CADMECH

CUTTING-EDGE SOLUTIONS FOR REAL-WORLD SUCCESS

Empowering Education: Embracing tomorrow's capabilities, today


ADVANCING
EDUCATION,
EMPOWERING
FUTURES.

THE FUTURE OF LEARNING BEGINS HERE

In today's dynamic world, education must evolve beyond traditional boundaries. Institutions need more than machines; they need transformative ecosystems that inspire curiosity, creativity, and confidence. CadMech is the catalyst of this transformation.

At CadMech, we don't just build machines; we empower dreams.

With cutting-edge, user-friendly technology integrated with IoT, AR/VR, and simulation tools, we are shaping hands-on learning environments that prepare students for a thriving future.


Control System

EMPOWERING EDUCATION THROUGH INNOVATION

Bridging the gap between academic aspirations and industry demands since 1997

A pioneer in delivering innovative, high-performance lab equipment, we have built a reputation for delivering smart, reliable, and affordable solutions tailored for engineering colleges, polytechnics, ITIs, IITs, and industries across India. Our in-house R&D, integrated technologies, and customer-first approach make us a trusted partner in educational transformation.

Key Milestones:

- 1997: Founded as V-Ramp Systems
- 2000: Established B.J. Engineering to serve industrial and defense sectors
- 2007: Merged to form CadMech Engineering Pvt. Ltd.
- 2015: Integrated IoT and AR/VR into product designs
- 2020: Recognized as a leading OEM in educational lab solutions across India
- 2025: Featured in Industry Outlook as one of the Top 10 Lab Equipment Manufacturers for Educational Institutes

Capabilities & Strengths:

- 25+ years of expertise in technical education and industrial solutions
- Comprehensive in-house R&D for continuous innovation
- Advanced smart labs with IoT, AR/VR, and simulation panels
- Robust post-sales service support with AMC and faculty training
- Nationwide presence with PAN-India delivery and service network

“FORGING A LEGACY OF INNOVATION AND TRUST”

From my early days as an engineer, I dreamed of creating solutions that empower education. That vision became CadMech Engineering — a brand built on the belief that education drives progress and every institution deserves advanced, reliable, and affordable tools.

For 25 years, we’ve grown beyond building machines; we’ve built lasting partnerships. We understand the challenges - tight budgets, complex procurement, and the need for hands-on Industry 4.0 learning. That’s why we design high-performance, user-friendly lab equipment that makes innovation accessible. Innovation drives us. From CNC Trainer Machines to IoT, AR/VR, and simulation software, we craft immersive learning experiences. But we don’t stop there. Our support extends beyond delivery - through faculty training, maintenance, and dedicated service.

At CadMech, we’re more than a supplier - we’re partners in shaping futures. Every smart lab we install and every solution we tailor brings students closer to their dreams. We’re here to turn ambition into achievement and empower the next generation to lead.

MR. PRAKASH SULAKHE
MD, Electronics Engineer
MBA, PHD-Management

Manufacturing & Innovation

Our state-of-the-art manufacturing facility integrates every production stage - from raw material machining to final assembly - under one roof. Strict Quality Management Systems ensure every product is precise, durable, and cost-effective, exceeding industry standards. Renowned for precision, reliability, and consistent performance, our products are trusted by leading engineering colleges in India. Our in-house R&D team, with expertise in mechanical engineering, electronics, embedded systems, and IT engineering, drives continuous innovation. By integrating cutting-edge technologies, we transform traditional lab equipment into smart, interactive learning tools that empower students and faculty.

Key innovations include:

- Smart Labs: IoT-enabled devices and AR/VR technology for immersive learning.
- Simulation Software: Virtual tools to verify operations, reducing errors and waste.
- User-Friendly Designs: Easy-to-use machines with video guides and simulation panels.
- Flexible Manufacturing Setups: CIM, FMS, and MMS systems offering hands-on smart factory experience.

CadMech customizes solutions to align with university syllabi, industry standards, and future tech trends. Our AICTE and UGC-compliant equipment ensures institutions receive advanced, relevant, and sustainable tools. Beyond product delivery, CadMech provides comprehensive post-sales support, including faculty training, AMC, and ongoing technical assistance, ensuring optimal performance and fostering long-term partnerships.

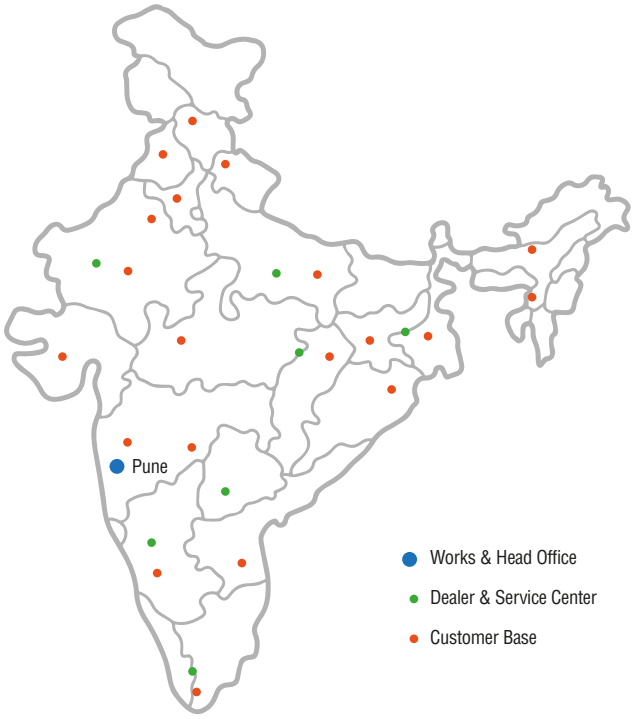
STRATEGIC LOCATIONS: EMPOWERING EDUCATION ACROSS INDIA

Headquartered in Pune, Maharashtra, CadMech Engineering Pvt. Ltd. leverages its strategic positioning to effectively serve educational institutions and industries nationwide. Pune, renowned as a thriving industrial and educational hub, offers CadMech the advantage of being at the heart of innovation and talent development.

