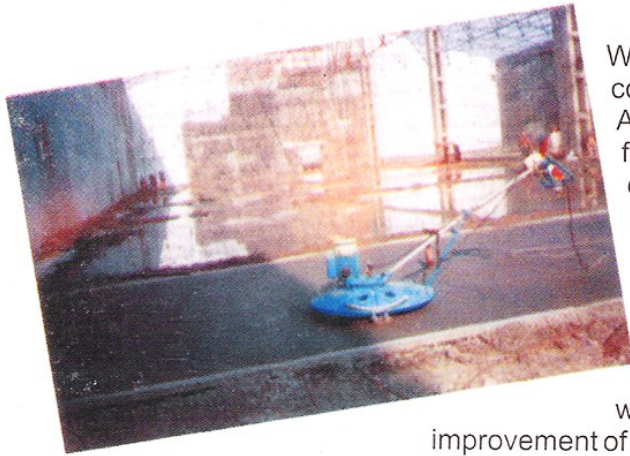


SANA VACUUM DEWATERING SYSTEM FOR LONG STRIP FLOOR CASTING



With industrial revolution all over the world. The floor construction has been one of the Serious Concerns of Architect, Engineers and user, A high quality concrete floor need not only be leveled it should also have a high compressive and should minimum water permeability and should minimize dusting at bare minimum cost. The Sana Vacuum Dewatering System is designed to eliminate the all effects of extra water presence Inside the concrete. Through Vacuum treatment, the surplus water is removed from the concrete ratio is drastically reduced after placing; A lowered water/cement ratio automatically leads to noticeable improvement of almost each of concrete properties.



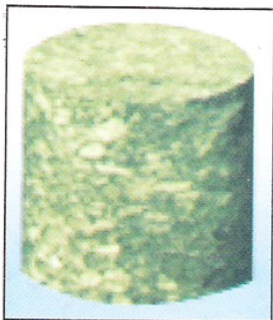
1. FORM WORK

Construction of floor begins with careful preparation. Before casting MS Channel are generally used as form work. They act as a stopper, also as a support for pulling the screed, also as a support for pulling the screed board vibrator.



2. NEEDLE VIBRATION

Once the concrete is poured in panel, it is poked vibrated by needle for compaction stone, gravel and cement.



3. SCREED VIBRATION

Needle Vibration never gives a level surface. but when this type of vibration is combined with screed vibration the concrete surface becomes level and smooth screed vibration ensures over all compaction of concrete.



4. VACUUM PROCESS

The surplus water is extracted out of the concrete by the liquid ring vacuum pump. Vacuum Dewatering lowers the water ration in the concrete by 15-25% which increase the compressive strength and wear resistance of the concrete. Vacuum process takes only 5 minute per inch thickness of the concrete slab. The Concrete is driven and compacted so tightly that a man can walk on the fresh concrete directly after it is vacuum treated.



5. FLOATING

The floating operation takes place immediately after the vacuum Dewatering & later maxing and grinding of cement takes place. The Cement particles are split apart and mixed with the sand particles which gives a very strong and wear resistance surface.



6. TROWELLING

In order further improve the wear resistance and fine finish, the concrete surface is power trowelled.

COMPONENTS OF A SANA DEWATERING SYSTEM



DOUBLE BEAM SCREED BOARD VIBRATOR

Vibro screed is used for leveling as well as compaction of green concrete it consists of high quality steel bar (4.2meter) with of 250 spacing MM in between. Special water protective vibrator motor is mounted in the centre which produces 1830 N centrifugal force which is most ideal for compaction of green concrete. They are also available in different sizes from 2 meter to 5.5 meter.

Model	Length	weight	No. of Bars	Prime Mover	Power Rating
SSY-45	4200mm	79kg	2	Vibratory Motor	1 H.P.



VACUUM PUMP

This is the core of the system. A continuous discharge vacuum pump is complete self contained unit. The unit is mounted on a transportation trolley, 24 Sq. Meter freshly laid concrete can be Dewatered in one single operation with one set mat. The pump is powered by 7.5 HP 3 Phase Electric Motor.

