

Our Wide Range of Products



Jangir Engineering Works

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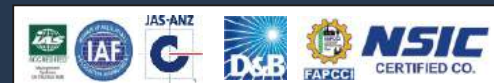
Our Sister Concern :

Mukesh Machine Tools

IDA, Phase -1, Jeedimetla,
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JANGIR ENGINEERING WORKS

Manufacturers & Exporters of :
Table Fan and Ceiling Fan CNC Coil Winding Machines,
Insulation Paper Insertion Machines, Wedge Insertion Machines,
Coil Inserting & Lacing Machines, Coil Shaping Machines and SPM

Advanced Technology

for complete peace of mind



AN ISO 9001:2015 CERTIFIED COMPANY



ABOUT US

Jangir Engineering Works based in Hyderabad, Telangana has evolved over four decades of dedicated R&D to the present state of premium industrial house specializing in manufacturing all types of machines of fan industry. The dedicated effort of our In-house R&D department has made us attain leadership in manufacturing all types of machinery required for manufacturing ceiling and table fans. In order to keep up with progress and market demand, we invented CNC Automatic Coil Winding Machine, Automatic Cell Paper Insertion Machines, and Automatic Wedge Paper Insertion Machines for ceiling as well as table fan and are being widely used by all OEMs engaged in manufacturing these fans.

The company's aim is to offer the best services by supplying sophisticated automatic machinery and fine tune quality and service. Our dedicated approach to R&D and superior engineering has put us in the frontline in a highly competitive marketplace. With our best services and excellence in customer satisfaction, we've created a landmark of being the only company in INDIA to successfully launch automatic winding machines. With our esteemed customer support and excellent product quality, we are now manufacturing & exporting CNC Coil Winding Machines. We at Jangir Engineering Works are committed to manufacture high quality products and professional machineries through continual R&D and joint efforts resulting in superior quality and higher productivity. With more than 40 years of expertise, great customer support we have achieved excellence in CNC Coil Winding Machines incorporating, the most advanced technology, for complete peace of mind

- More than 40 years of expertise.
- Superior quality.
- Most preferred machinery of OEM
- Higher productivity of the machines.
- The most advanced technology
- Excellence achieved in CNC coil winding technology.
- Great customer support.
- Great reliability for complete peace of mind.



CNC Coil Winding Machine

M-82
D-81

Fully Automatic CNC Coil Winding Machine M-82

Dual Spindle with single drive, useful for large production requirements, runs on single phase with variable frequency drive saves power & labor - increases productivity.

No. of Spindles	: 2
Drive	: Single
Power	: Single phase 220V 50 Hz
Wire Gauge	: 24 to 40 gauge
Stator thickness	: 8 mm to 40 mm
Stator diameter	: 30 mm to 245 mm
Max traverse movement	: 120mm
Traverse motor	: Stepper motor.
Max speed	: 6000Rpm
Main drive motor	: 3 phase 1 Hp
Speed control	: variable frequency control drive.
Dimensions	: 1000X650X1300 mm
Net weight	: 250Kgs
Max power consumption	: 1Kw
Production	: Average 45 pcs per hour*



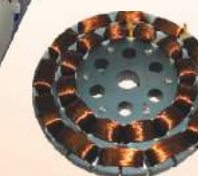
Ceiling Fan Stator Winding



Fully Automatic Coil Winding Machine D-81

Dual spindle with dual drive, useful for small to large production, useful for winding different types of coils simultaneously, can achieve high rpm.

No. of Spindles	: 2
Drive	: Dual
Power	: 220Volts AC single phase
Wire gauge	: 24 to 40 gauge
Stator thickness	: 10 mm to 40 mm
Stator diameter	: 30 mm to 245 mm
Max traverse movement	: 120 mm
Traverse motor	: Stepper motor
Max speed	: 6000 rpm
Main drive motors	: 3 Phase AC, 1 Hp each
Speed control	: variable frequency control drive.
Drive motors	: 3 Phase, 1HP AC
Dimensions	: 1000X650X1300 mm
Net weight	: 300 Kgs
Max power consumption	: 1Kw
Production	: Average 45 pcs per hour*



Ceiling Fan Stator Winding





Insulation Paper Inserting Machine
Wedge Paper Inserting Machine

C300
C400

AUTOMATIC INSULATION PAPER INSERTING MACHINE C 300

This machine inserts cell paper or insulation paper before winding into stampings to protect the enamel coating of copper wire. It takes 7 seconds for a complete stator and 1 machine can supply 6 coil winding machines.

