



AKASH

INDUSTRIES & SONS.

At Akash Industries & Sons., we take pride in being a trusted name in precision engineering and high-performance machinery. With a commitment to innovation, durability, and efficiency, our machines are designed to meet the evolving demands of modern industries.



ABOUT US

AKASH INDUSTRIES & SONS

We 'Akash Industries & Sons,' are pioneer in manufacturing quality power cable machinery, control cable machinery. Since our inception, we have made rapid inroads in various markets. The wide array of machines manufactured by us are durable and meets the latest technology and safety standards as per the international markets.

Our highly experienced team at managerial level ensures that all the work force and technical staff are abreast with the latest manufacturing processes. Our talented team of engineers and R&D associates regularly monitor the quality standards of every single machine.

We have modern infrastructure facilities at our production units to facilitate us in our manufacturing processes. Our high quality standard, technical superiority, sound infrastructure, ethical business practices and the ability to engineer products enables us to manufacture machines as per the specific requirements of our clients.



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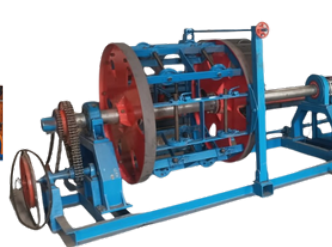
1. Fork Type Rigid Stranding Machine
2. Disk Type Rigid Stranding Machine
3. Armouring Twisting Machine
4. Cable Core Laying Up Machine
5. Anti Torsion/Back Twist Machine
6. Armouring Cum Core Laying Machine
7. Skip Twisting Machine
8. High Speed Bunchers
9. Rewinding Line / Take Up & Pay Off Stands
10. Spool Filler Rewinding Machine
11. Haul Of Cater Pullers
12. Wire And Strip Opner Stands
13. Cable Drums And Bobbins
14. All Rotating Machine Related Parts



OUR PRODUCTS



1. FORK TYPE RIGID STRANDING MACHINE



2. DISK TYPE RIGID STRANDING MACHINE



3. ARMOURING TWISTING MACHINE



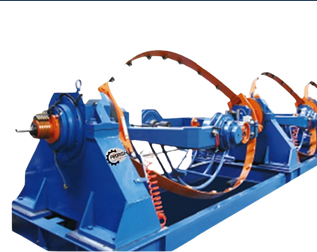
4. CABLE CORE LAYING UP MACHINE



5. ANTI TORSION/BACK TWIST MACHINE



6. ARMOURING CUM CORE LAYING MACHINE



7. SKIP TWISTING MACHINE



8. HIGH SPEED BUNCHERS



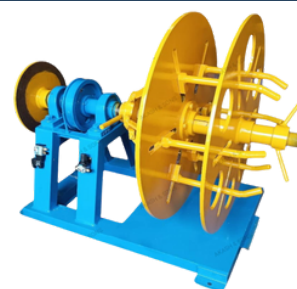
9. REWINDING LINE / TAKE UP & PAY OFF STANDS



10. SPOOL FILLER REWINDING MACHINE



11. HAUL OF CATER PULLERS



12. WIRE AND STRIP OPNER STANDS



13. CABLE DRUMS AND BOBBINS

Our highly experienced team at managerial level ensures that all the work force and technical staff are abreast with the latest manufacturing processes. Our talented team of engineers and R&D associates regularly monitor the quality standards of every single machine.

FORK TYPE RIGID

STRANDING MACHINE

Rigid Stranded (Fork type) is used for copper or Aluminium wires to be bunched into huge single unit of compact conductor for XLPE, Shaped, Spiral or Pre-Spiral and it can also manufacture ASSR/ACSR conductors

Fork Type Stranding Machine Product Description

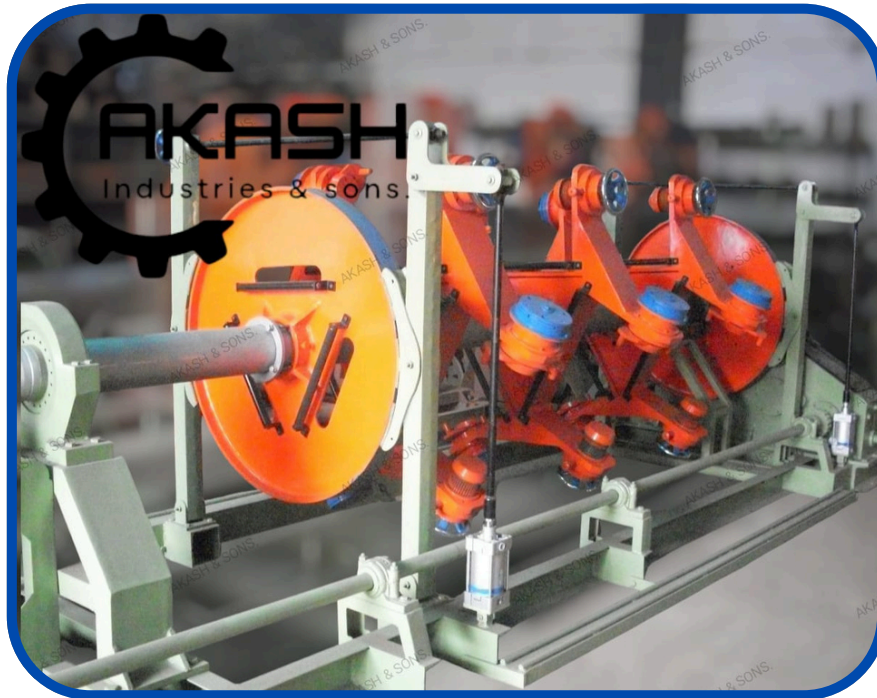
Configuration	7, 12, 18, 24, 30, 36, 42, 48, 72, 84, 90
Bobbin Holding	Pintle type bobbin holding
Bobbin Loading	Manual
Bobbin Size	400/500/630
Bobbing Tension	Uniform pay off wire tension by individual bend brake type spring loaded sandwich belt.
Cage Speed	60 to 160 rpm (with Multi Speed options in each cage)
Construction	Steel fabricated Fork or Cradle type cages supported on bearing At both ends on heavy duty hollow shaft.
Direction of Cages	Clock wise / Anti Clockwise, opposite to each other or in the same direction by each cage lever operated individual gear boxes.
Drive	AC Variable Frequency Drives or PLC System
Haul-off-unit	Dual Grooves type Capstan from 1200 to 3000mm dia.
Take-up reel Size	1200 to 3600 mm flange dia.

Main Features

- Rigid Strander Rotor Design for 1+6+12+18+24+30 Bobbins.
- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With
- Various Bobbin Size as Per Din Standard
- Multi Speed Special Gear Box for Each Cage
- Shaping Head for Shape Conductor
- Ac Drive with HMI/PLC Control
- Pneumatic Brake System for Each Cage
- Heavy Duty Grooves Type Capstan wheel
- Easy Lay Setting

MODEL	WIRE SIZE	MAX. ROTTOR RPM	BOBBIN SIZE
AIS/RS/1+6+12	1.3 MM. -4.77 MM	160-140	500-560-630
AIS/RS/1+6+12+18	1.3 MM. -4.77 MM	160-140-120	500-560-630
AIS/RS/1+6+12+18+24	1.3 MM. -4.77 MM	160-140-120-100	500-560-630
AIS/RS/1+6+12+18+24+30	1.3 MM. -4.77 MM	160-140-120-100-80	500-560-630

FORK TYPE RIGID STRANDING MACHINE



DISC TYPE RIGID STRANDING MACHINE.

