



The Trusted Name in
Construction Equipment & Machinery



Dear Sir,

We would like to introduce ourselves as a leading company in manufacturing of construction equipments. **Cosmos Group** was established in 1981 by Mr. Janak Shah who is the founder of the company.

The company is devoted and engrossed in manufacturing construction machinery in last 2 decades has designed and developed various construction equipment to reach customer satisfaction. We also export our products to various countries.

In this oceanic field of construction we have earned trust and appreciation by winning many precious awards. We have put our incessant efforts in products development, quality control & efficient after sales service at sites / Projects.

Our strength is our work force, well trained and backed up by innovative qualified engineering staff.

The company has a facility to manufacture various types of construction equipments. We can also manufacture equipments as per the design provided by the customers.

For more details please visit our site www.cosmossales.com

Yours truly,

For **Cosmos GROUP**,.

Janak Shah



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Specifications

	Casting Type	M. S. Type
Type	Tilting Type	Tilting Type
Drum Capacity	Unmixed 10 cft. Mixed 7 cft.	Unmixed 10 cft. Mixed 7 cft.
Drum Speed	18 RPM	18 RPM
Concrete Mixing Time	180 Seconds approximate	180 Seconds approximate
Prime Mover	6 H.P. Air cooled diesel engine or 5 H.P. 3 phase electric motor.	6 H.P. Air cooled diesel engine or 5 H.P. 3 phase electric motor.
Overall Dimensions	L-3400 x W-2800 x H-3500 m.m.	L-2900 x W-2200 x H-2700 m.m.
(Antivibration Pad)	Yes	Yes
Transportation	Pneumatic wheels	Pneumatic wheels
Mechanical	Clutch Drive	Clutch Drive
Drum	Casting Material	M. S. Material
Yoke	Casting Material	M. S. Material
Wripe Rope Drum	Casting Material	M. S. Material
Dimensions	L-2900 x W-2000 x H-2600	L-2900 x W-2000 x H-2600

10/7 Hydraculic with casting body - C. B. - 10/7 Sheet Metal - S. M. - 10/7



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Overall Dimensions	L-3400 x W-2800 x H-3500 m.m.	L-2900 x W-2000 x H-2600 m.m.
(Antivibration Pad)	Yes	Yes
Transportation	Pneumatic Or M. S. Wheels	Pneumatic Or M. S. Wheels
Skip	Hydraculic	Hydraculic
Drum	Casting Material	M. S. Material
Yoke	Casting Material	M. S. Material
Dimensions	L-2900 x W-2000 x H-2600	L-2900 x W-2000 x H-2600

10/7 Without Hopper

Mixer



Technical Specifications

Specifications	Unit	10/7 Without Hopper
Drum Capacity	Cubic feet / Liters	10/283
Mixed	Cubic feet / Liters	7/198
Drum Speed	RPM	18
Prime Mover	Diesel Engine	6 Hp Air Cooled
	Electric Motor	5 Hp. 3 Ph.
Antivibration Pad	No's	Optional
Transportation	Pneumatic Wheels	4
Skip Operation		N/A
Drum	Mild Steel or Casting	
Yoke	Mild Steel of Casting	MS/Casting
Wire Rope Drum	Mild Steel of Casting	N/A
Wire Rope Drum	LXWXH in Meters	2.9x2x1.5

½ Bag Tilting Mixer

Cosmos make half bag mixer has compact body attached with two pneumatic wheels for easy transportation from floor to floor.



	½ BAG TILTING
Type	Tilting Type
Drum Capacity	90 Ltrs
Drum Speed	18 to 20 RPM
Concrete Mixing Time	180 Seconds approximate
Prime Mover	2 H.P.1 phase electric motor
Drive	Belt
Wheels	Pneumatic 2 Nos
Dimensions	L-1600 x W-920 x H-1500mm

½ Bag Portable Mixer

This machine is very compact. Hence gives better operating service. It is easier to carry the machine at various floors due to light in weight.



	DIESEL
Type	Tilting Type
Drum Capacity	90 Ltrs
Drum Speed	18 to 20 RPM
Concrete Mixing Time	180 Seconds approximate
Prime Mover	3 H.P. Air Cooled
Wheels	M.S.4 Nos
Dimensions	L-1600 x W-920 x H-1500mm

	PORTABLE
Type	Tilting Type
Drum Capacity	90 Ltrs
Drum Speed	18 to 20 RPM
Concrete Mixing Time	180 Seconds approximate
Prime Mover	2 H.P.1 phase electric motor
Drive	Belt/Chain
Wheels	M.S.2 Nos
Dimensions	L-2200 x W-900 x H-1300mm



Pan Type Mixer

A typical Design to mix fly Ash, Grit Cement & Small Granules. The proper mixing for quality Bricks & paving blocks is done by using this machine. Stirrer type blades & rollers are provided to achieve the function. Heavy structural steel used for high Durability.

	1 BAG CAPACITY	½ BAG CAPACITY
Power	7.5 phase crompton motor	3 HP Single phase motor
Capacity	300 kgs.	150 kgs.
Blade & Roller	Stirrer type	Stirrer type
Transmission	Mechanical Gear Box	Mechanical Gear Box
Discharge	Lever Type	Lever Type
Pan Size	6 ft. Diameter	3 ft. Diameter
Base	Heavy Structural Steel	Structural Steel



Weigh Batcher

Level type concrete batcher is useful device for weighing for production of controlled concrete, mounted on a robustly fabricated chassis of heavy steel section with four M. S. Wheels. Lever mechanism is suitably designed with bearing for proper weighing. Discharge chutes provided with hoppers are suitably designed for quick discharge of the aggregate in the mixer hopper. Suitable design for M15. M20. M25 & M30.



	Singe Bag 500 kg	Double Bag 1000 kg
Type	Scale / Pan type without spring and dial.	Scale / Pan type without spring and dial.
Capacity	250 kgs. each hopper (500kgs.)	500 kgs. each hopper (1000kgs.)
Jockey weight	Jockey weight & dead weight is adjustable to keep least count tp 1/8 cm.	Jockey weight & dead weight is adjustable to keep least count tp 1/8 cm.
Mechanism	Lever type	Lever type
Size	L-2000 x W-1350 x H-1900	L-2000 x W-1350 x H-1900

Mixer



Adding a Cosmos reversible mixer or mobile mini batching plant to your fleet of construction equipment is sure to take you forward in business. Its heavy-duty robust design, powerful motor and high durability roller make your work more efficient and more cost-effective. Taking you ahead of the competition!



CRM 400

CRM 600

CRM 1000

Features :

- Digital weighing system
- Centralized lubrication system
- Frame and chassis in tube structure
- Robust and longer life
- Extremely low maintenance
- Efficient design
- Foot-cum-flange 10 HP x 960 RPM motor
- Direct drive hydraulic pump
- Steel casting rollers
- Single stage reduction of drive
- Mild steel casting rollers
- Direct drive motor
- Optional - Printing system, sound/ light indication

Technical Specifications

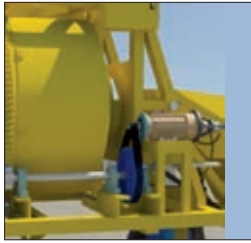
Specifications	Unit	CRM 400	CRM 600	CRM 800	CRM 1000
Output	Cubic meter/hr	8	12	15	20
Electric Motor	H.P.	7.5	10	15	20
Capacity Unmixed	Liters	500	900	1000	1400
Capacity Mixed	Liters	400	600	800	1000
Drum Dia.	Millimeters	1300	1300	1600	1600
Drum Length	Millimeter	1830	2000	2200	2680
Drum Rotation Speed	RPM	19	19	19	19
Mixing Blade	No's	8	8	8	8
Frame & Chassis	Mild Steel	ISMC	Tube	Tube	Tube
Pneumatic Wheels	No's	4	4	4	4
Loading	Hydraulic	*	*	*	*
Weighing System Load Cell	No's	3	3	3	3
Hydraulic Fluid	68 grade	*	*	*	*
Hydraulic Tank	Liters	60	60	60	60
Hydraulic Pump	Pressure Bar	207	207	207	207
Water Dispenser	Electronic	*	*	*	*
Machine Legs	Mild Steel BoxSection	4	4	6	6
Drum Guide Roller Mild Steel	No's	3	3	5	5
Dimensions	L x W x H in Meters	4.2 x 2.1 x 2.7	4.94 x 2.1 x 2.7	5.5 x 2.2 x 3.1	5.5 x 2.2 x 3.1

* = ☒ available

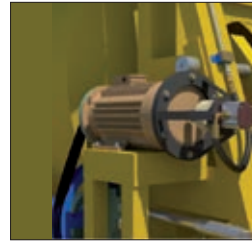


Cosmos Reversible Mixers comes with the following advanced features

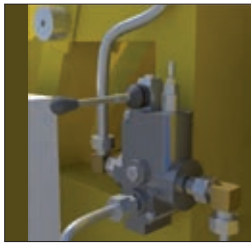
Batching Plant



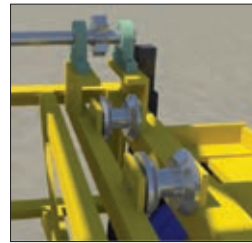
Single Step Rotation of Drive:
Single step reduction helps you to reduce your expenditure on maintenance and spares, and ensures smooth and powerful operations.



Direct Drive Motor:
Direct drive motor provides more power, reduces frictional losses and maintenance of your machine! Operate without worry!!



Hydraulic Directional Pressure Relief Valve offers smooth operations consistently and at low costs.



Mild Steel Casting Rollers:-
Mild steel casting rollers ensure longer life and less wear and tear to you.



