
- ▶ Back Feed and Front Discharge



Back Feed & Front Discharge Model Features

- 1) Clean shopfloor as material is to be loaded from rear.
- 2) Easy to handle raw Material .
- 3) Easy to operate panel , can be mounted on the back side of the machine
- 4) Bucket conveyor can be installed on front side of the machine to load the batch from the kneader to mixing mill or twin screw hopper.
- 5) Easy to maintain



Kneader with Back Feed and Front Discharge

Fully Hydraulically Operated Dispersion Kneader

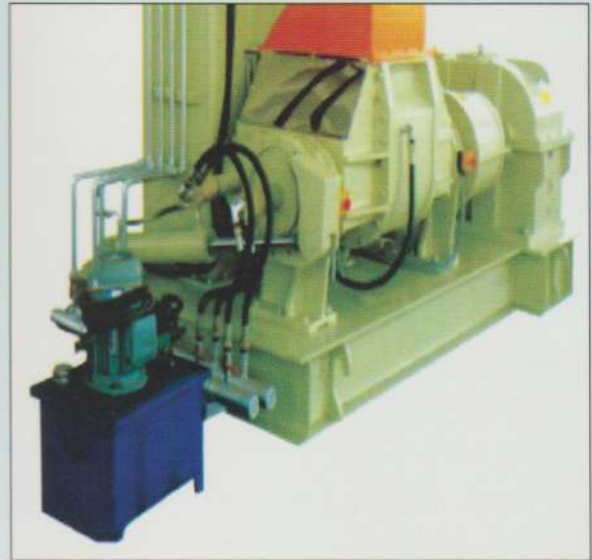
Slach Hydratecs Hi-tech Dispersion Kneader fully hydraulically operated gives high dispersive mixing as the hydraulic ram exerts positive pressure on the batch and can be controlled accurately through valves. This results in high batch to batch consistency. The discharge of the material is done through hydraulic cylinder with noise free operation.

Available Models:

03 Ltrs. to 250 Ltrs. on regular basis.
Higher sizes on demand.

Salient Features:

- Mixing through close loop
- Main rotor drive - hydraulic by way of high torque low speed hydraulic motor.
- Feeding hopper - hydraulically operated with auto compensated hydraulic system
- Compact construction - occupying less space. a complete integrated unit.
- Minimum maintenance due to lesser frictional mechanics.
- Minimum operational cost due to single power pack motor.
- No air compressor required.
- Savings on power consumption.



Fully Hydraulically Operated
Main Ram and Tilting

Conventional Dispersion Kneader Technical Data

Models	Total Volume Capacity in Ltrs.	Total Batch Capacity (Kgs)	Rear and Front Rotor-RPM	Main Motor (HP)	Tilt Discharge System	Tilting Angle (degree)	Tilt Discharge Motor (HP)	Optionally reqd. Air Compressor HP/PSI/CFM	App. Wt. of Machines (in Kgs)
SHDX-DK-K3-3 (03 Ltrs.)	7	3-4	32/27	5	Moterised Screw/worm	125-140	1	1/125/5.3	1300
SHDX-DK-K3-5 (05 Ltrs.)	10	5-8	32/27	7.5	gear Mechanism	125-140	1	2/125/8	1800
SHDX-DK-K3-10 (010 Ltrs.)	25	10-15	32/27	15	"	125-140	1	3/125/8	2700
SHDX-DK-K3-15 (015 Ltrs.)	28	15-18	30/24.5	20	"	125-140	1	3/125/8	3100
SHDX-DK-K3-25 (025 Ltrs.)	45	25-38	30/24.5	40	"	125-140	3	3/125/10	6200
SHDX-DK-K3-40 (040 Ltrs.)	80	40-53	30/24.5	60	"	125-140	5	5/125/23	7500
SHDX-DK-K3-55 (055 Ltrs.)	125	55-80	30/24.5	75/100	"	125-140	5	7.5/125/24	8500
SHDX-DK-K3-75 (075 Ltrs.)	170	75-105	30/24.5	100/125	"	125-140	5	7.5/125/24	9500
SHDX-DK-K3-100 (100 Ltrs.)	215	100-155	30/24.5	125/150	"	125-140	7.5	10/125/35	11500
SHDX-DK-K3-125 (125 Ltrs.)	250	125-180	30/24.5	150/175	"	125-140	10	15/125/57	13000
SHDX-DK-K3-150 (150 Ltrs.)	280	150-210	30/24.5	200	"	125-140	10	15/125/57	14500

High Speed Mixer Salient Features

- 1) Less mixing time as compared to conventional kneader
- 2) Fully Plc operated (optional)
- 3) High efficiency temperature controlled rotors with tip cooled design.
- 4) Driven pulley is solid high-density design to generate high shearing force and transmission effect. This reduces the power consumption during blending.
- 5) Better hopper design for efficient mixing of raw material

Models	SHEL-HS-DK-5L	SHEL-HS-DK-25L	SHEL-HS-DK-35L	SHEL-HS-DK-55L
Motor Range	15-20 HP	60-75 HP	75-100 HP	100-125 HP
Tilt Motor	1	2	3	5
Compressor	2	3	3	5
Cooling Pump	0.5	1	1	1
Capacity	5-7	20-40	35-50	55-70
R.P.M.	43-35	43-35	43-35	43-35
Tilting Angle	125-140	125-140	125-140	125-140

Models	SHEL-HS-DK-75L	SHEL-HS-DK-100L	SHEL-HS-DK-125L	SHEL-HS-DK-150L
Motor Range	125-150 HP	150-180 HP	180-200 HP	200-250 HP
Tilt Motor	5 HP	7.5 HP	10 HP	10 HP
Compressor	5 HP	7.5 HP	10 HP	7.5 HP
Cooling Pump	1	2	2	3
Capacity	75-90	100-140	120-160	150-190
R.P.M.	43-35	43-35	43-35	43-35
Tilting Angle	125-140	125-140	125-140	125-140

Note :

- 1) Models can be changed due to Continues Research & Development.
- 2) Fully P.L.C. Controlled Models also available.

