

International

Agencies &
Company Profile



SHIV MACHINE TOOLS

Machine Tools Suppliers to the Nation

#102, Armenian Street,
Chennai, Tamil Nadu, India.

Pin Code: 600001

Tel: (+91) 442 522 3473/7305

Fax: (+91) 442 522 7954

e-mail: info@shimato.in

www.shimato.in



SHIV MACHINE TOOLS

(A Group of SHIMATO GROUP)

Heavy Engineering Division

Company Profile

Shiv Machine Tools was established in the year 1973 by the company's founder late Mr. V S Shah. On his vision and strong foundation laid by him in the last 4 decades, the company's primary focus has been marketing of some of the most advanced and reputed Machine Tooling Technology from Germany, Italy, Spain, Japan, China & Taiwan.

"Shimato" as popularly recognized had branches in Bangalore, Chennai, Mumbai and Pune in India, and the regions like Hyderabad & Coimbatore is backed by a team of experienced Sales and Service Engineers, trained at manufacturers factories.

Shimato Group is managed by dynamically young and vibrant team whose mission is to assist co-operations create and sustain competitive advantage. We aim to offer solutions to our clients to make decisive improvements in their direction and performance by offering truly world-class products at economical prices. We work collaboratively with clients to convert ideas into strategy and problems into solutions.

Since our inception in early 1973, the philosophy has remained unchanged to create value creation and offer trend solutions to our clients. Our strength lies in the network of leaders who go to extraordinary lengths to support our clients nationwide. We are people with a passion for excellence; and who believes in high integrity, leadership potential and transparency.

The Group has diversified business interests sharing the same interest and excitement to create value addition and seamlessly work our clients to offer low-cost and cohesive solutions

1. Redefined Engineering Distribution
2. Retailing - Engineering
3. Real Estate Development
4. Warehousing

Starting 1992, Shiv Machine Tools have embarked upon setting up operations to offer high quality precision heavy CNC Machines to the Indian Industry.

Starting in 2009, Shiv Machine Tools have also set up Company in agreement with their Spanish Principals - Alecop S coop to offer cost effective Educational CNC Machines to Indian Educational market. The sales and after sales activities of these companies units are handled by Shiv Machine Tools.



CNC - Heavy Duty Lathe Machines

Poland
www.fathaco.com

FAT S.A. is the leading manufacturer of lathes in Poland and we are a member of the Belgian HACO Group. Our company has focused on the production of both conventional and cycle controlled flat bed CNC lathes. Since 2001, our product line has been extended with a modern slant bed CNC lathe and CNC milling machine.



Distance between centers(mm)
 1100 - 5500
 Swing over bed(mm)
 700, 1000

The FAT FCT 700/700A/1000/1000A lathe is the perfect slant bed lathe for fast, precise and heavy-duty turning and milling of large workpieces. The FCT 700 turning center provides a significant increase in productivity and results in increased profitability. The 70° inclined bed ensures optimum swarf removal, easy setting and inspection of the tools and optimal access to the workpiece for the operator.



TUR 1150/1350/1550 MN is equipped with Linear Measuring System in the X-axis as standard. The Linear Measuring System ensures a high positioning accuracy and higher repeatability. The linear measuring system eliminates deviations of position due to expansion of the ball screw because of temperature fluctuations or play between nut and screw any other mechanical play.

Distance between centers(mm) 2000 - 8000
 Swing over bed(mm) 1150 - 1550
 Swing over saddle(mm) 700 - 1100
 Cross slide travel X-axis(mm) 650 - 775

- Boring & Milling Machines
- CNC Portal & Plano Milling Machines



KEKEISEN GmbH & Co.KG a leading company in the area of machine and tool construction over the course of its history. As manufacturers of large milling machines, special machines, devices and tools of all types, we work as partners with our customers to offer tailor-made solutions to their problems.

CNC horizontal boring and milling machine



X-axis: 2500-6000 mm
Y-axis: 1500-2500 mm
Z-axis: 1100-2000 mm
W-axis 500,600 mm
Spindle-Ø: 130,150 mm

Horizontal CNC boring machines of the WBX series offer high-precision machining of large volume workpieces. The hydrostatic guides make moving even heavy pieces a breeze. The dual table capacity of the machines enables equipping and loading parallel to the production time without the weight restrictions known from pallet machines. A broad spectrum of paths and spindle shapes and capacities make it possible to configure the right machine for any need. Numerous equipment variations and dockable attachment heads expand the application spectrum.