- Proximity to Leading Institutions: Situated near top-tier engineering colleges and technical institutes, CadMech fosters close collaboration with academia. This proximity enables the creation of customized educational equipment aligned with evolving curricula and industry needs.
- Access to Skilled Talent: Pune's vast pool of engineering and technical professionals fuels CadMech's R&D efforts, driving continuous innovation and enhancement of product offerings.
- Nationwide Connectivity: Pune's robust infrastructure and connectivity ensure the smooth distribution and service support of CadMech's products across India, enabling timely delivery and maintenance of educational equipment.

Pan-India Reach:

- Extensive Dealer & Service Network: CadMech's comprehensive network of dealers and service centers ensures rapid response and efficient support in key educational hubs such as Maharashtra, Karnataka, and Tamil Nadu.
- Strong Market Presence: By maintaining a solid foothold in states with high educational density, CadMech aligns with its mission to empower technical education nationwide.



OUR SERVICE PROMISE: UNMATCHED SUPPORT AT EVERY STEP

At CadMech, customer satisfaction is our highest priority. Our service promise is built on reliability, responsiveness, and long-term partnership.

- **Comprehensive Support:** From installation to training and after-sales service, CadMech offers end-to-end solutions to maximize the value of your investment.
- **Annual Maintenance Contracts (AMC):** Proactive maintenance services ensure optimal equipment performance and longevity, minimizing downtime for educational institutions.
- **Customized Training Programs:** Hands-on training for faculty and staff at the time of installation, with periodic refreshers available to ensure seamless equipment operation.
- **24/7 Service Accessibility:** Our dedicated service team is available round-the-clock to address technical issues, ensuring uninterrupted learning experiences.
- **Innovation-Driven Solutions:** Our smart labs, powered by IoT, AR/VR, and simulation technology, are designed not just for today's syllabus but for tomorrow's skills.

CadMech is more than a supplier - we are your lifelong partner in progress, committed to advancing education and empowering futures.

Products & Solutions

TRANSFORMING TECHNICAL EDUCATION. ADVANCING LEARNING.

Built to industry standards, our advanced products and solutions empower students at engineering colleges, polytechnics, and training centers with the skills to excel in modern manufacturing and automation.

Our advanced solutions are built to match evolving industrial demands. CNC Lathe and Mill Trainers, CNC Lathe Cum Production Trainers, and the versatile Sine-O-Mill offer students real-world manufacturing experience. CADMech's robotic trainers — 6-Axis Robots, Delta Articulated Robots, and Precision Industrial Robots - immerse students in automation, providing essential skills for tomorrow's smart manufacturing landscape.

We deliver complete smart lab solutions that elevate technical learning. Our Computer Integrated Manufacturing (CIM) setups, Flexible Manufacturing Systems (FMS), and Modular Manufacturing Systems (MMS) bring smart factory concepts to classrooms. Enhanced with 3D simulation, IoT, and AR/VR, these labs offer immersive, hands-on learning while helping institutions cut operational costs. Hydraulic and Pneumatic Trainers and Fab Lab setups further support practical experimentation and innovation.

CADMech's in-house R&D and manufacturing drive every innovation. Our solutions align with academic syllabi and industry standards, ensuring relevance and quality. By combining affordability with advanced technology, we provide future-ready labs that build real-world competencies. Integrated IoT, AR, and VR technologies make our labs dynamic ecosystems of learning and innovation.

Our collaborations with DRDO and Defence units reflect our commitment to advancing indigenous technology. This dedication extends to every client relationship - seamless installations, faculty training, and continuous support.

By combining technological excellence with unwavering support, we help institutions shape successful careers.

CNC LATHE TRAINER

VLM **T 100** | VLM **IT 100**

Features

- Rugged Machine with Ground Bed
- 8 Station Programmable Turret
- Industrial Motion Controller
- 3D Material Removal Simulation
- STL Import / Export Facility
- Innovative live View on Screen (Optional)
- Customizable Tool Library
- Customizable STK Design
- Manual Pulse Generator (Optional)
- FMS & CIM Compatibility (Optional)
- Latest Technological Platform for Software
- Interactive CNC Part Programming Software
- Hydraulic Chuck (Optional)
- Auto Door (Optional)

PC Based Controller

Industrial Controller

Specifications

• X – Axis Travel	: 150 mm
• Z – Axis Travel	: 200 mm
• Chuck Size	: 100 mm (Hydraulic chuck ø 135mm optional)
• Maximum Turning Diameter	: 30 mm
• Maximum Turning Length	: 150 mm
• Swing Over Cross Slide	: 80 mm
• Spindle Nose Taper	: MT3
• Standard Cutting Tool Size	: 16 x 16 mm
• Spindle Motor	: 2 H.P AC/DC Motor (300 - 3000 RPM)
• Resolution	: 0.005 mm
• Repeatability Automatic	: ± 0.01 mm
• Lubrication Points	: Provided
• Interpolation	: Linear, Circular
• Programmable Feed Rate	: 0- 800 mm/Min.
• Rapid Feed Rate	: 0- 1200 mm/Min.
• Control System	: PC Based / Industrial
• Turret	: 8 Station (Electro - Pneumatic)
• Coolant System	: 40 Lts. (Programmable)
• Lubrication	: Centralized (Programmable)
• Axis Motor	: Stepper / Servo Motor
• Mains Supply	: 415 V AC, Three Phase
• Machine Dimensions	: Approx. 1500 x 900 x 1500 mm
• Total Weight	: Approx. 900 Kg.