Membership

CII	Confederation of Indian Industry
FICCI	Federation of Indian Chambers of Commerce and Industry
EEPC	Engineering Export Promotion Council
AIRIA	All India Rubber Industry Association
ITPO	Indian Trade Promotion Organization
SSI	Small Scale Industry

Awards

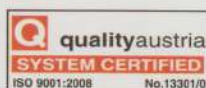


ESTD. 1960

SLACH HYDRATECS EQUIPMENT P. LTD.

(Formerly Known as SLACH ENGINEERING WORKS PVT LTD)

H.O. & Plant # 1 : 15, Najafgarh Road, New Delhi-110015 • Phone : 25928100, 25928200, 25928300
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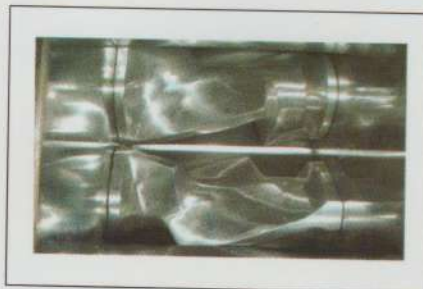
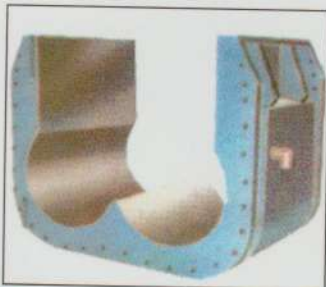
SLACH HYDRATECS FW-HS Series Mixers are a highly versatile range of batch mixers for the rubber industry. These mixers are provided with high power mixing mode to handle tough rubbers. Nominal batch capacity is influenced by fill factor and Specific gravity of the rubber.

FOUR WING ROTORS provide excellent dispersion in the mix, generate smooth material circulation within the chamber, and maintain an even temperature and pressure specification throughout the mix. Recognized as the pioneer in Rubber and Tyre machinery in India, Slach Hydratecs shall remain the expert one stop source for all requirements of the industry. It stands committed to provide innovative technology advances to the emerging needs of its valued customers.

MIXING CHAMBER: The part coming in contact with mixing material is made of single piece alloy steel casting with specific composition to withstand maximum mixing life to the chamber. The edge comes in contact to knead polymers are further processed with hard welding deposits with special process and composition to withstand hardness of 55 RC to maintain maximum life the clearance between chamber and the rotors for longer life of efficient mixing & result whereas are manufacturing the same with fabricated steel, which has lesser life than SLACH made chambers.

FLOATING WEIGHT: The parts coming in contact with mixing material is made of single piece alloy steel casting of right thickness to withstand maximum life and to maintain side to side clearance to prevent leakage of ingredients. The lid is water cooled provided with two parallel inlet and outlet steel piping of right thickness which are acting as supports for parallel up and down movement of floating weight.

ROTORS: The rotors are four wing design rotors having wings made of special purpose alloy steel casted material which comes in contact with the mixing & are further hardened through special purpose/grade crack free deposits, having hardness of app.520-550 BHN & further hard chrome plated.

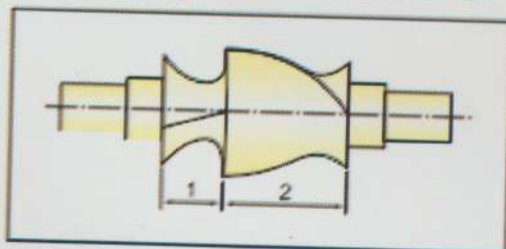


TRANSMISSION: SH-FW-HS series comes with direct drive coupling between gearbox & motor to ensure high power to be transmitted to the compound in the chamber resulting in fast batch mixing. 'v' Belt Type Transmission Model is also available.

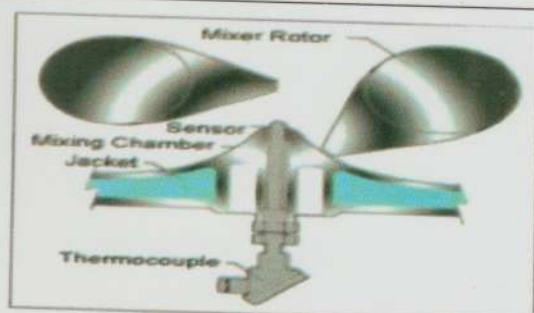
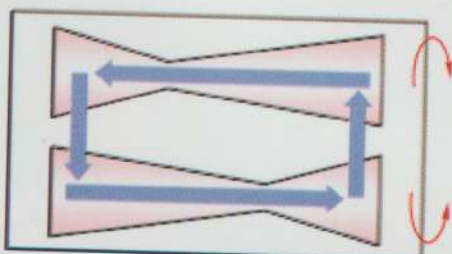
"Slach Hydratecs" SH-FW -HS Series Tangential -4-Wing Rotor Hi Tech Dispersion Kneader consist of following salient features:-