Rigid Stranded (Disc Type) is used for copper or Aluminium wires to be bunched into huge single unit of compact conductor for Shaped, Spiral or Pre-Spiral and it can also manufacture ASSR/ACSR conductors.

Disc Type Rigid Stranding Machine Product Description

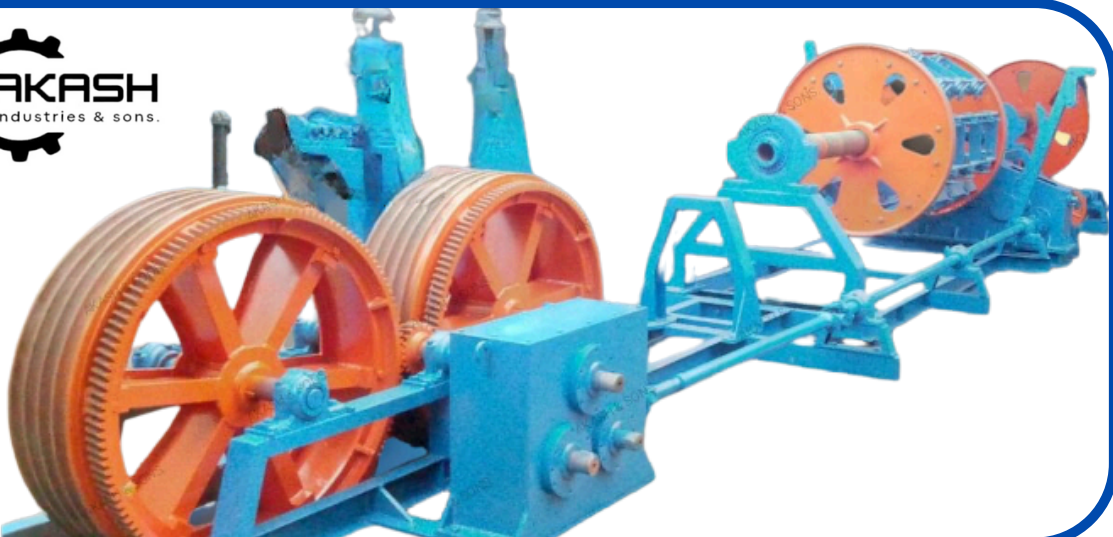
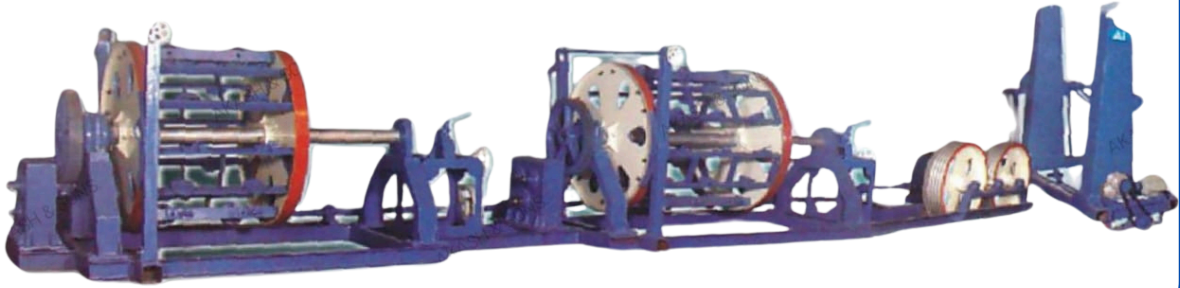
Configuration	7, 12, 18, 24, 30, 36, 42, 48, 72, 84, 90, 96
Bobbin Holding	Pintle and Shaft type bobbin holding
Bobbin Loading	Manual or chain hoist.
Bobbin Size	400/500
Bobbing Tension	Uniform pay off wire tension by individual bend brake type spring loaded sandwich belt.
Cage Speed	60 to 150 rpm (with Multi Speed options in each cage)
Construction	Steel fabricated Round Disc or Cradle type cages supported on bearing At both ends on heavy duty hollow shaft.
Direction of Cages	Clock wise / Anti Clockwise, opposite to each other or in the same direction by each cage lever operated individual gear boxes.
Drive	AC Variable Frequency Drives or PLC System
Haul-off-unit	Dual Grooves type Capstan from 1200 to 2600mm dia.
Take-up reel Size	1200 to 2600 mm flange dia.

Main Features

- Rigid Strander Rotor Design for 1+6+12+18+24+30 Bobbins.
- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With.
- Multi Speed Special Gear Box for Each Cage.
- Shaping Head Shape Conductor.
- Ac Drive with HMI/PLC Control.
- Pneumatic Brake System for Each Cage
- Heavy Duty Grooves Type Capstan wheel
- Easy Lay Setting

MODEL	WIRE SIZE	MAX. ROTTOR RPM	BOBBIN SIZE
AIS/RS/1+6+12	1.3 MM. -4.77 MM	160-140	400-450-500
AIS/RS/1+6+12+18	1.3 MM. -4.77 MM	160-140-120	400-450-500
AIS/RS/1+6+12+18+24	1.3 MM. -4.77 MM	160-140-120-100	400-450-500
AIS/RS/1+6+12+18+24+30	1.3 MM. -4.77 MM	160-140-120-100-80	400-450-500

DISC TYPE RIGID STRANDING MACHINE.



ARMOURING

TWISTING MACHINE

Armouring Machines Are Used For Making Armoured Cable. The Machine Is Used For Round Wire And Flat Strip Armouring On Power Cables And Control Cables. The Armouring Machine Are Manufactured In Single Cage Or Double Cage Configurations.