3D Software

Eight Station Turret

Live Screen

MPG

CNC MILL TRAINER

VMM **A 200** | VMM **IA 200**

Features

- Rugged Machine with Ground Bed
- 12 Station Programmable ATC
- Programmable Spindle
- Fully Enclosed Working Area
- Innovative live View on Screen
- Manual Pulse Generator (Optional)
- FMS & CIM Compatibility
- Hydro Pnuematic vice (Optional)
- Auto Door (Optional)

PC Based Controller

Industrial Controller

12 Station ATC

Live Screen

Specifications

• X – Axis Travel	250 mm
• Y – Axis Travel	: 175 mm
• Z – Axis Travel	: 200 mm
• Table Size	: 500 x 200 mm
• Spindle Nose to Table Top	: 40 - 190 mm
• Spindle to Column	: 110 mm
• Spindle Inside Taper	: BT 30 / ISO 30
• Maximum Tool Size	: Diameter 12 mm, Length 70 mm
• Spindle Motor	: 2 H.P AC/DC Motor with 3000 RPM
• Resolution	: 0.005 mm
• Repeatability Automatic	: ± 0.01 mm
• Lubrication Points	: Provided
• Interpolation Programmable	: Linear, Circular
• Feed Rate	: 0- 800 mm/Min. (X,Y,Z)
• Rapid Feed Rate	: 0- 1200 mm/Min. (X,Y,Z)
• Control System	: PC Based / Industrial
• Automatic Tool Changer	: 12 Station (Pneumatic) (Geneva mechanism)
• Lubrication	: Centralized (Programmable)
• Axis Motor	: Stepper / Servo Motor
• Mains Supply	: 230 V AC, 1 Phase for Machine and 3 Phase 415 V AC for ATC
• Machine Dimensions	: Approx. 1200 x 1200 x 1800 mm
• Total Weight	: Approx. 1200 Kg.

3D Software

CNC Mill Spindle

Servo Motor and Drive

MPG

CNC LATHE CUM PRODUCTION TRAINER

VTC **135**

Fanuc Oi TF Plus/ Siemens Sinumerik 828D

- Control System Features
- 2 axes simultaneous interpolation
- Part program storage & editing
- Constant surface speed control
- Tool nose radius compensation
- Circular interpolation
- Direct drawing dimension programming
- Absolute/ incremental programming
- PCMCIA card and USB slot on front panel
- Backlash compensation
- Graphic simulation
- Electronic handwheel (MPG)
- 10.4" color TFT display
- Run hour display
- Part count
- Turning cycles
- Thread cutting cycle
- Manual data input

Rigid Foundation

Head Stock

Tail Stock

Specifications

- Chuck die (mm) : 135
- Max. turning dia (mm) : 180
- Max. turning Length from chuck face (mm) : 270
- Swing over Bed (mm) : 370
- LM Guide width (mm) X / Z : 25/25
- Axis motor torque (mm) X / Z : 4/4
- X axis stroke (mm) : 140
- Z axis stroke (mm) : 280
- Rapid traverse (met /min) : 26
- Ball screw dia x pitch & class (mm) : 25X10 P C3
- Positioning accuracy (mm) : 0.008
- Repeatability (mm) : ±0.003
- Spindle nose : A2-4
- Max. Spindle speed (RPM) : 4000
- Max. Bar Capacity (mm) : 25
- Spindle power cont. / 15 min rating Fanuc (kW) : 3.7 / 5.5
- Spindle power cont. / 15 min rating Siemens (kW) : 3.7 / 5.6
- Turret (Pragathi BTP, Cosmos CHT) : BTP 63
- Tool shank cross section (mm): 20 x 20
- Max. boring bar capacity (mm) : 32
- Quill diameter (mm) : 40
- Quill stroke (mm) : 90
- Internal taper : MT3
- Base travel : 160
- Continuous /15 min rating (kVA) : 8 / 10
- Kgs (Approx) : 2100

SINE-O-MILL

VMC **300**

- AC servo drives
- AC variable speed spindle motor
- Hardened and ground ball-screws
- Centralised automatic lubrication
- Basic coolant system
- Telescopic covers and bellow on Z-axis
- Full machine guard
- Manual pulse generator

