

**QUOTATION**

Ref. No : 22-23/A/18

Date : 23.04.2022

To,  
**M/s: GSM's MIT GA & R Institutions**  
Aurangabad  
**Kindly Attention :: Mr. Vishwas Kurundkar**  
Email : vishwaskurundakar@mit.asia  
Mobile: +91 – 94230 33128

**Subject :** Quotation for Single Spindle CNC Prototype Machine - Model No 3030 – **Manual Tool Change**

Dear Sir,

Further to our meeting & discussions we are pleased to submit our offer as under:-

Annexure I: Technical Specifications Data  
Annexure II: Accessories / Utilities  
Annexure III: Commercial  
Annexure IV: RPT Specification  
Annexure V: Tools Data  
Annexure VI : General Terms and Conditions  
Annexure VII : Warranty Terms & Conditions  
Annexure VIII : Photos & Client List

Hope our offer is in line with your requirement. Kindly contact the undersigned anytime, should you need any further information or clarifications.

***Thanking and assuring you of our best services at all times.***

For **INDUS ROBOTICS & AUTOMATION RESEARCH PVT LTD.**

Ashish W. Zure  
Sales Head  
788 750 0870



## Annexure I : Technical Specifications

Model No. & Type

3030 - Single Spindle

Recommended For	Drilling, Routing and Engraving
Material Support	FR4, Copper Clad
Machine Dimension	L x W x H : 700 X 700 X 750 mm
Control Panel	L x W x H : 450 X 600 X 1200 mm
Machine Structure	Bed - MS fabrication ; X , Y Base & Column - MS Fabrication
Leveling Sensor	Included
Enclosure	Included
Table	Not Included
Machine Weight	200 Kg
Total Working Area	300 mm x 300 mm
Total Working Area fro Engraving	100 mm x 100 mm
Track Width (for RPT)	0.2 mm
X , Y & Z Drive	Single Phase
Clamping System	Pinning
Electrical Drive	<b>AC Servo Motors</b>
Mechanical Drive	Premium Quality Rolled Ball screws ( PMI / HIWIN)
Pitch	16/5
Accuracy	30 micron
Spindle	<b>1.2 kW, 40000 RPM Manual Tool Change</b>
Tool magazine	Not
Cooling Type	Water cooled
Shank Diameter (tool)	3.175 mm (1/8)
Min. Drill Diameter	0.6 mm
Machine Speed (Hits / Min)	100
X & Y Z Axis Speed	10,000 mm/Minute
Dust Collection	Run Time
Pressure Pad Type	Not Included (Optional)
VFD	Delta
Control System	PC based
Software	PCB CAM (Gerber to G Code Convertor)
File Format	Standard Gerber, DXF and EXCELLON
Power Phase	Single
Power Consumption	3.5 kw
Input Power Supply	6A ; 230 Voltage

