

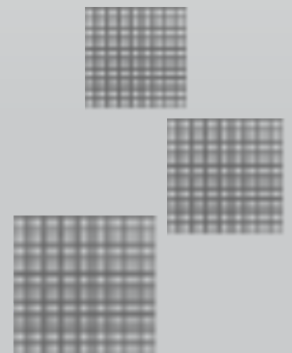


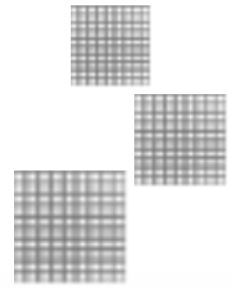
**Results, Reliability &
Rock solid dependability**



Range of Machines

- Line Polishing Machine
- Granite Bridge Multi Block Cutter
- Gangsaw Machine
- Gantry Cranes
- Multi Slab Resin Line
- Overhead Water Filter Plants & Filter Press
- CNC Bridge Cutters
- CNC Multi Wire Saws





Laxmi deep Industries Pvt. Ltd. is a group of highly experienced engineers of every technical solution, More than 30 years of experience in marble, granite processing and handling machineries. In a competitive market wherein leadership in the field is a frequent claim of every manufacturer. Laxmi deep Industries Pvt. Ltd. is content fo let the customer be the judge of the quality by performance, integrity and enduring functionality of its machineries.

Laxmi deep Industries Pvt. Ltd. is situated in Chittorgarh, Rajasthan, India. Chittorgarh is well know as one the most important center of marble, granite and stone products exploitation and processing in India. Laxmi deep Industries Pvt. Ltd. offers an outstanding range of machineries in granite and marble processing cycle, including Gang Saws, Cutting Machine and Slab Polishing Lines etc. During the past twenty five years, the company has held and reached the change of industrial structure. The pioneering, latest technologies and demands of customers are always reflected on the products manufactured by the company..

All field engineers like mechanical, electrical and instrumentation are the strength of our organization. Fully equipped workshop and skilled manpower to make and repair any type of machines as per requirement. Complete team for fabrication and erection of machine and plant. jobs on site.

Having a full fledged production unit spread at 8000 sq. m & 2400 sq.m with most modern equipments, state of the art engineering and assembly department. Fabrication yard, tool room section, machining department, design department and administrative office with worldwide connectivity. Laxmi deep Industries Pvt. Ltd. has become a company of repute due to engineering excellence, professional attitude, team spirit, clear objectives and well defined goals.



Granite & Marble line polishing machine



No of polishing heads	7 to 20 heads
Polishing width of slabs	1000mm to 2200mm
Power per heads	5.5 KW -15 KW
Beam swing speed	0-13 m/min
Beam motor	3.7 KW - 5.5 KW
Belt speed	0.5 - 4.0 m/min
Belt motor	1.5-2.2 KW
Air supply pressure	0.7 mpa
Water consumption per head	25 l/min
Weight approx.	9000/30000 kg

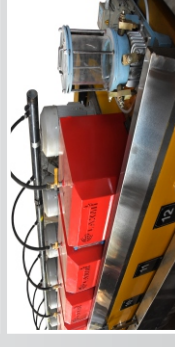


Granite & Marble line polishing machine

The machine is suitable for polishing granite marble & stone slabs. PLC system and Liquid Crystal Display screen menu offer intelligent and precise control. Established auto dodging function, shape memory function and abrasive consumption equipment which has high automation operation and lower labour strength. Flexibility of polishing heads. high quality construction, rational structure, high fitness reduce movement consumption and enhanced longer life. The machine can be designed according to clients requirements. Like Nos. of heads, processing width and length.

Salient features

- HMI displays power consumption and production of total machine, also displays per slab and per shift production and power consumption
- Slab size auto reading
- Auto bridge movement according to slab width
- Machine goes in idle move when no slab in the machine
- Auto lubrication system with PLC Control
- Auto distance setting between slabs
- Alarm for any fault detection for bridge and conveyer
- Bridge stop instantly in case of power failure
- Heads goes up in any fault condition
- Auto stop in failure of air and water supply break
- Grease bottles for grinding & polishing heads show lubrication level in grinding & polishing heads which saves heads from maintenance
- Bridge moves on roller LM guide gives smoothness
Low maintenance and easy replacement