Strong "A" frame chassis with double layer design ensuring robust structure.

COSMOS CRM is best suited for



Civil Contractors



Extremely Changing Sites



Residential & Commercial Uses



Mobile Batching Plant With Twin Shaft

Batching Plant

Features:

- Stationary & Mobile Batching Plant
- Available in auto, semi-auto, manual mode
- Highly efficient & robust
- Compact in size



Specifications :

25 M3 MACHINE PLANT		
Length	MM	9400
Width(mm)	MM	3037
Height (mm)	MM	3923.5
No. Rear Axle		1
No of Front Axle		2
No of Wheels		6
Rim with Tyre		7:00 - 15"

CONTROL SYSTEM	
Type	PLC Based
	Easily shift the plant from one site to another
	Compact in size for easy manoeuvrability
	No need of PCC foundation

WATER SYSTEM		
Tank Capacity	Lit	1000
Load Cell	No	2
Weighing Water Tank Capacity	Lit	250
Load Cell	Yes	Yes

COMPRESSOR		
Make		KND
Model		SPD 15 Double Cylinder
Motor	HP	3 Hp 1440 Rpm, 3 Phase
Tank	Lit	210

SCREW CONVEYOR		
Angle of Repose	Deg	30
Deg of Inclination	Deg	45
Screw Diameter	MM	168
Pitch	MM	168
Conveyor Length	MM	4060
Power	HP	5

MIXER		
Type of Mixer		Twin Shaft
Capacity	MM	0.5
Power	Motor	25Hp, 1440 RPM, 3 Phase, zFoot Mounted 180M Frame Size

AGGREGATE HOPPER		
Aggregate Types	Inline	04
Max. Size of Aggregate	MM	40
Compartment Bin Capacity	Cum	14(extendable use of hinge doors)
Hopper Layout		Inclined Inline
Hopper Filling System		Loader Operated
Load Cell	No	04

ADMIXTURE SYSTEM - OPTIONAL BELT CONVEYOR		
Charged Conveyor		1000 x 7550
Operating Condition		
Load Carrying Capacity	Kgf	800
Layout Dimension		
Distance	MM	7550
Width	MM	1000
Power / Electric Motor		
Mixer Charger Conveying Power	Kw	3.7 Kw, 1/30 ratio,
	Kw	3 Phase Motor
Discharged Conveyor	MM	7.5 Kw
Discharge Height	Deg	1850
Discharge Inclination Angle	MM	12
Discharge Conveyor Length		8000

Inline Batching Plant With Twin Shaft

Batching Plant

Also Available with Silo



Technical Specifications of Plant

Model & Capacity			
Item	30 M3	20 M3	15 M3
Twin Shaft single motor	40HP	25HP	20HP
Mixer	MODEL CTS750	MODEL CTS500	MODEL CTS350
Agg conveyor	12.5HP, Belt Conveyor	12.5HP, Belt Conveyor	12.5HP, Belt Conveyor
Skip	10HP Break Motor, Loading 1300 Kg	10HP Break Motor, Loading 1000 Kg	10HP Break Motor, Loading 1000 Kg
Cement fill	WAM Screw Conveyor 10HP (5 HP OPTIONAL)	WAM Screw Conveyor 10HP (5 HP OPTIONAL)	WAM Screw Conveyor 5 HP
Fly Ash fill	WAM Screw Conveyor 10HP (7.5 HP OPTIONAL)	WAM Screw Conveyor 10HP (7.5 HP OPTIONAL)	WAM Screw Conveyor 7.5 HP
Cement discharge system	Butter fly valve (5HP SCREW CONV.OPTIONAL)	Butter fly valve (5HP SCREW CONV.OPTIONAL)	WAM SCREW CONV.5HP
Compressor	210 Ltr, 3HP Motor	210 Ltr, 3HP Motor	160 Ltr, 3HP Motor
Water Filling	Greaves Pump with 2 HP Motor	Water Pump with 2 HP Motor	Water Pump with 1 HP Motor
Admix Filling	Chemical Pump With 0.5 HP motor	Chemical Pump With 0.5 HP motor	Rotri Pump With 0.5 HP motor
Vibrator (Cement,FlyAsh, Discharge)	YES, (0.5 HP WAM make Vibrator for Each)	YES, (0.5 HP WAM make Vibrator for Each)	YES, (0.5 HP WAM make Vibrator for Each)
Vibrator Sand	YES,(1 HP Vibrator)	YES,(1 HP Vibrator)	YES,(1 HP Vibrator)

Limit Switches 230 V Operation

Item	30 M3	20 M3	15 M3
Skip Home	2 nos	2 nos	2 nos
Skip Top	2 nos	2 nos	2 nos
Inter locks reqd	Inter lock Between Belt Conveyor & Skip	Inter lock Between Belt Conveyor & Skip	Inter lock Between Belt Conveyor & Skip
	Inter Lock Between Skip & Mixer Gate	Inter Lock Between Skip & Mixer Gate	Inter Lock Between Skip & Gate Open of Mixer
Mixing Capacity	Charging Capacity : 1200 Ltr	Charging Capacity : 800 Ltr	Charging Capacity : 560 Ltr
	Discharging Capacity : 750 Ltr	Discharging Capacity : 500 Ltr	Discharging Capacity : 350 Ltr
	Max. Aggrigate Size : 40/60 Mm	Max. Aggrigate Size : 40/60 Mm	Max. Aggrigate Size : 40/60 mm

Pneumatic Gates 24 VDC Operation

Item	30 M3	20 M3	15 M3
Aggregate gates	4 Nos	4 Nos	4 Nos
Cement discharge	Butter fly valve	Butter fly valve	Butter fly valve
Concrete Discharge From Mixer	1	1	RACK & PINION SYSTEM WITH 3 Hp DRIVE





Twin Shaft Mixer:-

Cosmos Batching Plants are equipped with twin shaft mixer for speed, consistent & quality production.



PLC Based Control System:-

Cosmos offers complete machine based control to the operator for smooth and efficient functioning. PLC based control system facilitate you to run the batching plant in auto, semi-auto and manual mode.



Accurate Digital Load Cell Weighing:-

Accurate digital load cell weighing for sand, aggregate, cement & water ensure the exact quantity required as per concrete grade requirements.



Loader:-

Storage bins are easily accessible by a loader and you don't need to set up any ramp feed it.



Low Maintenance Plant:-

Robust structure, superior manufacturing quality and heavy duty nature of the batching plant keep the plant maintenance and operational cost at low.



Fast & Easy Erection of Plant:-

Cosmos Batching Plants are fast and easy to erect which helps you to activate at the new location quickly.



Service Across India:-

Cosmos service network, dealers and spare parts locations are spread across India to ensure your batching plant is working for you!



Compact Reversible Batching Plant

Batching Plant



System consists of

- Reversible drum mixer
- Separate hopper for cement screw conveyor, (Wam make imported)
- Three nos of material storage bunker 3 cum each with belt conveyor made out of heavy duty channel angle structures.

Cement Feeding System (WAM Make Imported)

Weighing Screw conveyor

It is driven by 5.5 HP 3 ph elec. Motor with gear box. The set quality of cement per is weighed in weighing screw conveyor then discharged to the mixing drum.

Features :

- PLC based Fully Automatic and Manual modes
- Digital weighing system
- Easy to erect, commission and shift
- Robust design and high durability
- Low maintenance cost
- Concrete Batching/ mixing plant available in various capacity
- Rigid construction of main structure
Fabricated From rolled mild steel material
- Aggregate stored by inline bins
- Independent weighing system for aggregate, cement, water additive reduces the cycle time as the weighing is done simultaneously.
- Aggregate weigh is suspended on 4 'S' type load cells, gives higher accuracy.
- Ample space on platform with protective rolling for easy maintenance.
- Fully automatic electronic operation.
- Maximum weighing accuracy.

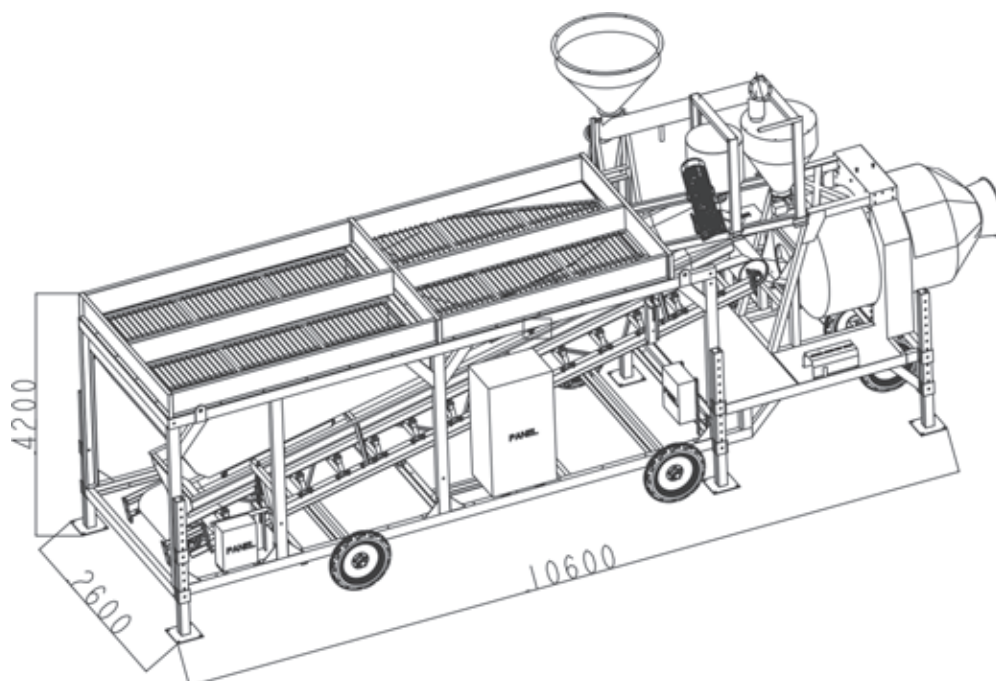


Specifications For Compact Reversible Batching Plant 15 Cum/Hr.Capacity.