Specifications

• X – Axis	: 350 mm
• Y – Axis	: 275 mm
• Z – Axis	: 300 mm
• Distance from Spindle Nose to Table Top	: 70 - 300 mm
• Traverse Screws	: Ball Screw Dia 32 x 10
• Table Size	: 550 X 325 mm
• Max. Load on Table	: 120 Kgs
• Clamping Area	: 450 x 250 mm
• Spindle Bore Taper	: BT 40
• Spindle Speed	: 100 - 3000 RPM
• Spindle Motor Power	: 5 HP, AC
• Spindle Motor Drive	: 5 HP VFD HP
• Rapid Traverse Rate X & Y Axes	: 8 & 8 m/min
• Rapid Traverse Rate Z Axis	: 8 m/min
• Cutting Feed Rate X & Y	: 1 – 5000 m/min
• Cutting Feed Rate Z	: 1 – 5000 m/min
• Controller	: SIEMENS 808D Basic
• Motors & Drives X & Y	: 4 NM SERVO
• Motors & Drives Z	: 7 NM SERVO
• Accuracy	: 0.01 mm
• Repeatability	: ± 0.005 mm
• Resolution	: 0.001 mm
• Min. Input Inmrement	: 0.001 mm
• Front x Side	: 1500 x 1700 mm
• Machine Weight (Approx)	: 2500 Kg
• Main Supply	: 415 VAC, 3 Ph, 50 Hz

Industrial Controller

Servo Motor and Drive

12 Station ATC

MPG

6 AXIS ROBOT TRAINER

SR 6

- Compact Design For Training Purpose
- Industrial Motion Controller
- Teach Pendant Facility
- Programmable Digital I/O
- Latest Technological Platform for Software
- Interactive Programming Software
- Powerful 3D simulation, Online and Offline
- FMS & CIM Compatibility

3D Software

Gripper

Teach Pendant

Specifications

- No of axis : 6
- Link 1 : 300 mm
- Link 2 : 300 mm
- Joint actuator : DC Stepper Motor
- Transmission : Timing Belt Drive
- Position feedback : Proximity Switch
- Gripper actuator : Pneumatic
- Weight of robot : 50 Kg.
- Accuracy : ±0.3
- Repeatability : ±0.2
- Tip Velocity range : 500 mm / min
- Pay load capacity : 2 kg (including griper)
- J1 - Waist : ± 140°
- J2 - Shoulder : -100 - 60°
- J3 - Elbow : - 70 + 10°
- J4 - Wrist rotate : ± 70°
- J5 - Wrist pitch : ± 35°
- J6 - Wrist roll : ± 180°

External I/O

- 8 Programmable digital inputs
- 8 Programmable digital outputs

DELTA ARTICULATED ROBOT

PRECISION INDUSTRIAL ROBOT

Model		DRV70L Series	DRV90L Series	DRVA1L Series	DRVA4L Series
Number of Axes		6			
Max. Working Range		710 mm	900 mm	1,111 mm	1,411 mm
Max. Payload		7 kg			
Motion Range	J1	±170°			
	J2	+133° / -105°	+135° / -105 °		+135° / -105 °
	J3	+60° / -205°			
	J4	±190°			
	J5	±120°			
	J6	±360°			
Max. Speed	J1	450°/ sec	370°/ sec	240°/ sec	200°/ sec
	J2	340°/ sec	260°/ sec	220°/ sec	165°/ sec
	J3	510°/ sec	410°/ sec	295°/ sec	220°/ sec
	J4	550°/ sec		465°/ sec	
	J5	550°/ sec		480°/ sec	
	J6	820°/ sec		705°/ sec	
Max. Composite Speed		11,000 mm / sec	10,600 mm / sec	9,400 mm / sec	9,100 mm / sec
Allowable Inertia		0.47 kg*m2			
		0.47 kg*m2			
		0.15 kg*m2			
Allowable Moment		16.6 Nm			
		16.6 Nm			
		9.4 Nm			
Repeatability		±0.02 mm	±0.03 mm	±0.04 mm	±0.05 mm
Standard Cycle Time*1		0.32 sec	0.35 sec	0.48 sec	0.54 sec
Installations		Table-top, ceiling-mount, wall-mount *2			
Built-in Design		With 1 12Pos. circular connector for sensor connections and 2 ø6 pneumatic tubes (one for the embedded 3 sets of solenoid valves, one for extension)			
IP Rating*3		IP40 (Standard) / IP65 (Optional)*4		IP65 (Standard)	
Environment	Ambient Temperature	0˚C ~ 40˚C			
	Humidity	20 ~ 85 %RH			
	Vibration	0.5 G			
Weight		37 kg	39 kg	76 kg	82 kg
Robot Controller		DCV Series			

MODULAR MANUFACTURING SYSTEM WITH IOT & AR-VR

SMPST-101 is a flexible and compact MODULAR system which includes industrial automation technologies. SMPST -101 comprises up to 5 independent stations with integrated control. This modular equipment features a higher number of stations in the same space, which means that more users will be able to work at the same time. Starting with an initial basic configuration station can be easily enhanced by adding workstations at later stages as per the need.

SMPST -101 offers professional skills training to suit the world of industry using Standardized industrial components. The different stations such as Feeder Station, Inspection and Quality station, Buffer Station, Process Station and Sorting Station provide the system with greater flexibility, the stations adapt to a wide variety of assemblies, introducing variations in the materials, colors and part sizes.