- » **"Slach Hydratecs"** SH-FW Series Tangential Rotors gives distributive & dispersive Mixing allowing greater Productivity by processing materials more homogeneously & masticate materials at lower discharge temperature
- » SH-FW Series Tangential Four Wing highly efficient Rotors geometry(Long Wing-Short Wing) have different helix angles matched in ratio which enlarges Shear stress & Extrusion force which is Suitable for all kind of Rubber & Polymer Mix Compound with High efficiency & Good Dispersion Quality
- » SH-FW Series in Uni-Drive Design
- » SH-FW Series with Reduced Mixing Cycle time as compared to Standard Rotor Design Dispersion Kneader in large amount
- » Increased Fill Factor
- » Better Flow of material between Mixing Chamber with Newly designed SH-FW Series Feed hopper/Ram/Pressure Lid
- » Water cooled tips for most efficient Rotor cooling
- » Low Friction Ratio to enhance distribution shear load between Rotor & excellent control of shearing heat
- » 20-25% More Power Energy for Distributive & Dispersive Mixing
- » Deliver high power plastisizing results
- » Single Step & Multi step Mixing option
- » Fully PLC Controlled operation Cycle
- » Temperature of all Mixing zones controlled through P I D Controllers
- » Inter locking between feed hopper & Tilt Mechanism

4 - Wing Standard Rotor



Material Flow Inside Chamber



Technical Specification

Models	Total Volume Capacity in Ltrs.	Total Batch Capacity (Kgs)	Rear and Front Rotor-RPM	Main Motor (HP)	Tilt Discharge System	Tilting Angle (degree)	Tilt Discharge Motor (HP)	Optionally reqd. Air Compressor HP/PSI/CFM	App. Wt. of Machines (in Kgs)
SH-FW-HS-003 LTRS	7	3-4	45/40	7.5	Screw/worm	125-140	1	1/125/5.3	1300
SH-FW-HS-005 LTRS	10	5-8	45/40	10	Screw/worm	125-140	1	2/125/8	1800
SH-FW-HS-010 LTRS	25	10-15	45/40	20	Screw/worm	125-140	1	3/125/8	2700
SH-FW-HS-015 LTRS	28	15-18	45/40	30	Screw/worm	125-140	1	3/125/8	3100
SH-FW-HS-025 LTRS	45	25-38	45/40	60	Screw/worm	125-140	3	3/125/10	6200
SH-FW-HS-035 LTRS	80	40-53	45/40	75	Screw/worm	125-140	5	5/125/23	7500
SH-FW-HS-055 LTRS	125	55-80	45/40	100	Screw/worm	125-140	5	7/5/125/24	8500
SH-FW-HS-075 LTRS	170	75-105	45/40	125	Screw/worm	125-140	5	7.5/125/24	9500
SH-FW-HS-100 LTRS	215	100-155	45/40	150	Screw/worm	125-140	7.5	10/125/35	11500
SH-FW-HS-125 LTRS	250	125-180	45/40	175	Screw/worm	125-140	10	15/125/57	13000
SH-FW-HS-150 LTRS	280	150-210	45/40	200	Screw/worm	125-140	10	15/125/57	14500

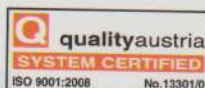
NOTE : THE ABOVE MODELS & SPECIFICATIONS CAN CHANGE DUE TO CONTINUOUS R & D
FULLY HYDRAULICALLY OPERATED MODELS ARE ALSO AVAILABLE



SLACH HYDRATECS EQUIPMENT P. LTD.

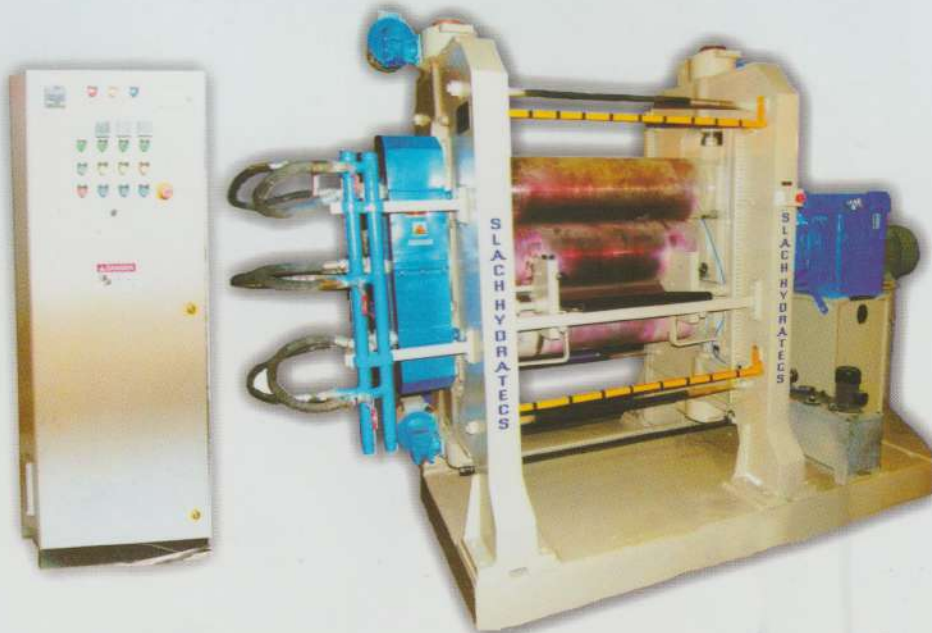
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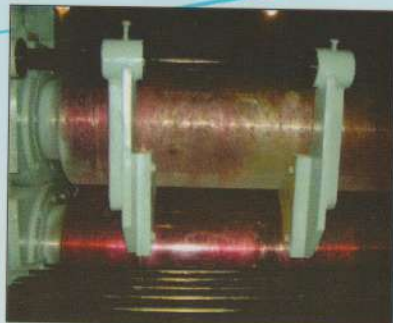
H.O. & Plant # 1 : 15, Najafgarh Road, New Delhi-110015 • Phone : 25928100, 25928200, 25928300
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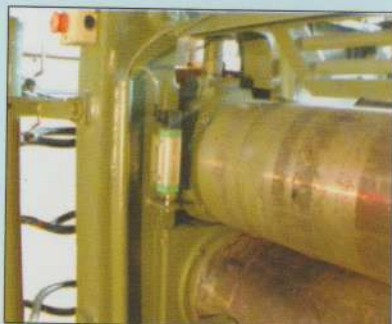
CALANDER