Output Capacity	15 Cum/hr
Compartment Bin	3 No
Aggregate Charging Conveyor	Yes
Bunker Storage Capacity	3 Cum each- 3 Nos- 9 Cum
Cement / Weighing System	Yes
Water Weighing System	Yes
Admixture Weighing System	Yes(Optional)
Mixer	Reversible drum mixer. (800Ltrs)
Batch Capacity	0.5 cum / cycle
Batch cycle	2min/-cycle
Air Compressor	Yes
Screw Conveyor for Cement	Yes
Screw Conveyor For Fly Ash	Optional
Cement filling Hopper	Yes
Control System	Automatic
Control Load	33.5H

Power required for plant

Reversible drum mixer	10 HP
Bunker belt Conveyor	12 HP
Screw Conveyor for cement	5.5 HP
Water dozing	02 HP
Chemical Dozing	0.5 HP
Air Compressor	03 HP
Cement Cone Vibrator	0.5 HP
Total Power required for Plant	33.5 HP



Slab Trolley

Cosmos makes Slab Trolley is a very economic device for transporting concrete and other materials from one place to another place.

Specifications

Capacity	7 cft. (Wet.)
Discharge	3600 in any direction.
Wheels	C. I. Wheels with ball bearings
Rails	040 m.m. M. S. pipe 100 Ft - 80 Ft straight 10 Ft right bend 10 Ft left bend



Wheel Barrow

A very useful device to carry material like bricks, sand and aggregate from one place to another place on site.

Specifications

Model	Size	Capacity
CWB-1	1300 x 500 x 625	60 ltrs.



Mini Lift

Cosmos Make Mini lift is a light weight & easy to install device on any floor. It can be placed on the slab with 400 kgs. counter weight. The boom swings between 0° to 180° for unloading the material on the slab. Reverse-forward switch provides easy operation.



Specifications

Capacity	200 kgs maximum	500 kgs maximum
Prime Mover	3 H.P x 1 P.H motor	5 H.P.x 3 phase
Wire Rope	8 m.m Non Rotating	8 m.m Non Rotating
Speed	10 mtr/ min	10 mtr/ min
Boom	1.2 mtr.long	1.5mtr.long
Swing	180° -	270° -
Dimensions	L-3500 x W-850 x H-2100	L-4200 x W-850 x H-2100



This is the most essential arrangement for placing slab concrete for multistoried buildings. It consists of a friction winch driven by diesel engine. The pulley placed on the top of the tower engages bucket by means of wire rope. By engaging friction rollers the drum rotates, which in turn provides motion to wire rope. The tower consists of modular angle frames that can be joined to provide suitable height.



Specifications

	20 Mtr	30 Mtr
Capacity	1000 kgs including carriage & skip	1000 kgs including carriage & skip
Prime Mover	10 H.P. Single cylinder air cooled engine or 7.5 H.P. electric motor	12 H.P. Twin cylinder air cooled engine or 10 H.P. electric motor
Wire Rope Length	60 Mtr	90 Mtr
Wire Rope Dia	12m.m	12 m.m
Speed	30 mtr/minute	30 mtr/minute
Skip Capacity	7 cft	7 cft
Brake	Mechanical Liner type	Mechanical liner type

	40 Mtr	2000 Kg
Capacity	1000 kgs including carriage & skip	2000 kgs including carriage & skip
Prime Mover	12 H.P. Single cylinder air cooled engine or 12 H.P. electric motor	20 H.P. Twin cylinder air cooled engine or 15 H.P. electric motor
Wire Rope Length	120 Mtr	90 Mtr
Wire Rope Dia	12m.m	12 m.m
Speed	30 mtr/minute	24 mtr/minute
Skip Capacity	7 cft	7 cft
Brake	Mechanical Liner type	Mechanical liner type

Material Cum Passenger Lift

Carrying a variety of material up and down a building under construction is not only a hectic activity, it also burn down the valuable construction time. Depending on desired applications and usage, you can choose from a range of these easy-to-install and easy-to-use vertical handling systems.

Features :

- Travelling speed up to 25 meters per minute
- Doors on three sides
- Rack from inside the cabin
- Two crane-duty planetary motors
- Centrifugal brake & best quality core cables
- Full enclosed & half open cabin options
- Easy installation & raising

Specifications :

Technical Specifications

Specifications	Details
Shifting Mechanism	Rack & Pinion
Max Load Capacity	1000Kg / 12 Persons
Lifting Speed	28Mtr Min.
Cage Size (mm)	2000(L) x 1300(W) x 2100(H)
Mast Section Size	700 x 700 x 1507(Pipe 76 Ø)
Max Lifting Height	100 Mtr
Power	3 x 10Hp (7.5 Kw)
Gear Box	Planetary
Brake	Electromagnetic
Rack & Pinion	Module 8
Door	3
Guide Roller	27 (24+3)

Safety specifications

Specifications	Details
Door Interlock	By Limit Switch
Upper Limit	3 Nos.
Lower Limit	3 Nos.
Cage Size (mm)	2000(L) x 1300(W) x 2100(H)
Barricadding At Base	YES
Fall Safe Device	YES (1 Nos.)
Emergency Stop	YES (2 Nos.)
Electromagnetic Brake	2 Nos.





Electrical Specifications

Specifications	Details
Controller	PLC Base
VFD	20Hp (Make - Fuji)
Main Switch	Rotary Type
Alarm	Safety Brake Active / Manual
Light	YES (CFL)
Fan	Yes
Power Cable	Rubber Coated
Electrical Interlock	Yes by Limit Switch
Floor Selection	Yes
Operation Mode	Auto & Manual

Material Cum Passenger Lift

Cosmos Material-Cum-Passenger Lift is the best suited for vertical movement of workmen & construction site material. It has a low maintenance and operation cost, and higher efficiency for best performance.

Advantages:



Safety First!

With centrifugal break, fall safe device and emergency stop functions, Cosmos has ensured your safety at each stage and at every time.



Quick to install and easy to raise

Cosmos lift is quick to install and commence.. It has an additional third door for easy uplifting from inside the lift.



VFD enabled operations

Cosmos lifts are equipped with Variable Frequency Drive (VFD) to ensure jerk-free and safe transport. Its control panel is user-friendly and easy to operate.



Rack & pinion platform

Rack & pinion platform offers accuracy, safety and durability in operations and improves the life of the Lift. The guide rollers helps to smoothen the operations and maintain tolerance accurately.



Low on consumption & high on performance!

Cosmos has made an effort to ensure low maintenance and operational costs for you. Without compromising high and consistent performance!



See Saw Lift

Cosmos See Saw Lift carries material up and down at the same time, thus saving the lead time. When the upper container is being unloaded, the container below gets loaded.

Thus offering more output per run along with more safety of the material. Needless to say, it is also easy to erect and dismantle.

Features :

- Counteracting buckets
- Use of 2 skips on the same column
- Use of enclosed cabin to carry delicate items
- Limit switches for upper & lower travel
- Heavy duty design
- Safe operations
- Technical winch for erection purpose

Benefits:

- 40 loads/hour
- Reduced operational cost
- Double efficiency
- Saving in labour & power cost
- Quick payback period

Applications:

- Concrete Carrying
- Brick carrying
- Tiles / Sanitary Material / Sand Carrying etc.



Technical Specifications

Power	10 HP, 415VAC, 3 Phase Electric Motor
Capacity	Gross Load 750 Kg x 2 Nos
	Net Capacity 500 Kg x 2 Nos.
Maximum Height	200 Ft.



Suspended Rope Platform is an efficient & effective solution for exterior work of the building, such as exterior wall construction, cleaning & maintenance of high rise building, painting the wall, fixing the Aluminum composite panels & glasses on the exterior of the building, decorating the walls with mosaic tiles / granite, fixing the windows and cleaning them, and so on.

Technical Specifications

Model	SRP 80
Maximum Height	100 mtrs
Recommended Height	60 mtrs. Above 9 mtrs, check wind pressure
Max. Weight carrying capacity (Uniformly distributed)	800 kgs
Lifting Speed	8 - 10 m/min
Platform Size (L x B x H)	7500 mm (2500 x 3) x 760 mm x 1200 mm (Modular)
Wire Rope	4 wire ropes, each of 8.3 mm diameter and 100 m length. Minimum braking force is 64 KN.
Electric Hoister Motor	Model: SHM - 80 Power : 2.2 KW x 2 Voltage : 380 - 420v
Braking Torque	15 Nm
Safety Lock Type	Model: SSF - 80 tilt - Proof Safety Lock
Platform roof support material	MS - Hot dip galvanized
Height Adjustment	1.15m to 1.75m
Front Beam Extent	1200 mm - 1800 mm (The load carrying capacity will proportionately decrease when the extent is more than 1.5 m)
Whole Machine Weight	1800 kg (Excluding wire rope and cable)
Suspension	Galvanized roof support devices telescope arm and counter weight

Horizontal Handling Systems

Handling

Moving material on a construction site has always been a challenge. No more! Cosmos presents these horizontal handling systems packed with top line features and comforts.

Tough Rider 2 Ton Articulated Type

Innovative design allows the Tough Rider to turn in an extremely small radius unlike conventional loaders. The cabin also provide safety and comfort to the operator.