## Annexure II : Accessories / Utilities

I.	<b>Accessory Name</b>	<b>Water Chiller</b>	Required For	Cooling Water
	Technical Parameter	Cooling Capacity : 1.05 kW / 0.3 TR / 900 kcal/hr (For Spindle)	Suggested Brand	Werner Finley
	Tentative Market Price	36000	Recommendation	Not Required
II.	<b>Accessory Name</b>	<b>UPS</b>	Required For	CPU Only
	Technical Parameter	600 watt, 230V (10 Min Back Up)	Suggested Brand	APC
	Tentative Market Price	2000	Recommendation	<b>Yes Strongly Recommended</b>
III.	<b>Accessory Name</b>	<b>Servo Stabilizer</b>	Required For	Complete Machine
	Technical Parameter	6 kw, 230 V (for complete Machine)	Suggested Brand	Techno - vision
	<b>Tentative Market Price</b>	<b>19,000 .00</b>	Recommendation	<b>Yes Strongly Recommended</b>
IV.	<b>Accessory Name</b>	<b>Dust Collector</b>	Required For	For Spindles
	Technical Parameter	Power: 1300 W Capacity : 8 Ltr Voltage: 230V/50Hz, Three Phase Blower: 1300 LPM	Suggested Brand	Eureka Forbe
	<b>Tentative Market Price</b>	<b>18,000.00</b>	Recommendation	<b>Yes Strongly Recommended</b>
V.	<b>Accessory Name</b>	<b>Air Compressor</b>	Required For	Pneumatic cylinders & Spindle, Mist spray
	Technical Parameter	Horse Power : 3 HP Discharge Pressure : 8 bar Storage capacity : 100 Ltr. Max Flow rate : 121 - 500 cfm	Suggested Brand	Locally Available
	Tentative Market Price	30,000.00	Recommendation	Not Required
VI.	<b>Accessory Name</b>	<b>Mist Spraying</b>	Required For	Tool Cooling
	Technical Parameter	3 bar—5 bar chilled air Air temperature : 18 degree	Suggested Brand	NK Automation
	Tentative Market Price	6000 per spindle	Recommendation	Not Required
VII.	<b>Accessory Name</b>	<b>Drill Bits &amp; Router</b>	Required For	Cooling Water
	Technical Parameter	Shank diameter : 3.175 Tools category : with Ring	Suggested Brand	Insphinx Ramanlal Tools
	Tentative Market Price	Varies as per drill bit, router size.		

**Please note : Any accessories / utility is not included in machine package & price**

### Annexure III : Commercials

PRODUCT & HSN CODE CNC MACHINE— 8459

Model No	Basic Price	Quantity	Discounted Price
3030 1S <b>MTC</b>	5,30,000.00	1	5,30,000.00
Packing Charges	<b>Included in the package</b>		
Tools ( <i>Annexure V</i> )	<b>Included in the package</b>		
Vacuum Cleaner ( <i>Annexure II</i> )	<b>Included in the package</b>		
Transport & Insurance	<b>Included in the package</b>		
Additional accessories ( <i>Annexure II</i> )	<b>On client account</b>		
<b>GST @ 18 %</b>			95,400.00
<b>Total Price</b>			<b>6,25,400.00</b>
Validity	This offer is valid for 45 days		
Delivery	4 - 6 Weeks		
Payment Terms	50 % Advance ; Balance Against PI before Dispatch		
Warranty	12 months from date of invoice. <b>See details in Annexure V</b>		
Customer Details			
Invoice Name			
Invoice Address			
Shipping Address			
Ordering Details			
Supplier Name	INDUS ROBOTICS & AUTOMATION RESEARCH PVT LTD		
Supplier Address	S.no 28/15, Chakankar Industrial Estate, Near Asian College, Narhe-Dhayari Road, Dhayari, Pune - 411041, MH		
Contact Details	9112135450		
GSTN	27AADCI2811H1ZU		
PAN	AADCI2811H		
Banker Details			
Name of Bank	UNION BANK OF INDIA		
Branch	DECCAN GYMKHANA, PUNE		
Address	J M ROAD, DECCAN, PUNE		
Account Name	INDUS ROBOTICS & AUTOMATION RESEARCH PVT LTD		
Account Number	560371000010697		
IFSC	UBIN0907006		

## Specification Clarification for RPT

### 1. Work Area :

Rapid prototype of a PCB means removal of copper layer. This layers are in 30 -35 micron. Hence removal of this layer requires accuracy of machine as well as flatness of PCB with respect to machine bed ( means no bend) .

***Hence it is responsibility of client to make sure PCBs are flat ( i.e. no bend in PCB ).***

### 2. File Format :

Our machine software requires :

- Gerber File input in 274-X, 2:4, Absolute Leading English format for Track Isolation.
- Excellon 2:4, Absolute Leading English format for Drilling

***Note: Indus Robotics do not provide any PCB designing software with machine. It is responsibility of client to arrange such software in case it is required.***

### 3. Rapid Proto type ( Isolation ) Special Tool

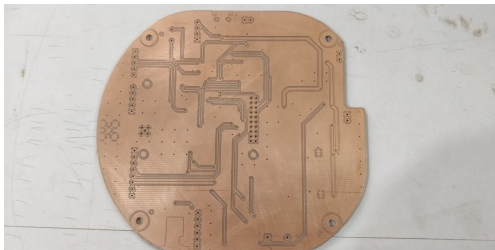
With machine accuracy equal important thing in achieving perfect prototype is the selection of proper milling tool.