Moving Column Milling Machines (the solution for machining long and bulky parts)

X-axis:
4000-12000 mm

Y-axis:
1000-1400 mm

Z-axis:
1000-2300 mm

Table Size:
1600x620 -
6600x620 mm

Speed Range:
20-4000 rpm



CNC moving column milling machines are perfectly suited for 4-side machining of very large and bulky parts. The universal milling head with plenty of power and the follow-along tool changer turn this machine into a highly flexible major machining centre.

Portal Milling Machines (for machining large parts with high precision)

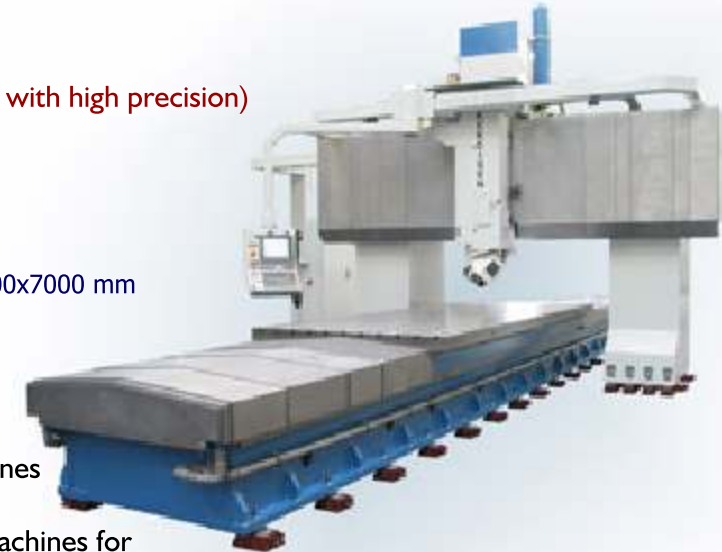
X-axis: 3000-12000 mm

Y-axis: 2200-3200 mm

Z-axis: 1000-1400 mm

Table Size: 1800x3000 - 1800x7000 mm

Speed Range: 20-2000 rpm



CNC portal milling machines of the PFW series are universal, high capacity machines for 5-sided machining of large and heavy workpieces in one setting. Portal milling machines of type PFW are built in gantry design with upper guideways. The workpiece is at rest and therefore does not affect the dynamics of the machine.



Doimak manufactures a comprehensive range of grinding machines.

Multifunctional grinding for heavy range



Max. distance between centers:
3000, 4000, 5000 y 6000 mm
Maximum work piece diameter:
1000 mm
Maximum wheel diameter:
1060 mm
Angular positioning:
-15°/225°
Siemens Control 840 D.

Gear grinding machine

DOIMAK machine model REN-350 has been designed for gear grinding generation with a thread-formed grinding wheel. It consists of 8 CNC axes, allowing a fully automatic working mode, both for part grinding and wheel dressing processes. REN - 350 incorporates the latest technology in NC (Sinumerik 840 D) digital drives. The machine offers a very user friendly environment for the operator, due to the use of men developed software by means of self-teaching graphic masks.



- Grinding of spur and helical gears ($\pm 45^\circ$).
- Workpiece diameter between 10 and 350 mm.
- Module between 0.5 y 6 mm.
- Teeth number between 10 and 600.
- Wheel spindle of 18 kW.
- Generating wheel size of 350 x 104 mm.
- Control Sinumerik 840 D.

Doimak RCN-G-SP grinding machine is a last generation grinding machine, designed to grind cylindrical parts of large dimensions.

The main features of this model are the following:

- Automatic rotary axe, which allows the incorporation of several heads, to be able to make different operations with only one clamping.
- Fixed part, both movements (X and Z) are with the wheel head.
- High accuracy, productivity and flexibility.
- Operator interface is made by means of iconographic self-teaching masks, so no programming knowledge is required for its use.

Grinding machine for nuts of ball screws

Maximum diameter of the piece:
std 250 mm big nuts 500 mm
Maximum Thread diameter:
std 200 mm big nuts 450 mm
Maximum Thread length:
std 260 mm big nuts 600 mm
Maximum helix angle:
std $\pm 20^\circ$ big nuts $\pm 20^\circ$.



DOIMAK machine, RIR+RE Series, has been specifically designed for the grinding of ball screw nuts. It allows in one clamping the internal grinding of the nut thread, and the grinding of the external diameter and faces. It includes an own developed software for the automatic wheel profiling with compensated profile, doing possible the grinding of large pitch nuts.



WORLD MACHINERY WORKS manufactures, under WMW trademark, a wide variety of CNC machine tools, comprising horizontal boring and milling machines, bridge type milling machines, vertical lathes, automatic roll grinding machines, vertical rotary surface grinders, as well as special design machinery upon customer requests.