Technical Specification

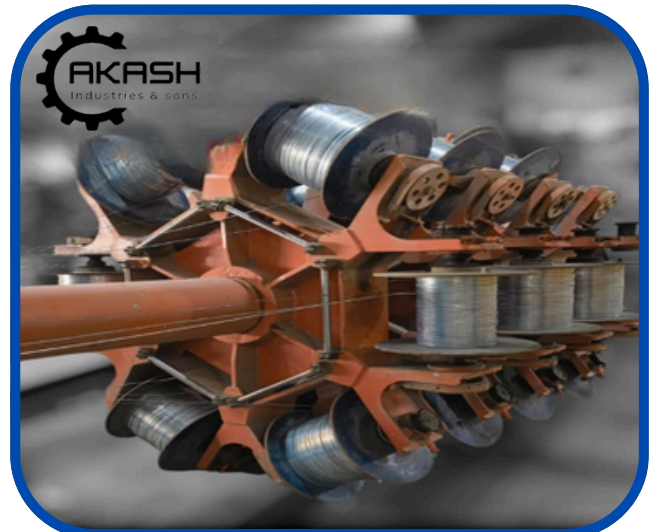
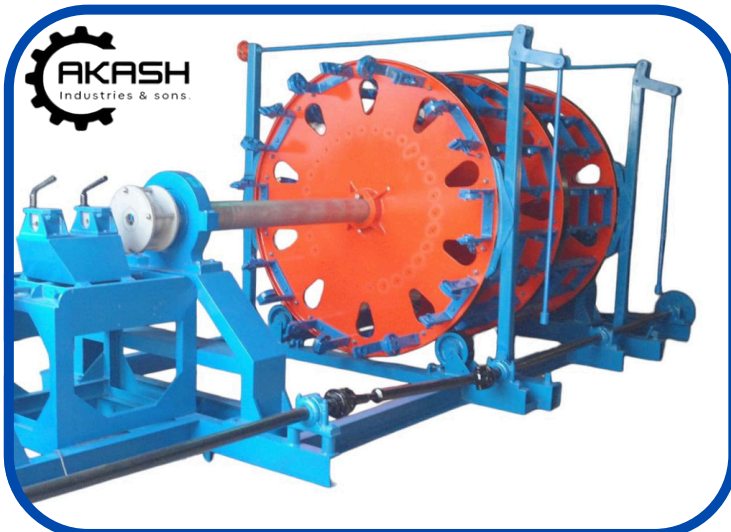
Nos. of Bobbin in a Carriage	12/24/36/48/54/72/96
Diameter of Bobbin as per DIN	400/450/500/630 mm.
Diameter of Wire	G.I Strip 4.0 x 0.8mm / G.I Round wire 0.7 - 4mm
Cable Diameter	20 mm to 100 mm
Lay in mm	35mm-1000mm.
Centre Wire Pay Off Drum Size	1250-2500mm
Carriage RPM	125/100/75/50/30
Take Up Drum Size	1250-3000mm
Drive	AC Variable Frequency Drives

Main Features

- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With.
- Various Bobbin Size as Per Din Standard.
- Multi Speed Special Gear Box for Each Cage.
- Self-Supporting Armouring Cage Rotor Design.
- Ac Drive Control.
- Pneumatic Brake System.
- Heavy Duty Single Capstan with Fleet Ring.
- Easy Lay Setting

MODEL	WIRE/STRIP SIZE	MAX. ROTTOR RPM	BOBBIN SIZE
AIS/ARM/24-	1.5 MM.- 4 MM.	160-140	400-450-500
AIS/ARM/36	1.5 MM.- 4 MM.	150-130	400-450-500
AIS/ARM/48 OR (24+24)	1.5 MM.- 4 MM.	120-110	400-450-500
AIS/ARM/72 OR ()	1.5 MM.- 4 MM.	100-80	400-450-500
AIS/ARM/96	1.5 MM.- 4 MM.	80-60	400-450-500

ARMOURING TWISTING MACHINE



CABLE CORE

LAYING UP MACHINE

Core Laying Machine Are Used For Cabling/Laying The Multi Core (2,3,3.5,4,5) Round Or Sector Shaped For LT And HT Cable Of PVC/ABC/Rubber/XLPE Cables Core Laying.

Main Features

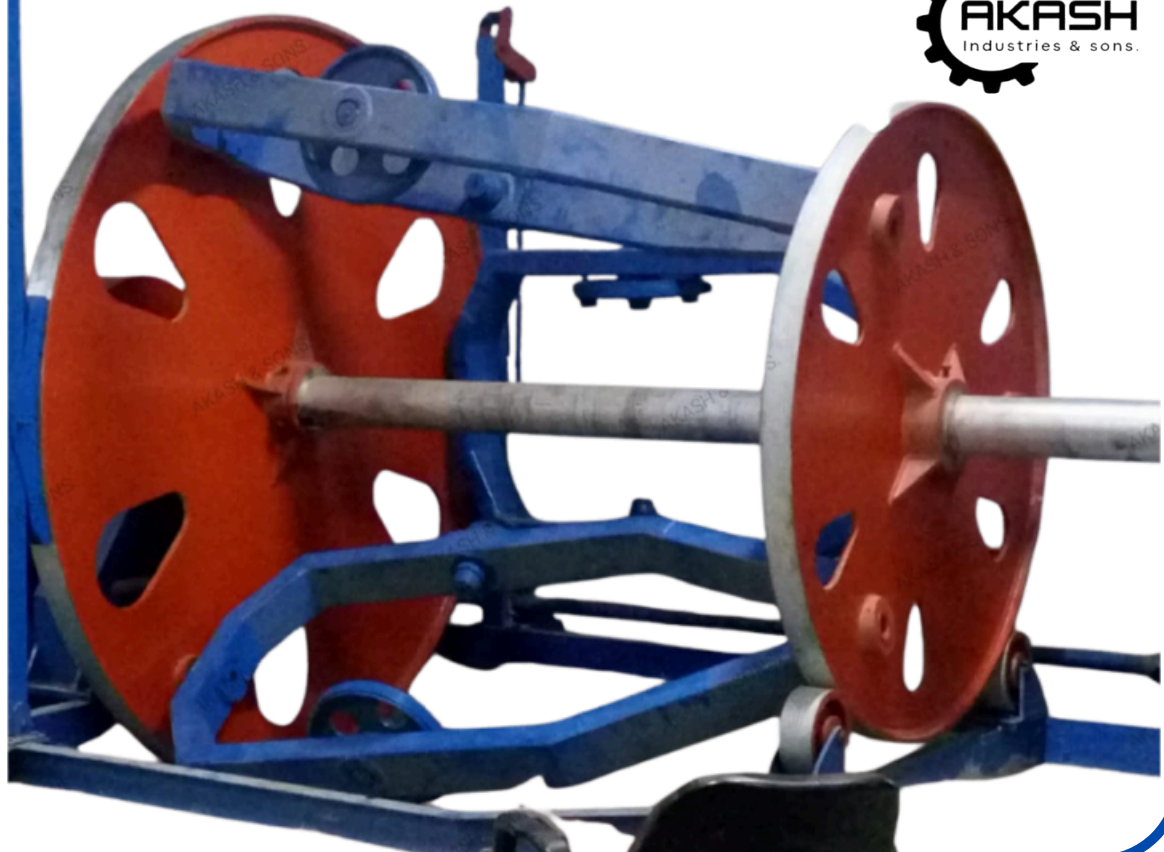
- High capstan radius to protect cable insulation from surface cracking caused by bending.
- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With.
- Self-Supporting laying Cage Rotor Design.
- Easy to load, unload bobbins
- Mechanical leather shoe clutch for proper tension of cable
- Ac Drive Control.
- Easy drum locking unlocking by Pintals
- Special design gear box for cage rotation
- Easy Lay Setting
- Pneumatic Brake System.

Technical Specification

Line Configuration	3+1 ,4+1, 3+1+1
Drum/Bobbin Size inside the Cradle	1000 MM, 1250 MM AND 1600 MM.
Diameter of Single Core	10-50 MM
Diameter After Laid Up Cores	MIN. 25 MM-MAX. 120 MM
Carriage RPM	10-35 RPM/MIN.
Line Speed	10-45 M/MIN
Take Up Drum Size	1600-2200-2600-3200 MM
Lay Length	100 -1800 MM
Drive	AC Variable Frequency Drives or PLC System

MODEL	MAX. ROTOR RPM	BOBBIN SIZE
AIS/C LAY/(3+1)(4+1)	50-60	900 MM.
AIS/C LAY/(3+1)(4+1)	30-40	1200 MM.
AIS/C LAY/3+1	25-30	1600 MM.