- Base plate shall be fabricated out of heavy duty double channel.
- Roll journal boxes shall be of special grade cast iron machined finish lined with Anti-Friction Roller Bearings. Middle bearing boxes are to be secured firmly with the frame and Bottom and Top bearing boxes are to be connected to nip adjustment assembly for positive roll nip adjustment.
- Frame stand made of heavy duty C.I. casted, Or Stress relieved steel fabricated and cap supports shall be steel fabricated.
- Nylon or reinforced fibre inserted adjustable guides with steel/iron guide holders.
- Can be provided with twin screw hopper feed or manual feed.





STOCK GUIDES



LINEAR POTENTIOMETER



MOTORIZED NIP ADJUSTMENT

COOLING DRUM AND SHEET CUTTING CONVEYOR

Water cooling rolls with chain sprocket driven cooling conveyor provided with suitable gearbox and variable speed motor. Rotary /Pneumatically operated cutter mounted on 'V' belt or flat belt conveyor driven by variable speed motor with suitable gear reducer and control panel can be provided. Cooling drum can be 3 or 5 as per the customers requirement.



TECHNICAL DATA FOR SHEETING LINE

Models	ROLL Diameter(mm) Barel Length (mm)		RPM Front Rear		BATCH CAPACITY (kg)	Drive Motor kw/hp
SHDX-CAL 6"x18"	152.4	457.2	12	13	7.5-10	7.5
SHDX-CAL 8"x24"	203.2	609.2	11	12	20-25	15
SHDX-CAL 10"x30"	254.0	762.0	10	11	25-30	20
SHDX-CAL 12"x36"	304.8	914.4	9	10	35-40	30
SHDX-CAL 14"x42"	355.6	1066.8	8	9	40-50	40
SHDX-CAL 16"x48"	406.4	1219.2	7	8	55-70	60
SHDX-CAL 18"x54"	457.2	1371.6	6	7	75-90	75
SHDX-CAL 22"x66"	457.2	1676.4	5	6	90-110	125
SHDX-CAL 24"x72"	609.6	1828.8	4	5	160-180	250

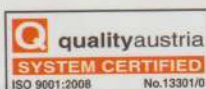


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RUBBER EXTRUDER

(HOT FEED & COLD FEED)

SCREW:

EN-41. B Nitrated steel scroll having hardness approx. 58-59 RC. Upgraded lead design for maximum, constant output with minimum energy consumption.

BARREL:

Seamless barrel housing steel fabricated double jacketed for water cooling or steam heating arrangement as per specific requirements with robust design for heavy extruder loads for trouble free operations.

LINER:

En 41.B Nitrated steel liner having hardness approx. 58-59 RC.

BEARING:

Heavy duty taper roller thrust bearing provided in both end of barrels to bear up heavy extruder load.

FEED HOPPER:

Specially designed under cut at feeder hopper area to ensure regulated material inflow and constant flow at the die face end. (Feed roller on hot feed extruders offered only on request above 60 mm).

DIE HEAD HOLDER:

Removable threaded die head holder with hinged/fixed bolts. Clutch type, hinged type or hydraulic/pneumatically openable die holders are also offered on request as option.

STAND & BASE:

Heavy duty steel fabricated monobloc constructed.

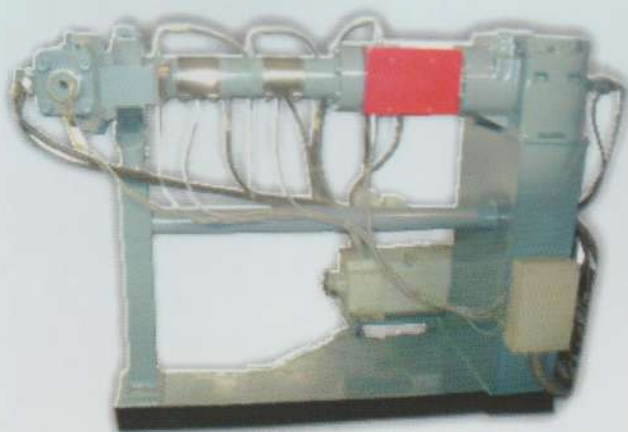
COUPLING:

Star type heavy duty coupling or directly coupled to the gearbox shaft with heavy duty 'V' belt transmission from motor to gearbox. As per standard design or requirement.

REDUCTION GEAR:

SHEL make special hollowed shaft, thrust bearing fitted on the output shaft, profile grounded/soft series gear reducer units as standard or with separate bearing housing with extra heavy duty tapered/thrust roller bearing coupled directly

Screw-type rubber extruders manufactured by SLACH HYDRATECS are being used by the leading rubber processing companies in India and abroad, for over several years, been recognised as setting the benchmarks in output and production quality. Depending on the application, SLACH can supply the right size of extruder: cold feed (K3), hot-feed (K2) extruders. The series also includes vacuum and pin-type extruders .



