

NEW INNOVATION FOR FORGING INDUSTRY WE SIMPLIFY YOUR PRODUCTION.. HIGH QUALITY PRECISION AUTOMATION

Welcome to the world of Precision Products.



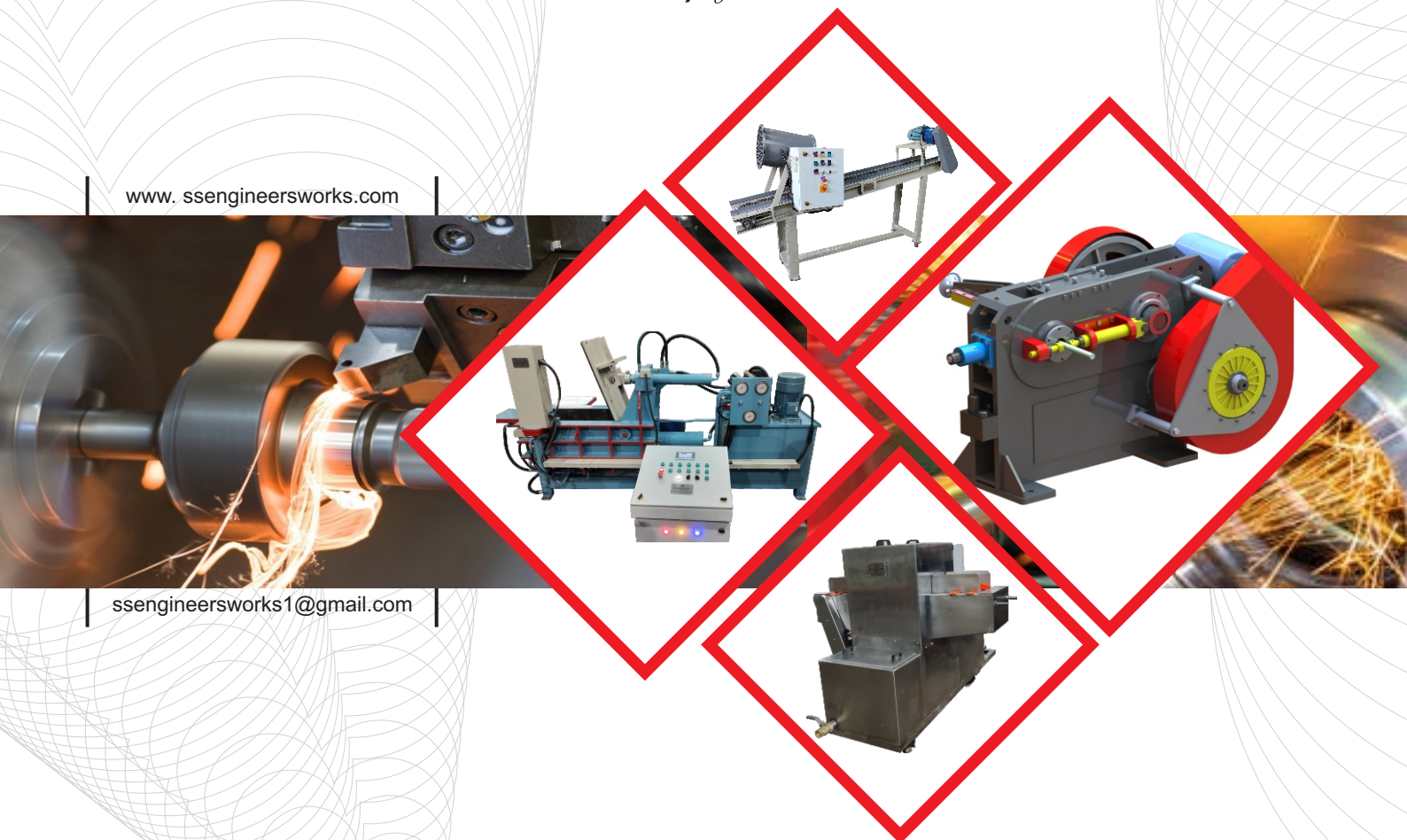
S.S. Engineer's Works

An ISO 9001 : 2015 Certified Company

The Base of your Success

www.ssengineersworks.com

ssengineersworks1@gmail.com



15 YEARS EXPERIENCE IN HANDLING HOT MATERIALS
ALL TYPE AUTOMATION FOR HOT FORGING INDUSTRY



About US



Our organization, **S.S. ENGINEERS WORKS**, started business in the year 2008, as manufacturing unit:-

1. High Speed Bar Cropping Machine.
2. Automatic Bar Loader & Feeder Machine.
3. Automatic Die Lubrication Systems.
4. Hydraulic Machine Products
5. Oil Deep Conveyor with Job Counters.
6. Conveyor Products
7. De-Scaling Products
8. Hydraulic Scrap Baling Press.
9. Electric Vehicle Assembly Line
10. Spare Parts

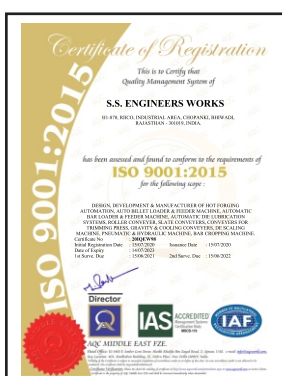
and other products with the mission to offering our clients the best solutions in the market. Today, with our clients spread across the broad industry spectrum, we have become a force to reckon within our genre of products. To meet the growing market demand we have set up two manufacturing plants, Unit – I is at New Delhi and Unit – II at Chopanki, Bhiwadi. Motivated by the exceptional eagerness with which our product range has been accepted, we have embarked upon an ambitious progressive trail with product innovation and development.

We have tightened the belt of our capability with manpower, infrastructure and technology to support us in all our business operations. We are clued into the latest development taking place in the industry.

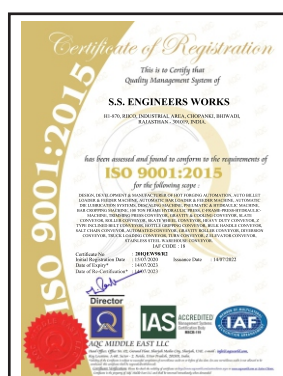
Our Security:- Company will provide you 100% safety regarding Products and payment. We deliver the projects on time, After Complete your projects , We provide you 100% warranty according to products.

Our Process: It all starts with your requirement, Our Experts will help you to make your products better. Whether we are working directly with you on design and products quality.

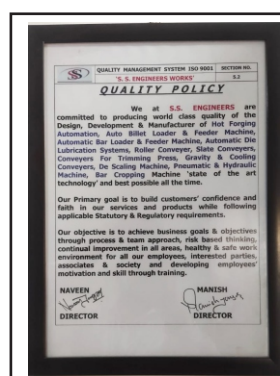
CERTIFICATIONS



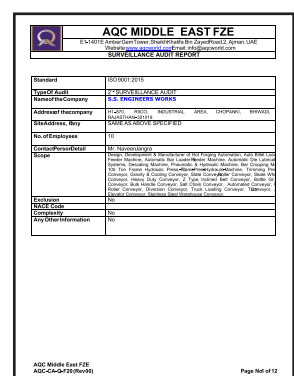
2021-22



2022-23



Quality Policy



Audit Report

OUR CLIENTS

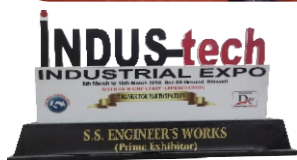
				
				
				
				
				
				
				
				
				



INDUS-tech®

S.S. Engineer's Works

MACHINE TOOL & AUTOMATION EXPO
(FARIDABAD 2022)



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MACHINE TOOL & AUTOMATION EXPO
(BHIWADI 2019)