Feeder Station

Inspection Station

Buffer Station

Sorting Station

Process Station

Virtual Reality

- **Augmented Reality**

- **AR-VR Devices**

COMPUTER INTEGRATED MANUFACTURING (CIM) SET UP

Industrial

Educational

Highlights of CadMech CIM Setup

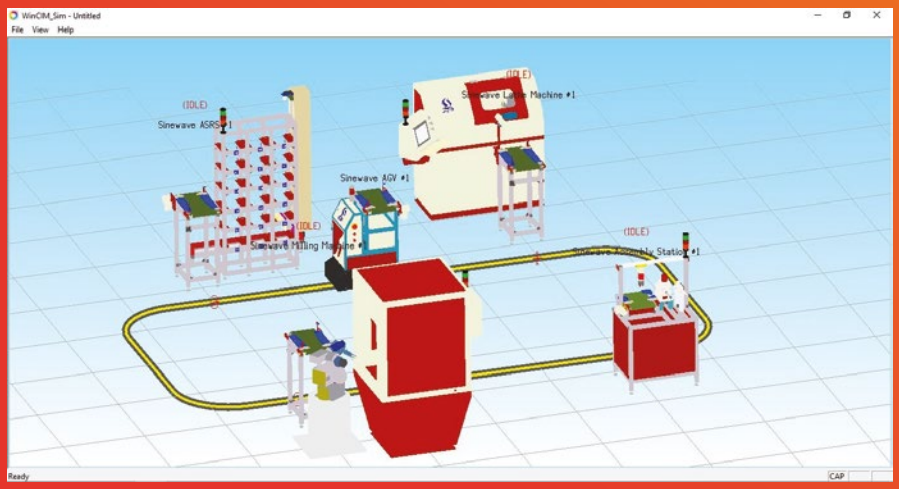
The Integration of the total manufacturing of enterprise through the use of integrated systems and data communications coupled with new managerial philosophies that improve organizational and manufacturing efficiencies.

CadMech CIM Setup Comprises of

- Electronic Height Gauge
- Automated Guided Vehicle
- Coordinate Measurement Machine
- CNC Mill Trainer with Loading Arm
- CNC Lathe Trainer with Loading Arm
- Vision Inspection System (Quality Control Station)
- ASRS
- 6 Axis Robot
- SCARA Robot
- Pallet Conveyor
- Assembly Station

Integration of Systems and Technologies

- Material storage and feeding (ASRS, feeders, palletizing racks).
- Material handling (robots, conveyors, slidebases, pneumatic transfer units, Positioning tables, vises, end effectors and tool changers).
- CNC machining (turning, milling, engraving, automatic tool changers).
- Pneumatic and hydraulic systems (manipulators, Chucks, feeders, vises)
- Identification, detection and tracking (RFID scanning, pallet tracking sensors, switches).
- Quality control (machine vision, coordinate measuring machine, electronic height Gauge).
- Programmable logic controllers (PLC)



Real Time Simulation

Software Architecture

- Interfaces with a variety of machines and robots by means of device drivers (small interface programs that translate and transmit messages between the CIM manager and the machines at CIM stations).
- Stores all data in standard industrial database format, allowing easy access and manipulation on any level. Data files can be read by any Windows application (e.g., Excel, Access, MS-SQL) and exported to any other application. Easily imports and uses data files from external applications.

Dynamic 3D Graphic Simulation

- Fully functional, dynamic 3D simulation module.
- Accurately simulates operations and movements of machines, robots and peripheral axes, including components such as safety Doors, chucks and spindles.
- Accurately simulates part transportation and manipulation, including movement of pallets on conveyor and supply of parts from storage cells and feeders.
- Accurately simulates manufacturing processing, including milling, turning, engraving.
- View control: zoom in and out, rotate (pan), view from above, below and any angle in between; camera redirect (reset camera's focal point), drag camera.
- Improves comprehension of CIM management and manufacturing processes by viewing 3D graphic dynamic on-screen simulations.
- Allows programming and operation of the CIM system without causing damage to actual equipment or disrupting operation of the actual CIM cell.
- Enables experimentation with CIM cells in which some components actually operate while others are simulated.

HYDRAULIC TRAINER AND PNEUMATIC TRAINER

Features

- Mobile and self-contained unit, only electrical connections are required.
- Simplicity of operation and designed for amateur use.
- Built in safety valve is fitted.
- Modern Industrial components from reputed manufacturers are used
- Realistic Industrial circuits are demonstrated.
- Special fixture used for pipe bending and ferrule fitting arrangement.
- System is flushed with very high velocity (4 times the working) by separate oil which maintains class cleanliness of system.
- All valves, cylinder are tested at 150% working pressure.
- Cylinder from precision honed tube, hardened ground, hard chrome plated piston rod and imported quality seals.
- Flow measurement is possible in different lines.
- Training of Trainers offered at regular intervals.
- Potential free contacts for limit switches