▲
COLD FEED

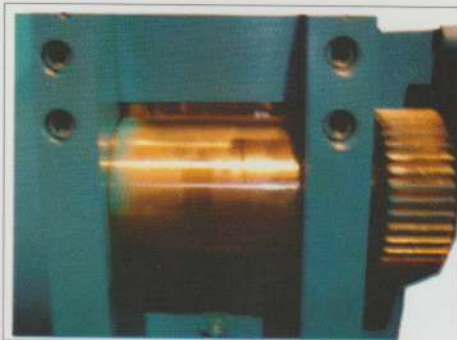


▲
HOT FEED

TUBE DIE HEAD



FEED ROLLER



SHEET DIE HEAD



SHDX-K2 RUBBER EXTRUDER HOT FEED

SCREW DIA	L/O RATIO	RPM	DRIVE MOTOR	OUTPUT (kg/hr)
40 / 1.5"	5 / 6	58 - 70	2HP	10 - 15
50 / 2"	5 / 6	58 - 65	3HP	25 - 35
75 / 3"	5 / 6	52 - 62	7.5 HP	40 - 55
100 / 4"	5 / 6	42 - 48	10 HP/15 HP	65 - 130
115 / 4.5"	5 / 6	58 - 70	15 HP/20 HP	160 - 320
125 / 5"	5 / 6	36 - 44	30 HP/40 HP	18 - 460
150 / 6"	5 / 6	32 - 38	50 HP/60 HP	280 - 750
200/ 8"	5 / 6	28 - 36	60 HP/175 HP	400 - 1400

SHDX-K3 RUBBER EXTRUDER COLD FEED

Cold Feed	DIA-MM	L/D	Drive Motor	Temperature Screw	Control Cylinder	Zone Die	Head	Output
K3-30	30	10-12	5 HP	1	2	1	1	15
K3-40	40	10-12	10 HP	1	2	1	1	35
K3-60	60	12-15	30 HP	1	2	1	1	90
K3-75	75	12-15	40 HP	1	2	1	1	160
K3-90	90	12-15	60/75 HP	1	2	1	1	300
K3-120	120	12-15	75/100 HP	1	2	1	1	450
K3-150	150	12-15	125/150 HP	1	2	1	1	850

OTHER SIZES ARE OFFERED ONLY ON REQUEST.

* L/D RATIOS OTHER THAN SPECIFIED ARE ALSO OFFER ON REQUEST.

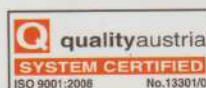
We reserve the rights to change / modify / upgrade to technical specification due to continuous R & D



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SLACH HYDRATECS rubber mixing mill is designed and developed for high quality and excellent performance of rubber, plastic and other polymers. The mill is typically assembled on a steel foundation plate or heavy duty channel, which is again set on rubber-pads or sound-metals adjustable, to isolate noise-levels to the building also to avoid tensions on the mill structure, precisely levelling out of the mill is very important for smooth operation..Two rigid pillars with removable tops carry the rolls, which are placed either in friction/bush bearings or high quality anti-friction roller bearings. Roller bearings are pretty much standard nowadays, as they allow for 20 – 30 % in power-savings. A lubrication system is no longer required.

Salient Features

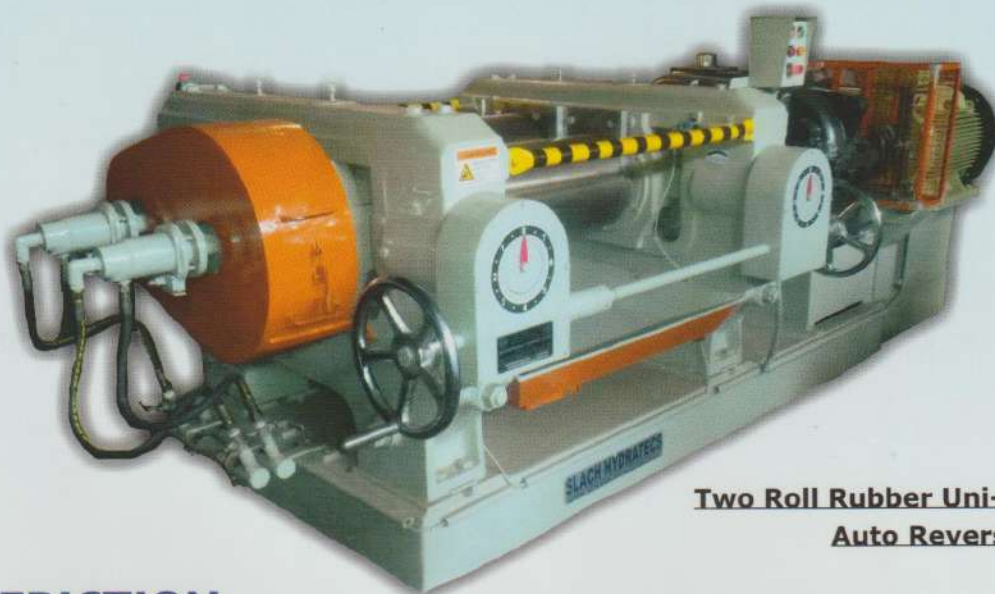
- 1) Universal nip roll adjustment.
- 2) Roller revolution on Anti-Friction Roller Bearings.
- 3) Drive - Uni-Ddrive system through specially designed coupling.
- 4) No foundation required - machine mounted on Anti Vibro Mounts.
- 5) Power saving.
- 6) Emergency knee operated mechanism for operator's safety. hrruster/ pneumatic braking with auto reversing (operator & machine safety measures).
- 7) Operator friendly.
- 8) Dust stop roller guides.
- 9) Minimum maintenance.
- 10) Steel casted stands & caps.

MODELS AVAILABLE

- ▶ Conventional model with 'v' Belt drive
- ▶ Conventional model with worm reducer.
- ▶ Uni-Drive model (Direct coupling)



Two Roll Rubber Mixing mill with Bull Gear Drive



**Two Roll Rubber Uni-Drive Mixing Mill with
Auto Reverse and Brake**

FRICTION

Rubber mixing mills can have speed variable motors with frequency controls options. Friction, speed, gap size, essentially all operating parameters can be stored in the PLC to be used next time if you have the same compound. Through friction different forces act on the compound, as mass-particles are being moved against each other as soon as the compound is compressed into the gap between rolls. Friction also builds up roll turning in the gap which again helps homogenising the compound.