High Speed bar Cropping Machine

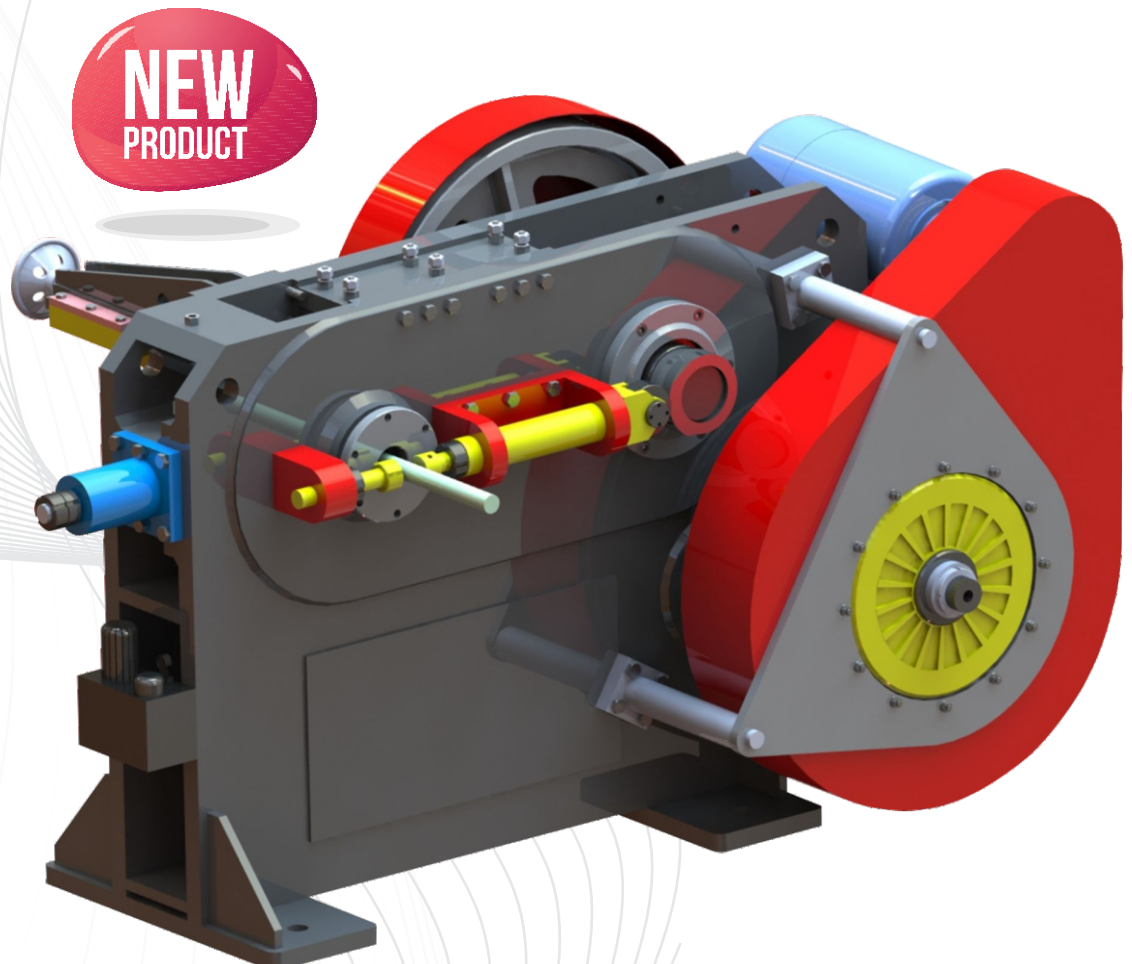
- Hydraulic Bar clamping before the bar cutting.
- PLC Controlled Oil Lubrication System Make Cenlube.
- All Gear and Pinion running in oil.
- Separate Air Backup Tank.
- Electric Panel PLC Control.
- All Bearing NTN Make.

TECHNICAL SPECIFICATION

Material	Roundness	Stress Deformation	Taper Angle	Weight Variation
JIS Grade	S1=1-(E/D)	S2=(T/D)	0.6	%, (B/D=2)
S30C	0.952	0.29	1.6	±0.7
S45C	0.967	0.18	1	±0.5
S55C	0.97	0.17	0.8	±0.5

SPECIFICATION OF BAR CROPPING MACHINE

Model		50	75	100
Number Of Cuts Per Minute	Max.N-1	40	30	25
Round M.S/Alloy	Max. Mm	50/40	75/65	100/80
Square	Max. Mm	40	60	90
Measuring Length	Mm	35/300	50/300	50/300
Bar Length	Max. Mtr.	6	6	6
Loading Table Capacity	Tons	3	5	8
Clutch And Brake Type	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Installed Power	HP	13	23	35
Main Motors Power	HP	10	20	30
Air Pressure	Kg/Cm2	5.5	5.5	5.5
Oil Lubrication	Auto	Auto	Auto	Auto
Electrical Control	PLC	PLC	PLC	PLC
Weight Aprox	In Kg	10000	16000	22000



Equal Length with Straight Edge

Automatic bar loader and feeder machine its use for auto feeding round bar on bar cropping machine for continuous cutting. This machine save the cutting time and give fast production. The cutting material weight is equal after installing this machine. Gripper assembly holds the bar before the cutting its operate by pneumatic cylinder.

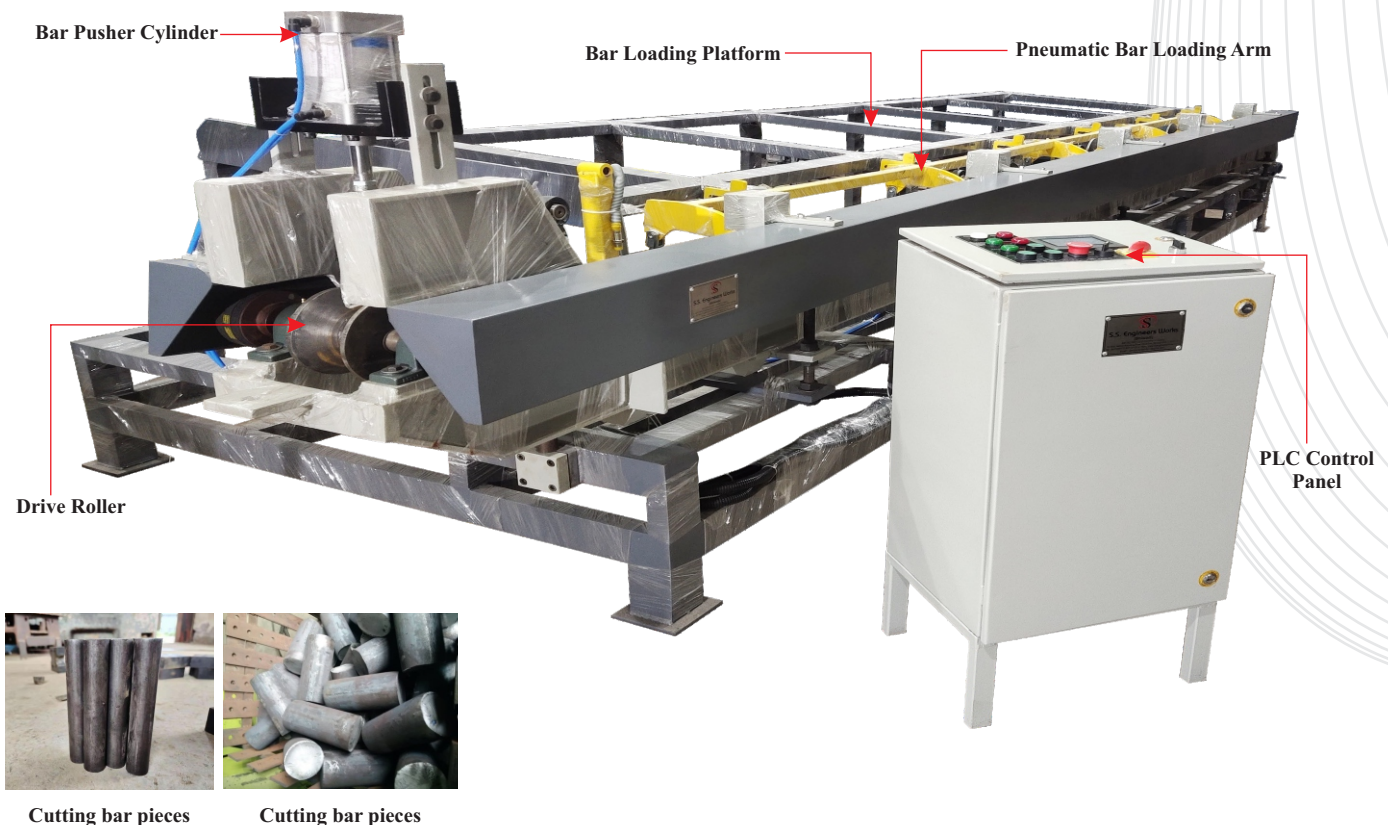
Complete Set Automation for Bar Cropping machine: Number of machines:-