Features :

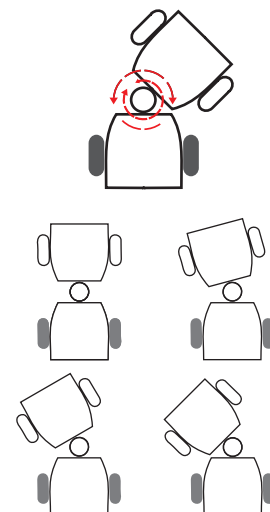
- Comfortable driving position
- 4 wheel drive
- Rear wheel turning
- Front tilting hydraulic hopper
- Auto mobile engine



Technical Specifications

Specification	Unit	Articulated Type
Prime Mover - Diesel Engine	HP	25
Capacity - Liters / Tonne	Liters / Tonne	400
Traction Gear Box - Heavy duty oil filled with low speed gear box	1	4+1
Drive Differential	2	4x4
Clutch	1	Dry Type Single Plate
Turning Radius	Meters	3
Drum Rotation Speed	RPM	Power(Hydraulic)
Ground Clearance	Milimeters	210
Wheel Base	Milimeters	1280
Driving Speed	KM/Hr.	20
Steering	1	Power(Hydraulic)
Hydraulic Fluid 68 Grade	Liters	40
Mixing Drum Dia	Milimeters	N/A
Mixing Drum Length	Milimeters	N/A
Mixing Drum Loading Height	Milimeters	N/A
Mixing Drum Unloading Height	Milimeters	N/A
Mixing Drum Drive - Hydraulic		N/A
Mixing Drum Tilting		N/A
Pneumatic Tyre Size	4	6.00x19.00
Hydraulic Pump - Pressure Bar		207
Mixing Drum Guide Roller	Nos.	2
Dimension - LxWxH in	Meters	3.8 x 2 x 2.4

Strategic advantage of articulated Tough Rider



Tough Rider

A unique design for material handling up to two ton on ground. This machine works on high speed diesel engine with gear box and differential (4 wheel drive).

Specially designed for huge site and township.



Technical Specifications

Specification	Unit	Tough Rider
Prime Mover - Diesel Engine	HP	25
Capacity - Liters / Tonne	Liters / Tonne	2
Traction Gear Box - Heavy duty oil filled with low speed gear box	1	4+1
Drive Differential	2	4x4
Clutch	1	Dry Type Single Plate
Turning Radius	Meters	4
Drum Rotation Speed	RPM	Mechanical
Ground Clearance	Milimeters	203
Wheel Base	Milimeters	1828
Driving Speed	KM/Hr.	35
Steering	1	Mechanical
Hydraulic Fluid 68 Grade	Liters	40
Mixing Drum Dia	Milimeters	N/A
Mixing Drum Length	Milimeters	N/A
Mixing Drum Loading Height	Milimeters	N/A
Mixing Drum Unloading Height	Milimeters	N/A
Mixing Drum Drive - Hydraulic		N/A
Mixing Drum Tilting		N/A
Pneumatic Tyre Size	4	6.00x18.00
Hydraulic Pump - Pressure Bar		207
Mixing Drum Guide Roller	Nos.	N/A
Dimension - LxWxH in	Meters	3.75 x 1.92 x 2.4

Concrete Cutter

This is an improved and modern is economical and easy to operate for cutting concrete, masonry, stone and asphalt. The machine is driven br V-belt, pulley with spindle assembly on which the "14" and "16" diamond edge blade is mounted. Water tank is provided for cooling the blades.



Specifications

	014" Blade	016" Blade
Power	Motor : 7.5 H.P. x 2800 RPM x 3 P.H. Engine : 8 H.P. x 3600 RPM	10 H.P. x 2800 RPM x 3 P.H. 10 H.P. x 3600 RPM
Cutting Speed	15 mtr. / hr.	20 mtr. / hr.
Cutting Speed	lead screw with C.I. starting	lead screw with C.I. starting
Transportation	Solid rubber wheels with ball bearings	Solid rubber wheels with ball bearings
Dimensions	L-1400 x W-800 x H-950	L-1400 x W-800 x H-950
Weight	130 kg. approx	145 kg. approx
Water Tank	50 ltr.	50 ltr.

Bar Cutting Hydraulic

1. Capacity : 32 m.m. Dia. tor steel.
2. Main body is made out of casting.
3. Well lubricated heavy duty gears used for smooth functioning.
4. Clutch system is provided for safety purpose.
5. Blade can be easily replacement.
6. No skilled required.
7. Save time and money.

Specifications

	32 m.m. Hydraulic	42 m.m. Hydraulic
Shearing Capacity	32 m.m.	42 m.m.
Size	L-900 m.m.	L-1100 m.m.
	W-650 m.m.	W-850 m.m.
	H-1100 m.m.	H-1300 m.m.
Prime Mover	3 H.P.3 Phase Motor	5 H.P.3 Phase Motor



Bar Cutting Mechanical

1. Capacity : 32 m.m. Dia. tor steel.
2. Main body is made out of casting.
3. Well lubricated heavy duty gears used for smooth functioning.
4. Clutch system is provided for safety purpose.
5. Blade can be easily replacement.
6. No skilled required.
7. Save time and money.

Specifications

	32 m.m. Mechanical
Shearing Capacity	32 m.m.
Size	L-1200 m.m.
	W-900 m.m.
	H-1000 m.m.
Prime Mover	5 H.P.3 Phase Motor



Hydraulic Bar Bending

Bending/Cutting

Bar bending and cutting are equally skilful and stressful activities. They are also two of the most repeated activities at construction sites. These powerful mechanical and hydraulic machines from Cosmos make these activities unbelievably effortless and efficient!

Features :

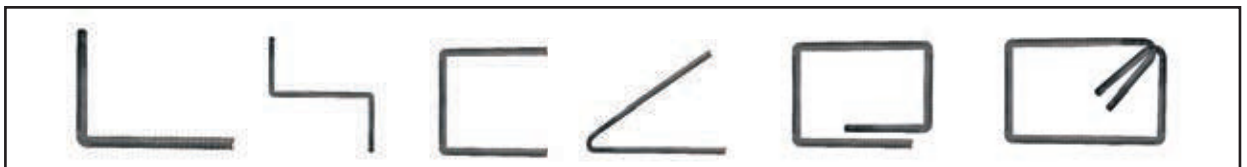
- 5HP/ 3HP electric flange type motor
- Hydraulic rack and pinion cylinder for bending
- Directional solenoid valve with pressure relief valve
- Hydraulic gear pump submerged in hydraulic oil
- PLC operated with report printing function - optional
- longer blade life

Specifications

	32 m.m. Hydraulic	42 m.m. Hydraulic
Shearing Capacity	32 m.m.	42 m.m.
Size	L-1000 m.m.	L-1000 m.m.
	W-850 m.m.	W-850 m.m.
	H-900 m.m.	H-950 m.m.
Prime Mover	3 H.P.3 Phase Motor	5 H.P.3 Phase Motor
No. Dies	5 Nos.	5 Nos.



Sample shapes of cut and bent bars



Vibratory Sand Screening Machine

Heavy Duty Vibratory Sand Screening

Screen	6 Mesh / 8 Mesh Stainless Steel
Drive	5H.P. Three PH Motor
Gear Box	--
Screen Size	1200 x 2500
Capacity	20m ³
Overall Size	L 3000 x W 1600 x H 1800
Weight	990 kg.
Vibrator	with accentric shaft
Spring	Heavy Duty 125Ø / 16mm thick / 120mm



Specifications

	Vibratory
Screen	6 mesh / mesh
Drive	1 H.P. x 1 P.H.
Gear Box	N / A
Drum Dia	Screen Size 750 x 1500 mm
Capacity	6m ³ / hour
Size	L-2600 x W-1050 x H-1300
Weight	150

Double Drum Walk Behind Vibratory Roller



Technical Specifications

Specifications	Unit	Double Drum Walk Behind Vibratory Roller
Prime Mover	Diesel Engine	8.3 Hp 3600 Rpm
Traction		3 HP Electric Motor
Vibratory	Motor	1 HP Electric Motor
Operating Weight	Kg.	1000
Traveling Speed	Km/Hr	3
Steering System		N.A.
Traction Drum	Dia in MM	500
	Width in MM	900
	Thickness in MM	10
Dimensions	LXWXH in Meters	1.45 X 1.0 X 1.08

Earth Compactor

A very useful device for compaction after filling Murum. Various models are available as per requirement.



Technical Specifications

Specifications	Mini Earth Compactor : EC - 1	Earth Compactor : EC - 2
Size	580 x 470 x 630 x 8 mm	800 x 500 x 850 mm
Prime Mover	Petrol / Kerosene Engine	5 Hp air cooled Diesel Engine
Electric	2 Hp x 1 Ph	5 Hp x 3 Ph
Compaction	2 Tonnes	3-4 Tonnes
Traveling Speed	8 mtr per minute	12 mtr per minute
Plate Thik.	8 mm	10 mm

Sand Screening Machine

This machine is light in weight and easy to operate. Efficient sieving is achieved. It helps to reduce fatigue and improves productivity.

Rotary Sand Screening Machine



Specifications

	Rotary Hand Operated	Power Operated
Screen	6 mesh / 8 mesh	6 mesh / 8 mesh
Drive	Hand Operated	0.5 H.P. x 1 P.H.
Gear Box	N / A	40 : 1
Drum Dia	450 mm	600 mm
Capacity	2m ³ / hour	6m ³ / hour
Size	L-2700 x W-650 x H-1400	L-2600 x W-900 x H-1350
Weight	120	140

Vibratory Sand Screening Cum Washing Machine

It is essential to remove dirt, dust and slit from the sand to bring quality in construction. Considering the criteria, we have designed screening and washing in one machine only, the screen is vibrated at high speed with eccentric shaft. Sieved sand is conveyed through a water bath and comes out from the given outlet. Four M.S. wheels are provided for transportation.