We recommend special RPT tool ( isolation path cutter 60 degree ) supplied by Indsphinx (<http://indsphinx.com/product/pcb-isolation-path-cutter-0-75mm/> ).

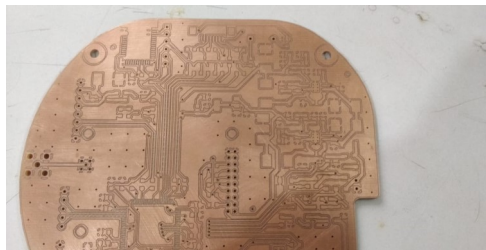
***Hence it is responsibility of client to ensure availability of such tools.***

**4. Track Width :** Width of the track should be minimum 0.2 mm

**5. Distance between two tracks :** 0.2 mm



**Bottom Side**



**Top Side**

### Annexure V : RPT Specifications

Product	No's
1 Drilling Bits — 0.6 mm	7
2 Drilling Bits — 0.65 mm	7
3 Drilling Bits — 0.7 mm	7
4 Drilling Bits — 0.9 mm	7
5 Drilling Bits — 0.8 mm	7
6 Drilling Bits — 1.0 mm	7
7 Drilling Bits — 1.5 mm	7
8 Drilling Bits — 1.8 mm	7
9 Drilling Bits — 2.0 mm	7
10 Drilling Bits — 2.5 mm	7
11 Drilling Bits — 2.9 mm	7
12 Drilling Bits — 3.0 mm	7
13 Routing Bits - 1 mm	7
14 Routing Bits - 2.0 mm	7
15 Routing Bits—3.0 mm	7
16 Isolation Path Cutter Tool 60 degree	7
17 Milling tool for making zero bed ( 4 mm )	3
18 WD 40 - 420 ml	1
19 Lubricant SKF Grease—500g	1
20 Bakelite Bed	1

## Annexure VI : General Terms & Conditions

- ◆ Please note any **accessories / utility** is not included in machine package & price. It has to be separately purchased / arranged by the client either from INDUS Robotics or from any of the supplier.
- ◆ Purchase order is mandatory.
- ◆ Lead time starts from the date of receipt of **both** PO & Realization of Advance Payment.
- ◆ Advance amount is not refundable.
- ◆ Machine transportation and unloading (at client premises) is not responsibility of Indus Robotics.
- ◆ It is not responsibility to provide labor for **unloading or unpacking** of machine.
- ◆ It is responsibility of client to have **genuine transit insurance** in place in order to insure damages caused during transportation or unloading.
- ◆ We use Pre-Used CPU / Customized CPU. It comes with one year warranty.
- ◆ Packing charges are on client account. Though the machine is packed as per standard packaging process we recommend client to inspect the packing before machine dispatch, either physically or through video call.
- ◆ Accessories / Utilities recommended to you along with machine are of high importance for machine to give sustainable performance. In case client is avoiding to purchase such accessories / utilities then in that case Indus do not take responsibility of such parts for which the accessories / utilities were recommended. In such cases warranty of that part becomes void.
- ◆ Mist spraying system is highly recommended if machine is being used heavily for Aluminum routing.
- ◆ Water Chiller is recommended for cooling water which is circulated across spindles. This helps increase life of spindle.
- ◆ Please note that doing two operations( such as drilling & routing ) on one machine will impact life of ball screws that impacts accuracy of machine down the years. Hence we recommend clients to use two different machines for two different operations drilling & routing.
- ◆ PCB design software is not provided by Indus. Neither support and after sales service related to this software is provided by Indus.
- ◆ Software / Machine operation training is provided by INDUS during 2 days installation. In case, client want training to be arranged again then in that case separate charges will be applicable along with charges for visit of engineer. Hence we recommend to fully utilize training hours.
- ◆ All the preparations ( as recommended in our " Pre-installation requisite mail " ) should be done before inviting our installation engineer for training & commissioning.
- ◆ If in case, due to lack of preparation on client part, installation engineer is unable to carry out training and if training days has to be extended then extra charges shall be paid by the client.
- ◆ If in case client is not paying the due amount then in that case INDUS has full authority to discontinue / stop providing service till the time due amount is paid.
- ◆ If in case, client has to cut TDS then in that case client should first inform us.
- ◆ We provide Gerber to G Code Convertor software hence if in case there is problem with original design file then Indus is not responsible / obligated to correct issue of original design file. In this case, client should consult their CAM department or any CAM engineer from whom they are getting these files.
- ◆ Providing service support for third party Accessories / Utilities does not come under our scope of service. Client has to contact source company/distributor/reseller from where he/she has purchased those accessories/ utilities.