- Paper : Any grade
- Max speed : 2 Slots per second
- Power : 440V AC 50 Hz
220 V AC available on request
- Drive motor : 3 phase 1 HP Induction motor with thermal overload protection
- Power consumption : 1 kw
- Dimensions : 470X800X700 mm
- Weight : 300 Kgs.
- Production : Average 350 pcs per hour*



Ceiling Fan Stamping with Insulation Paper



CNC Automatic Wedge Paper Insertion Machine – C 400

This machine inserts wedge paper after winding and it takes 7 seconds for a complete stator. 1 machine can supply 6 coil winding machines.

- Paper : Any grade
- Max speed : 2 Slots per second
- Power : 440V AC 50 Hz
220 V AC available on request
- Drive motor : 3 phase 1 HP Induction motor with thermal overload protection,
- Power consumption : 1 kw
- Dimensions : 470X800X700 mm
- Weight : 300 Kgs
- Production : Average 350 pcs per hour*



Ceiling Fan Stamping with Wedge Paper



Insulation Paper Inserting Machine
Wedge Paper Inserting Machine

C600
C700

Automatic Paper Inserting Machine for High Speed Lamination- SPM – C 600

Specially designed for high speed stamping as it have different slots placement, other specifications same as paper inserting machine.

- Control : CNC with Stepper Motor
- Paper : Any grade
- Max Speed : 6 pole 12 slots in just 8 seconds
- Power : 440V AC 50 Hz
220 V AC available on request
- Drive Motor : 3 phase 1 HP Induction motor with thermal overload protection
- Power Consumption : 1 kw
- Dimensions : 470X800X700 mm
- Weight : 300 kgs
- Production : Average 400 pcs per hour*



Ceiling Fan Stamping with Insulation Paper



Automatic Wedge Paper Inserting Machine C 700 SPM

This machine inserts wedge paper after winding and it takes 7 seconds for a complete stator. 1 machine can supply 6 coil winding machines.

- Control : CNC with Stepper Motor
- Paper : Any grade
- Max Speed : 6 pole 12 slots in just 8 seconds
- Power : 440V AC 50 Hz
220 V AC available on request
- Drive Motor : 3 phase 1 HP Induction motor with thermal overload protection
- Power Consumption : 1 kw
- Dimensions : 470X800X700 mm
- Weight : 300 kgs
- Production : Average 400 pcs per hour*



Ceiling Fan Stamping with Wedge Paper





BLDC Coil Winding Machine **BLDC**

Automatic Coil Winding Machines D-81 BLDC

For winding stators of Brush Less DC motors suitable for thick wire gauges like 15 SWG to 30 swg to meet specific parameters of 3 pole winding of BLDC stator. Single phase, dual spindle, 1 hp High torque motor, with VFD speed control.

No. of Spindles	: 2
Drive	: Dual
Power	: 220V AC Single Phase
Wire Gauge	: 15 to 30 swg
Stator Thickness	: 10mm to 40mm
Stator Diameter	: 30mm to 245mm
Max Traverse Movement	: 120mm
Traverse Motor	: Stepper Motor
Max Speed	: 400 to 2000 rpm
Main Drive Motor	: 1 HP High Torque for each drive
Speed Control	: Variable Frequency control drive
Dimensions	: 1000 X 650 X 1300 mm
Net Weight	: 300 Kgs
Max. Power consumption	: 2kw
Production	: Average 30 pcs per hour*



BLDC Stator Winding

AUTOMATIC COIL WINDING MACHINES BLDC-SPM

More sophisticated zero backlash mechanism for precise layer winding of thick wire gauges to give optimum layer winding with utmost precision. Option to control the layer winding parameter precisely is available with this machine. Single phase, dual spindle, 1 hp High torque motor, with VFD speed control, zero backlash mechanism, auto adjustable wings