CABLE CORE LAYING UP MACHINE



ANTI TORSION

BACK TWIST MACHINE.

Anti-Torsion /Back Twist Machine Is Used For Railway Cable, Control Cable, Wire Rope Industries, HT Cable, Bunched Copper Stranding, Rubber Cables Or Other Specialized Cables And Conductors.

Main Features

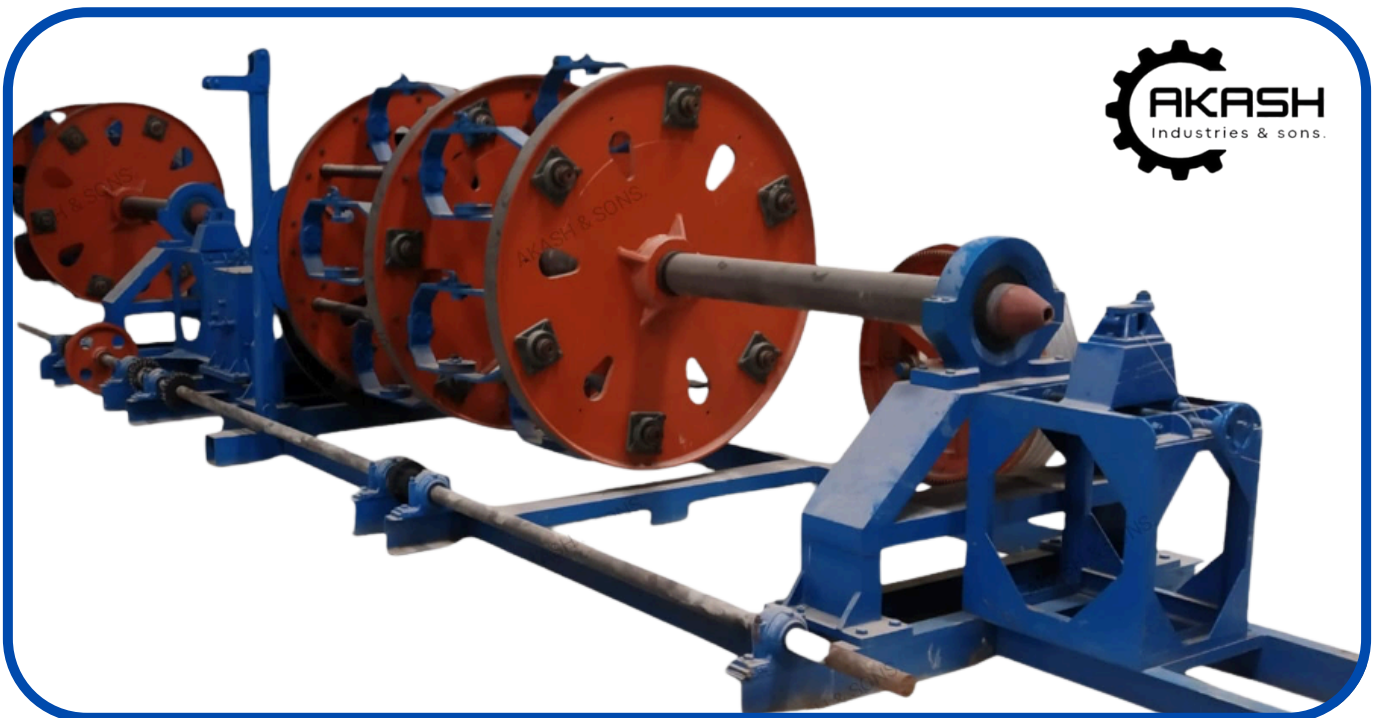
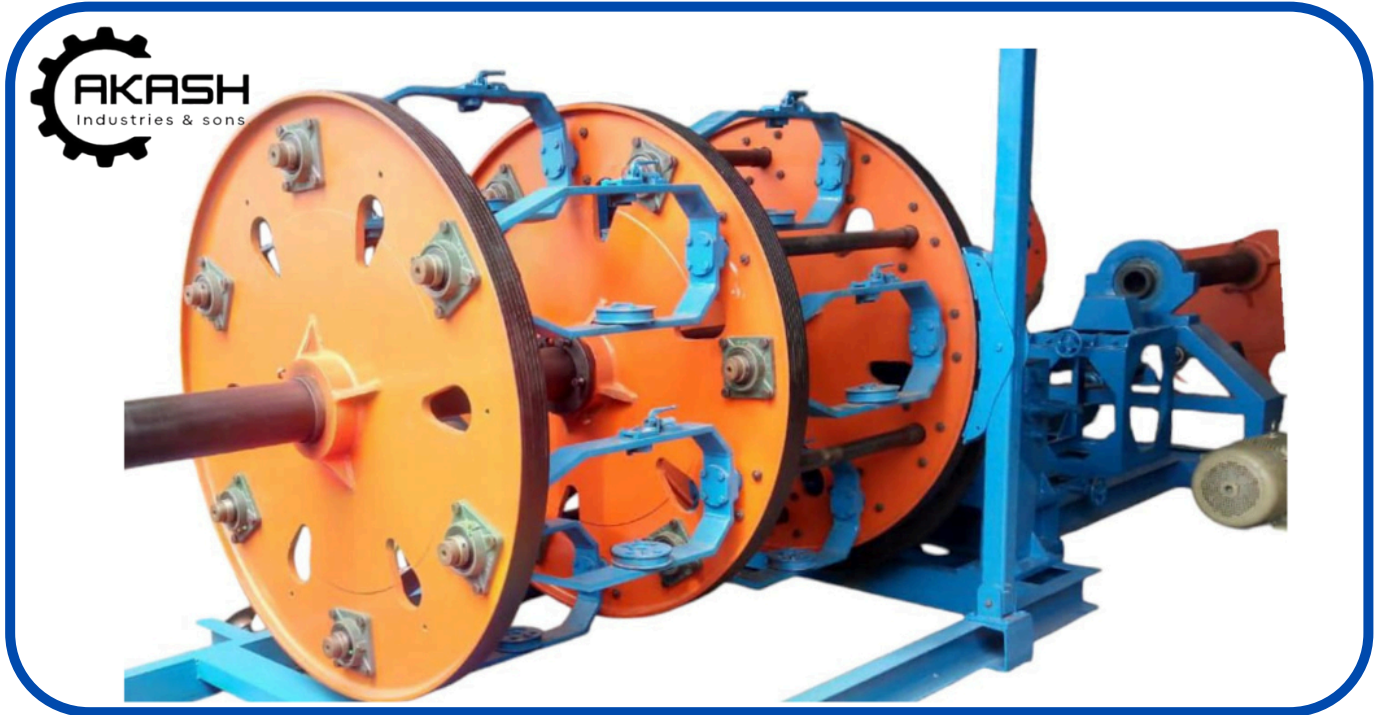
- Anti Torsion Strander Rotor Design for 1+6+12+18 Bobbins.
- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With.
- Easy to load, unload bobbins
- Easy drum locking unlocking by Pintals
- Mechanical leather shoe clutch for proper tension of cable
- Ac Drive Control.
- Special design gear box for cage rotation
- Easy Lay Setting.
- Pneumatic Brake System.