1. Automatic bar Loader and feeder machine
2. PLC Control Panel
3. Gripper Assembly
4. Trimming Conveyor

Technical Specification of Automatic Bar Loader and Feeder Machine

- Length: 6500 mm Width: 1600mm Feeding height: 950mm
- Bar Feeding: 18 Mtr. per minute
- Loading Arm Travel: 100mm
- Height Adjustment ± 150 mm

Model No. 1: 25mm to 50mm, Model No. 2: 40mm to 75mm, Model No. 3: 50mm to 110mm



Bar Feeder Machine

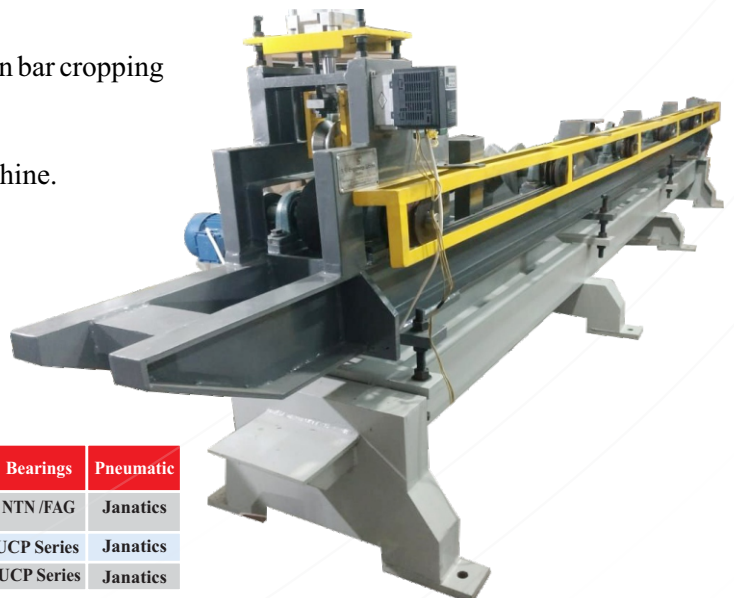
- *Bar Feeder machine its use for feeding round & square bar on bar cropping machine for cutting.
- *This machine save the cutting time and give fast production.
- *The cutting material weight is equal after installing this machine.

This machine install on:

1. Bar cropping machine.
2. Trimming Press
3. Old Model Bar Cropping Machine

Technical Specification:

Model SSEW	Machine Length	Machine Width	Feeding Height	Motor (H.P)	Gear Box	Electric Control	Bearings	Pneumatic
	H (mm)	W (mm)	F(mm)	3 Phase	Helical	SSEW	NTN/FAG	Janatics
SSEW 25-50	6000	600	950	2H.P	37:1	Siemens	UCP Series	Janatics
SSEW 50-100	6000	750	700	3H.P	37:1	Siemens	UCP Series	Janatics



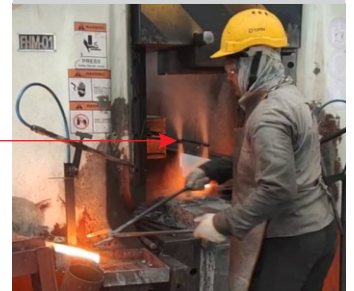
We are the only manufacturer in all over India. This machine use after forging, a layer of **Graphite** is placed on hot dies by auto-die lubrication system. It helps keep the die temperature stable and prevents sticking. Synchronized with hot forging press. It saves your **Labor/ Graphite** cost and improved production.

Technical Specification:-

- Dimension: – H 1200mm x L1400mm x W 500mm Height
- Height Adjustable As Per forging die (+100mm)
- Electric Control:- Suitable electric panel with PLC you control.
- Moveable Spare Unit.
- Adjustable Graphite setting by needle valve.
- Dual action Spray.
- Separate Graphite Tank. Capacity 100 Ltr.



Installed on Hydraulic CNC Hammer



Installed on 400 Ton Hot Forging Press



Stainless Steel Manual Die Lubrication System

Fabricated by using stainless steel sheet 304 grade. The 2inch Ball Valve top side helps for easy feeding. This is air pressurized tank not required any type of Electric motor, die Diaphragm pump. Machine operation cost is very low and maintenance cost is 0% according to the other type of lubrication system. We gives 3-year warranty of Stainless steel tank. This machine manufacturing in mild steel also.

Technical Specification:-

- Material is in Stainless Steel 304 Grade
- Tank Capacity 100 Ltrs.
- Dual action Spray gun.
- Level gauge.
- Moveable Trolley wheel.
- Adjustable Graphite Setting by needle Valve.
- High Gloss Finish
- 0 to 5 Kg. Pressure required
- Safety Valve.
- NRV 1/4".
- Auto Drain Valve for Auto Mixing

WARRANTY 3 YEARS

Stainless Steel 304 Grade



WARRANTY 1 YEAR

Mild Steel



Our Hydraulic Machine Products

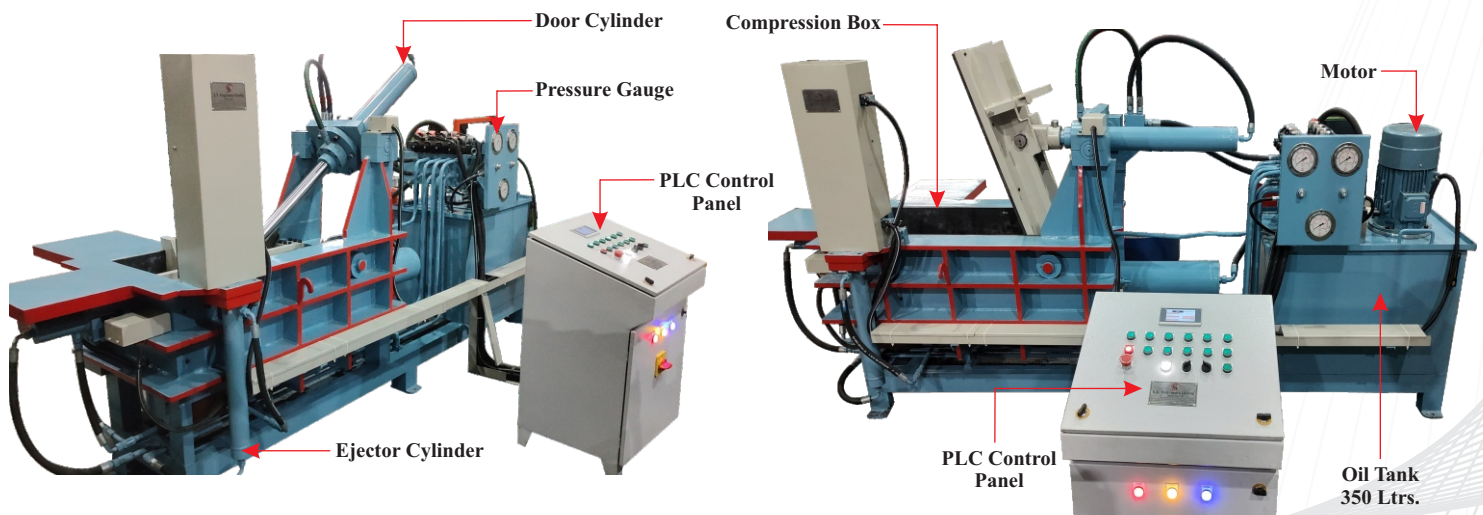
Automatic Scrap Baling Press Machine

Due to Expansion in Industry , To keep The Scrap generated through Turning , Chipping , Require Huge Space to Keep the Scrap in Factories , Scrap Yards , Ferrous smelting plants , Non – Ferrous Metal remolding Plants which is very costly . To Overcome the Situation SS Engineer's Works Technical Team has Indigenously Designed and Developed Scrap Baling Machines . The Loose Scrap (Turning Scrap , Wire , Cans , etc.) is Compressed inside the Baling Machines and after compaction for Getting Square or Cuboidal Shape .

SSEW Team Has Developed Various Models of Double and Triple Acting Scrap Baling Press with Manual and PLC Controls conforming Safety.