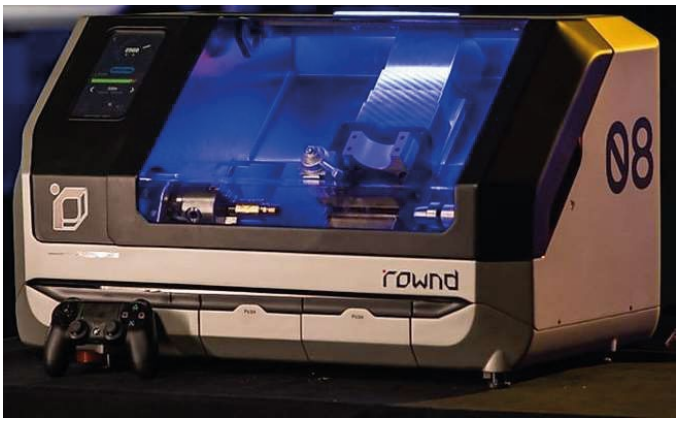
Pneumatic Trainer

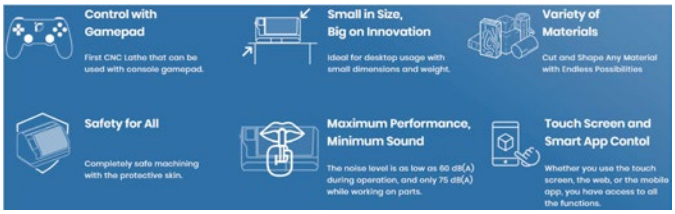
Hydraulic Trainer

Specifications

Components	Basic	Electro Hydraulic	PLC Based Hydraulic	Components	Basic	Electro Hydraulic	PLC Based Hydraulic
Trolley with frame & caster wheels	1	1	1	Trolley with Caster wheels	1	1	1
Hydraulic Tank with Filter & Breather	1	1	1	Quick Push-Pull connection	12	30	1 Set
3 Phase Foot & Flange mounted Electric Motor	1	1	1	High Pressure Tubing (PU6)	5m	9m	12m
				5/2 way lever operated valve	1	1	1
Bell Housing	1	1	1	5/3 way Lever operated DC valve	1	2	2
Flexible coupling	1	1	1	Pressure Gauge 4" Dial	1	1	1
Pressure Gauges	2	3	3	5/2 way Single Pilot operated Direction control valve	1	1	1
Gear Pump	1	1	1				
Relief Valve	1	1	1	5/2 way Double pilot operated Direction control valve	1	1	1
4/3 way Direction control valve	1	1	1				
Valve mounting plate	1	1	1	AND Gate valve	1	1	1
Throttle valve Pressure compensated Flow control valve	1	1	1	OR Gate valve	1	1	1
				Time delay valve	NA	1	1
Check valve	1	1	1	Quick exhaust valve	1	1	1
Single Acting cylinder	1	1	1	One way flow control valve	2	2	2
Double Acting cylinder	1	2	2	Single acting cylinder	1	1	1
4/2 way Direction control valve	1	1	1	Double acting cylinder	1	2	2
Pilot operated check valve	NA	1	1	FRL unit	1	1	1
Sequence valve	1	1	1	Manifold	1	1	1
Pressure Reducing valve	1	1	1	Connecting plates	1 Set	1 Set	1 Set
Flow meter	NA	1	1	Pneumatic motor	NA	1	1
Pressure switch	NA	1	1	Vacuum generator	NA	1	1
4/3 way Double Solenoid operated Direction control valve	NA	1	2	Proximity sensor (Inductive)	NA	1	1
				Limit switch (Electrical)	NA	2	2
4/2 way Single Solenoid operated Direction control valve	NA	1	2	5/2 way single solenoid operated direction control valve	NA	2	2
Limit Switches	NA	2	2	5/2 way Double solenoid operated direction control valve	NA	2	2
Proximity sensor	NA	2	2				
Electro Hydraulic controller	NA	1	1	Electronic panel	NA	1	1
Hydraulic High Set Pressure Hoses	6	14	1	**PLC (ALLEN BRADLEY / SIEMENS / DELTA)**			
PLC (SIEMENS/DELTA)	**NA**	**NA**	**1**				

FAB LAB SETUP





- ROWND is meticulously crafted to ensure an enjoyable and seamless user experience.
- ROWND is user-friendly & it's a learning curve that sparks growth and hones your skills, nurturing your creative spirit along the way.

Specifications

• Work piece diameter (max.)	: 150 mm
• Work piece Length	: 300 mm
• Chuck diameter	: 80 mm
• X travel	: 125 mm
• Z travel	: 450 mm
• Chassis	: Aluminium
• Shell	: Stainless Steel & Plastic
• Travel of tailstock	: 100 mm
• Spindle Speed	: 0 - 3000 RPM
• The max. moving speed	: 2000 mm/min
• The max. feeding speed	: 1000 mm/min
• Tool dimension	: 10x10 mm
• Tailstock taper	: MT1
• Tailstock sleeve diameter	: 20 mm
• Chuck through-hole	: 11 mm
• ATC tool position(Optional)	: 4 position(Optional)
• 4th axis spindle type	: e11
• Overall dimension	: 750x450x450 mm
• Packing Size	: 800x500x500 mm
• Weight(NW/GW)	: 50/65 kg
• Positioning accuracy	: 0.02 mm
• Repeatability accuracy	: 0.02 mm
• Tool touch probe accuracy	: 0.001 mm
• Spindle motor power	: 800 W
• 4th axis spindle power	: 400 W
• Laser engraver	: 8 W
• Voltage	: 100-240 VAC, 50/60 Hz
• Max Power	: 1200W @220 V, 1400W @110 V
• Display	: 7-İnch 1280x720 Multi Touch Screen
• Connectivity	: Wi-Fi, CAN, Bus, Usb Type-C
• Storage	: 4 GB EMMC, SD Card Reader
• Control Interface	: Gamepad, APP, Touch Screen, PC Application

CNC Lathe Trainer

CNC Mill Trainer

5 Axis Desktop CNC

Desktop CNC Waterjet Cutting Machine

Desktop CNC Router

Desktop CO2 Engravers

6 AXIS INDUSTRIAL ROBOT CELL

6-Axis Industrial Robotics Lab with Working Cells

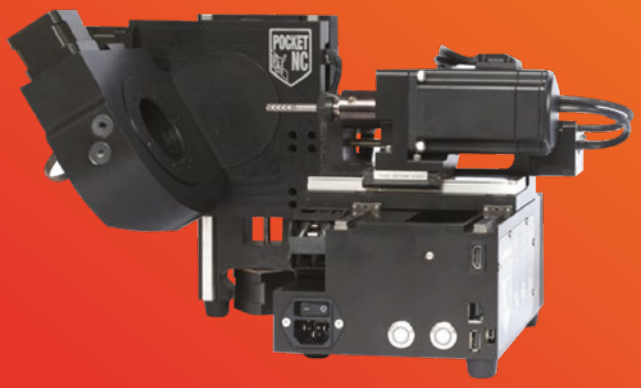
SCARA Robot Lab

AI Robot With Conveyor

3D Printing

POCKET NC

MODEL - V2-10_V2-50



Axis	Max Travel	Speed
x	4.55 in (115.5 mm)	60 in/min (1524 mm/min)
y	5.05 in (128.3 mm)	60 in/min (1524 mm/min)
z	3.55 in (90.1 mm)	60 in/min (1524 mm/min)
A	-25° to 135°	40°/second
b	Continuous rotation (-9999° to 9999°)	40°/second