Model	Length	Width	Height	Weight	Max. Dewatering Capacity	Prime Mover	Power Rating
SVP-50	1200mm	500 mm	800 mm	110 kg	30sq.Mt.	Electric	7.5 H.P Motor

FILTER, SUCTION AND TOP MAT

Suction mat is placed directly on the green concrete after vibro screed operation is over. A Special high class nylon filter is fixed on plastic mats which acts a filter during the vacuum operation filter mats in deferent sizes are provided with system. Top mat is provided the junction box and is directly placed on top of filter mat for the purpose of sealing synthetic cloth is used in the top mat it comes in standard sizes of 4x5.5 meter.



POWER FLOATER

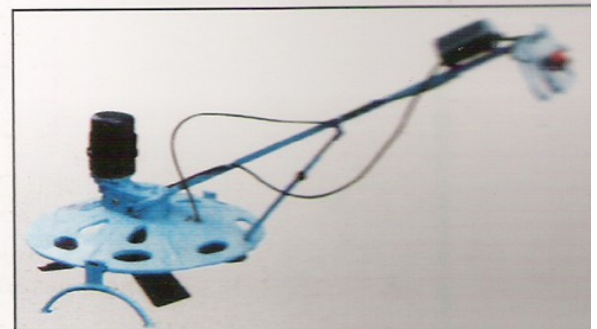
Its is surface grinding equipment powered by 3 H.P. Electric motor through gear box with floating RPM of 130. It grinds the surface to make it wear resistance.

Model	Dia	Handle Length	Handle Height	Weight	Dise Thickness	Prime Mover	Power Rating
SPF-135	1000mm	1600 mm	Adjustable	70 kg	5 mm	Gear Motor	3 H.P

POWER TROWEL

It is surface finishing equipments powered by 3 HP electric motor through gear box troweling RPM of 135. It polishes the surface after floating operation and 3 to 4 passes are required for giving fine finish to the floor.

Model	Dia	Handle Length	Handle Height	Weight	Dise Thickness	Prime Mover	Power Rating
SPT-140	1000mm	1600 mm	Adjustable	70 kg	3 mm	Gear Motor	3 H.P



SANA CONCRETE / ASPHALT CUTTER

Sana groove cutting machine is ideal equipment for cutting the hard concrete for expansion joints. Dummy joints (Shrinkage Control Joints). Asphalt pavement cut. Light in weight makes it easy for one operator to handle easily, gives accurate require depth cut as control mechanism is fitted in the machine, water spray attachment, powdered by electric motor, water pump optionally, as per required.



Model	Weight (Approx)	Minimum water	Maximum Depthcut	Width of Cut	Prime Motor	Power Rating	Diamond Blade
CC-300	90 kgs.	5 Lit/Min.	30 mm	3 mm	Electric Motor	5 HP	300 mm/12" inches
CC-350	150 kgs.	8 Lit/Min.	75 mm	4 mm	" "	7.5 HP	350 mm/14" inches
CC-400	165 kgs.	10 Lit/Min.	100 mm	4 mm	" "	10 HP	400 mm/16" inches
CC-450	210 kgs.	12.5 Lit/Min.	125 mm	4 mm	" "	12.5 HP	450 mm/18" inches
CC-500	250 kgs.	15 Lit/Min.	150 mm	4 mm	" "	15 HP	500 mm/20" inches
CC-550	275 kgs.	18 Lit/Min.	200 mm	4 mm	" "	20 HP	600 mm/24" inches



Sana



SANA BAR CUTTING MACHINE (HYDRAULIC)

