

Shinna Engineering Pvt. Ltd.

MATERIAL HANDLING SOLUTIONS & CUSTOM FABRICATION

BUCKET ELEVATORS

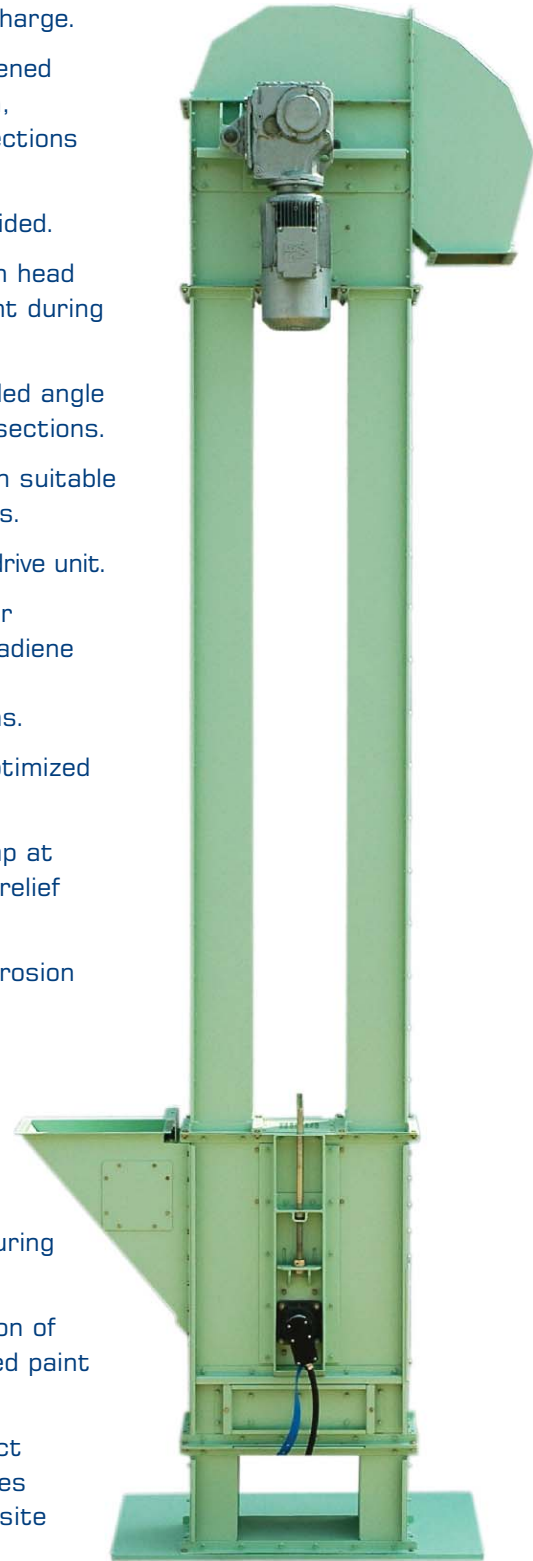


“SHINNA” Bucket Elevators are equipped with following innovative features for maximum efficiency, trouble free performance and ease of operation. With highly corrosion resistant finish for durability and superior appearance these will provide years of high performance, low maintenance and reliable operation for unmatched satisfaction.



- Contoured head design to allow clean product discharge.
- Fabricated from suitable gauge, quality steel, stiffened and flanged for accurate assembly. Modular design, removable head cover profile and bolted/ riveted sections for easier maintenance.
- Clean out panels and dust control connection provided.
- Heavy duty, crown faced, double disc drum pulley in head and boot section ensures continuous belt alignment during working at all speeds.
- Self supporting, dual leg construction with jig welded angle iron flanges ensure accurate alignment of legging sections.
- Standard, Flanged 1.2/2.5 meters legging length in suitable gauge. Front removable panel with inspection doors.
- World renowned, CE approved, IP-55 geared motor drive unit.
- Superior long life elevator belting made of polyester carcass and coated on both sides with Nitrile Butadiene rubber for food grade, oil/heat/abrasion resistant properties, or other grades for specific applications.
- Quality pressed deep drawn, steel buckets with optimized shape for maximum throughput and discharge.
- Micro Switch controlled, hinged, pressure relief flap at head position as well as membrane type pressure relief panels for enhanced safety.
- Belt tension screws precision machined out of corrosion resistant acme threaded rod.
- Inlet Chute with optional magnetic cassette.
- Flanged bearings, sealed for life, with dust seals.
- Boot shaft fitted with rotation detector for PLC interface.
- Seed boot, for easy removal of residual material during cleaning, can be provided if required.
- Shot blasted surface followed by sprayed application of epoxy primer and finish coats of Polyurethane based paint to RAL6019/Customer's choice.