Axis	Backlash
x & y	0.0005 in (12.7 µm) at tool base
z	Backlash at 18 pound (8.16 kg) load: 0.0005 in (12.7 µm)
A & B	0.01°

Axis	Resolution & Repeatability
x & z	Resolution: 0.00024 in (6.10µm) Homing Repeatability: ±0.0005 in (12.7µm) Repeatability: ±0.002 in (50.8µm) at 0%
A & B	Resolution: 0.00024 in (6.10µm) Homing Repeatability: ±0.0005 in (12.7µm) Repeatability: ±0.002 in (50.8µm) at 0%
	Recommended part tolerance ±0.005in (.127mm)

Spindle

Spindle Speed	2,000-10,000 RPM
Power	200 W (Max Power)
Spindle Motor	BLDC 3 Phase with Hall Feedback
Spindle Runout	~0.0005 in (12.7 µm)
Tool Change	3mm Hex Key ER11 Collet

Machine Control

Texas Instruments ARM Cortex-A8 running Machinekit/Rockhopper

Accepts Standard Gcode

Features	Spindle Override Feed Override Stop, Start, Pause 5 axis simultaneous movement
Connectivity	Ethernet, USB, and mini USB
Power Source	90-264 VAC, 127-370 VDC, 47-63Hz

Components

6061 Aluminum Frame, ±0.001 in (+/-25.4 µm) squareness in all axes

Machine Footprint: 17.5 in (444.5 mm) x 12.5 in (279.3 mm)

5 NEMA 17 Motors	3 linear lead screws with preloaded nuts 2 Rotary Worm Drives
Linear Bearings	9 and 42mm, 10% preload

Integrated angular contact rotary bearings

Purchase Includes:

- One extended reach tool holder
- 1/8 inch ER11 collet and nut
- 1/8 inch square end mill, single flute
- Pocket NC vise and hardware
- Pocket NC limited 1-year warranty

Max Travel

- X: 4.55 in (115.5mm)
- Y: 5.05 in (128.3 mm)
- Z: 3.55 in (90.1mm)
- A: -25° to 135°
- B: Continuous Rotation (-9999° to 9999°)
- Tested on G5 titanium, 6061 aluminum, 303 stainless, machinable wax, acetal.
- Accepts standard G Code. Test G Code at sim.pocketnc.com

WAZER
WATER CUTTER

Standup Model

Desktop Model

Specifications

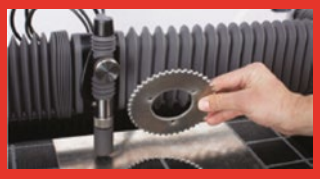
• Cut bed size (D X W)	: 13 X 19 in (330 X 485 mm)
• Cutting area	: 12 X 18 in (305 X 460 mm)
• Width of cut	: 0.044" (1.2mm)
• Abrasive usage	: 0.33 lb/min (140g-150g/min)
• Power	: 220 V / 50 Hz
• Software	: Free, web-based (WAM)
• File Types	: .dxf, .svg
• Warranty	: 1 year
• Cutting Materials	: Cuts Any metal, glass, plastic, composites, tile, rubber, foam
• Cutting Speed	: Depends on Material and Thickness
• Max. Cutting Thickness	: Varies by Material
• Continuous Cutting Time	: 60 min (prior to refilling the abrasive hopper)
• Working pressure	: 4,600 psi / 317 bar
• Working flow rate	: 0.5 GPM / 1.9 L / min
• Water source	: Filtered Tap Water
• Input water filter	: 300 mesh
• Input water pressure	: (Minimum) 35 psi / 2.4 bar
• Input water flow rate	: (Minimum) 1 GPM / 3.8 L/min

Abrasive Specifications

• Material	: 80 Mesh Alluvial Garnet
• Abrasive capacity	: 30 lb / 13.5 kg

1. Upload Your Design
Prepare your design for waterjet cutting with our free, web-based software.

2. Load Your Material
Load any material that fits inside the waterjet machine and fasten it in place.



3. Cut Your Part
Transfer your cut file to WAZER with an SD card, and let the waterjet take it from there to create your cut pieces.