Technical Specification

Nos. of Bobbin in a Carriage	12/24/36/48/54/61/72
Diameter of Bobbin as per DIN	400/450/500mm
Diameter of Wire	Round wire 0.1 - 4mm
Cable Diameter	20 mm to 100 mm
Lay in mm	35mm-1000
Centre Wire Pay Off Drum Size	1250-2500mm
Carriage RPM	125/100/75/50/30
Take Up Drum Size	1250-3000mm
Drive	AC Variable Frequency Drives

MODEL	WIRE SIZE	MAX. ROTTOR RPM	BOBBIN SIZE
AIS/AT/1+6+12	1.3 MM. -4.77 MM	140-120	500-560-630
AIS/AT/1+6+12+18	1.3 MM. -4.77 MM	140-120-100	500-560-630
AIS/AT/18	1.3 MM. -4.77 MM	140	500-560-630
AIS/AT/24	1.3 MM. -4.77 MM	120	500-560-630
AIS/AT/36	1.3 MM. -4.77 MM	100	500-560-630

ANTI TORSION BACK TWIST MACHINE.



ARMOURING CUM CORE LAYING MACHINE.

Armouring Cum Core Laying Machine Are Used For Cabling/Laying The Multi Core (2,3,3.5,4,5) Round Or Sector Shaped For LT And HT Cable Of PVC/ABC/Rubber/XLPE Cables Core Laying.

Also The Machine Is Used For Round Wire And Flat Strip Armouring Process On Power Cables And Control Cables.

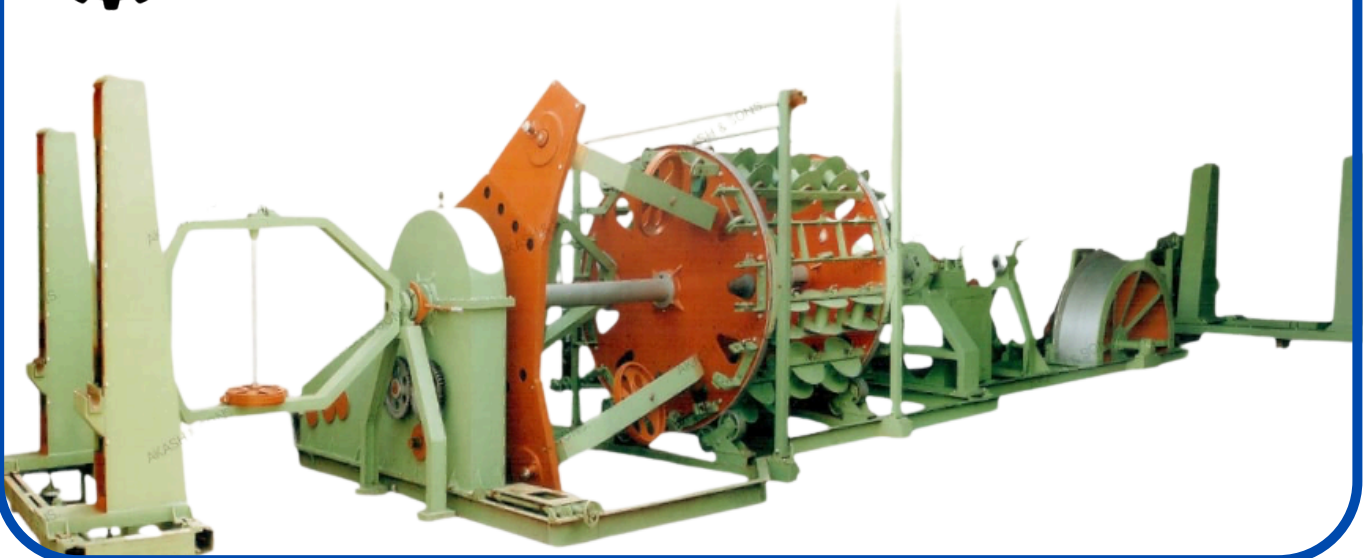
Main Features

- High capstan radius to protect cable insulation from surface cracking caused by bending.
- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With.
- Easy to load, unload bobbins
- Easy bobbin locking unlocking by Pintals
- Mechanical leather shoe clutch for proper tension of cable
- Ac Drive Control.
- Special design gear box for cage various speed
- Easy Lay Setting.
- Self-Supporting laying cum armouring Cage Rotor Design.
- Pneumatic Brake System.

Technical Specification

Line Configuration	3+1, 4+1, 3+1+1 with 24/30/36/48 bobbins.
Laying Bobbin Size inside the Cradle	1000 MM. / 1250 MM. / AND 1600 MM.
Armouring Bobbin Size	400 MM. /450 MM./ 500MM.
Diameter of Single Core	10-50 MM
Diameter After Laid Up Cores	MIN. 25 MM-MAX. 100 MM
Carriage RPM	30/90 RPM/MIN.
Line Speed	10-45 M/MIN
Take Up Drum Size	1600-2200-2600-3200 MM
Lay Length	100 -1800 MM
Drive	Ac Motor And Ac Variable Frequency Drives System

ARMOURING CUM CORE LAYING MACHINE.



SKIP TWISTING

Laying Machine.

High Speed Skip Twisting Machine Are Used For Copper And Aluminium Wire Stranding And Also Insulated Core Twisting For Multi Core Cables. Skip Twisting Is Used For Making Round And Shaped Conductor Till 7 Strands Round Flexible Or Over Head Conductors (AAC/AAAC/ACSR).