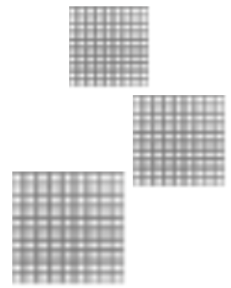


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Engineers & Traders



Bridge Multi Blades Block Cutter



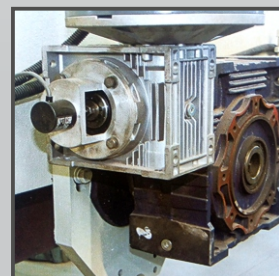
Laxmi-BL-Twelve



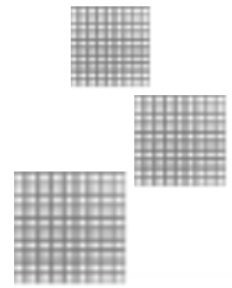
Safety Covers



Hardened Pistons & Oil less Bushes



Accurate shifting

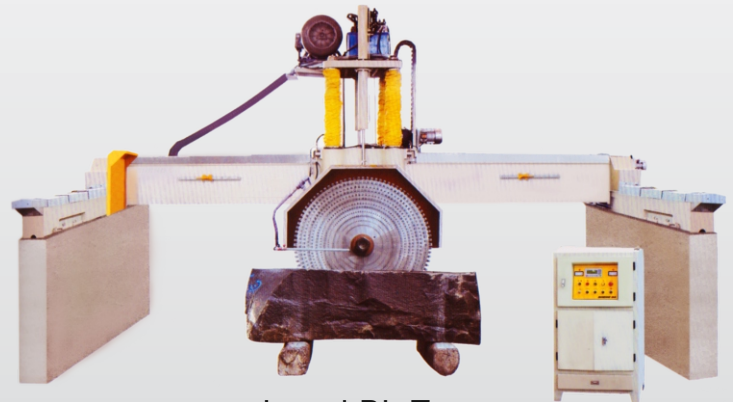


Bridge multi blades block cutter

There are two models available. Model Laxmi-BL-Twelve and Laxmi-BL-Ten. Different diameters of blades working simultaneous as multi blade cutting, Both options are available. Screw-rod lifting system and hydraulic lifting system. The cross beam moves for feeding, so the table for block is not necessary. Heavy duty structure, logical control system. Ease of operation gives high production. Finish slab with flat surface, no taper. It is so flexible to modify in single, five or seven blades cutting.

Salient features

- HMI shows production and power consumption of total machine, also show per block and per shift production and power consumption
- Auto feed adjustment as per cutting load for high efficiency, low maintenance and increase blade segment life
- Smooth and fast bridge movement for high production and low maintenance
- All six axes have safety system
- Auto lubrication system
- Four pistons type up down with oil less bushes for smooth updown, long life & easy replacement
- Alarm for any fault detection
- Machine instantly stop in case of power failure
- Auto stop in failure of water supply
- Motorized trolleys for low labour and fast loading



Laxmi-BL-Ten

Model	Laxmi-BL-Twelve	Laxmi-BL-Ten
Technical Data		
Max diameter of blades	2500/3000	2500
Max no. of blades	Twelve/Seven	Ten
Blade Thickness	6.5mm/ 7.2mm	6.5mm
Main motor power	55 Kw(960 RPM)	55 Kw(1440 RPM)
Cutting Length (Max.)	3700 mm	3700 mm
Cutting width (Max.)	2500 mm	2200 mm
Cutting Height (Max.)	1100mm/1300mm	1100 mm
Machine Body Structure	M.S+C.I with 4 Piston	C.I with 4 Piston
Machine Size (LxWxH)	10 x 5.5 x 9 Mtr.	8 x 4.5 x 8 Mtr.
Weight Approx.	24000 Kg.	16000 Kg.

Resin Line Machine



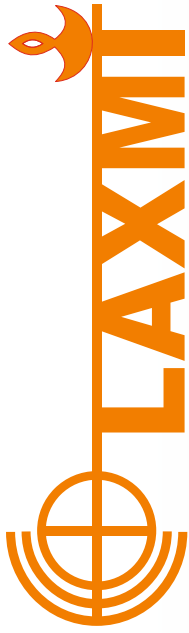
Ladder for loading - unloading slabs



Loading- unloading from one side



Blower & Heater bank



Resin Line Machine

To make the resin harden properly and in reasonably short time, suitable ovens are necessary. The oven polymerization (solidification) is the most important component of Resin line, since the positive result of the entire process depends on its effectiveness. We have designed truly unique polymerization unit. It is equipped with gas & electrical heating system that generates warm air flows which make the resin harden uniformly upon the surface of the slabs. The polymerization unit of Laxmi Resin Line boasts of a huge stocking capacity as per requirement so that after the fiber-nethas been position and the resin has been laid, material stay inside them for a long time. It is indeed advisable to keep the stone in the oven for two hour at least. The inner temperature of the ovens can be freely adjusted according to the type resin that has been used. Vacuum Treatment: The smallest stone defects are often hard to be resin-filled. We refer the so called "Micro-cracks" "micro-fissures" and "diagonal narrow veins". In order to improve the resin penetration inside all the cavities, the vacuum technology represent a valid solution. The Vacuum chambers are auxiliary machines designed to impregnate with resin on thickness. Once the resin has been applied onto the slabs and strips surface, the conveyor tray enter one by one inside the vacuum chamber, the doors of which continuously shut and re-open. when the doors are shut, a vacuum pump sucks out the air from the chamber. during the generation of vacuum the resin laid on materials surface is pushed with violence against the slabs of the strips and consequently its structure that allow to fully exploit the potential of the vacuum generated by the pump.