No. of Spindles	: 2
Drive	: Dual with Auto Adjustable Wings
Power	: 220V AC Single Phase
Wire Gauge	: 15 to 30 swg
Stator Thickness	: 10mm to 40mm
Stator Diameter	: 30mm to 245mm
Max Traverse Movement	: 120mm
Traverse Motor	: Stepper Motor
Max Speed	: 400 to 2000 rpm
Main Drive Motor	: 1 HP High Torque for each drive
Speed Control	: Variable Frequency control drive
Dimensions	: 1000 X 650 X 1300 mm
Net Weight	: 300 Kgs
Max. Power consumption	: 2kw
Production	: Average 35 pcs per hour*



BLDC Stator Winding



Table Fan Coil Winding Machine **TF54** Table Fan Paper Inserting Machine **C500**

AUTOMATIC TABLE FAN COIL WINDING MACHINES TF-54

This coil winding machine can wind upto 40 coils in a single go. This was made possible with our innovative solution. Setting parameters is very easy with ur CNC Controller TF-54. By simply providing stack and Dacc Sizes, numbers of turns to wind & wire diameter, it will automatically adjust itself to give a neat finish coil. Ultra highspeed maximizes your production without compromising quality.

No. of Spindles	: 1
Drive	: Single
Power	: 220V 50Hz Single phase
Wire Gauge	: 24 to 42 swg
Dacc thickness	: 10 mm to 80 mm
Coil size	: 30 mm to 245 mm
Max Traverse Movement	: 150mm customizable
Traverse Motor	: Stepper Motor
Max Speed	: 4000 rpm
Main Drive Motor	: 3 Phase 1 HP AC Induction motor
Speed Control	: Variable Frequency control drive
Dimensions	: 1400X800X900 mm
Net Weight	: 170 Kgs
Max. Power consumption	: 1kw
Production	: Average 40 Coil Farmers per hour*



Table Fan Coil Former

Tablefan Paper Inserting Machine - C 500

Specially designed for table fan, cooler & ventilator fan stamping of various models.

Paper	: Any grade
Max speed	: 2 Slots per second
Power	: 220V AC or 440V AC as per the model
Drive motor	: 3 phase 1 HP Induction motor with thermal overload protection
Power consumption	: 1 kw
Dimensions	: 470X800X700 mm
Weight	: 300 Kgs.
Production	: Average 250 pcs per hour*





Coil Inserting Machine **CI1000**
Coil Shaping Machine **PS150**

COIL INSERTING MACHINE - SERVO CNC

Fully advanced servo controlled coil and wedge inserting machine. Single/3 phase, servo control, paper size and machines parameters adjustments on user friendly HMI touch screen.

Power	: 220V Single Phase / 415V Three Phase
Power consumption	: 3 kw
Motor	: Servo
Type	: Coil + Wedge Inserter
Control	: Servo CNC
Paper Size	: HMI
Spl. Requirement	: Air input @ 4 to 5 bar for Arms Operation
Dimension	: 1200X300X600
Weight	: 1000 kgs
Production	: Average 150 pcs per hour*



Coil Shaping Machine **FS250**
Coil lacing Machine **LM1200**

COIL SHAPING / FORMING MACHINE - FINAL SHAPING

After lacing this machine does final shaping very fast. fully automatic coil forming machine is equipped with PLC for precise control and smooth process.

Power	: 380V / 415V 3 Phase\
Motor	: 3 phase 1.5 HP induction motor with thermal overload protection, Power consumption 1.5 kw
Movement	: Hydraulic
Control	: PLC
Oil	: Servo 68 (Not Included)
Dimensions	: 600X350X700
Weight	: 300 Kgs
Production	: Average 200 pcs per hour*



COIL SHAPING / FORMING MACHINE - PRE SHAPING

Fully automatic coil forming machine is equipped with PLC for precise control and smooth process capable of shaping coils with precision for TPW-Fans or similar types.

Power	: 380V / 415V Three Phase
Motor	: 3 Phase 1.5 HP induction motor with thermal overload protection
Weight	: 400 kgs
Power consumption	: 1.5 kw
Movement	: Hydraulic
Oil	: Servo 68 (Not Included)
Dimensions	: 600X500X1300
Production	: Average 200 pcs per hour*



COIL LACING MACHINE - SINGLE SIDE

For lacing of the coil after pre shaping, fully automatic, PLC and servo based control for precision. can do single side lacing single phase, servo based control, user friendly HMI touch screen.