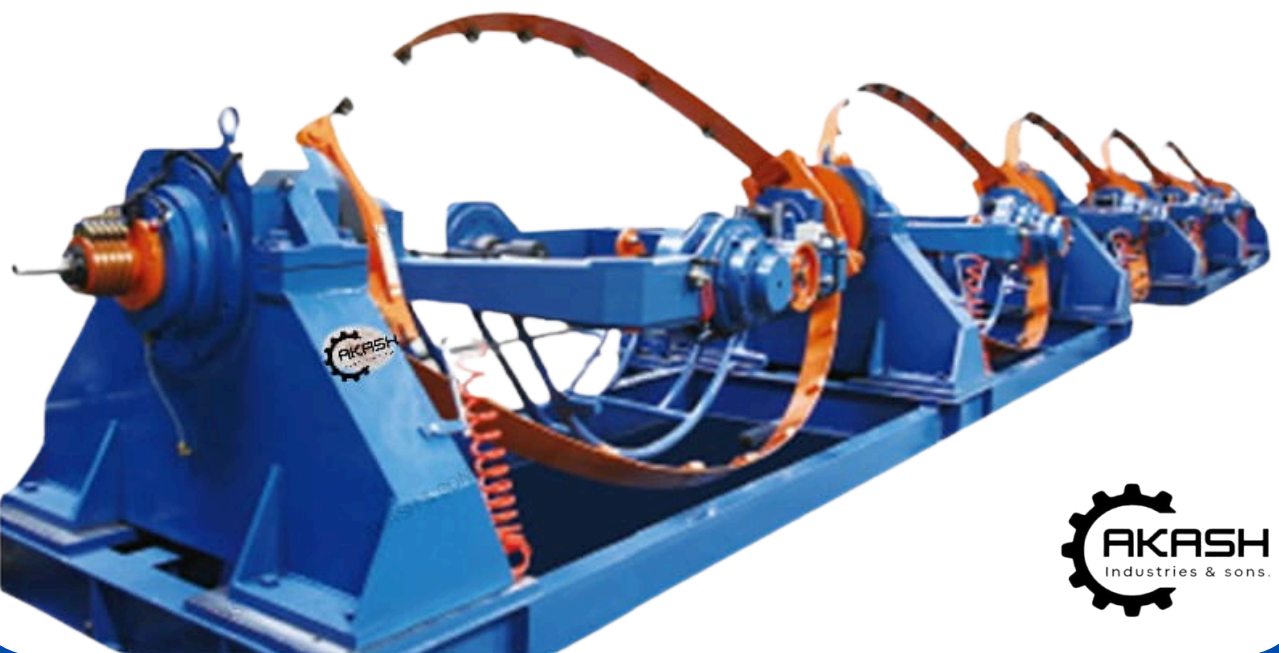
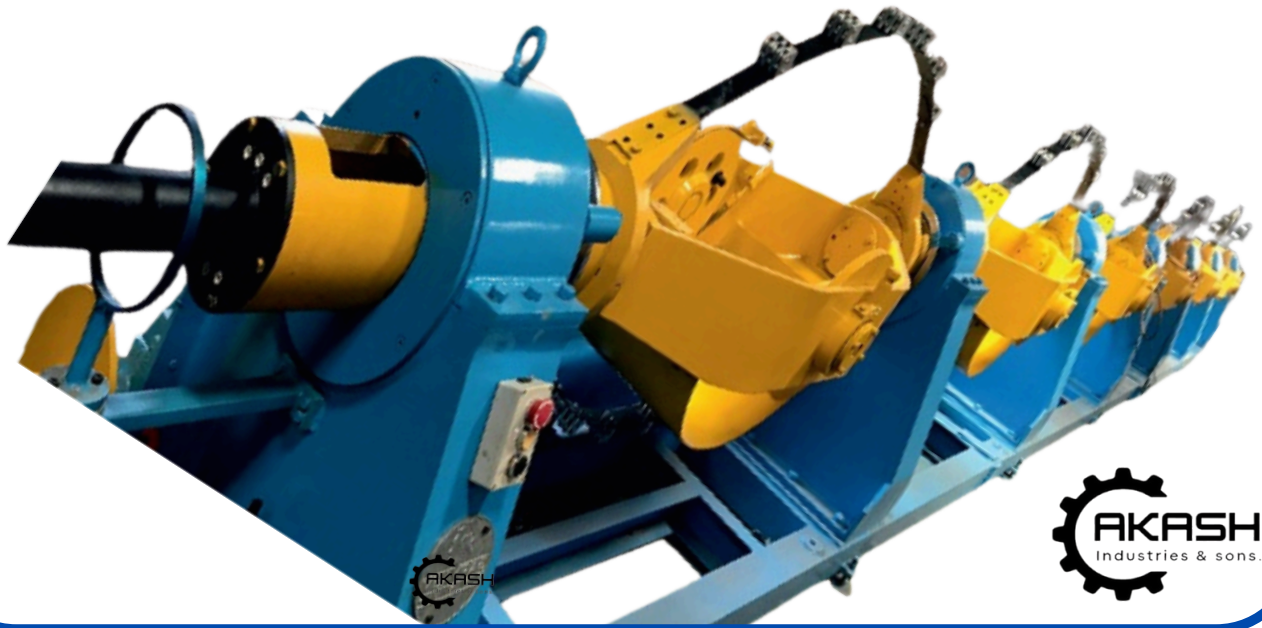
Main Features

- Self-Supporting Skip twisting Cage Rotor Design.
- Line Drive by Ac Motors with Electrical and Mechanical Synchronization With.
- Timing belt drive for each Rotor.
- Easy to load, unload bobbins.
- Dynamically balanced rotor with double bearing support.
- Easy bobbin locking unlocking by Pintals.
- Hardened die steel roller for wire passing.
- Easy Lay Setting.
- Mechanical leather shoe clutch for proper tension of cable.
- Pneumatic Brake System.

MODEL	WIRE SIZE	MAX. ROTTOR RPM	BOBBIN SIZE
AIS/SKP/7	1.3 MM. – 5 MM.	900	560-630
AIS/SKP/1+3	5 MM – 10MM.	500	1000
AIS/SKP/1+3	5 MM – 18MM.	300	1250
AIS/SKP/1+4	5 MM – 18MM.	300	1250
AIS/SKP/1+4	5 MM – 18MM.	300	1600

SKIP TWISTING

Laying Machine.



HIGH SPEED

Bunchers.

High Speed Buncher Machine Are Used For Bunching Copper And Steel Wire/Strands.

MODEL	WIRE SIZE	MAX. ROTTOR RPM	MOTOR
AIS/BUN/400	.75 MM. – 1.5 MM.	900-1000	5 HP
AIS/BUN/630	.75 MM. – 1.5 MM.	900-1000	7.5 HP