Unloading Operations

Resin lines can be alternatively equipped with a Tilting hydraulic bench. An operator has to take the processed materials with a "hoist and clamp lifting set" connected to a Jib-crane and so to remove on the plan of Tilting bench which holds a conveyor tray.

Salient features

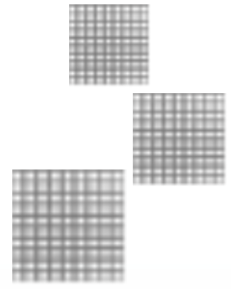
- HMI shows production and power consumption of total machine, also show per block and per shift production and power consumption
- High production with low power cost, low labour cost and space in reasonable price
- Complete auto cycle
- Over heat safety for heater bank
- Temperature setting in PLC-HMI
- Earth leakage safety
- Input and output slab indication
- Immediate stop & alarm for any fault detection
- Machine start from same place in case of power failure
- Auto stop in air blower failure



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Over Head Water Filter Plant

Slurry water treatment plant for filtration and re circulation of water in the sawing operations in stone quarries. Steel fabricated water sedimentation tanks ensure crystal clear filtration and re-cycling of water, which is mixed with marble slurry, hence keeping the environment pollution free. Supply of clean water to the machine enhances fast cutting of stone as well as more production and tool life. The process of filtration involves the collection of slurry mixed water from the machine in an underground tank. Here water is chemically treated by injecting chemical, through a state of the art dosing pump for separation of water from slurry. Then chemically treated water is pumped through heavy duty slurry pump to conical tank. Here the slurry settles down in the cone of tank and clear water over flows in another tank, which supplies clear, slurry free water to the machine. The deposited slurry in conical tank is removed through a heavy duty sluice valve at the bottom of the tank, directly into truck tanker for disposing slurry at prescribed site, in order to maintain pollution free environment. Filter press which totally separates water from slurry can be attached on out let of conical tank on request. Size of plant depends on customers requirement.



Filter Press

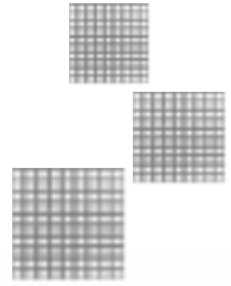


Filter Press is a separation process, specially employed by solid/liquid separation using the principle of pressure drive, provided by a slurry pump. filter press is a fixed volume and batch operation, which simply means that the operation must be stopped to discharge the filter cake before the next batch can be started. The major components of filter press are skeleton and filter pack, The skeleton holds the filter pack together while pressure is being developed inside filter chamber. It however can only hold a specific volume of solids. Size of the machine depends on its requirement and applications, Other some changes can be done according to users requirement.

ETP Plant Specifications

Conical Tank	In this tank water moves such a manner with coagulant which sets slurry fast in conical tank and transfer fresh water to nearby fresh water tank
Fresh Water Tank	This tank is used to distribute water to the machine without electric motor through gravity force due to height of tank
Valves	Valves used for to use water as per requirement
Slurry water pumps	One pump used to lift slurry water to the conical tank
Agitator tank	Agitator tank is used to send slurry water to the slurry separator machine
Feed Pump	Feed Pump is used to feed slurry to water to the slurry separator machine
Slurry separator machine	Slurry separator machine is used to separate slurry from slurry water, dry slurry automatic drop down in trolley and fresh water again goes to the machine for re use.
Control panel	Fully automatic control panel to run the plant with all safety devices

Old System	New ETP Plant
Slurry water filled in tanker to throw contains 50% slurry and 50% water. Which increases pollution because slurry went with water and make nearby environment polluted	Dry slurry drop in trolley contains 5% water only. Dry slurry can be used in many things which saves environment
Slurry water drop in duping pits which has no use and increase pollution	Dry slurry can used in filling bricks or tiles manufacturing and solve dumping pits problems.
Separate water pumps used in every machines for processing which run continue	Water goes with gravity force to all machines automatically and saves electricity, maintenance cost and environment
Dirty water increases production cost because of low tools life	Tool life and production cost decreases because of clean water
About three labours are used to fill slurry water in tanker and its risky job	It is automatic and easy process. One man can run this plant
Needs water tankers or bore water to fulfil water goes with slurry water in tankers	Very low quantity of water required because on 5% of water wastage. It saves electricity, labour and nature