Power input	: Single 220V A
Stator thickness	: 10 mm to 80 mm
Stator diameter	: 30 mm to 150 mm
Index motor	: Stepper Motor, Servo Motor
Max speed	: 6000 rpm
Power consumption	: 1 Kw
weight	: 300 kgs
Dimensions	: 1000X650X1300 mmP
Production	: Average 200 pcs per hour*
Air input	: 2 to 3 bar

Also Available in Double Side Lacing Model





Hydraulic Shaft Pressing Machine Automatic Hydraulic Pressing Machine

**HP100
HPA150**

HYDRAULIC SHAFT PRESSING MACHINE - AUTOMATIC / MANUAL

Available for generic or specific use for various operations like shaft press, bearing press etc. Available in manual model as well as automatic models with safety sensors.

Power	: 3 phase 2HP of motor depending on model and power selection with thermal overload protection
Manual model	: Lever Operated
Power consumption	: 1 kw to 2.5 kw
Weight	: 200 kgs
Production	: 300 to 400 pcs per hour*
Oil	: Servo 60
Automatic model	: Safety Curtain Sensors
Power consumption	: 1.5 kw to 3 kw
Weight	: 350 kgs
Production	: 350 to 500 pcs per hour*



HYDRAULIC PRESS MACHINE - AUTOMATIC / MANUAL

Table fan chapa can be pressed very precisely and sophisticated mechanism improves the tensile strength, available in both manual and auto models.

Power input	: 3 phase 2 HP motor with thermal overload protection
Manual model	: Lever Operated
Power consumption	: 1 Kw
Weight	: 200 kg
Production	: 200 to 250 pcs per hour*
Oil	: Servo 60
Automatic model	: Safety Curtain Sensors
Power consumption	: 1.5 Kw
Weight	: 200 kg
Production	: 250 to 300 pcs per hour*

Also Available in 8 Station Automatic Chapa Press Machine.



Hydraulic Riveting Machine Hydraulic Shaft Press Machine

Hydraulic Riveting Machine (Manual - Light Duty)

We at Jangir Engineering, continuously develop new machines for our esteemed Customers. This is another result of our efforts. Every manufacturing industry wants to cut down cost of production in order to attain more profits, even small things do matter. Hydraulic operated Lamination Riveting machine with our UNIQUE Fixture, will not only rivet, but can also flatten any type of lamination. As a result it can be used very easily in other process line. Ideal and easy to use, time saving, zero maintenance. Stator riveting machine is available in various sizes to suite customer's specific requirement. Separate fixtures and dies make it flexible to use with any pressing application.

Technical Specifications

Model	: Lamination Straightening / Riveting Machine
Cylinder	: 1
Drive	: Hydraulic
Power	: 220V / 415V, 50Hz
Motor	: AC, 2HP, Single Phase or 3 Phase
Max speed	: 6mm/sec & adjustable
Load Capacity	: 150 Bar
Max. Net Weight	: 180 Kgs
Gross Weight	: 200 Kgs
Oil	: Servo 60



Hydraulic Shaft Press Machine

Hydraulic operated press can be used widely for different applications like shaft press, bearing press, and other low pressure applications. Ideal and easy to use, time saving, zero maintenance stator riveting machines is available in various sizes to suite customer's specific requirement. No periodic maintenance required for this machine, equipped with compact power pack it is just plug and play hydraulic shaft press. Separate fixtures and dies make it flexible to use with any pressing application

Technical Specifications

Model	: Lamination shaft press Machine
Cylinder	: 1
Drive	: Hydraulic
Power	: 220V / 415V, 50Hz
Motor	: AC, 1HP, Single Phase or 3 Phase
Max speed	: 6mm/sec & adjustable
Load Capacity	: 50 ~ 80 Bar Max.
Net Weight	: 160 Kgs
Gross Weight	: 190 Kgs
Oil	: Servo 60





Ceiling Fan Shaft Processing Machine

SHAFT FACING AND CENTERING MACHINE - WITH AUTO FEED

Does automatically the facing and centering process of the shaft. 3 Phase 2+2 HP motor with thermal overload protection, PLC controlled

Power input : 380/415V AC
3 Phase 3 HP motor with thermal overload protection

Power consumption : 2.5 kw

Weight : 600 kg

Production : 250 pcs per hour*

Oil : Servo 60



SHAFT MAIN DRILLING MACHINE - HYDRAULIC - AUTOMATIC

Main drilling of the shaft rod can be done automatically.