Vertical Lathes



Table Diameter	mm	1450 - 4000
Spindle Motor	KW	28
Y-axis Travel	mm	1000 - 2400
Z-axis Travel	mm	1200 - 2200

Vertical lathes designed for machining revolution parts of various weights and dimensions through turning, milling, drilling and tapping operations, in function of the machine optional equipment.

Heavy Duty

- Boring & CNC Milling Machines
- Vertical Turret Lathe & Roll Grinding Machines

Bridge Type Mills

Bridge type milling machines with moving table and fixed cross rail, designed for milling heavy and large size work pieces. Their technical features and design solutions along with the high rigidity of the structure parts comply with the most demanding requirements in terms of productivity and accuracy.

Spindle Taper	ISO	50
Spindle Motor	KW	30*
X-axis Travel	mm	4600*
Y-axis Travel	mm	2900 - 3800*
Z-axis Travel	mm	1000*

* and above

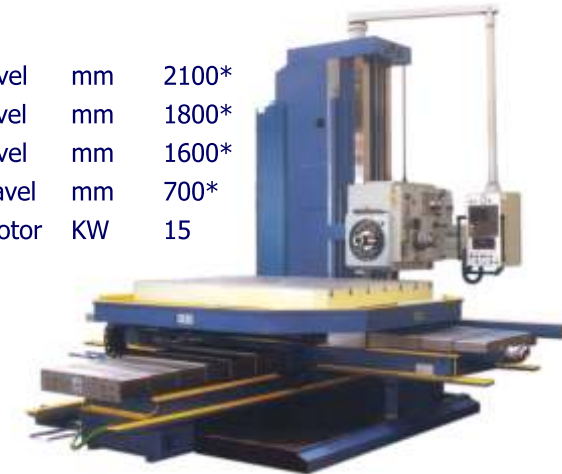


Horizontal Boring and Mills

Boring and milling machines with horizontal spindle, fixed column and rotary moving table, are designed for machining housing type small and middle size work pieces, through boring, milling, drilling and tapping operations.

X-axis Travel	mm	2100*
Y-axis Travel	mm	1800*
Z-axis Travel	mm	1600*
W-axis Travel	mm	700*
Spindle Motor	KW	15

* and above



Grinding Machines

Roll grinder suitable for grinding a wide range of rolls (work, intermediate, back-up, as well as special design rolls). The machine structure consists of two parallel beds, roll bed and wheel bed.

Min. Grinding Diameter	mm	100 - 400
Max. Grinding Diameter	mm	1000 - 2000
X-axis Travel	mm	600 - 1000
Z-axis Travel	mm	4000



PARPAS, a leader in the Italian sector of large-size mould milling and copying, manufactures a line of medium-large size milling machines featuring state-of-the-art technology. Initial success also promoted the birth of OMV (Officine Meccaniche Venete) Srl making small-size tool machines, the FAS-M (knee-type) series. Later on, in 1974, the company started manufacturing a milling machine featuring stationary bench and movable upright, the first one of this type to be made by an Italian manufacturer. The most important feature offered by OMV is its 'customised' line of machines, that is, machines made after clients' specifications. Excellent reputation world-wide has won OMV some of the most well-established international corporate customers.

Automotive - Die & Mold - General Engineering



Longitudinal travel (X axis)
4.000 x 14.000 mm
Cross travel (Y axis)
1.200 mm
Vertical travel (Z axis)
1.600 - 2.100 mm
Feeds
0 ÷ 30.000 mm/1`
Spindle motor
30 kw S1

BRAVE is a high speed machining centre with a fixed bed and a movable column. Being designed by means of the calculation of finite elements for machine structures (FEM), the machine represents an optimised development assuring rigidity and vibration dumping during movements. In addition to that low friction rates and high axes acceleration values are important features which allow high dynamical performances in finishing and at the same time in roughing: a big advantage in reducing production costs during machining process.

Automotive - Die & Mold - General Engineering



Longitudinal travel (X axis)
2.000 ÷ 5.000 mm
Cross travel (Y axis)
1.050 - 1.200 mm
Vertical travel (Z axis)
1.200 - 1.600 mm
Feeds
0 ÷ 30.000 mm/1`
Spindle motor
20 - 30 kw S1

Now at: **SAIL**

QUARTZ is a high speed machining centre with a fixed bed and a movable column. Being designed by means of the calculation of finite elements for machine structures (FEM), the machine represents an optimised development assuring rigidity and vibration dumping during movements. In addition to that low friction rates and high axes acceleration values are important features which allow high dynamical performances in finishing and at the same time in roughing: a big advantage in reducing production costs during machining process.