**Note : Table, Machine enclosure and coolant tank is not included in the package.**

**CNC 3030**





**Warranty Period**

- ◆ 12 months Warranty against manufacturing defects.
- ◆ No service charge will be levied for any after sales issue that might occur during the warranty period.
- ◆ Majorly issues that arises in initial months of installation, are easily solved over the phone.
- ◆ However, in case where a visit is unavoidable, engineer travelling & boarding charges has to be bored by the client.
- ◆ Parts those are covered under warranty shall be replaced free of cost.
- ◆ One Year warranty on CPU, I/O card, Ball Screws.
- ◆ Six months warranty on SMPS, Spindle Bearings, AC/Easy Servo Motors, Drives and VFD.
- ◆ Physical damages or damages that are caused due to accident (of any sort) / due to fire / due to operator / manager negligence / ammonia impact shall not be covered under warranty.
- ◆ No warranty is offered on third party items such as Pneumatic Cylinders, FRL Units, Keyboard, Monitor, Mouse, Stabilizer, Vacuum Cleaner, Air Compressor, Mist Spraying, Spindle collet, Water tank, Pump etc.

**Post Warranty Period**

- ◆ For dealing with the machine maintenance & servicing issue from second year, we have made available two options:
  - ◆ Either client can buy a AMC package, or
  - ◆ Client can opt to pay visiting charges on case to case basis.

Note: In the both the options, client will have to bear the cost of parts that might be replaced or Repaired.

**Operator Training**

- ◆ Sixteen hours of Operator training charges & Engineer's travelling & boarding expenses is included in the machine price. However, if client wishes to avail more hours of training from Indus then Rs. 400/hour shall be charged apart from the engineers extended stay & boarding charges.

**Software Issues**

- ◆ Issues related to Third Party software, CAM files are not responsibility of INDUS. This has to be dealt by the client with their respective CAM department or expert associates.
- ◆ Issues related to INDUS' software (Gerber to NC convertor) comes under our scope of service. Hence over the phone support is available in warranty period.

**Service Timings**

- ◆ Service Hours : 9.30 AM to 6.30 PM
- ◆ Service Days : Monday to Friday ( Full Service Hours ) & Saturday ( 9.30 AM to 1.00 PM )
- ◆ Service Holidays : All Sundays, Key National & Festive Holidays

**Extended Warranty**

- ◆ As on date we are not offering any extended warranty feature along with the machine.