Technical Specification of Scrap Baling Press Machine

BALE SIZE	MODEL NO.	TYPE	COMPRESSION BOX (H x W x L)	BALE SIZE (H x W x L) (INCHES)	WEIGHT OF THE BALE (Approx. in Kgs)	ELECTRIC MOTOR	TONNAGE				IDEAL CYCLE TIME (SECONDS)	OIL TANK CAPACITY (LTRS)	Raw New MACHINE WT (TONS) APPROX	NEW MACHINE WT (TONS) APPROX	MACHINE WT (TONS) APPROX	HARD LINER PLATES
							FORCE ON LID CYL (TONS)	FORCE ON MAIN CYL (TONS)	FORCE ON SIDE CYL (TONS)	FORCE ON EJECTOR CYL (TONS)						
200*200	SSEW-1	TRIPLE ACTION	16" X 17" X 31"	8" X 8" X 8-10"	12-20	10 H.P.	14	57	70	7	60 - 80	200	3.5	2.9	2.5 - 3.0	OPTIONAL
200*200	SSEW-1	TRIPLE ACTION	16" X 17" X 31"	8" X 8" X 8-10"	20 - 25	15 H.P.	14	57	70	7	60 - 80	200	3.5	2.9	2.5 - 3.0	OPTIONAL
304*304	SSEW-2	TRIPLE ACTION	20" X 20" X 51"	12" X 12" X 10-12"	35 - 50	25 H.P.	27	85	110	14	70 - 80	400	5.9	4.4	4.0 - 4.5	OPTIONAL
355*355	SSEW-3	TRIPLE ACTION	24" X 24" X 50"	14" X 14" X 12-14"	40 - 55	30 H.P.	30	75	110	14	70 - 90	800	6.7	5.1	5.0 - 5.5	OPTIONAL
380*380	SSEW-4	TRIPLE ACTION	30" X 38" X 75"	15" X 15" X 12-15"	60 - 75	40 H.P.	70	100	160	14	70 - 90	800	8.3	6.5	5.5 - 6.0	OPTIONAL
405*405	SSEW-5	TRIPLE ACTION	24" X 30" X 60"	16" X 16" X 14-16"	70 - 90	50H.P.	70	110	160	14	70 - 90	1000	9.1	7.2	6.0 - 7.0	PROVIDED
457*457	SSEW-6	TRIPLE ACTION	30" X 40" X 60"	18" X 18" X 15-18"	130-145	60 H.P.	80	125	180	14	91 - 110	1500	11.7	10	9.0 - 10.0	PROVIDED
558*558	SSEW-7	TRIPLE ACTION	36" X 40" X 84"	22" X 22" X 20-22"	250-290	75H.P.	100	150	200	15	100 - 120	2000	14.2	12	17.5 - 18.0	PROVIDED



Before



After



Scissor Lift are not one of the popular equipment of Material Handling in the indian industry and are being used for variety of Application.

This specially designed and equipped scissor lift with Hydraulic POP Lift.

Chain Conveyor installed on Transfer the Loaded Bucket tray.

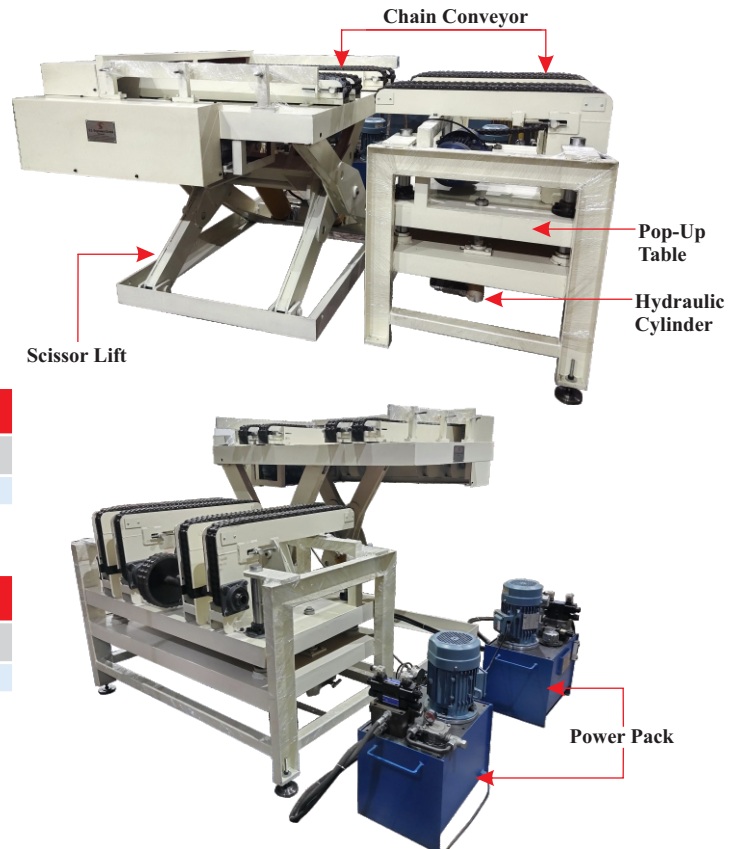
This machine is used to transfer the loaded Bucket from pop up table to scissor lift by the roller chain conveyor.

Technical Specification (Scissor Lift) :-

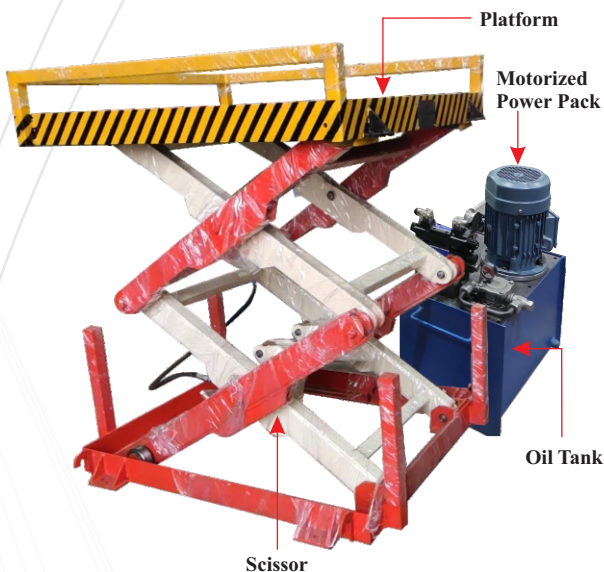
Scissor Lift	Max point of Rise	Min point of Landing	Platform width	Platform Length	Stroke	Max load
	H (mm)	h (mm)	W(mm)	L(mm)	(H-h)(mm)	in Ton
SSEW 1	1500	300	1000	1500	1200	1.5 Ton

Technical Specification (Pop-up Table Lift) :-

Pop-up Table Lift	Max point of Rise	Min point of Landing	Platform width	Platform Length	Stroke	Max load
	H (mm)	h (mm)	W(mm)	L(mm)	(H-h)(mm)	in Ton
SSEW 1	150	0	1000	1500	150	1.5 Ton



Platform Scissor Lift



Technical Specification:-

- This machine operates by motorized Hydraulic power pack.
- Capacity: 1 Ton
- Bed Size : 1000mm x 1250mm
- Lifting Height: 400mm to 1250mm
- Oil Tank capacity: 50 Ltrs.

Model SSEW	Max point of Rise	Min point of Landing	Platform width	Platform Length	Stroke	Max load
	H (mm)	h (mm)	B(mm)	L(mm)	(H-h)(mm)	in Ton
SSEW 1-1.25	1650	400	1000	1500	1250	1 Ton
SSEW 2-2.00	2650	450	1100	1800	2200	1.5 Ton

Hydraulic Die Loader machine is used for loading & unloading forging die on forging press our hammer.

It's a moveable scissor lift easy to handle transfer the die from the die shop.

Technical Specification:-

- This machine operates by manual Hydraulic pump.
- Capacity: 2 Ton
- Bed Size : 670mm x 1270mm
- Lifting Height: 400mm to 1250mm
- Bed Rollers for Easy to Push Heavy Die on Press.
- Wheel for Easy to Movement.