Gantry Crane



The structural frame of Gantry Crane consists of two load bearing box beams fabricated out of steel plates with inner stiffening ribs. The beams are connected together through end boxes and supported by beam on both side with tie beam, The lifting trolley is a sturdy frame of channel section stiffened with ribs and plates, The load lifting is achieved through a rope drum coupled to gear box, motor and wire rope through control panel and locked electrically and mechanically, proper limit switches placed accordingly. The material used are of the highest quality and consistent good performance along with proper safety regulations are chief features of our cranes in every sphere of operation and area

Technical Specifications

Type	Double beam gantry crane
Capacity	25/100 tons
Span	8 mtr. to 20 mtr. as per requirement
Height of lift	6 mtr. to 10 mtr. as per requirement
Operation	Floor operated/ wireless remote
Cross travel speed	8 to 10 mtr. / min
Cross travel motor	2 Hp to 7.5 Hp
Hoisting motor	15 Hp to 60 Hp
Hoisting speed	2 to 3 mtr./ min
Long travel motor	2 Hp. to 7.5 Hp.
Long travel speed	8 to 10 mtr./min

Industrial factory sheds, Over head travelling cranes and Zip cranes



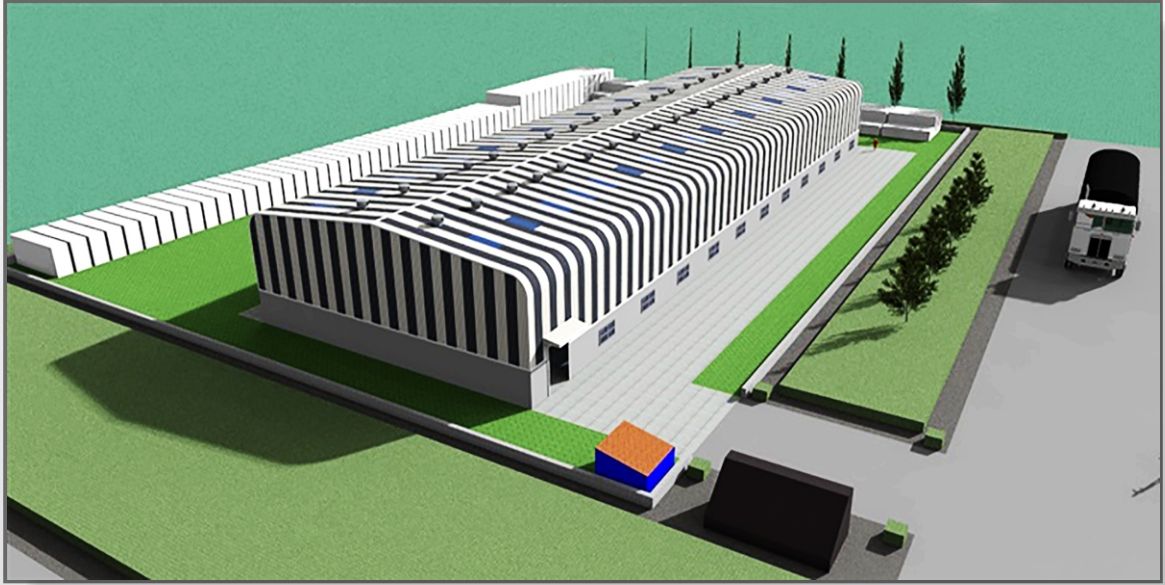
Sheds are available in large spans multi spans lean to roof at all required heights and side daddings. We also provide fibreglass insulation and variety to accessories such as skylights, roof vents, louvers, sliding doors and windows. The sheds have following: It is light weight in comparison to conventional structures but equally strong to withstand severest weather conditions. These shed can be resold if required and hence 100% cost of the shed may be recovered. Dismountable and relocatable. Aesthetically superior to any other conventional sheds with low maintenance cost. Customer has large choice of sheet material to choose and suit their budget as well as requirement such as pre coated sheets. gi sheets, fibre sheets and as sheets. Over heads cranes and zip cranes with different models and capacity are also manufactured as per requirements.

Salient features

- Fabrication work of shed done with CNC cutting and automatic welding machine
- We design sheds as per customer requirement and according wind force of that area
- PPGI color coated sheets with required color & thicknes
- Fabrication and erection at site with skilled engineers
- Epoxy based primer and paint on structure
- Manufacturing bird free sheds
- We can provide 1 ton to 60 ton capacity EOT cranes for transporting material in shed
- Single and double beam both type EOT as per requirement
- Crane equipped with double speed (slow & fast), VFD for all moves for smooth run, supply bus bars, platforms, quality gearboxes etc
- Canopy on gates & roof air exhaust fan cooling ventilator as per required



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