Specifications

Power	5 H.P. - 3 phase
Gear Box	40 : 1 Ratio
Screen	750 x 1500 m.m.
Mesh	1" weld mesh
Transportation	M.S. Wheel
Chassis	Heavy structural steel
Capacity	6m ³ / hour (screening / washing)
Water Drum	200 ltrs.
Size	2600 x 1600 x 2000

Block Making Machine

Block Making

Creating it over and over with the same ease and efficiency is what sets you apart. Just like our Block making Machine. It is compact, it is efficient and it does it all! Right from making blocks to laying them beautifully in a picture perfect pattern.

CM 1 & 3 Technical Features



CM 1

Block Size	12x8x8, 12x8x6, 12x8x4 16x8x8, 16x8x6, 18x8x4
Out put / shift	400 Blocks
Size (Mchine)	L - 1300 x W-750 x H-990
Weight	120 kgs. aprox
Ejection	Mould Remains Stationary



CM 3

Block Size	12x8x8, 12x8x6, 12x8x4, 16x8x8, 16x8x6, 16x8x4
Out put / shift	400 Blocks
Size (Machine)	L-1300 x W-750 x H-980
Weight	135 kgs.
Vibrator	1 H.P. single phase motor (Crompton make)
Ejection	Mould Sides Down

CM6 Block Making Machine

This machine is very useful for mass production of blocks. This has an autoramming mechanism powered by 2 H.P. single phase motor. The Block ramming is achieved with rapid impact of 90 strokes / min. During ramming the mould is vibrated vigorously by vibrator powered by 1 H.P. single phase motor.

Specifications

Capacity / shift	800 Blocks
Block Size	12x8x8, 12x8x6, 12x8x4, 16x8x8, 16x8x6, 16x8x4
Operating Cycles	50 cycles / hour
Vibrator	1 H.P. single phase motor
Ramming	2 H.P. single phase motor
Dimensions	L-1200 X W-950 X H-1750
Curing	After 4 Hours
Weight	350 kgs.



Hydraulic Concrete Block Laying Machine CM9



Cavity Block



Gutter Block



Band 'U' For R.C.C. Band



Cavity for Partition Walls



Technical Specifications

Capacity	50 to 55 Operations per Hour
Molding Area	800 mm x 600 mm
Maximum Height of Concrete Block	250 mm
Minimum Height of Concrete	50 mm
Total Weight of Only Machine	850 kgs.
Gross Weight with RAM Mould Pair	1050 kgs.
Size	L-2.1 mts. x W-1.4 mtr. x H-1.62 mtr
Power Required	440 V. 3 HP - 50 Hz. A.C.
Hydraulic Pump Motor	3 HP
Hydraulic Pump	Vane Type Vickers
Vibrations	6000 V.P.M.
Travel	Reduction gear unit is used for forward and reverse motion

Paver Block Making Machine CM-10

A unique design for manufacturing bricks, paver blocks. A machine is very useful for mass production of blocks by maintaining the quality & strength the quality and strength by hydraulic pressure.

Specifications

Power	% HP 3 phase motor flange mounted
Hydraulic tank	60 ltr.
Hydraulic Oil	68 grade castrol
Production	1200 to 1500 bricks per shift
Weight	900 kgs. (approx)
Max Block thickness	80 mm to 100 mm
Power Consumption	5 units / hr
Max pressure	1.5 T.
Mould Area	450 x 450 mm
Size of Machine	L-1200 x W-750 x H-2000



Paving Block




Solid Block

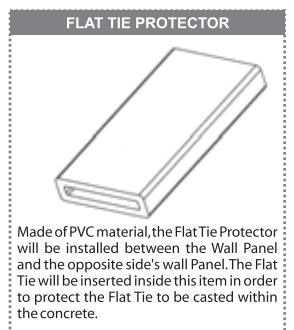
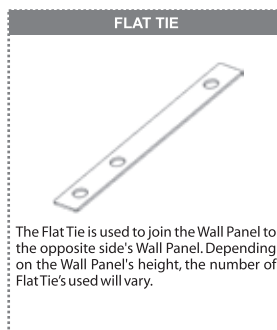
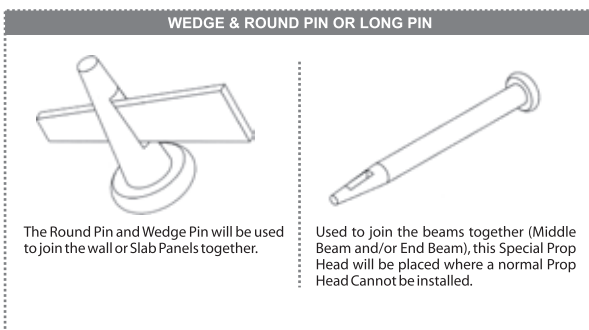
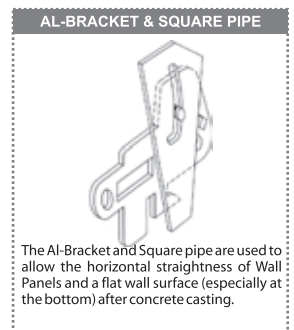
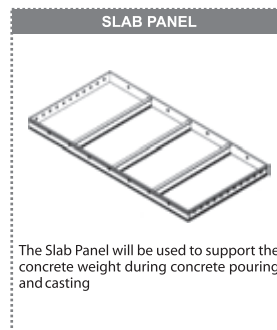
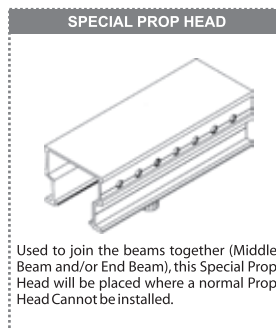
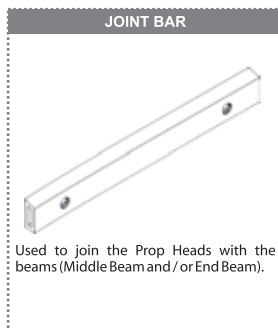
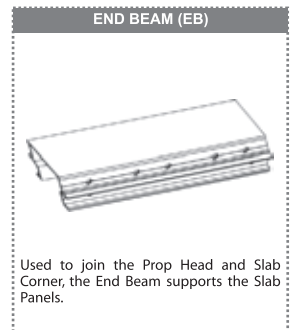
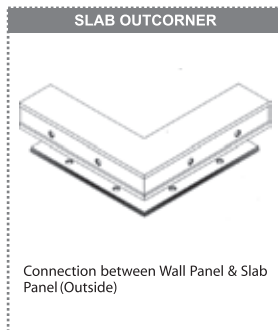
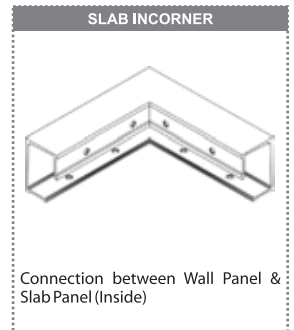
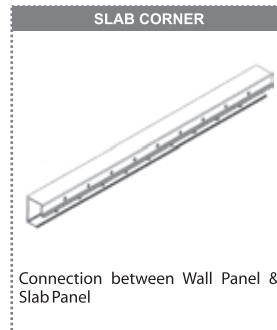


Available In

- 1) Heavy duty channel structure.
- 2) You can make any type of bricks like Paver Blocks, tiles, any other design blocks.
- 3) Sharp edge and good finishing Blocks.
- 4) Saves labour and time.

Cosmos brings you the latest in form work to help improve your processes to be more profitable.

WALL PANEL			
	Standard Panel		
	Width (mm) x Length (mm)	Weight (kg)	Weight Combined with Rocker (kg)
	600x2300	25.940	26.590
	600x2450	26.645	27.300
	450x2300	19.730	20.200
	450x2450	20.250	20.730
	400x2300	17.590	18.010
	400x2450	18.060	18.480
	300X2300	14.730	15.040
	300X2450	15.120	15.440



Construction	Application			
Method	Single Storey (Terrace of Link Houses)	Double (2) Storey (Terrace of Link Houses)	Three (3) to Six (6) Storey (Apartments or Buildings)	High Rise (Buildings or Apartments)
Traditional Bricks	The most common. Slow construction and labour intensive	Usually not acceptable without concrete beam	Not suitable structurally. Requires concrete structural elements	Not suitable structurally.
Concrete Frame (Columns, Beams & Slabs) with Brick or Block infill	Most commonly used where bricks / blocks alone are not acceptable. Slow method	Most commonly used method, slow & costly compared to system	Traditionally used method worldwide. Slow & costly. Remains the method of choice for small builders, but losing out on large-scale projects to new systems.	
Precast / Prefabs Concrete	Suitable for large projects. High initial costs and slow start up for precast / prefab plant. Transport and lifting costs are inefficient compared to cast in-situ systems.			Careful supervision of construction is required. Noted for rampant instability of joints.
Cast in-situ concrete : Heavy Shuttering System	Not suitable - requires too much labour & time to move equipment from one houses to another.		Suitability increases in proportion to height of building & number of units. Not suitable for less than 250 units. Resulting in efficiency loss.	
Cast in-situ concrete : Kumkang ALU Form	Efficient & Cost effective than any of the above methods. Kumkang ALU Form is lightweight, hand-held shuttering. Flexible, adaptable, faster & environmentally friendly.			