Model SSEW	Max point of Rise	Min point of Landing	Platform width	Platform Length	Stroke	Max load
	H (mm)	h (mm)	B(mm)	L(mm)	(H-h)(mm)	in Ton
SSEW 1	1250	400	700	1250	850	1 Ton
SSEW 2	1500	400	700	1500	1100	1.5 Ton

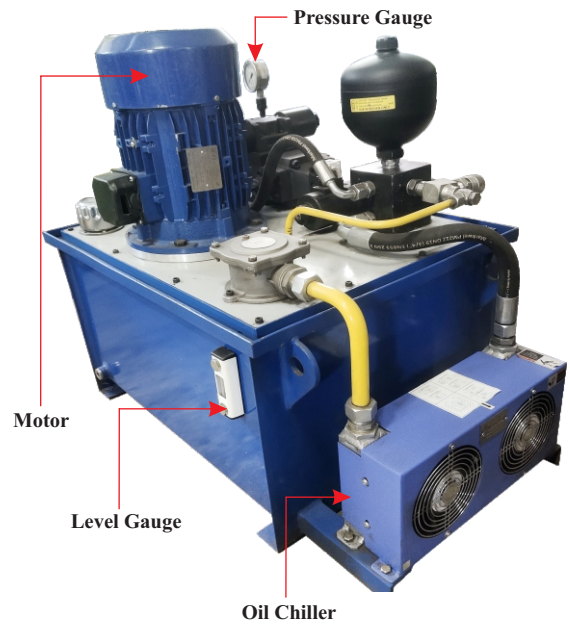
Hydraulic Die Loader



A hydraulic power pack is a self-contained unit that consists mainly of a motor, a tank / reservoir hydraulic pump, valves, gauges. Using fluid to transmit power from one location to another, hydraulic power packs can generate massive amounts of flow and pressurised oil to drive hydraulic machinery like.

Our Manufacturing Specifications:-

- With knowing the application we can design and manufacture
- Upto 250-300 tons capacity
- All types of valve available
- Tank size upto 1000 Ltrs
- Light duty and Medium duty Power packs
- Hand Operated as well as by control panel operated valves
- Pumps companies that we use : Rexroth / Yuken / Polyhydron
- Valves companies that we use : Rexroth / Polyhydron / Yuken etc
- Motors companies that we use : Crompton / ABB
- Pump Size : 0.5 up to 100 lpm for Gear pump and Piston pump



Our De-Scaling Products

Brush Type De-Scaling Machine

The "High- Speed brushing De-scaling Equipment. we can be used for the de-scaling the red hot billet come from induction heater or furnace. This machine rotates the brush and drum at high speed the hot billet passes through it, causing the brush remove the scaling on the billet. So that it can improve the forging quality during the forging processing.

Technical Specification:-

- Motor make : ABB / Bharat bijili, RPM :- 1440
- Bearing Make : NTN Japan
- Brush : 0.5mm Thick wire , Wire grade – S.S. 304 Grade
- Electric control Make : Semenis
- Billet input height : 1250mm Output height :- 450mm

Model :-

- 1+1 HP - Billet size 20mm to 55mm
- 2+1 HP – Billet size 45mm to 80mm
- 2+2 HP – Billet size 70mm to 110mm



Before Cleaning After Cleaning



Before Cleaning After Cleaning



This machine can be used for the descaling the oxide skin, so that it can improve the forging quality much during the forging processing.

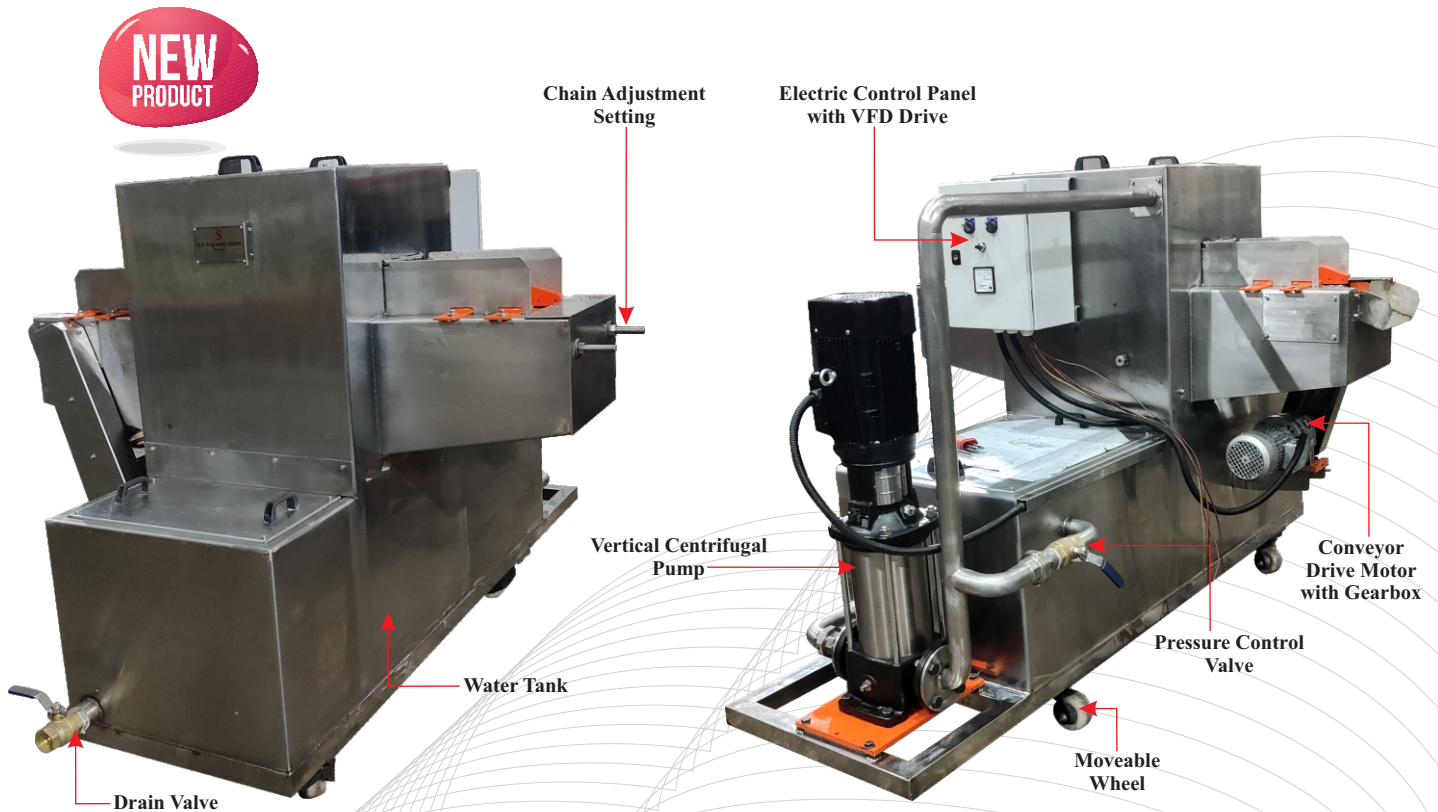
In the oxide skin descaling system, the high-pressure pump can generate the high-pressure water to the spray nozzle.

Due to the high impact of the water curtain on the workpiece surface, the oxide skin is treated by cutting and rapid cooling shrinking, so that it will be descaling from the base.

The "High-Pressure Descaling Equipment" is a device that sprays high-pressure water to remove scale in order to improve the surface texture of objects.

Machine Technical Specification:

Model	SSEW UP-40	SSEW UP-65	SSEW UP-100	SSEW UP-125	SSEW UP-150	SSEW UP-200
Size (L/W/H)	1150x1220x1300mm	1420x1550x1500mm	1420x1550x1500mm	1630x1550x1570mm	1630x1550x1570mm	1630x1610x1500mm
Recommended Raw Material rod diameter	15-40mm	40-65mm	65-100mm	100-125mm	125-150mm	150-200mm
Machine Power	4.5KW	8.25KW	8.25KW	11.75KW	11.75KW	15.75KW
Working Pressure	1.2-1.6 Mpa	1.6-2.0 Mpa	1.6-2.0 Mpa	1.6-2.0 Mpa	1.6-2.0 Mpa	2.8-3.6 Mpa
Material	SS	SS	SS	SS	SS	SS
Nozzle Qty.	12	16	20	24	24	24