Product	No's
Drilling Bits — 0.3 mm	5
Drilling Bits — 0.4 mm	5
Drilling Bits — 0.5 mm	5
Drilling Bits — 0.6 mm	5
Drilling Bits — 0.65 mm	5
Drilling Bits — 0.7 mm	5
Drilling Bits — 0.9 mm	5
Drilling Bits — 0.8 mm	5
Drilling Bits — 1.0 mm	5
Drilling Bits — 1.5 mm	5
Drilling Bits — 1.8 mm	5
Drilling Bits — 2.0 mm	5
Drilling Bits — 2.5 mm	5
Drilling Bits — 2.9 mm	5
Drilling Bits — 3.0 mm	5
Routing Bits - 1 mm	5
Routing Bits - 2.0 mm	5
Routing Bits—3.0 mm	5
Isolation Path Cutter Tool 60 degree	3
Milling tool for making zero bed ( 4 mm )	2
WD 40 - 420 ml	1
Lubricant SKF Grease—500g	1
Bakelite Bed	1

# 130 + Installation across India



**SIGNOTRON**

**DUROSHOX**



## Major Client for 3030 Prototype Model

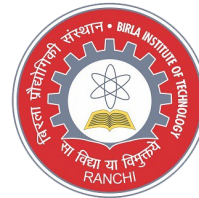


University of Pune



MIT  
Quest for Excellence

Gramanayugik Shikshan Mandal's  
**MIT**  
A Group of Academic & Research Institutions  
AURANGABAD



2000  
**IARE**  
EDUCATION FOR LIBERATION



**THAPAR INSTITUTE**  
OF ENGINEERING & TECHNOLOGY  
(Deemed to be University)

### NEW DELHI (12)

PUNJAB (6)

NCR (5)

HARYANA (5)

UTTARAKHAND (2)

**GUJRAT (15)**

**WEST BENGAL (5)**

**MUMBAI (8)**

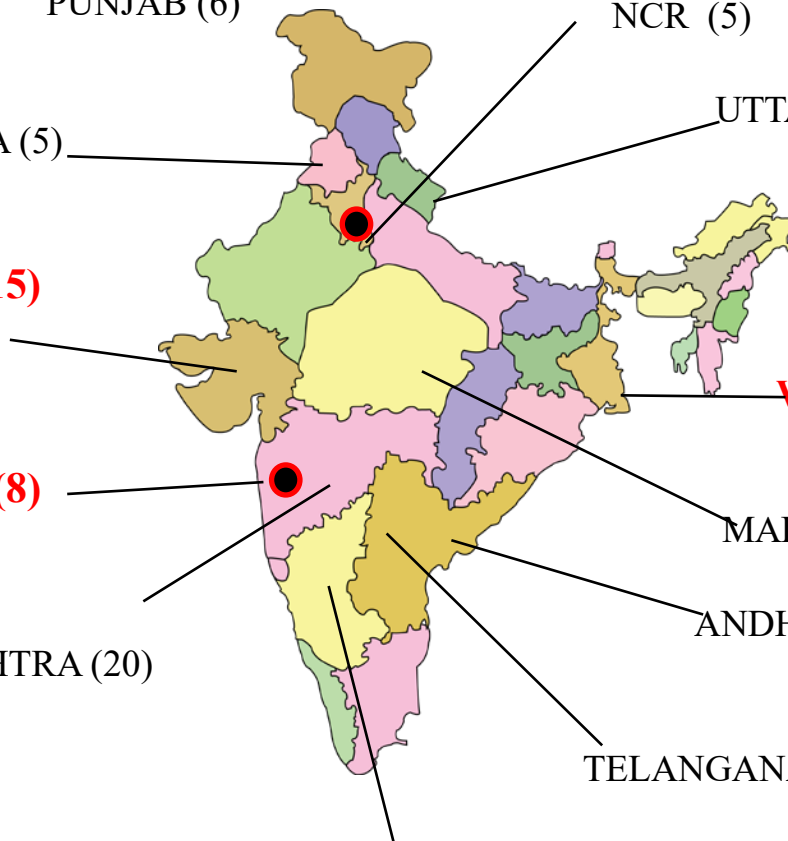
MADHYA PRADESH (2)

MAHARASHTRA (20)