Characteristics	Construction Method				
	Hand Held Formwork	Tunnel Formwork	Table Formwork	Traditional Formwork	Cosmos Formwork
No cranes or other heavy equipment required	★			★	★
Able to pour walls (column) and floor slabs with beams with one lift		★			★
Strike floor slabs formwork without moving props					★
Can form concrete in place as part of work cycle					★
Can form concrete columns and beams together	★			★	★
No skilled labour required	★				★
Suitable for single (1) or two (2) storey buildings		★	★	★	★
Suitable for high-rise buildings				★	★
Formwork equipment adapts to different designs					
Able to form all concrete elements				★	★
Can pour all walls, columns & beams together with floor slabs, permitting cellular design & savings in steel & concrete					★
Lowest formwork to forming area ratio					★
Conforms to architects design with no need modifications to suit the system	★			★	★
Self correction feature providing unmatched forming accuracy					★
Environmentally friendly - no huge debris, no messy disposals	★				★



Form Work System

Provides a "one-stop" solution for all your construction problems

Form work system duration which reduces overheads and financing costs. The system uses less skilled labour : the dimensional accuracy minimizes material wastage and remedial works.



Cost Effective

Flexible and Adaptable

Speed and Accuracy

Top Quality Finishing

Cosmos props made from 60.3 OD 'B' MS black ERW medium ISI marked pipe. The most economical and cheapest method of supporting for all kind of form work to slab, beams, walls and column.

Prop

Specifications

Nut	Malleable casting
Chain	12 g MS
Top Plate	150 x 150 or 100 x 300 x 5 m.m. Thick Plate
Base Plate	150 x 150 x 6 m.m.

Sizes Available

Prop Size	Height (mtr.)	
	Closed	Extended
CP - 1	1.5	2.75
CP - 2	2.0	3.25
CP - 3	2.0	3.75
CP - 4	3.0	4.75

Advantages

1. Props eliminates cost of skilled labour and timer wastage.
2. Props are adjusted for any height required.
3. Quick and easily erected by unskilled labour.
4. No loose parts to be lost or mislaid.
5. Infinite adjustment.



Span (Telescopic)

The most economical and easy method for slab support is Span. The span is made in 2.0 m.m. thick MS sheet with support of 10 m.m. dia bar and 40 x 40 x 5 m.m. tee.

Specifications

Prop Size	Extension (mtr.)	
	Min.	Max.
ESO-ESI	1.75	2.70
SO-ESI	2.40	3.45
SO-SI	2.40	4.10
SO-SI	3.05	4.7

Advantages

1. Saving on time and cost by relating the use of the same section on the same job.
2. Quick and easy erecting and stripping.
3. Single, simple adjustment for length of span.
4. Intermediate supports eliminated.
5. Stand rough site handling and reduce maintenance cost.
6. Eliminates cost of cutting and wastage of timber.



Couplers



Pressed steel base and cap for clamping tubes at any angle or in right angle. Quality material ensures safety to workers.

Two Types of Devices are used :

- A. Fixed Coupler
- B. Swivel Coupler useful for 40 NB pipe., 50 NB pipe.

Wall Form Shuttering

Cosmos wall form system of steel form work gives maximum economy with excellent concrete finish and is used all over in construction wall's columns, beams, floors etc.

Wall Form & Accessories

- A. Simple Design : Climbing type.
- B. Fast in erection due to precision in manufacture.
- C. No side shuttering even at great height.
- D. Cut down time and labour cost.
- E. Gives excellent concrete finish.

The wall form shuttering panels manufactured out of 12 G.M.S. sheet with slotted angle frames 45 x 45 x 5 m.m. thick and stiffener. Channels and heavy duty soldiers, tube or channel walls. All these components are assembled together by four types of clips of unique design.

Plates available in various sizes as per the requirement :

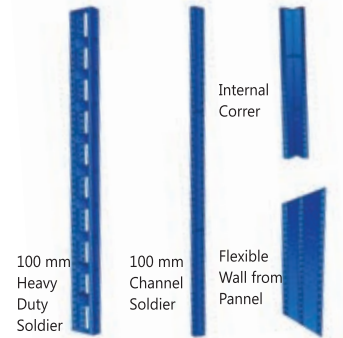
500 x 1250 |
600 x 1250

Soldier :

The main function of the soldier is to support two plates vertically.

Available in sizes :

100 x 2500 m.m. long
150 x 3000 m.m. long



Tie Rod

Interlocking of wall form plates to maintain the proper wall thickness.

Available In

Ø12 m.m., 20 m.m. and 25 m.m. Length as required.



Wedge Clip

Useful for interlocking the wall form plates.



Single Clamp

Useful device to lock wall form plates size : Ø40 NB.



Step Centering

Step centering in 1.6 m.m. thk. sheet supported by 30 m.m. x 5 m.m. MS flat, self locking arrangement in 75 x 40 m.m. channel. Side plate for fixing on wooden planks as side support.

Adjustable size min : min. 900 to 1500 and height up to 200 m.m.



Centering Plate

Centering Plate :

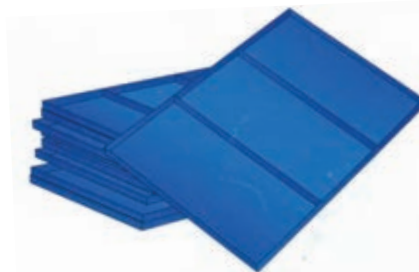
2 Types of Centering Plates

- A. Sheet metal folding - 14 SWG
- B. Sheet metal with Ang

Sizes : 600 x 900 | 600 x 1250

Provision of Angle is 35 x 35 x 5 m.m. thik. | 30 x 30 x 3 m.m. thik. | 25 x 25 x 5 m.m. thik.

Angles are welded and riveted.



Cup Lock System

Centering

Made out of 40 NB 'B' Class tube conforming to IS 1161/1239 Cups are provided at 500 m.m. c/c in the standard product. Cups at 1000 m.m. c/c is optional.

Specifications

Vertically :	
Sizes	Wt. (Approx)
3.00 m	15.0 kgs.
2.50 m	12.5 kgs.
2.00 m	10.0 kgs.
1.50 m	7.5 kgs.
1.00 m	5.0 kgs.
0.50 m	2.5 kgs.

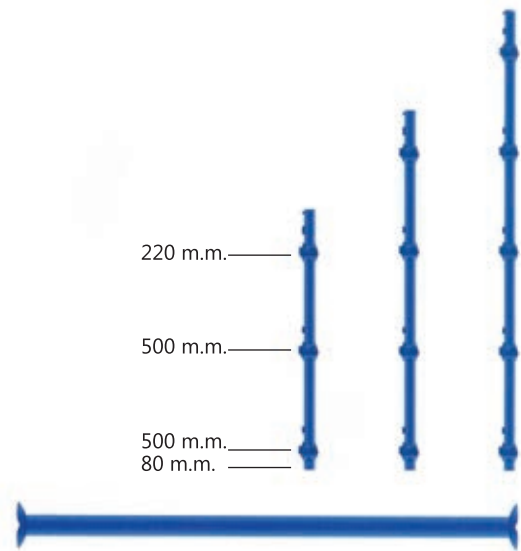
Loading date permissible Load in Verticals	
Main Lift	Vertical Loading
1.0 m	5700 kgs.
1.5 m	4500 kgs.
2.0 m	3300 kgs.
2.5 m	2300 kgs.

Horizontal

Horizontals are available in following sizes

Sizes	Wt. (Approx)	Sizes	Wt. (Approx)	Sizes	Wt. (Approx)
2.50 m	9.5 kgs.	1.80 m	6.5 kgs.	1.25 m	4.5 kgs.
2.00 m	7.5 kgs.	1.50 m	5.5 kgs.	1.00 m	4.0 kgs.

Made out of 40 NB 'B' class conforming to IS 1161/1239 forged end blades are welded to both ends of tubes.



Column Farma

Column Farma (fixed Type)

Round & Square

Column farmas are totally bolted type for easy assembly & removal after casting. Rolled sheets.
Offer excellent finish of columns after casting.

Material Used For Column

14 G. M. S. sheet and 45 x 45 x 5th angle with heavy stiffner support.



Column Farmas Available in All Sizes

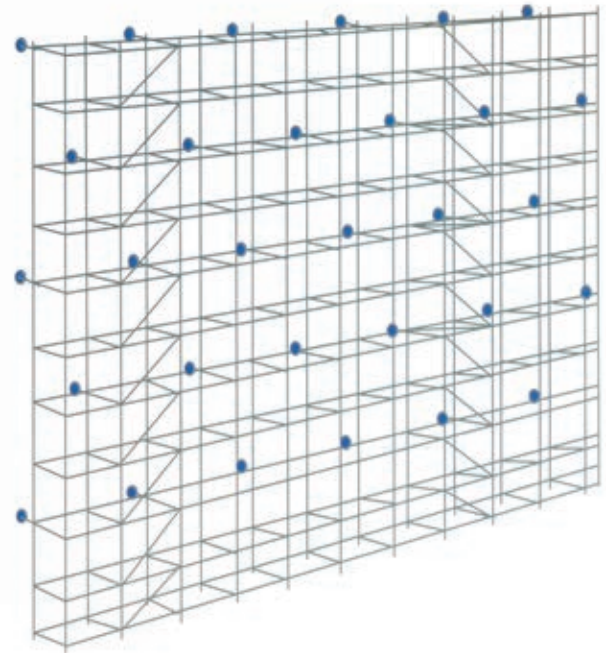
Like Ø250 to Ø1000 m.m. | height 1200 to 3000 m.m.