Aerospace - Automotive - Die & Mold - General Engineering

Table surface
mm from 3.000 x 2.000 up to 30.000 x 3.000
Max load admitted
Kg 6.000 per square meter
Longitudinal travel (step 500 mm)
mm from 3.000 to 30.000
Cross travel (Y axis)
mm 2.500 - 3.000 - 3.500
Vertical travel (Z axis)
mm 1.250 - 1.500 - 1.650



The XS is the line of medium/large size gantry machines. It is dedicated to 3 – 5 axis high speed machining as well as heavy duty machining on hard materials (steel, inconel, titanium, etc). The possibility to have automatic head changing system or as alternative, the automatic spindle cartridge change, allows the machines to be much flexible and suitable for complex machining both in moulds/dies industry and in aerospace industry.



Trimek is one of the leading metrology systems and solutions provider. The company's technological background allow us to offer the most advanced solutions that meet our worldwide clients needs.

Contemporary load-bearing production with state together with ram-type milling machines line FGS T plus, FGS NCP and FGS CNC new series bed-type milling machines FGS 80 CNC and FGS 100 CNC, and vertical working centres VMC.

Vertical Machining Centre

Vertical-machining centres of the lines VMC and MC are scheduled for a wide range of vertical milling, drilling, boring and thread making operations.

X-axis Travel	mm	1000
Y-axis Travel	mm	500
Z-axis Travel	mm	500
Table Size	mm	500x1100
Speed Rangers	n.min ⁻¹	10000 - 24000



Knee-type Milling Machine Manual & Straight-cut Controlled

X-axis Travel	mm	1250-1400
Y-axis Travel	mm	500-630
Z-axis Travel	mm	600
Table Size	mm	1600x500-1600x630
Speed Rangers	ot/min	56-2800

Now at: **HCL**

Measurement Services

- > Measuring at TRIMEK's facilities in Vitoria, Barcelona and Valladolid.
- > In situ measurement using our portable units (feel gauge and laser) at the customer's premises.
- > Qualified staff to carry out measurements at the customer's premises using the customer's machinery and software (covering peak workloads, holidays).
- > Digitising of parts for copying or inverse engineering.
- > Programming measurement ranges for our facilities and the customer's facilities.
- > Training in 3D metrology and measurement uncertainties.
- > Metrology consultancy service, particularly measurement for new production runs or parts, or items which are difficult to measure.



Calibration and tuning Services

Calibration of all kinds of co-ordinate measuring machinery We can offer you the most precise adjustment and reliable correction of precision errors in your co-ordinate measuring machines, since we work with mechanical processes and corrections via software. We can also adapt to the specific requirements of each type of machine, whatever the characteristics or model.



Now at:
Renault Nissan Automotive India Pvt., Ltd., Oragadam, Chennai, India.

Accurate balancing is essential to the Maintenance, Repair and Operation of rotating equipment. Whether you are dealing with a turbine in a power plant, a fan in a chemical facility, an armature from an electric motor, or a roll in a paper mill, your rotors need to be balanced as precisely as possible. With nearly 50 years of experience, IRD Balancing offers products and services designed to meet all your Balancing needs.

Soft-Bearing Balancing Machines

- ☞ High balance sensitivity, as small as .015 g mm (.00002 oz in)
- ☞ Balance at lower and safer speeds
- ☞ Instrumentation capability of both first run readout and trial weight calibration
- ☞ Instrumentation can read vibration displacement in addition to unbalance
- ☞ Transportable, modular design Broad rotor weight range in each machine
- ☞ No expensive construction of special concrete foundations required



Balancing Instrument

The automatic balancer brings a new level of accuracy and convenience to balancing rotating equipment on a balancing machine. A wide range of features are available to cover all the requirements of precision balancing, including comparison to established tolerances and printing a certificate to document the balancing results. The touch activated, flat LCD screen allows quick data entry and menu selection. Screen prompts and online help files assist the operator in obtaining fast accurate results. Polar or large digital displays are available to provide the operator with a graphic representation of the balance vectors. The Series 290 operates in three different modes.



Taian Hualu Metalforming Machine Tool Co., Ltd. is the key enterprise for producing the products such as the CNC plate bending machine, plate straightening machine, plate shearing machine, press brake, cut of length lines. We have the right do the import and export business ourselves.

We have the strong technology force and prominent innovation capacity. In recent years, our focal points are the CNC, large-scale, energy-saving and environmental technology products. We devoted to the rolling of the shipyard-plate, the large plate taper workpiece rolling and the high-intensity plate leveling, the explosion composite plate leveling and workpiece leveling research.