ANDHRA PRADESH (1)

TELANGANA (2)

**KARNATAKA (5)**



## Our Satisfied Clients

North			West		
1	VIVEKA CIRCUITS	New Delhi	41	Ambit Technology	Rajkot
2	AVON CIRCUIT SYSTEMS	New Delhi	42	Anofol Far East A P L	Rajkot
3	ELECTRONIKA	New Delhi	43	Ambient PCB Lab	Rajkot
4	Gautam Solar	New Delhi	44	Circuit Node	Rajkot
5	VIVEKA CIRCUITS	New Delhi	45	Jay Khodiyar Spares	Rajkot
6	Neelam Circuits	New Delhi	46	SRI CHARAN ENTERPRISES	Pune
7	SPARK TECH LABZ	New Delhi	47	Advent Tool Tech Pvt Ltd	Pune
8	MS Electronica	Delhi	48	INDIANA LED LIGHTING	Pune
9	Mr. Pradeep Goel	Delhi	49	PROTOTECH	Pune
10	BLD Circuits	Delhi	50	Prashant Electronics	Pune
11	CHIRAG ENTERPRISES	Delhi	51	SYSTEM ENGINEERING	Pune
12	Joiya Circuits	Delhi	52	Snehal Enterprises	PUNE
13	Mr. Sunal Bhateja	Punjab	53	MINDA STONE RIDGE Ltd	PUNE
14	SRS	Punjab	54	Saitron Technologies	Pune
15	Kishore Circuit	Punjab	55	Diya Electronics	Pune
16	Mr. Kamal Singh	Noida	56	Prime Enterprises	Pune
17	FARIDABAD PCB/Satvik Electro	Faridabad	57	Snehal Packaging	Pune
18	ELECTRONIKA	Faridabad	58	Srinath Enterprises	Pune
19	TITANIUM ELECTRONICS	Roorkee	59	LINK CIRCUITS	Vapi
20	Sarla Electronics ( 2 )	Nainital	60	ALL TIME PLASTICS	Daman
21	Dyanamo Microcircuit	Panchkula	61	RHUN CIRCUITS PVT LTD	Mumbai
22	Annapurna Electronics	Panchkula	62	Aashish Products ( Robot Arm )	Mumbai
23	M S ELECTRONICS	Gaziabad	63	EPS PCB	Mumbai
24	Advance Circuit Technology	Gurgaon	64	PURSUE TECH	Mumbai
South			65	Shreemay Enterprises	Baroda
25	BPL Limited	Banglore	66	JINAL LIGHTING INDUSTRY	Gandhinagar
26	K LITE INDUSTRIES	Chennai	67	Metro Electronics	Gandhinagar
27	EMECHANICZ	BENGALURU	68	Circuitronix	Gandhinagar
28	AURORICA	PONDICHERRY	69	Nilkanth Electronics	Gandhinagar
29	BVBCET	Hubli	70	Mr. Prednesh Aster Electronics	Ahembadab
30	MI Instruments	Madurai	71	PCB KRAFT LLP	Vasai
31	Sree Vennela Circuits Pvt Ltd	Hyderabad	72	Autopal Industries	Jaipur
32	SRI PCB CREATIONS	Vijaywada	73	Alka Metal Industries	Udaipur
33	Automax	Erode	Mid		
34	STS Chandra	Chennai	75	OMKAR ELECTRONICS	Satara
East			76	AARTI CIRCUITS	Ahmednagar
36	MSPL	Kolkata	77	TECHNO SCREEN ART	Nagpur
37	Century LED Ltd	Kolkata	78	PCB MAKERS	Bhilai
38	SD ELECTRO SERVICES	Kolkata	79	SURAJ Enterprises	Ahmednagar
39	Venus Engineering ( Robot Arm )	Kolkata	80	PRINTECH	Indore
40	SIGNOTRON ( I ) PVT LTD	Kolkata	81	Mr. Sanjay Kulkarni	Nashik

and many more .....