Bracing & Tying - In

Diagonal Face Bracing : All scaffolds require a certain amount of diagonal bracing to eliminate any tendency for the scaffold to distort or sway. For a scaffold more than 10 meters (4 Bays of 2.5 m) Long. A minimum of 2 bays should be face braced Bracing of the end bays should be avoided if possible. Face Bracing is required over a full height for one bay in every four.

Tying In : Every Scaffold must be tied to the Permanent structure members used for connecting of scaffold to a building are called 'ties' Ties can be taken through window openings or clamped to columns. Where these openings are not available than anchor fasteners are used.

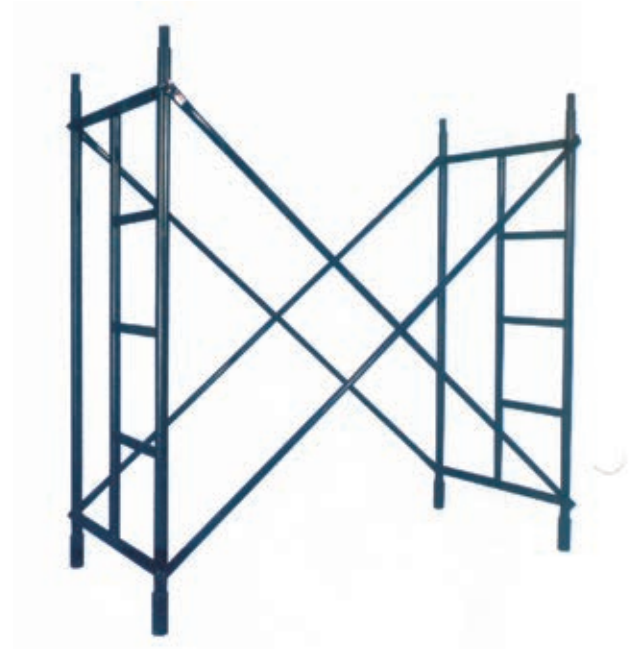
Level of tying = 3 to 4 times width of scaffold (tying should be done in staggered arrangements)



Tubular Scaffolding

This is the ideal scaffolding system which does not even need a spanner for it's erection and dismantling as well, since all the locking screws are provided with eye holes and can be tightened with split pin. Scaffolding are manufactured with tested quality Ø40 NB 'B' class pipe. Scaffoldings are used for providing access of support for construction of buildings , bridges.

The scaffolding frame connected together by scissor type cross bracing secured to the frames through the pins welded to the frame.



Scaffolding available in 3 sizes

2 mtr. x 2 mtr.	1 mtr. x 2 mtr.	1 mtr. x 2mtr. with staircase	Cross bracing	Base Plate
-----------------	-----------------	----------------------------------	---------------	------------

Note : Special sizes can also be supplied.

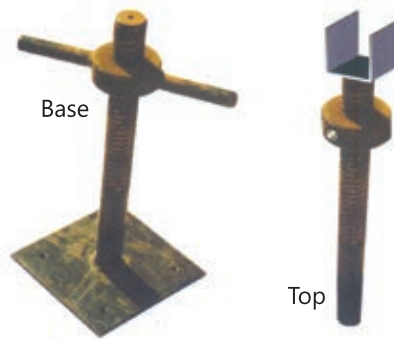


Adjustable Stirrushed

Useful for support to height adjustment between two joints. Made in $\varnothing 32$ m.m. bright bar with locking nut (C.I) and U head 100 x 100 x 100 with 5 m.m. thick plate.

Size : $\varnothing 32$ m.m. x 350 m.m.

Threading : 4 TPI



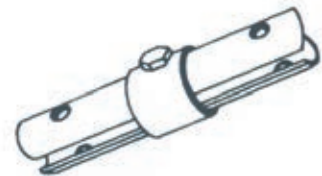
Propex

Suitable for height adjustment between two props.



Joint Pin

Size : Suitable for $\varnothing 40$ NB pipe.

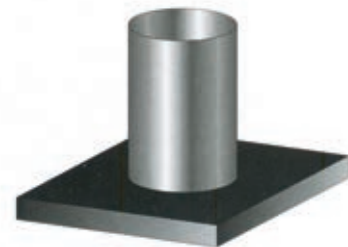


Fixed Base Plate

For support of scaffolding.
Made in 60 OD 'B' class pipe with 150 x 150 x 5 m.m. thk. MS plate.

Available In

300 x 2500 m.m. long



Plank

Manufactured in press metal in 14 /16 gauge. Used for foot support on height.

Available In

300 x 2500 m.m. long



Shikanja

Available In

2' | 2'3" | 2'6" | 3'



Vibrator Equipment

Plate Vibrator

Specifications

Size	W-450 m.m. x L-150 m.m. (Also as per required)
Prime Mover	0.5 H.P. x 1 Phase motor ok MK 12 Engine
Vibrations	400 VPM.



Screed Board Vibrator

Specifications

Dimensions	3000 x 320 x 75
Eccentricity	Inclined Unit
Enfield Engine	MK 12 Petrol / Kerosene
Needle	6 mtr. x 40 m.m. Dia.



Needle Vibrator (Electric / Petrol / Kerosene)

Made from best quality hoses of Rock drill grade with continuous inner liner of steel conforming to IS specifications 6276 : 1971. Inner core is manufactured for steel wire conforming to IS 4454 : 1967 and suitable heart treated.

Specifications

1. Easy Portability	Prime Mover
2. Steel cage design for rough site handling	1. Petrol / Kerosene engine of Enfield
3. Oil Filled rotors	2. Diesel engine of Greves Lambardini
4. Spring mounted with 3600 rotation	3. Electric Motor
5. Double oil seal protection	



NVP Petrol / Kerosene



NVE Electric

Table Vibrator

A very useful device for recasting. The main function is to compact the granules properly. Vibrations are controlled as per required. Chassis is fabricated in heavy steel structure. To avoid the vibration on classics springs are provide.

Specifications

Size	600 x 900 (Also as per required)
Drive	1 H.P. x 1 phase motor
Top plate	5 m.m. thick M.S. plate.
Weight	130 kgs.



Testing Equipments

Quality is the ground reality of any business. It also holds the future of the business. Cosmos test equipment help you analyze the quality and offer assurance to your customers. On the spot!

Features :

- Accurate & consistent
- Standardized equipments



GAUGING TROWEL



SHRINKAGE LIMIT TEST APPARATUS



PYCNOMETER



LIQUID LIMIT DEVICE



RAPID MOISTURE METER



LOAD FRAME



SIEVE SHAKER MOTORIZED



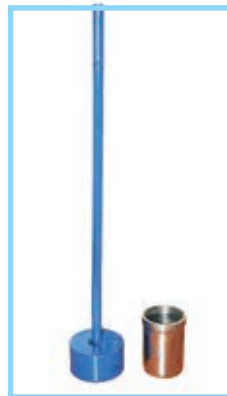
PERMEABILITY APPARATUS



SWELL PRESSURE EQUIPMENT



LABORATORY C.B.R. APPARATUS (HAND OPERATED.)



CORE CUTTER



LABORATORY VANE SHEAR APPARATUS (LABORATORY PURPOSE.)



SAND REPLACEMENT EQUIPMENT (SAND POURING METHOD)



SLUMP TEST APPARATUS



SIEVE



CRUSHING VALUE APPARATUS

Testing Equipments



COMPACTION TEST APPARATUS



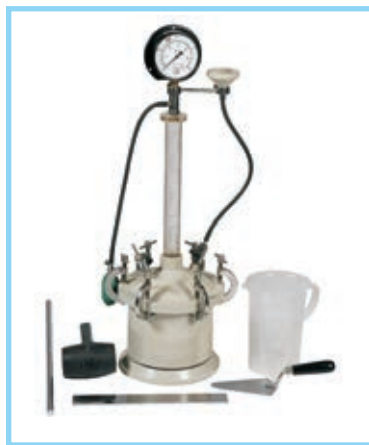
PENETROMETER SPRING LOADED IN CARRYING CASE



LOS ANGELES ABRASION TESTING MACHINE



DIRECT SHEAR TEST APPARATUS



AIR ENTRAINMENT METER



VICAT APPARATUS



CONCRETE PERMEABILITY APPARATUS



BLAINS AIR APPARATUS



CUBE MOULD



LE CHATELIER MOULD

Testing Equipments



THICKNESS GAUGE / FLAKINESS GAUGE



DENSITY BASKET



AGGREGATE IMPACT TESTER



VIBRATION MACHINE STD: IS 4031, IS 10080



PAVEMENT CORE DRILLING MACHINE



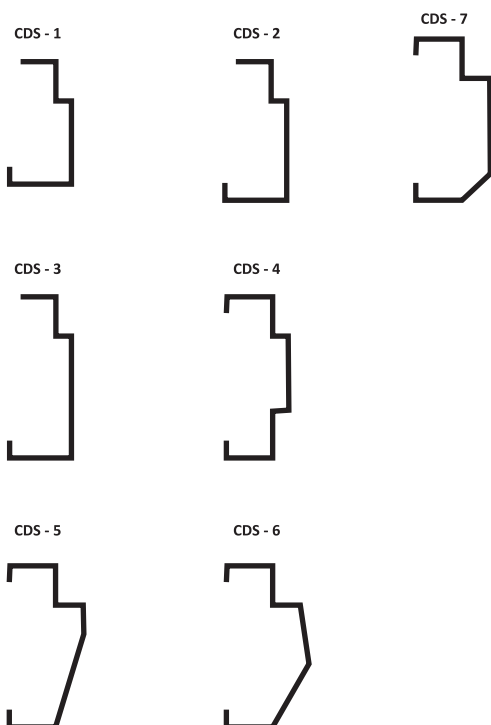
Compression Testing Machine (Manual)



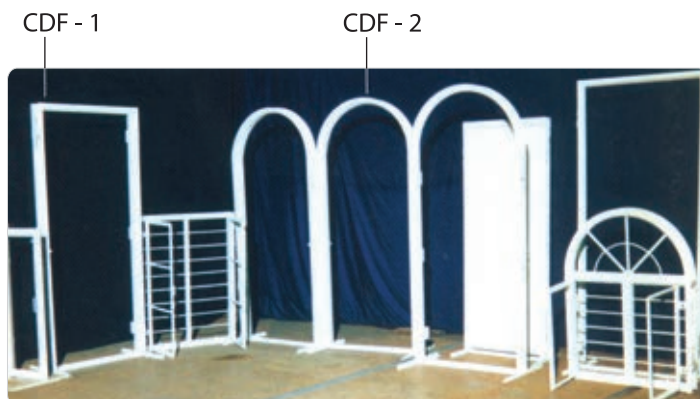
Compression Testing Machine (Electrical)

Door & Window Frames

Cosmos Door Frames are designed to fit elegantly in offices, factories and homes. Every door frame has three hinges, two bottom ties, and three hold fasts on either side. All joints are welded for long life.