Before & After Cleaning



Our Conveyor Products

Oil Deep Conveyor with Job Counter

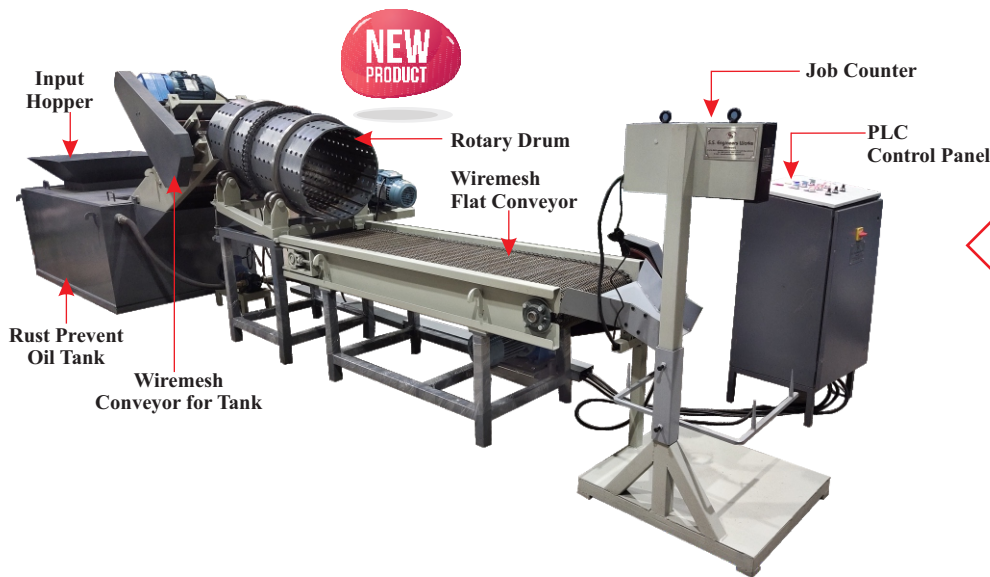
The machine's special design for apply oil on the forging parts before the packing. This machine makes the oiling process very easy, so that the work is done very quickly.
The Machine Process first put the parts in the oil tank, then the conveyor with the oil tank puts those part in the rotary drum, after that the part come on the flat conveyor then go for cutting.

Number of Machines:-

- Oil Tank capacity
- Wire mesh conveyor with oil Tank
- Round Rotary Drum
- Flat Conveyor
- Job counter with display

Technical Specification:-

- : 1100 Ltr.
- : W 500 X L 2400 X H 1450MM
- : Dia600 x Length 1000mm
- : W 500 x L 1500 x H 750mm
- : 6 digit display



Hing Conveyor System

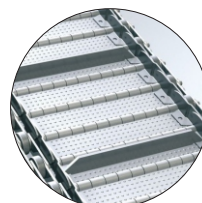
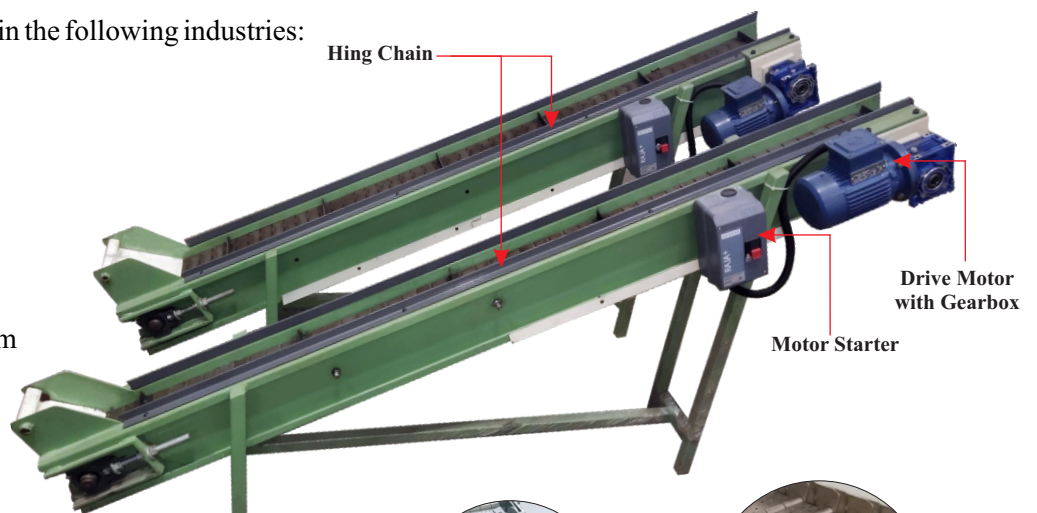
This Machine highly demanded in fastener manufacturing companies. The Steel Hinge Belt is ideal for handling parts, stampings, die castings, screws, scrap, chips, turnings, material wet or dry, horizontal or elevating, single or multiple unit systems.

You will find these belts being used in the following industries:

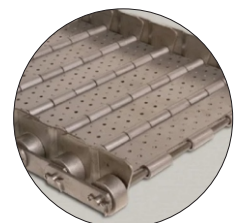
- Waste and Recycling Stamping
- Manufacturing
- OEM
- Foundry and Mining
- Automotive

Technical Specifications:-

- Conveyor Length: 3000 mm
- Conveyor Width : 100 mm - 200mm
- Conveyor
- 2.5mm thickness Hing Chain
- 1.25 inch pitch.
- Motor: 0.5 HP Bharat Bijli make
- 37:1 Premium Gear Box
- NTN make Bearings



Sheet Metal Hing Belt

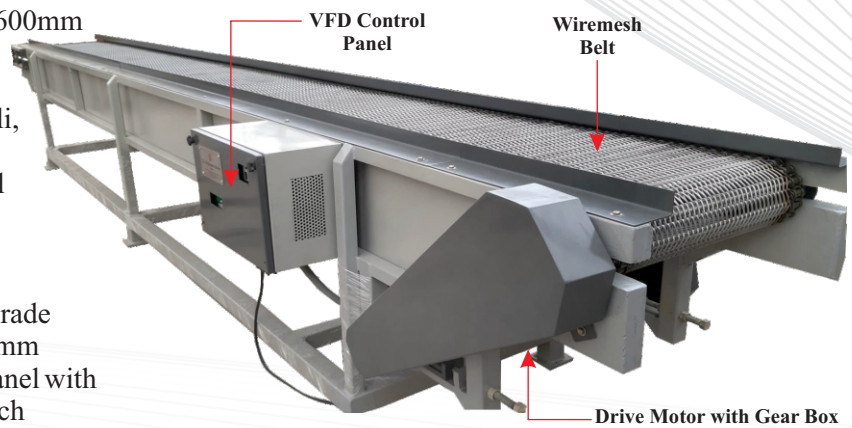


Perforated Hing Belt

This machine is used to transfer the hot material from forging press to trimming press in cold form.

Technical specification:-

- Conveyor length : 4000mm, width : 600mm
- Height : 900mm
- Height adjustment : 100mm (+-)
- Motor make : ABB / Bharat Bijili,
- Gear Box : Premium / bonfiglioli, helical or worm type
- Bearing Make : NTN Japan
- Belt : Wiremesh belt, Material (SS 304 grade wire thickness 3.2mm)
- Power Supply : Electric control panel with VFD drive all switch make Schneider electric, drive Delta.

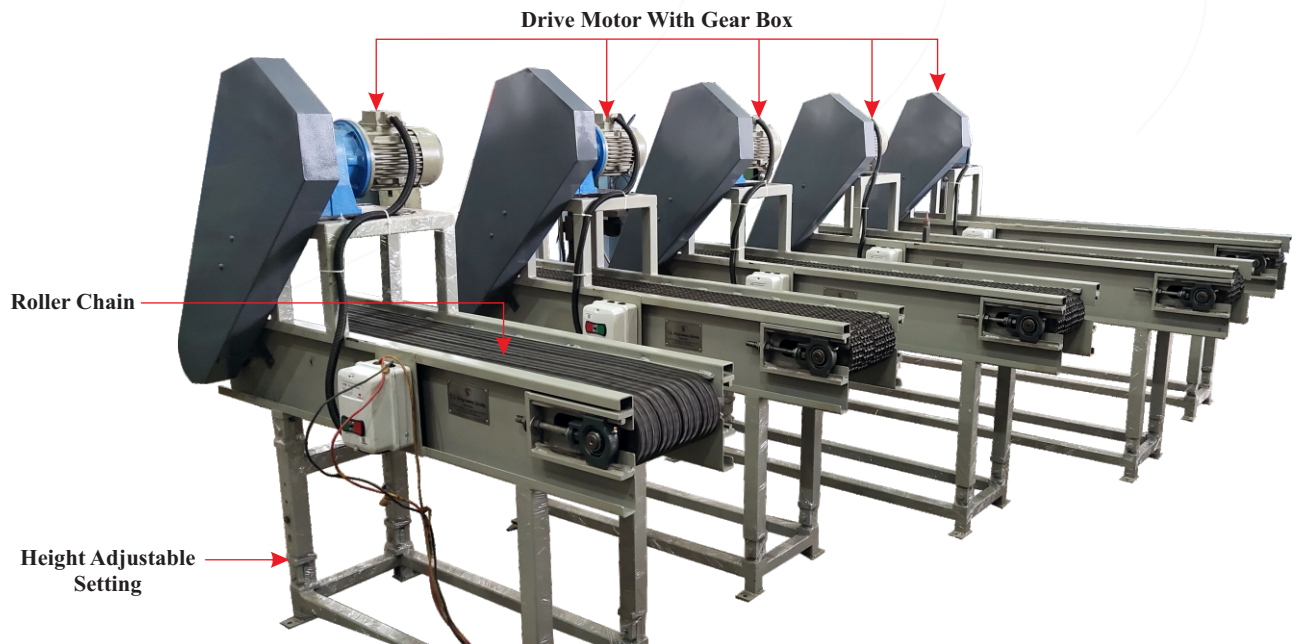


Chain Conveyor

Chain Conveyor highly demanded machine in forging industry its use to move the hot forging part for 1st operation to 2nd operation. its use full any type any shape of forging part. temperature up to 1100 °C.