All units are initially shop assembled to ensure perfect fitting and alignment. Prior to shipping, the assemblies are carefully labeled and section wise packed to suit site conditions and transportation.



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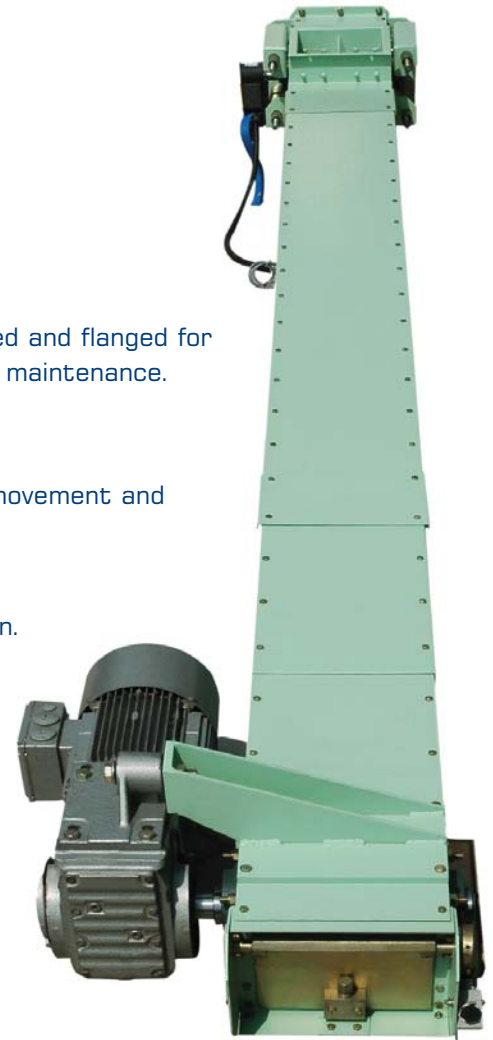
CHAIN CONVEYERS



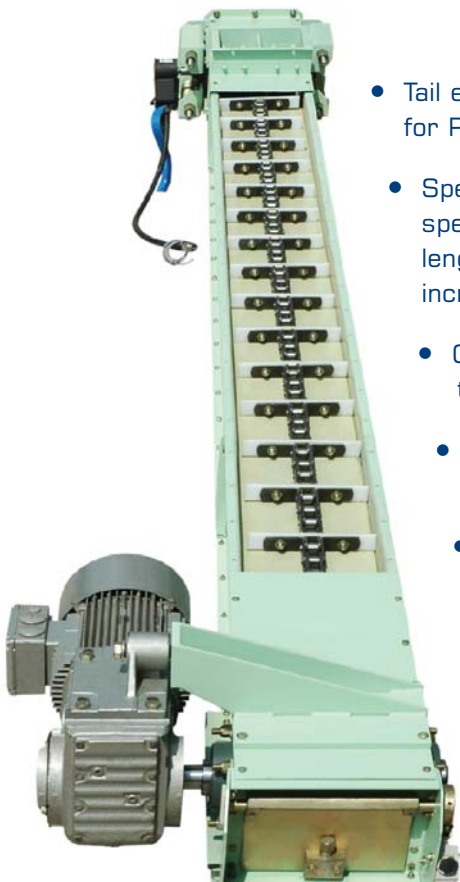
“SHINNA” Chain Conveyers are equipped with following innovative features for maximum efficiency, trouble free performance and ease of operation. With highly corrosion resistant finish for durability and superior appearance these will provide years of high performance, low maintenance and reliable operation for unmatched satisfaction.



- Fabricated from suitable gauge, quality steel, to suit machine duty, stiffened and flanged for accurate assembly. Modular design and bolted top cover section for easier maintenance.
- Cleanout panels and dust control connection can be provided optionally.
- Fitted with UHMWPE support strips for low friction, noise reduced chain movement and enhanced casing life - On special request.
- Standard Flanged inlet/outlet. Can be provided loose/ customized for site adjustments; with motorized, electropneumatic or rack and pinion operation.
- World renowned, CE approved, IP55 geared motor drive unit.



- Tail end shaft fitted with rotation detector for PLC interface.
- Special heat treated chains in alloy steel with special flight fixing arrangement. Standard lengths of 3 meters with specific link level increments can be provided.
- Chain adjustments by means of double acme threaded screws and self aligning adjusters at tail end.
- Specially contoured UHMWPE flights for maximum conveying efficiency and abrasion free long working life.
- Micro switch fitted hinged, safety relief flap door.
- Flanged bearings, sealed for life, with dust seals.
- Shot blasted surface followed by sprayed application of epoxy primer and finish coats of Polyurethane based paint to RAL6019/Customer's choice.