MATERIAL GUIDES:

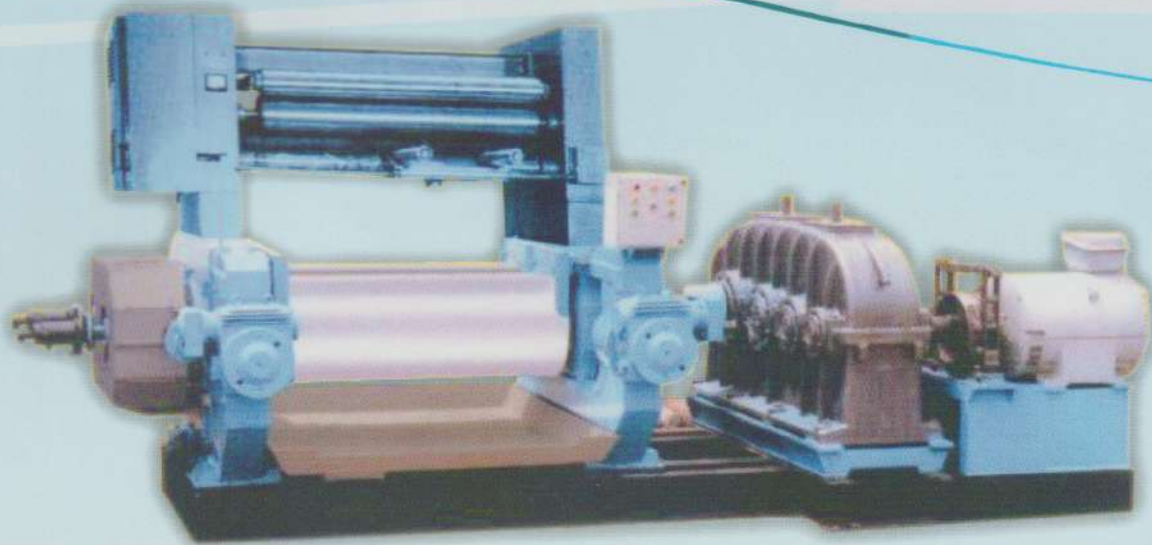
At the ends of the roll faces the roll nip is being limited by the compound guide cheeks. The compound guide cheeks of split design with "centre tongue" avoid lateral escape of compound from the working area in any case.

ROLL NIP ADJUSTMENT:

Adjustment of the front roll used to be made by hand (manual by ratchet). Today the gap between the rolls is adjusted by gear motors individually mounted on both sides of the mill stand. Safety pads are provided between the coupling and the nip adjusting screw. Auto adjustment can be done through Linear Potentio Meter/ Linear Scales with PLC. They also open roll gap immediately when pushing the safety bar in front or back in case of emergency .

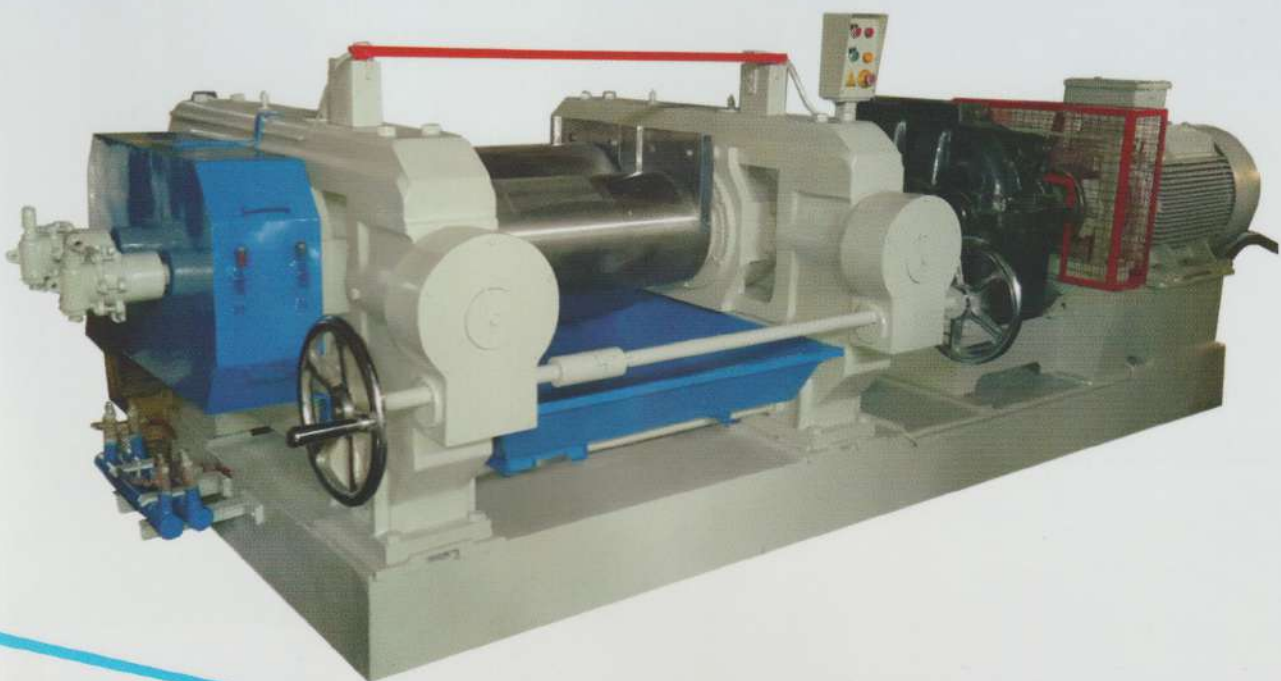
STOCK BLENDER:

Designed with mechanical reversing carriage for trouble and maintenance free operation with adjustable speed to synchronize the blender with open mill working speed. Two supporting rolls (grounded and hardchrome plated) shall be provided in front and rear side of the stock blender bar for easy operations and minimum operator involvement after materials loading and homogenous mixing. Supplied with suitable Ac variable speed motor and suitable starter.