TAKE UP & Pay Off Stands

Rewinding Lines

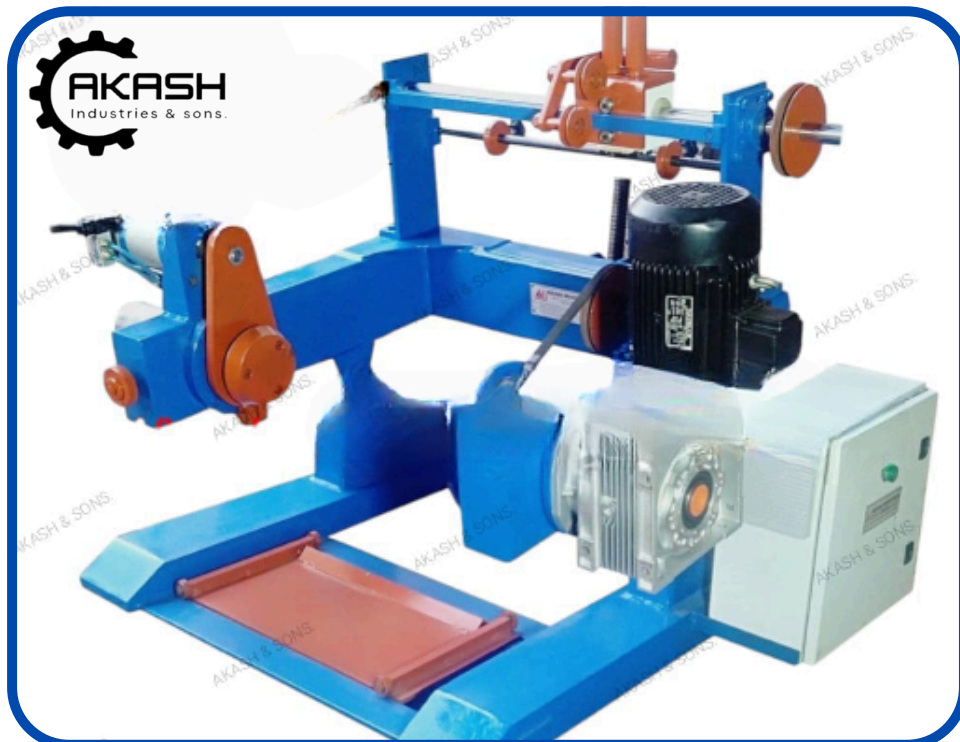
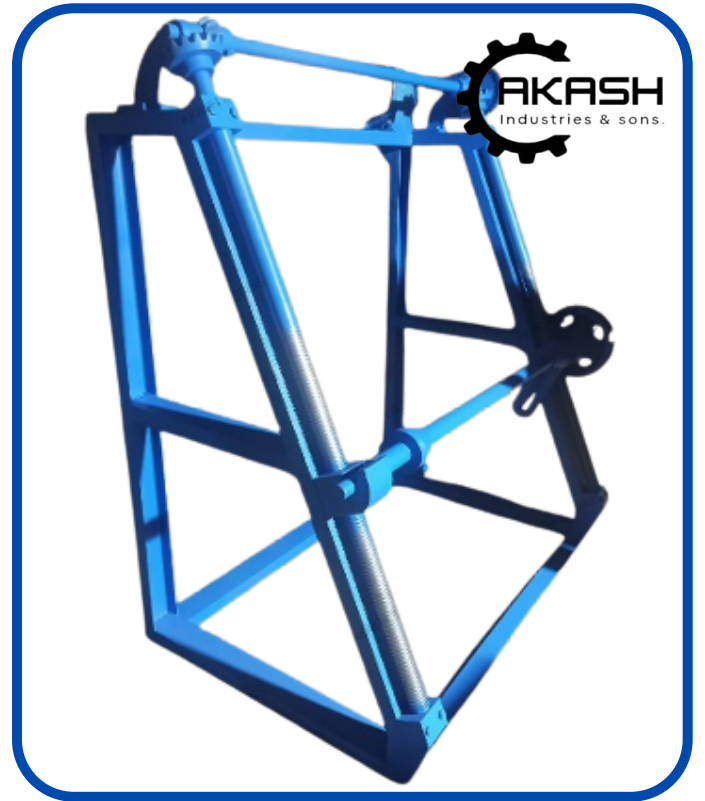
A Huge Range of Take Up and Pay off Stands Are Available for Rotating Machine, Extrusion Line, Rewinding And Inspection Lines

Types Of Take Up And Pay Off Stands.

S.NO	TYPES	SIZE	DRIVE
1	PORTAL TYPE	UP TO 2600 MM.	FULLY MOTORIZED
2	COLUMN SHIFTING TYPE	UP TO 2600 MM.	FULLY MOTORIZED
3	FIX COLUMN PILLAR TYPE	UP TO 2600 MM.	MOTORIZED
4	A TYPE	UP TO 2000 MM.	MOTORIZED
5	CANTILEVER TYPE	UP TO 1600 MM.	MOTORIZED/HYDRAULICS
6	REWINDING LINES	UP TO 2600 MM.	FULLY MOTORIZED



TAKE UP & Pay Off Stands



SPOOL FILLING MACHINE

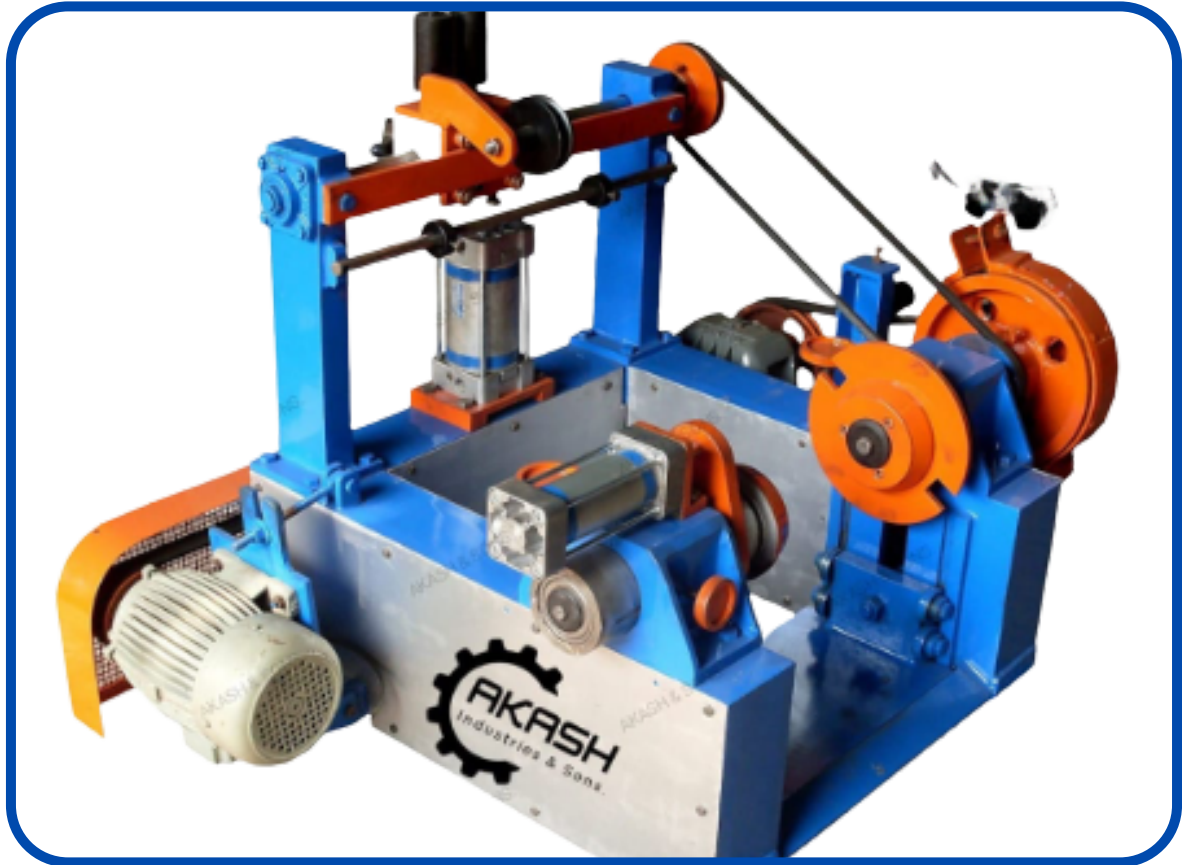
A Spool filling/Rewinding Machine Is Used to Rewind Materials from One Spool or Reel onto Another and strip, aluminium or copper coil to spool. This Process Is Essential For Various Industries Where Materials Need To Be Transferred From Larger Spools To Smaller Ones Or For Reprocessing Purposes. Here Are the Key Features and Functions Of A Spool Rewinding Machine

- Safety Features they may include safety features such as
- Emergency stop buttons and protective guards to ensure safe operation.
- Adjustable Speed and Tension
- Pneumatically Open Close
- Pneumatic Disc Brake
- Auto Stop Power Supply Cut.
- Wire Break Sensors.
- Digital Counter Meter.
- Hardened Chrome Guide Roller And Pulley.