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SCREW CONVEYERS



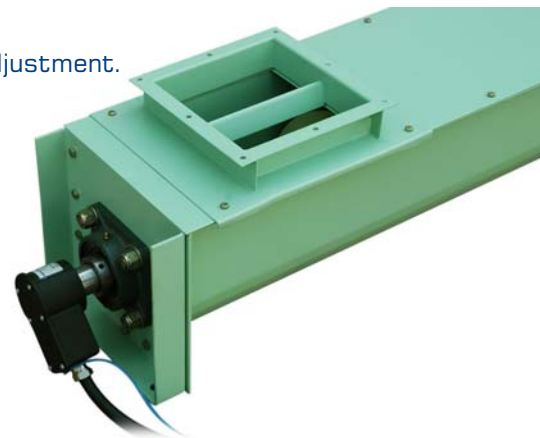
“SHINNA” Screw Conveyers are equipped with following innovative features for maximum efficiency, trouble free performance and ease of operation. With highly corrosion resistant finish for durability and superior appearance these will provide years of high performance, low maintenance and reliable operation for unmatched satisfaction.



- Deep “U” type fabricated from suitable gauge, quality steel and flanged for accurate assembly. Modular design and bolted top cover sections for easier maintenance.
- Cleanout panels and dust control connection can be provided optionally.
- Tapered worm design available for special applications; with extended flanged inlet.
- Standard 3 mm flight segments pressed individually and butt welded to form a continuous flight. Mounted on seamless tubular shaft. Ends sleeved and machined for accurate fit.
- Right or left hand screw can be supplied as per customer's choice.
- Alternative flight designs / Tubular Augers are available for special applications.
- Tubular worm shaft with intermediate solid gudgeon pins, machined for tight fit.



- Standard Flanged inlet/outlet. Can be provided loose/ customized for site adjustment.
- World renowned, CE approved, IP-55 geared motor drive unit.
- Micro Switch fitted, hinged, safety relief flap door.
- Non drive end shaft fitted with rotation detector for PLC interface.
- Flanged bearings, sealed for life, with dust seals.



- Specially designed, intermediate hanger bearings with UHMWPE inserts for enhanced life.
- Shot blasted surface followed by sprayed application of epoxy primer and finish coats of Polyurethane based paint to RAL6019/Customer's choice.

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ELECTRO-PNEUMATIC/ROTARY/HAND SLIDES

“SHINNA” offers a wide range of Electro-Pneumatic/Motorized/Chain & Sprocket/Hand slides for handling and controlling flow of grain, bran, husk and dust etc.

A wide range of assembly methods ensure fast and effective joining with ducts, branches and other fittings. Inlet/outlet connections to suit any process specific needs can be custom fabricated.

- Standard models in MS fabricated constructions. SS can be offered on request.
- Standard sizes available in the range of 100 mm to 600 mm square / rectangular.
- Slide gate moves on long life UHMWPE machined rollers for frictionless and noiseless travel.



- Compact design with smooth internals avoiding damage to grains.
- Can be operated by hand wheel, chain and sprocket, pneumatic cylinders and electric motorized gear box.

- CE approved international quality electro-pneumatic components.
- All sides are fabricated with CNC punching for all developed contours and CNC pressed or rolled to shape.
- Shot blasted surface followed by sprayed application of epoxy primer and finish coats of Polyurethane based paint to RAL6019/Customer's choice.

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DUCTING & ACCESSORIES

"SHINNA" offers a wide range of round and square ducting for conveying grain, bran, husk, dust and aeration of silos etc.

- Round ducting ranges from 80 mm to 1000mm or more in diameter and includes a full choice of accessories and supports.
- Square ducting, to any size, including a full choice of accessories and supports can be provided to suit client's requirements.

- A wide range of assembly methods ensure fast and effective joining of duct, branches and other fittings.
- Manufactured in standard MS or SS as per clients' choice. The ducting and accessories are fabricated with CNC punching for all developed contours and CNC pressed or rolled to shape.



- Sheet materials/Special liners/Thicknesses can be provided to suit any performance requirements.
- Pipes are cut on a hydraulic band saw and all welding is done by MIG/TIG process for superior joint flush and finish.
- Shot blasted surface followed by sprayed application of epoxy primer and finish coats of Polyurethane based paint to RAL1015/Customer's choice.