REFINER MILL:

In rubber industry, while processing of rubber, there will always be some scrap, which is usually called "waste" to meet breakeven point & for success of every industry, we need to minimize our wastage which is really possible through "SLACH HYDRATECS TWO ROLL REFINER MILLS". Available in phosphorus bronze or anti friction roller bearings & bull gear universal drive. Ideal for breaking vulcanized compounds & washing natural rubber. These models are designed & developed according to customer's specific requirement.



Salient Features:

- 30% - 40% more refining than mixing mills
- Regenerates the tyre and footwear waste.
- Single piece robust base frame construction. Needs no foundation
- Fast, economical and labour saving
- High savings on waste compound reused
- Option of Bull gear and Uni-Dirve Versions.

CRACKER MILL ROLL ACTION



FOOTWEAR & TYRE TUBE WASTE



CRACKER MILL GROOVED ROLLS



Mixing Mill Technical Data

Models	ROLL Diameter(mm) Barel Length (mm)		RPM Front Rear		BATCH CAPACITY (kg)	Drive Motor kw/hp
SHDX-MM 6"x15"	152.4	381	22	24	35-45	7.5
SHDX-MM 8 "x18"	203.2	457.2	20	22	35-45	15
SHDX-MM 10 "x24"	254.0	609.6	18	20	35-45	15/20
SHDX-MM 12 "x30"	304.8	762	16	18	35-45	25/30
SHDX-MM 14 "x36"	355.6	914.4	16	18	35-45	30/40
SHDX-MM 16 "x42"	406.4	1066.8	14	16	35-45	50/60
SHDX-MM 18 "x48"	457.2	1219.2	12	14.5-15	35-45	60/75
SHDX-MM 22 "x60"	457.2	1219.2	12	14	35-45	125
SHDX-MM 26 "x84"	660.4	2133.6	10	12	35-45	250

Dough direct with mixing Mill 35-45 minutes*

Dough comes from Dispersion kneader & Internal Mixer 10-15 minutes.

We reserve the rights to change/modify/upgrade the technical specifcatgion due to continuous R&D

TECHNICAL SPECIFICATION OF SLACH HYDRATECS SHDX-K3-AFRB-UNIDRIVE, BULL GEAR DRIVE REFINER MILLS

MODEL	SIZE (inch)	OD (mm)	LENGTH (mm)	FRONT ROLL	REAR ROLL	CAPACITY (kg/hr)	OPERATION	DRIVE MOTOR (hp)
SHDX-K3	16"x12"x30"	406.4/304.8	762	18	28	70-75	Continuous	40
SHDX-K3	18"x14"x36"	487.2/355.6	914.4	17	24	110-140	Continuous	60/75
SHDX-K3	22"x18"x30"	558.8/457.2	762	15	20	180-225	Continuous	110/125
SHDX-K3	24"x20"x36"	609.6/533.4	914.4	13.5	19	250-350	Continuous	150
SHDX-K3	28"x24"x48"	711.2/609.6	1219.2	11.5	16	375-500	Continuous	200/250

TECHNICAL SPECIFICATION OF SLACH HYDRATECS SHDX-K3-AFRB-UNIDRIVE, BULL GEAR DRIVE CRACKER MILLS

MODEL	SIZE (inch)	OD (mm)	LENGTH (mm)	FRONT ROLL	REAR ROLL	CAPACITY (kg/hr)	OPERATION	DRIVE MOTOR (hp)
SHDX-K3	16"x16"x24"	405x405	610	10	14	350-500	Continuous	60/75
SHKX-K3	18"x18"x24"	455x455	610	10	14	500-600	Continuous	75/100
SHDX-K3	22"x20"x32"	560x510	610	12	16	1600-1900	Continuous	100/125

Note :

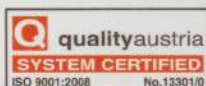
- (1) MODELS CAN BE CHANGED DUE TO CONTINUOUS RESEARCH & DEVELOPMENT
- (2) FULLY P.L.C CONTROLLED MODELS ALSO AVAILABLE.



SLACH HYDRATECS EQUIPMENT P. LTD.

(Formerly Known as SLACH ENGINEERING WORKS PVT LTD)

H.O. & Plant # 1 : 15, Najafgarh Road, New Delhi-110015 • Phone : 25928100, 25928200, 25928300
 Fax : 011-11-25928400 Email : slach@vsnl.com • Website : www.slachhydratecs.com
 Plant # 2 : Plot No. 2, Sector 74, Begumpur Khatola Road xing, Khandsa road, Gurgaon (H.R.)



CALANDER

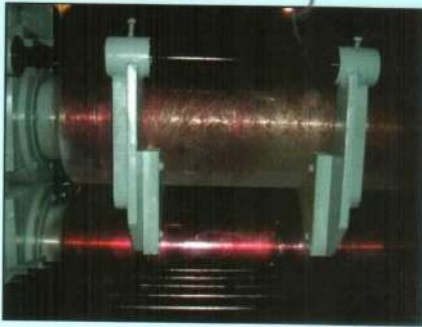
(3/4/5 ROLL)

Calender mainly consist of roller, roller bearings rack, nip adjustment device, transmission system lubrication system, roll temperature adjustment device, security and control systems and other components.