Door Frames (Mild Steel & Stainless Steel)



Window Section & Windows



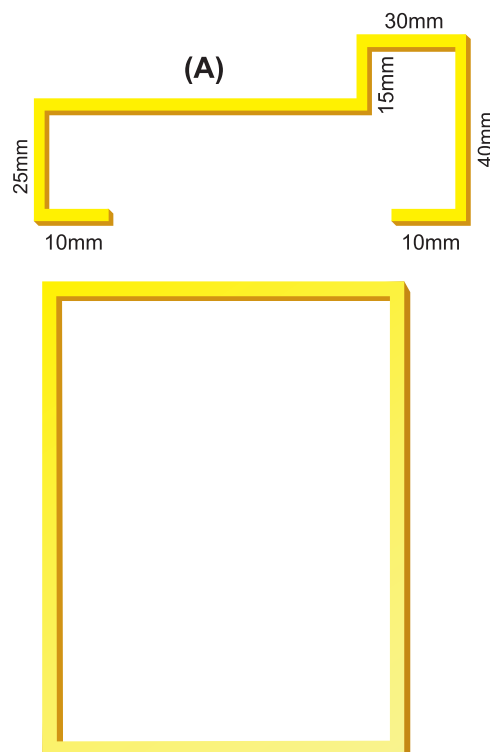
Outer section for fixing Aluminum window in MS.

Advantages:

- Outer frame to be fixed while brick work is going on site.
- No leakage & seepage from surrounding of Aluminum window.
- Aluminum outer pipe not required due to MS frame.
- Grill to be fixed with sub frame so less expenses for fixing of grill.

Technical Specifications

Aluminum	Track	MS (A) Section Size
3/4 series	3	92 mm
3/4 series	2	62mm
3/4 series	4	125mm
1/4 series	4	150mm
1/4 series	3	125mm
1/4 series	2	92mm



MS Door Frame per specification given below.

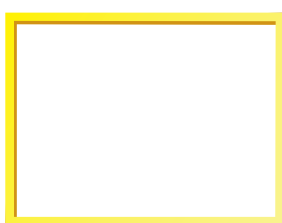
1. Outer frame in 16G or 1.6 thick GI sheet, Section size : 100 x 50mm.
2. SS hinges on doors for fixing of shutter.
3. Shutter in 18G or 1.25 GI sheet, Section size : 50 x 25mm.
4. Hinges in MS for shutter inside the main shutter, 3" inch SS tower bolt, handle and stay on the shutter.
5. 10mm square guard bar on the shutter for protection.
6. SS Aldrop, tadipatti, tower bolt on main shutter.
7. Colour Off-White powder coating Chancel Paint or as per requirement.
8. 4mm thick glass on shutter.
9. Tie angle at the bottom of door frame.
10. Door Frame with shutter to be fix at sight by our workers.



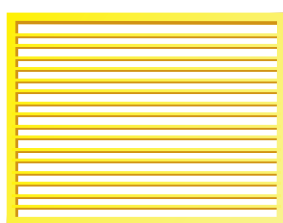
Open Door



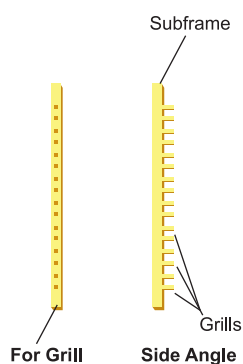
Closed Door



Without Grill



With Grill



Window

SS Cladding & Column

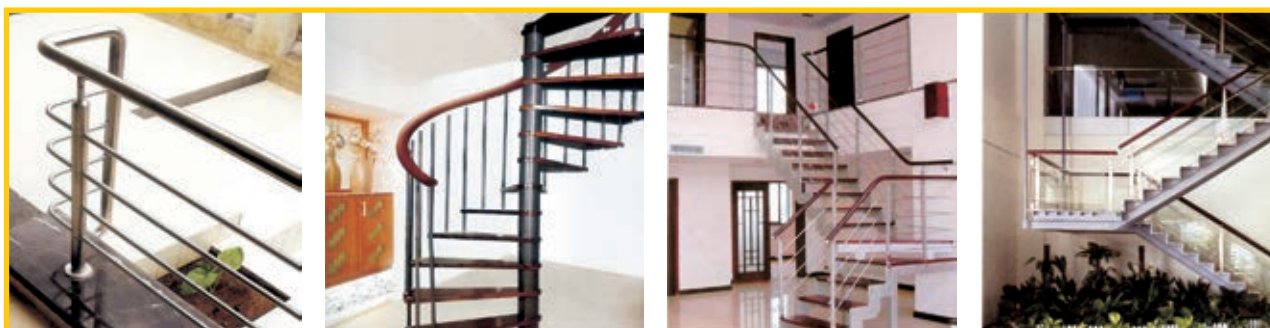


Stainless Steel Railings



SS Steel Column

SS Railing



Waterjet Cutting

Waterjet cutting system have a common design features :

The water is pressurized to 5,000 to 60,000 pounds per square inch, and focus this high-pressure stream through a small orifice made of hard material, such as sapphire or diamond. The stream exits at 2,700 feet per second, or 2.5 times the speed of sound.

A Booster pump supplies water to the cutting unit, and filter removes particles that can damage internal components and interface with a consistent cutting stream. Where hard water is used, ions are removed from the water as well.

The filtered water enters a hydraulically driven intensifier pump that pressurizes it before delivering it to the cutting nozzle. The cutting nozzle is stationary so that material can be fed through the waterjet, or can be integrated with CNC robots so complex shapes can be cut by the waterjet.

Steel



Aluminum



Ceramics



Composite

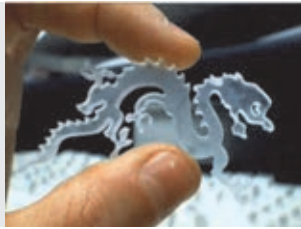


Copper



Waterjet Cutting

Glass



Rubber



Name Plates
for Bungalows, Buildings &
Direction in Any Material



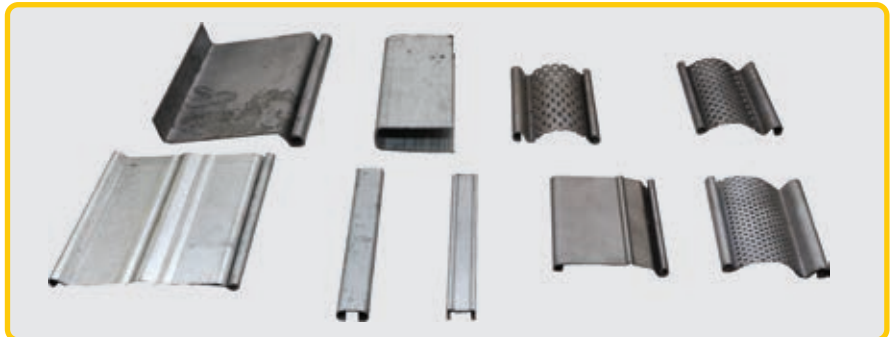
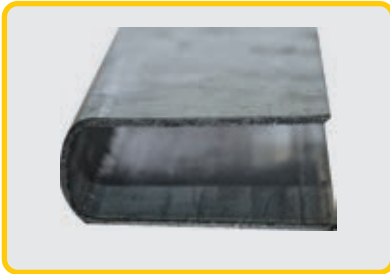
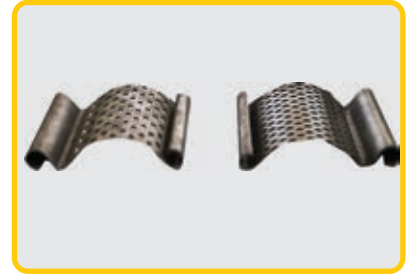
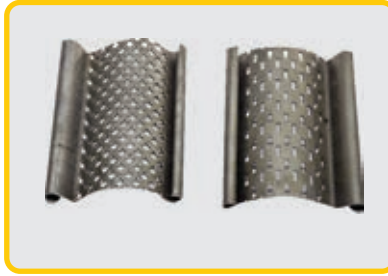
Stone



Wood



Rolling Shutters



Rolling Shutter available in Stainless Steel, Galvanized Material as well as in Powder Coated range of colours



- Specially developed shutter for all kinds of Circular or Angle elevation.
- Also available High Security Rolling and Sliding Shutters.

Our Offices

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We reserve the right to modify product design and specifications without prior notice.

Representative