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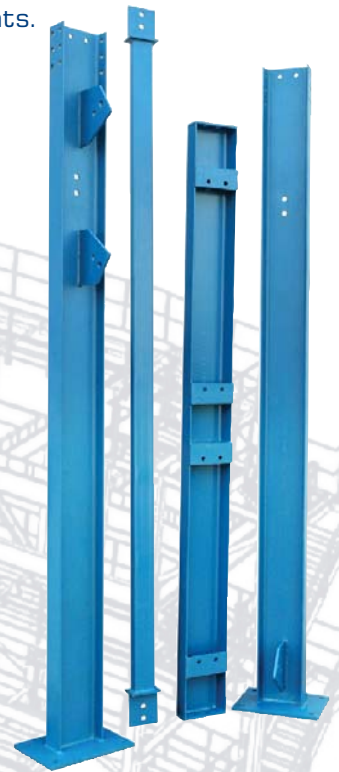
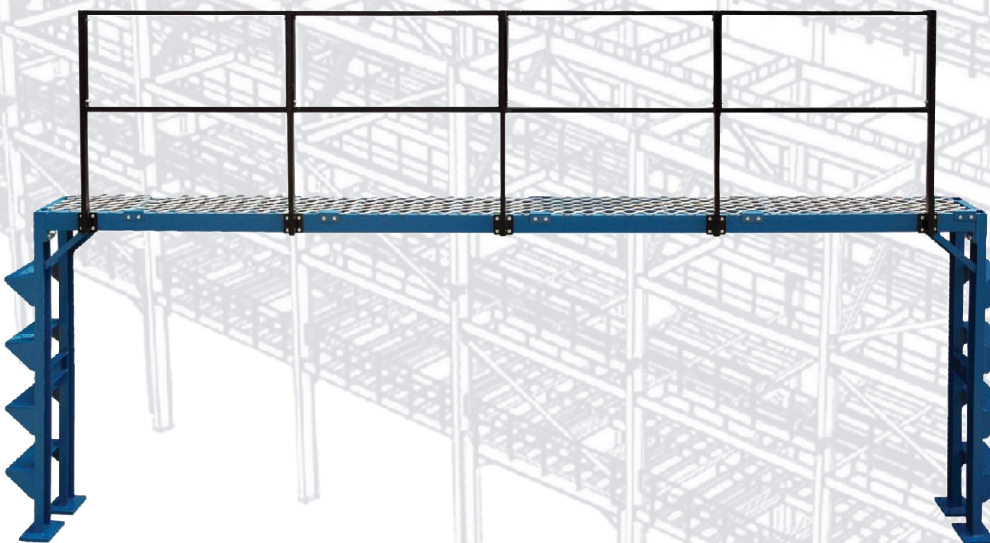
CUSTOM FABRICATION-MACHINERY, EQUIPMENTS & STRUCTURALS

"SHINNA" specializes in precise shop fabrication of all kinds of medium & heavy Structurals, Tanks, Pressure Vessels, in MS/SS/Aluminium etc. Special Purpose Equipments, Import substitution items, custom fabricated to your designs using the latest in metal fabrication techniques e.g. CNC Punch press/CNC Press break/NC Shearing/CNC Notching/TIG /MIG/MMA welding, Dynamic Balancing, Motorized plate rolling etc.



Following are the highlights of our state of the art facilities:

- Operational since 1997.
- More than 75,000 SQ Feet of covered area for operations and storage of finished goods and more than 25,000 Sq feet of open stockyard.
- Two Nos. over head cranes of 5 MT each and one Fork lift of 1 MT.
- 150% Captive Power Generation.
- Residual Engineering done on Autocad stations.
- Section Cutting upto 457 mm sq. by latest hydraulic Band Saw.
- Largest structural section being handled is UB 914 x 305 @253 KG/mtr x12 mtr. Long.
- Motorized, 100 Tons, Hydraulic press for straightening of all sections.
- In-House machine shop consisting of heavy duty Lathes, Shapers, milling machines, radial drilling machines, magnetic base drilling machines, 100 Tons mechanical power press, Universal nibbling and shearing machine, power hack saw, bench grinders, angle cutters, Swaging machine, PUG cutting machines, Plasma cutting machine etc.
- Standard and special purpose Jigs and Fixtures for precision fitment, fabrication and assembly.
- State of the art hand tools, measuring instruments.
- In House Shot Blasting, Electrostatic and Airless spray painting facilities for epoxy/polyurethane primer and finishes.



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HOPPERS, STORAGE BINS & TOTE BINS

“SHINNA” offers a wide range of Round, Square, Rectangular and Tapered Hoppers, Bins and Tote Bins for storing/handling grain, bran, husk and dust etc. This includes a full choice of accessories and supports.

A wide range of assembly methods ensure fast and effective joining with ducts, branches and other fittings. Inlet and Outlet connections to suit any process specific need i.e. flanged/with slides/hinged flaps etc. can be provided for trouble free interconnections. Bolted construction for compact transportation and reassembly at site can also be given.



Manufactured in standard MS or SS as per clients' choice. The Hoppers/Bins/Tote Bins are fabricated with CNC punching for all developed contours and CNC pressed or rolled to shape. Special Liners can be given on request.



Sections are cut on hydraulic band saw and all welding is done by MIG/TIG/MMA process for superior joint flush and finish.

Shot blasted surface followed by sprayed application of epoxy primer and finish coats of Polyurethane based paint to RAL1015/Customer's choice.



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