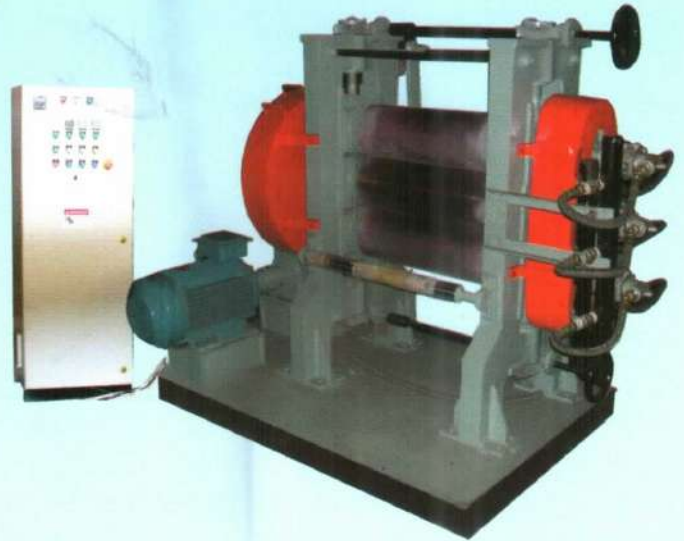
- (1) The roller is hollow type, by steam heating or water cooling, the material is chilled allow cast iron, has high hardness and high abrasion resistance of the working surface after the grinding.
- (2) Transmission system is speed reducer and ratio gear driven by the motor so roller pairs relative to the direction of rotation. The motor is inverter motor the speed of roller is stepless variable which can timely reflect the speed of the roller on the control cabinet.
- (3) Nip adjustment device: lower rollers at both ends each have a set of controllable nip adjustment device and under the control of this device, the roller may be moving in the spout to achieve the purpose of adjusting distance. Each set of nip adjustment device by the reducer through a worm pay deceleration; the transmission screw rotate the nut which fixed on the rack thereby driven roller moving.
- (4) Roll temperature adjustment device: at one end of the machine equipped pipe valve with a thermostat device, open the valve, water or steam via the rotary joint into the roller, the roller is cooled or heated, through the heat exchange of the exhaust gas or vapor administered below the nozzle discharge. If more strict control of temperature, it can plus a thermostat heat exchanger.
- (5) Lubrication system: roller bearings is forced thin oil circulating lubrication, fuel tank filled with lubricating oil and equipped with a spiral cooling tube in order to reduce the oil temperature and ensure the good lubrication of the bearings. The oil pressure is generally adjusted in 0.1-0.2MPa and adjust the pressure through the regulator, the lubrication system set of two filters, unscrew the top cover and take out the filter and clean with kerosene to maintain a smooth flow of clean oil line; ratio gear lubrication is also the oil pump to the oil circulation lubrication; reducer using thin oil nationality gear lubrication oil level should be maintained within the oil gauge scale shown; reducer of the nip adjustment device, when installed in the machine or repair after the first use, should be screwed open box cover at the top of the plug, inject a certain amount of lubricating oil; worm gear box grease plug injected from a tank shell, remove the scale on the top cover, from screw end oil cup inject grease for lubrication screw.

TYPES OF CALENDER

► THREE ROLL CALENDER



STOCK GUIDES



► FOUR ROLL CALENDER



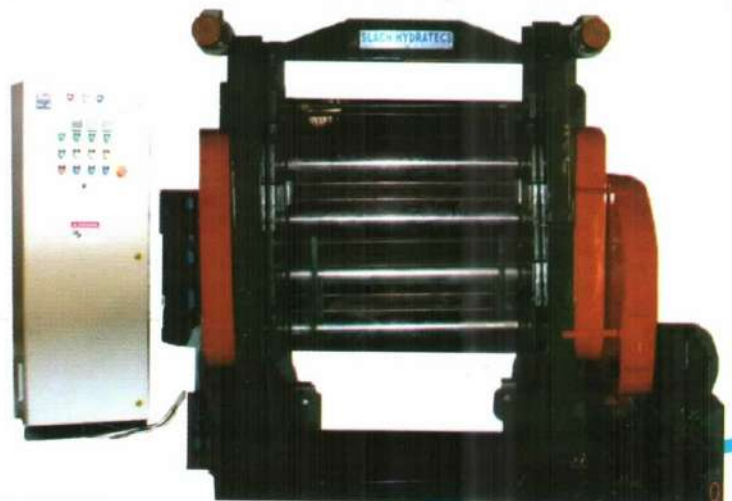
LINEAR POTENTIOMETER



► FIVE ROLL CALENDER



MOTORIZED NIP ADJUSTMENT



Models	ROLL Diameter(mm) Barel Length (mm)		RPM Front Rear		BATCH CAPACITY (kg)	Drive Motor kw/hp
SHDX-CAL 6"x18"	152.4	457.2	12	13	7.5-10	7.5
SHDX-CAL 8"x24"	203.2	609.2	11	12	20-25	15
SHDX-CAL 10"x30"	254.0	762.0	10	11	25-30	20
SHDX-CAL 12"x36"	304.8	914.4	9	10	35-40	30
SHDX-CAL 14"x42"	355.6	1066.8	8	9	40-50	40
SHDX-CAL 16"x48"	406.4	1219.2	7	8	55-70	60
SHDX-CAL 18"x54"	457.2	1371.6	6	7	75-90	75
SHDX-CAL 22"x66"	457.2	1676.4	5	6	90-110	125
SHDX-CAL 24"x72"	609.6	1828.8	4	5	160-180	250