Power input : 380/415V AC
3 Phase 4 HP motor with thermal overload protection

Power consumption : 2.5 kw

Control : PLC Controlled

Weight : 400 kg

Production : 200 to 300 pcs per hour*

Oil : Servo 60



Ceiling Fan Shaft Processing Machine

SHAFT TURNING MACHINE - SINGLE CUT AND DOUBLE CUT WITH AUTO LOAD UNLOAD

Shaft turning machine, high speed production, consistency and with load and unload, hydraulic operated.

Power input : 380/415V AC
3 Phase 4 HP motor with thermal overload protection

Power consumption : 3 kw

Weight : 400 kg

Production : 200 to 400 pcs per hour*

Oil : Servo 60



SHAFT UNDERCUT AND KNURLING MACHINE - WITH AUTO FEED

Similar to shaft turning, but does undercut and knurling.

Power input : 380/415V AC
3 Phase 3 HP motor with thermal overload protection

Power consumption : 2 kw

Control : PLC Controlled

Weight : 300 kg

Production : 300 to 400 pcs per hour*

Oil : Servo 60

SHAFT SIDE DRILLING MACHINE - WITH AUTO FEED

Suitable and flexible for various shaft models, does all the drilling automatically.

Power input : 380/415V AC
3 Phase 4 HP motor with thermal overload protection

Power consumption : 3 kw

Control : PLC Controlled

Weight : 300 kg

Production : 300 to 400 pcs per hour*

Oil : Servo 60





Rotor Turning Machine

AUTOMATIC ROTOR TURNING MACHINE - ROUGH TURNING WITH AUTO FEED

Fully automatic PLC based control, faster production with minimal operator involvement Ergonomically designed to minimize operator fatigue and maximize productivity.

Power input	: 380/415V AC 3 Phase 3.5 HP motor with thermal overload protection
Power consumption	: 3 kw
Control	: PLC Controlled
Weight	: 400 kg
Production	: 300 to 400 pcs per hour*
Oil	: Servo 60



Router Cutting Machine

AUTOMATIC ROTOR TURNING MACHINE - FINAL TURNING MANUAL

Rotor Final turning with accuracy of < 8 to 12 microns with manual loading and unloading with precision PLC control for accuracy.

Power input	: 380/415V AC 3 Phase 3 HP motor with thermal overload protection
Power consumption	: 2 kw
Control	: PLC Controlled
Weight	: 200 kg
Production	: 300 to 400 pcs per hour*
Oil	: Servo 60

Also available with auto feeding

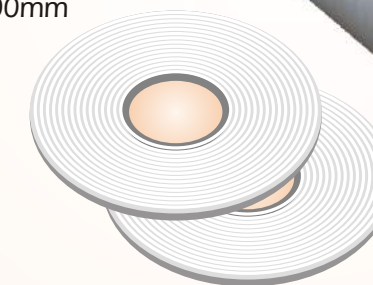


Special Purpose Machine - SPM Jumbo Slitting Machine

SPECIAL PURPOSE MACHINE - SPM JUMBO SLITTING MACHINE

Our Slitting Machine is widely used in Polyester film Slitting, Non Woven Fabric Slitting, Bopp Film and Other varieties of paper. Our machines are customized as per customer's specifications and requirements. Hence the machine is custom made and more economical when compared to standard versions.

No. of Blades	: 40 + (Expandable)
Blade Type	: High speed karbonised Blades /Rotating Blades.
Min Slitting size	: 5mm (Special Size upon request.)
Paper Thickness	: Max 0.600mm
Web Loading	: Manual & Hydraulic
Web Control	: Automatic
Rewinding Shaft	: Air Shaft
Core Size	: 3" & User specific
Core Type	: Paper / Plastic
Slitting Speed	: 50mtr / Min.
Speed Control	: Yes.
Tension Control	: Automatic
Motor	: Single Phase, 1HP A/C
Output	: 1200 Pcs/hour
Dimensions	: 500 X 500 X 1300mm
Net Weight	: 180 Kgs
Gross Weight	: 210 Kgs



Blade Angle Checking Fixture



Exhaust Fan Coil Winding Machine