Technical Specifications :-

- Length : 2200mm
- Width : 300mm
- Height : Input 900mm output 1150mm
- Chain Type : Roller chain Diamond Make
- Motor Make : 1 HP Motor ABB
- Gear Box : 37:1 Bonifiglio Gear Box
- Bearings : NTN Make



Technical Specification:-

- Wire Mesh : S.S. 304 grade wire 3.2mm thickness
1 inch pitch diamond make roller chain.
- Motor : 1HP ABB make
- Gearbox : 37:1 Bonifiglio
- Bearing Make: NTN Japan

This machine is used to transfer the hot material from forging press to trimming press or bin.



Cooling Conveyor

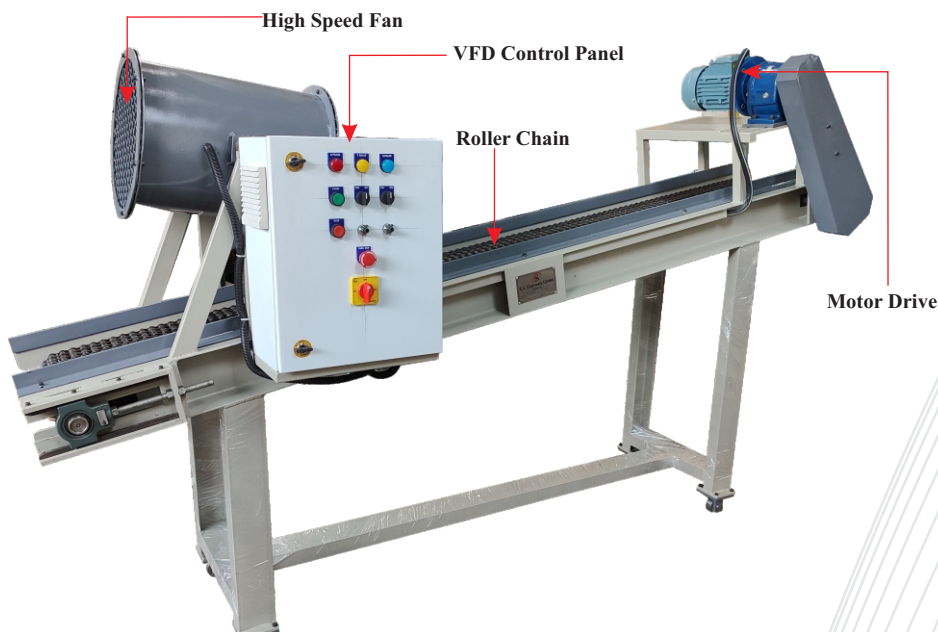
Chain Conveyor with cooling fan Chain conveyor highly demanded machine in forging industry its use to move the hot forging part for 1st operation to 2nd operation. Its use full any type any shape of forging part. Temperature wearing up to 1100 degree calicoes.

Technical Specifications :-

- Length : 2200mm Width :- 300mm
- Height : Input 900mm output 1150mm
- Chain Type : Roller chain Diamond Make
- Motor : 1 HP Motor ABB Make
- Gear Box : 37:1 Bonifiglio
- Bearing : NTN make
- Power Supply : VFD Drive control panel
- Height Adjust. : Upto ± 200 mm

Cooling Fan Details:-

- 1 HP ABB Motor 2800 RPM, Foot Mounted
- Fan Size :- 300mm
- With VFD Control Panel



Belt Conveyor

Belt Conveyor :- Belt Conveyor systems are the most versatile and simplest material handling systems. They work with two or more pulleys driving an endless loop belt. The loop then moves a product from Point A to Point B on the belt. We use belts made from fabric or rubber.

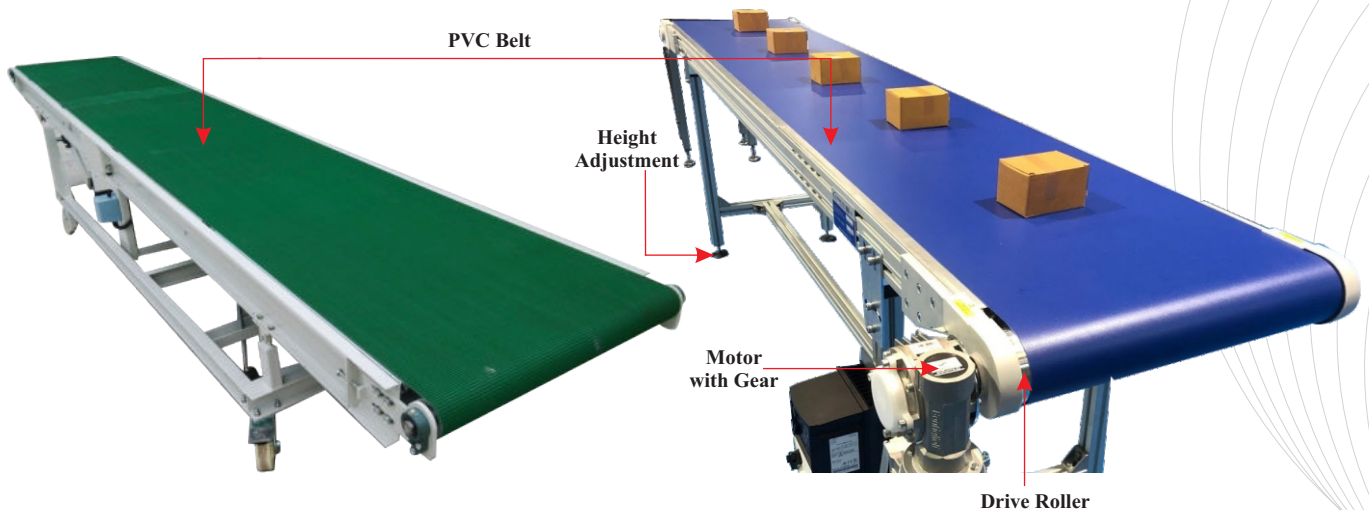
Belt conveyors are commonly used in both manufacturing and distribution facilities.

A belt conveyor is a system designed to transport or move physical items like materials, goods, packaging box etc. from one point to another.

Use when changing the speed is necessary. We can add a VFD (variable frequency drive) for speed control. This works by changing the frequency of the electrical current. A powered conveyor with a belt is a simple conveyor to adjust the speed on.

Technical specification:-

- Conveyor length : 4000mm, width :- 600mm working, height :- 900mm
- Height adjustment : 100mm (+-)
- Motor make : ABB / Bharat bijili, RPM :- 1440
- Gear Box make and type : Premium / bonfiglioli , helical or worm type
- Bearing Make : NTN Japan
- Belt : Joint less belt, Material (PVC, Rubber and Leather)
- Power Supply : Electric control panel with VFD drive all switch make Schneider electric, drive Delta.



Slat Conveyor for Bar Cropping Machine

This conveyor use on Bar Cropping Machine for cutting Direct transfer in bin.

Technical Specification:-

- Slat thickness : 10mm
- Width : 300mm
- Length : 2100mm
- Height : 1200mm
- Motor : 1 HP ABB
- Gear : 37 :1 bonfiglioli
- Input Height : H 300mm
- Roller chain : 2 inch Pitch with both side K2.