RESELLERS' AUTHORIZATION & CERTIFICATIONS

WAZER

WAZER Inc.
4 Executive Plaza
Suite 175
Yonkers, NY 10701
www.wazer.com

Nov/17/2023

Letter of Authorization

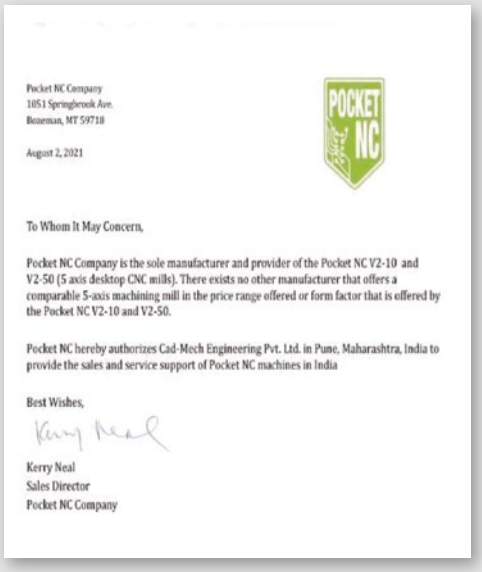
WAZER Inc. is the sole designer and manufacturer of the WAZER waterjet products, including the WAZER Desktop, WAZER Standup, WAZER Starter Bundle and related accessories.

CAD-Mech Engineering Private Limited, located at; Suyash Apt., Wadgaon Bk, Pune - 411041, INDIA, is authorized to sell Wazer Inc products in India.

CAD-Mech Engineering Private Limited is the sole Authorized Reseller in India, responsible for sales and technical support for all Wazer Inc products.

Sincerely,
Tom Herd

Tom Herd
Vice President, WAZER Inc.
(929) 265-5163
info@wazer.com



Pocket NC Company
1051 Springbrook Ave.
Bozeman, MT 59718

August 2, 2021

To Whom It May Concern,

Pocket NC Company is the sole manufacturer and provider of the Pocket NC V2-10 and V2-50 (5 axis desktop CNC mills). There exists no other manufacturer that offers a comparable 5-axis machining mill in the price range offered or form factor that is offered by the Pocket NC V2-10 and V2-50.

Pocket NC hereby authorizes Cad-Mech Engineering Pvt. Ltd. in Pune, Maharashtra, India to provide the sales and service support of Pocket NC machines in India

Best Wishes,

Kerry Neal
Sales Director
Pocket NC Company

Industry Outlook
2025 AWARD

IS PROUD TO PRESENT

CAD MECH ENGINEERING

AS ONE OF THE

TOP 10

LABORATORY EQUIPMENT MANUFACTURERS

2025

in acknowledgement of its unwavering focus and dedication to achieve excellence in quality and delivery in this field.

Sudhakar Singh
Managing Editor
Industry Outlook

TRANSPACIFIC CERTIFICATIONS LIMITED

Certificate of Registration

This is to certify that
Quality Management System
of
CAD MECH ENGINEERING PVT. LTD.

complies with the requirements of
ISO 9001:2015

Manufacturing and Supply of Engineering Educational Equipments.

ANZSIC Code: 2419

TRANSPACIFIC CERTIFICATIONS LIMITED

ISO CERTIFICATE

GOVERNMENT OF INDIA
TRADE MARKS REGISTRY
Trade Marks Act, 1999

MUMBAI

TRADEMARKS CERTIFICATE

NSIC
THE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED
(A Government of India Enterprise)

GOVERNMENT PURCHASE ENLISTMENT CERTIFICATE

NSIC

NSIC CERTIFICATE

Certificate of Registration

This is to certify that the Occupational Health and Safety Management System of
CADMECH ENGINEERING PVT LTD.

has been independently assessed and is compliant with the requirements of
ISO 45001:2018

For the following scope of activities:

MANUFACTURING AND SUPPLY OF ENGINEERING EDUCATIONAL EQUIPMENTS.

Certificate Number: UQ - 2023101221

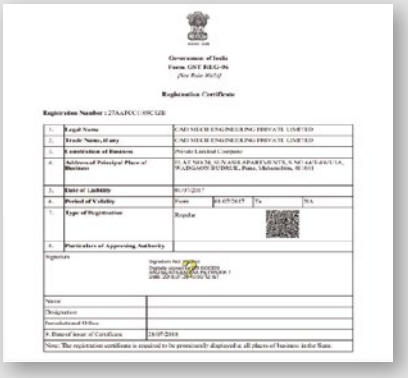
Authorised Signatory

IMPORT-EXPORT CERTIFICATE

Udyog Aadhaar
MSME

Udyog Aadhaar Registration Certificate

MSME CERTIFICATE



Government of India
Form GST REG-06

Registration Certificate

GST CERTIFICATE

Certificate of Registration

This is to certify that the Environmental Management System of
CADMECH ENGINEERING PVT LTD.

has been independently assessed and is compliant with the requirements of
ISO 14001:2015

For the following scope of activities:

MANUFACTURING AND SUPPLY OF ENGINEERING EDUCATIONAL EQUIPMENTS.

Certificate Number: UQ - 2023101230

Authorised Signatory

OUR BRANDS

CADMECH™ Advancing Education

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PENTA MACHINE CO.

WAZER

BRAVOPRODIGY CNC

Rownd

DELTA

GCC

SHAPE THE FUTURE WITH CADMECH

For over 25 years, CadMech Engineering has been more than a provider of lab equipment - we've been a catalyst for progress.
Our cutting-edge CNC trainers, smart labs powered by IoT, AR/VR integration, and unmatched service support have empowered institutions to bridge the gap between today's learning and tomorrow's innovation.

In a world driven by rapid technological advancements, CadMech stands as a trusted partner, offering reliable, affordable, and future-ready solutions.
We don't just build machines; we build confidence, creativity, and curiosity - fueling the next generation of engineers, innovators, and leaders.

Join us in advancing education, enabling progress, and empowering futures.

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Visit: www.cadmech.co.in

CadMech Engineering Pvt. Ltd.

Advancing Education. Empowering Futures.