MODEL	TYPE	MAX RPM.	CAPACITY/ 8HR
AIS/SF/400	SINGLE HEAD/DOUBLE HEAD	800-900	2000 KG
AIS/SF/500	SINGLE HEAD	800-900	1500 KG
AIS/SF/630	SINGLE HEAD	800-900	1500 KG



SPOOL FILLING MACHINE



HAUL OF CATERPILLAR MACHINE.

Haul of Caterpillar (Stationery/Rotary) is specially used for insulating line, PVC/ Rubber core laying, taping lines, armouring lines, etc. The Rotary Type Caterpillar is used in power cable laying, telephone cable core laying, XLP cable laying and round wire armouring. We offer highly efficient cutter and puller pneumatic machine that finds usage in various cable manufacturing stages such as

Main Features

- Armouring/steel taping.
- Sheathing, inner sheathing.
- Pulling of bunched conductor.
- Layed cables.

The machine has the ability to pull the cables without damaging shape and size of the cables having non-variable, uniform speed. The machine is offered in two types namely:

- Screw Type

Technical Specifications

Model/Max Pulling force (kg)	MM X 4	MM X 8	MM X 12	MM X 16
Gripping Length (mm)	700	1200	1500	1800
Max Line Speed (m/min.)	200	150	125	100
Centre Height (mm)	1000	1000	1000	1000

- Pneumatic Type

TECHNICAL SPECIFICATIONS

Number of pneumatic Cylinder(per belt)	4	8	12	16
Motor & Electrical power (kw).	3.5	5.5	7.5	11
Width of belt	80	100	110	150
Centre Height (mm)	1000	1000	1000	1000

HAUL OF CATERPILLAR MACHINE.



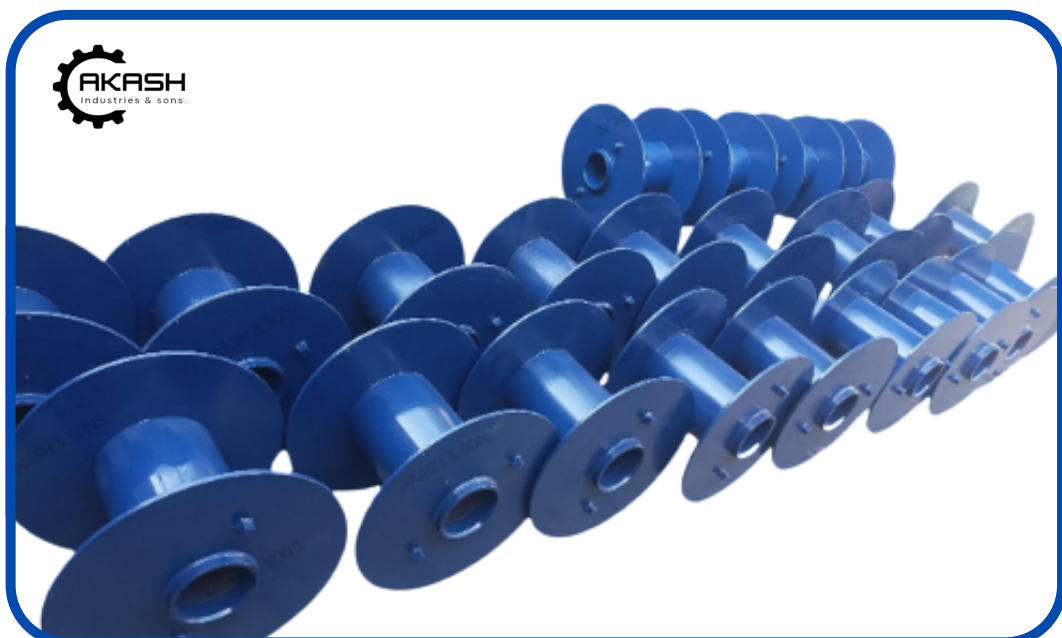
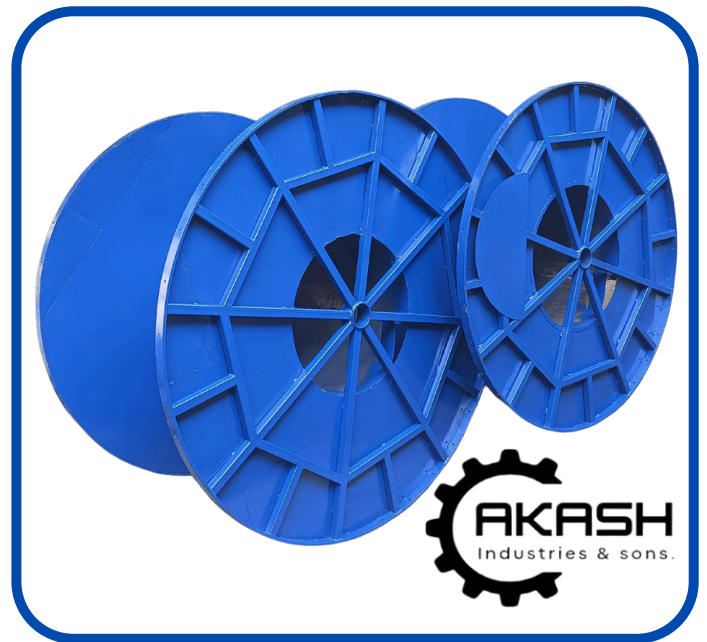
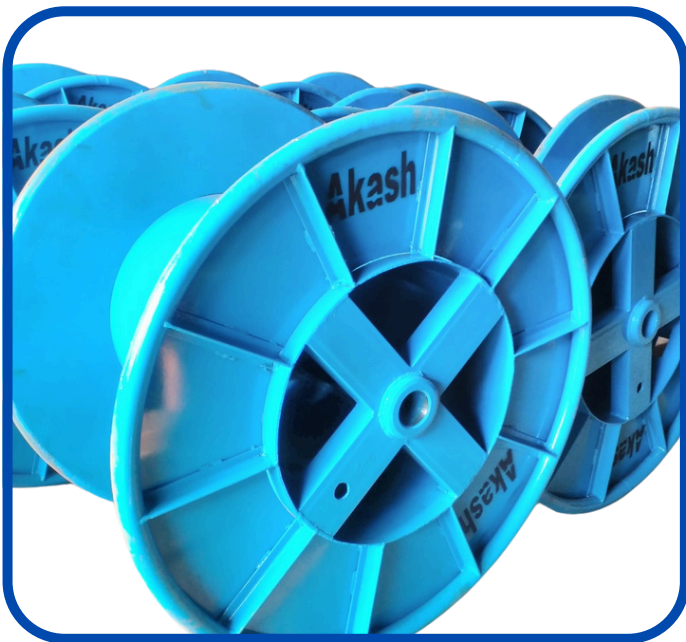
WIRE AND STRIP OPNER STANDS



CABLE DRUMS

1. AND BOBBINS.

TYPES OF SPOOL/DRUMS	SIZE RANGE
PROCESS DRUMS	1000MM -3200 MM
DISPATCH DRUMS	750 MM -3200 MM
SPOOLS	250 MM - 630 MM



ALL ROTATING

MACHINE RELATED PARTS & AESSOSERIES

- All Kind Sector Rollers
- Shaping Heads
- Taping Heads
- Dividing Plates
- Die Sets
- Hardened I Lets
- Ceramic I Lets
- All Kind Guide Rollers And Pulleys
- Any Kind Gears



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