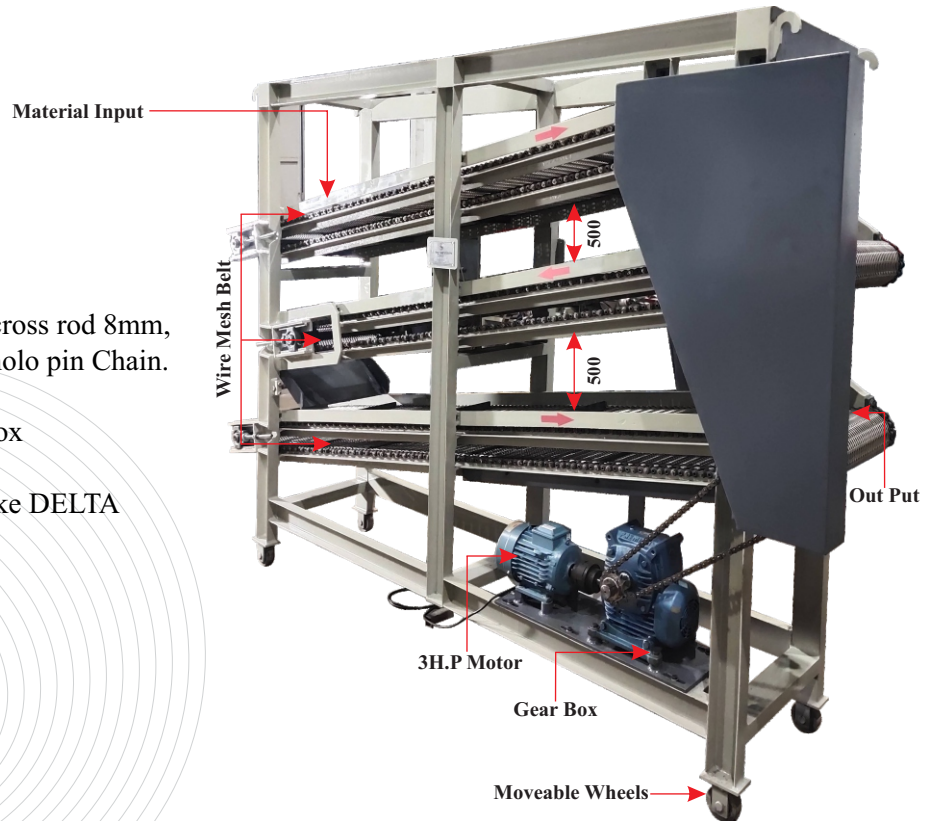
Multiples Floor wire mesh conveyor

This machine is used to bring down the natural temperature of hot material after which it is sent for trimming press process. This is a 3 floor conveyor; all 3 are connected to each other through a single drive. Machine we can control the processing time with variable speed. Wire mesh belt used which is in stainless steel 304 grades and both side 1 inch pitch roller chain.

Technical Specification:-

- Length : 3600mm
- Width In Side : 600mm
- Height : 2600mm
- Mat. input Height : 2000mm
- Mat. output Height : 1000mm
- Wire mesh belt : wire thickness 3.2mm, cross rod 8mm, both side 1 inch pitch holo pin Chain.
- Motor : 3 HP 1440 RPM
- Gear Box : Premium helical gearbox

VFD Drive electric control panel. VFD make DELTA



Roller Conveyor System

What is a Roller Conveyor System? Roller Conveyors use parallel rollers mounted in frames to convey the product. They may be powered by gravity, a motor, or manually.

Roller conveyors are used primarily in material handling applications such as on loading docks, for baggage handling, packaging, or on assembly lines among many others.

The rollers can use gravity, if inclined, to move the product, or manually if mounted horizontally. The conveyors can be straight or curved depending on the application and available floor space. The rollers can also be powered to convey the material.

What are the types of Roller Conveyors? As a Roller Conveyor Manufacturer in India, We are highlighting the major types of roller conveyors used in the Industries:-

- Gravity Roller Conveyor
- Belt Driven Roller Conveyor
- Chain Driven Roller Conveyor
- Line Shaft Roller Conveyor
- Zero Pressure Roller Conveyor

Lenght : 5000mm
Width : 600mm
Height : 1000mm



Benefits of Using Roller Conveyors:- Extremely Low Maintenance and Low Breakdown If a roller should ever need replacing, it is simply pushed sideways before pulled from its location and a new one inserted in its place. A minimum amount of time is needed for such a repair, causing little or no interruption to productivity.

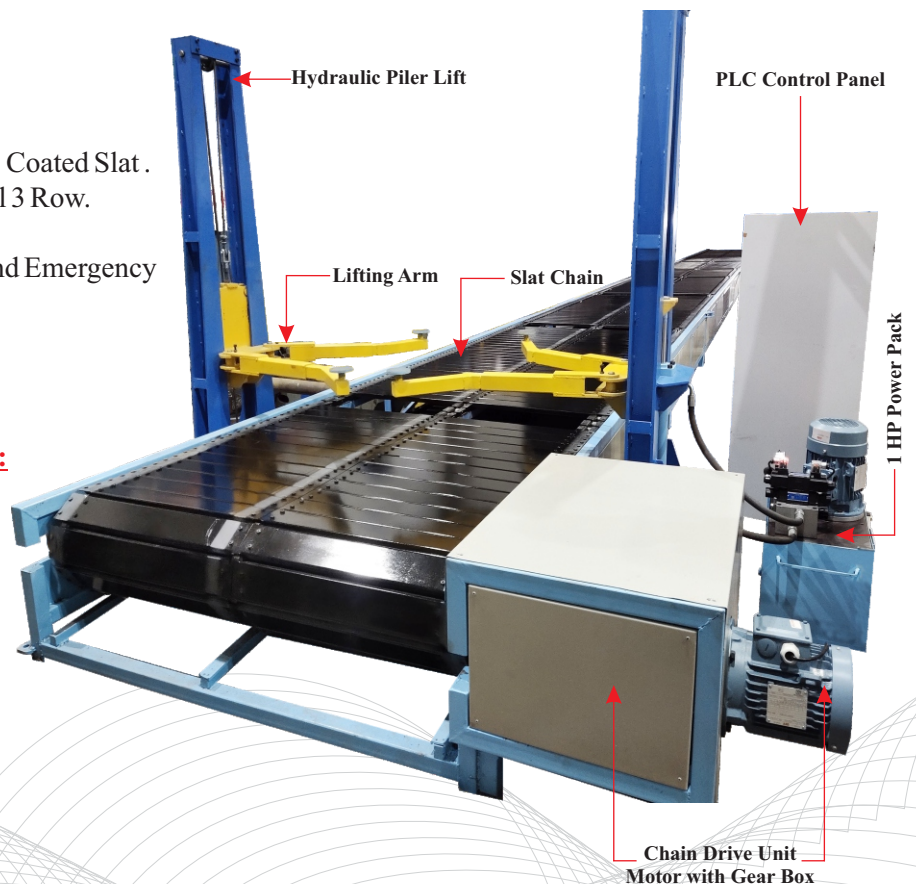


Conveyor Technical Specifications:

- Conveyor Length : 29 Mtrs.
- Conveyor Width : 1600 mm
- Working Height : 500mm
- CNC Cutting and Bending M.S. Black Powder Coated Slat .
- 4" Pitch Both side Attachment Chain Belt. Total 3 Row.
- Conveyor weight wear Capacity: 5 Ton
- 8 Station on Conveyor with Red Buzzer light and Emergency Stop and Start Button.
- PLC Control Panel with VFD Drive.
- Production Display Counter.

Hydraulic Lift & Power Pack Specifications:

- Lift Weight Capacity : 1Ton
- Lift Height : 0 to 1500 mm
- Power pack : 1 H.P
- Pumps make we use : Yuken/ Polyhydron
- Valves make we use : Rexroth / Polyhydron.
- Motors : ABB Crompton.
- Pump Size : 3 LPM for Gear pump.





S.S. Engineer's Works

SPARE PARTS



Pneumatic Seals



Hydraulic Seals



Chevron Seal



S.S./M.S Wire Brush



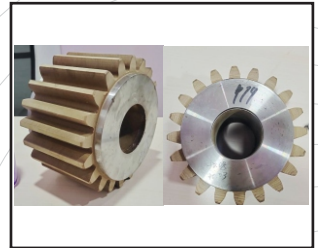
Frication Liner & Blocks



Clutch Lining



Rubber Seals



Pinion

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HYDRO PNEUMATIC PUMP