Production Line

Production line can process various rolled sheet metal materials into sheet metal of different specifications through decoiling, primary leveling, longitudinal shearing, sizing shearing and precision leveling. It is the high efficiency processing line which is essential to sheet metal processing industry and it is applicable to industries such as mechanical manufacture, stainless steel product, car, home appliance, container and light industry etc.



Plate Straightening Machine

Plate Straightening machine is made of rack, working roll, movable crossbeam, screw down mechanism, catch wheel device, main gearing, lubrication system and electrical control system, etc. It is used for leveling of thin sheet.

Max. Leveling Plate Width (mm) 1600 - 2500

Max. Leveling Plate Thickness (mm) 2 - 16

Min. Leveling Plate Thickness (mm) 0.5 - 4



Heavy Duty Slotting Machine with CNC

Established in 1975
in Italy
www.cams.it

The company, which has been operating in the metallurgic and mechanical field since 1975 as a manufacturer of slotting machine tools, has always stood out for the sturdiness and functionality of its production.



Heavy Duty Slotting Machine equipped with CNC

The natural evolution of the technology had allowed to conceive these heavy duty Slotting Machines equipped with CNC on the 4 working axes.



A very innovation solution is the controlled Z axis on the models CAMS 500E, 500EA and 500EA(850). CNC system on the 4th cutting axis is offering many considerable advantages, as follows:

- drastic reduction of the setting time;
- significant improvement of quality of the cutting motion. In fact the Brushless motor drive is transmitting a continuous motion with constant torque from beginning to end stroke;
- the cutting motion is most regular in comparison with the conventional Crank and Connecting Rod drive and this means a minor tool consumption.

Distance between column and tool-holder
4AC mm 690 900 900

Distance between table surface and head
4AC mm 780 1000 930

Distance between table surface and earth
4AC mm 975 750 815

Distance between tool-holder basis and table center backwards
4AC mm 275 345 320

Distance between tool-holder basis and table center forwards
4AC mm 225 455 470



Cut-to-Length / Slitting Line Machines

Established in 1969
in Italy
www.iron.it



A commitment to research into innovation, constant technological updating and ambitious projects, make IRON a leading industrial group in the field of automation for the sheet metal industry. All production is designed and carried out within the company by expert engineers using CAD-CAM-CAE design systems.

Slitting Lines

Available in three different widths, the lines comprise a motorized decoiler, coil-loading cradle, strip-end input unit, cutting head with guides, offcut rewinder, input table, felt or roller strip-tightening clamp for fragile metals, rewinder for cut coils with pressure arm take-off guide, offloading turret with two or four heads to facilitate strapping and removal of the cut coils by means of a 'C' hook. Three working speeds are available: 0 to 40 m/min., 0 to 60 m/min., 0 to 100 m/min. The cutting heads come in various grouped dimensions with 5, 10, 15 or 20 pairs of blades and are supplied with extractor rings and strip supports. Cutting width precision is within a tolerance of +/- 0.5 on the setting.





The company now possesses five production bases, and it's a technological type private enterprise group which professionally engages in producing welding-cutting machine, numerical control machine tool, welding-power etc. Such Electricity & machine assembling productions, it also produces and sales zincification roll steel.

CNC Flame Cutting Machine



CNC flame cutting machine is a high efficiency, high speed, and high credibility hot cutting equipment which integrates three technologies of computer control, precise mechanical transmission, oxygen and gas cutting. It is a new automatic and high precision hot cutting equipment that applies to shipbuilding industry, heavy machinery industry, chemical equipments industry, boiler manufacture, vehicle manufacture, petrol chemical industry etc.

Table plasma cutting machine



This machine is characterized in high efficiency and high precision; it adopts integrative modularization structure, which makes it easy for installation, structure, which makes it easy for installation, also with fast speed, low inertia, and stable operation.

Digital flame plasma steel pipe cutter



Pipe diameter : 65 - 1000
Thickness : (5-50)mm(flame)
Pipe length : Max:12000mm

This machine is a CNC controlling and pipes across cutter , which may be used as oxyacetylene cutting or plasma cutting machine. This machine uses six axles moving in steps and has coherent cutting function , it is widely applicable to net shelves , it can automatically cut off the connections between a big pipe and a narrow one . This machine is easy to operate , its high precision and high efficiency make it possible to meet the demand of medium or large scale production.

GS series CNC /plasma/flame cutting machine

This machine is a CNC controlling which may be used as flame cutting or plasma cutting machine.

Single Side Driving
Rail Span : 2500 - 4000 mm
Effective width: 1600 - 3100 mm

Double Side Driving
Rail Span : 4500 - 12000 mm
Effective width: 3600 - 11100 mm