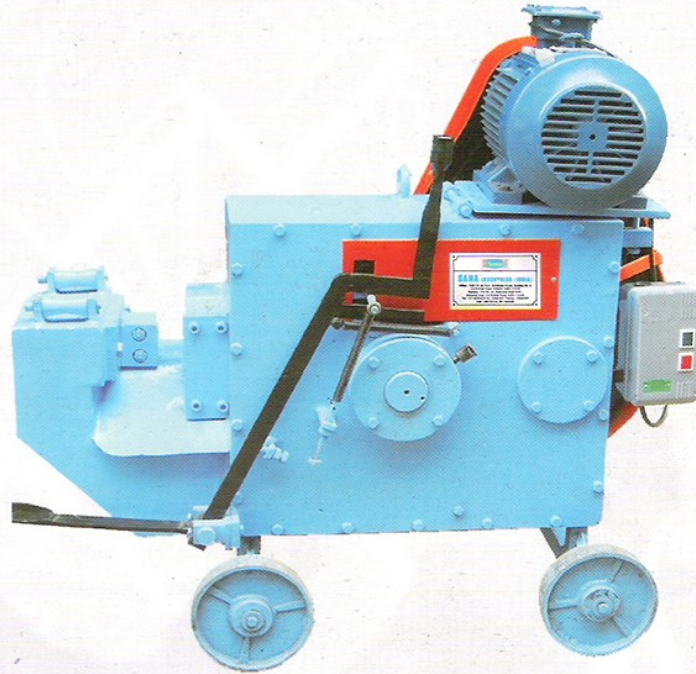
Features :

- Six times more productive than manual work.
- Reduction in Labour force and construction cost.
- Designed for avoiding any trouble & to work continuous.
- Extra ordinary ease of operation.
- Low operation height.
- Multi-edge cutting blades.

Model No.	Make	Bending Capacity	Dimensions	Prime Motor	Weight	Blade Size	Cutting Stroke	Main Body	Operate By
SBCM-85	Hydraulic	8 to 32mm	L x W x H 1375 x 600 x 900mm	5 HP 3Phase	500 Kgs.	100 x 70mm	6 Sec.	MS Steel	Hand/Foot
SBCM-90	Hydraulic	8 to 42mm	L x W x H 1400 x 630 x 950mm	7.5 HP 3Phase	550 Kgs.	100 x 70mm	5 Sec.	MS Steel	Hand/Foot



Sana



SANA BAR CUTTING MACHINE (MECHANICAL)

Model No.	Make	Bending Capacity	Dimensions	Prime Motor	Weight	Blade Size	Cutting Stroke	Main Body	Gear Box	Operate By
SBCM-95	Mechanical	8 to 42mm	L x W x H 1250 x 650 x 1050mm	7.5 HP 3Phase	650 Kgs.	75 x 65mm	5 Sec.	MS Steel	Heavy Duty	Hand/Foot



Sana

SANA[®] INDUSTRIES (INDIA)

109/110, 1st Floor, Syndicate House, Building No. 3, Old Rohtak Road, Inderlok, Delhi-110035

Tel. : 011-65904281/82, 23640365 Telefax : 23640320 Cell 9891007002, 9811328586

Website : www.sanaindustries.com / E-mail : sanaindustries@yahoo.co.in

Factory : Plot No. 86, Shahzada Bagh Extn., Industrial Area, Old Rohtak Road, Delhi-110035

SANA VIBRATORY PLATE EARTH COMPACTOR

These are self propelled, light in weight and compact machines having high forces, low amplitude and high frequency, based on the principle of reciprocal pressure generation by frequency un directional impulse vibrator which causes the ramming and forward movement, Sana Earth Rammer can compact thicker layers of non-cohesive and semi-cohesive soils and maximum density (95% to 98%) are achieved in less number of passes. Application non-cohesive soil, subgrades, maneuvers close to abutments retaining walls, pilling, ideal for key trenches, cannel embankments, back fill jobs, factory floor, foundations, bridge approaches etc.



Model	Weight (Approx)	Impact Force	Compaction Capacity	Vibrating Frequency	Prime Motor	Power Rating	Plate Size	Working Capacity	Depth Effect
VER-3	90 kg.	950 kg.	1 to 2 Ton	3500 PM	Electric	3 HP	14x24 Inch	3000 Sqr./H	4 inch
VER-5	210 kg.	3500 kg.	4 to 6 Ton	2500 PM	Electric	5 HP	20x32 Inch	3000 Sqr./H	7 inch
VER-7	300 kg.	4500 kg.	8 to 10 Ton	3000 PM	Electric	7.5 HP	20x38 Inch	5500 Sqr./H	10 inch

WHERE ARE YOU



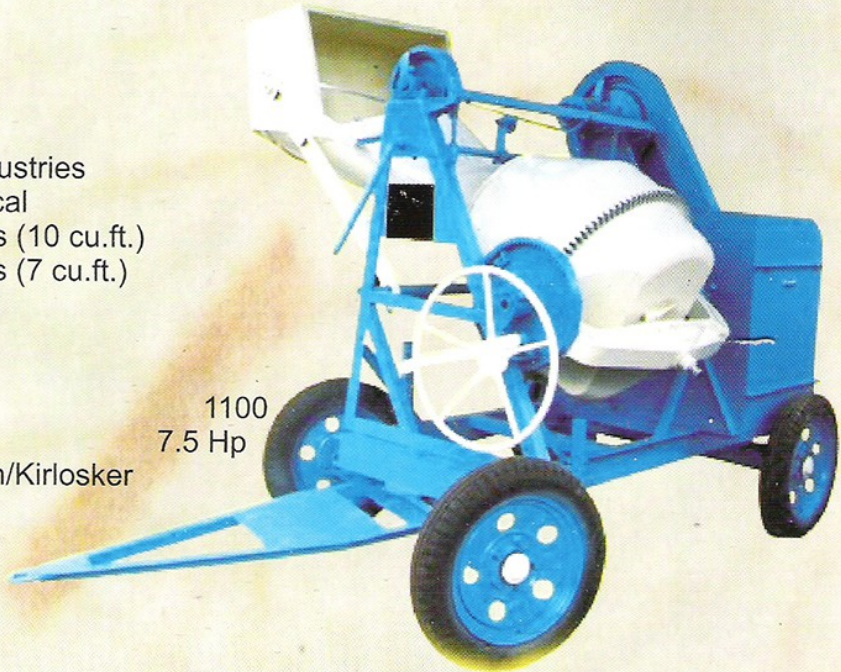
WILL BE THERE

Hooper Fed Concrete Mixture (Full Bag)

MODEL : SI - 200 Litres, CAPACITY : 280/200 Litres (10/7 CFT.)

Specifications

Make	: Sana Industries
Type	: Mechanical
Unmixed Capacity	: 280 Litres (10 cu.ft.)
Mixed Capacity	: 200 Litres (7 cu.ft.)
Drum Thickness	:
Bottom	: 10 mm
Middle	: 8mm
Top	: 6mm
Weight (Approx.)	: kgs.
Power	: Crompton/Kirlosker
Standard	: IS
Tyre	: 5"x19"



Hooper Fed Concrete Mixture Hydraulic

MODEL : SI - 200 Litres, CAPACITY : 280/200 Litres (10/7 CFT.)

Specifications

Make	: Sana Industries
Type	: Hydraulic
Unmixed Capacity	: 280 Litres (10 cu.ft.)
Mixed Capacity	: 200 Litres (7 cu.ft.)
Drum Thickness	:
Bottom	: 10 mm
Middle	: 8mm
Top	: 6mm
Weight (Approx.)	: kgs.
Power	: Crompton/Kirlosker
Standard	: IS
Tyre	: 5"x19"



Manual Fed Concrete Mixture

MODEL : SI - 140 Litres, CAPACITY : (7/5 CFT.)

Specifications

- Batch Capacity : 140 Lts. (7/5 cft.)
- Transmission : Drive from the engine is provided with roller chain & machine cut sprockets.
- Power Requirement :
A : Diesel : 5 HP 1500 RPM. Air or Water cooled.
B : Electric : 5 HP 3 Phase 1500 RPM
A.C. drive Electric motor with starter.
- Handling : Pneumatic tyre with roller bearing with excel shaft.



Weigh Batcher



Specifications

- Capacity : 2 Hoppers of 250 kg capacity each to receive sand metal.
- Chassis : Heavy duty robust made out of heavy steel section.
- Transmission : By mechanical joints provided with dust covered bearings.
- Weighing System : Pan weight of 50 and 100 kg and jockey weight to adjust the weight from 0kg to 50kgs.