FANUC ER4iA ROBOT TRAINING CELL

UniversalTech Automation

FANUC

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No-401, Green Springs Apartments
Saravanampatti, Coimbatore, Tamil Nadu-641035
GSTIN: 33AAHFU5594N1ZG
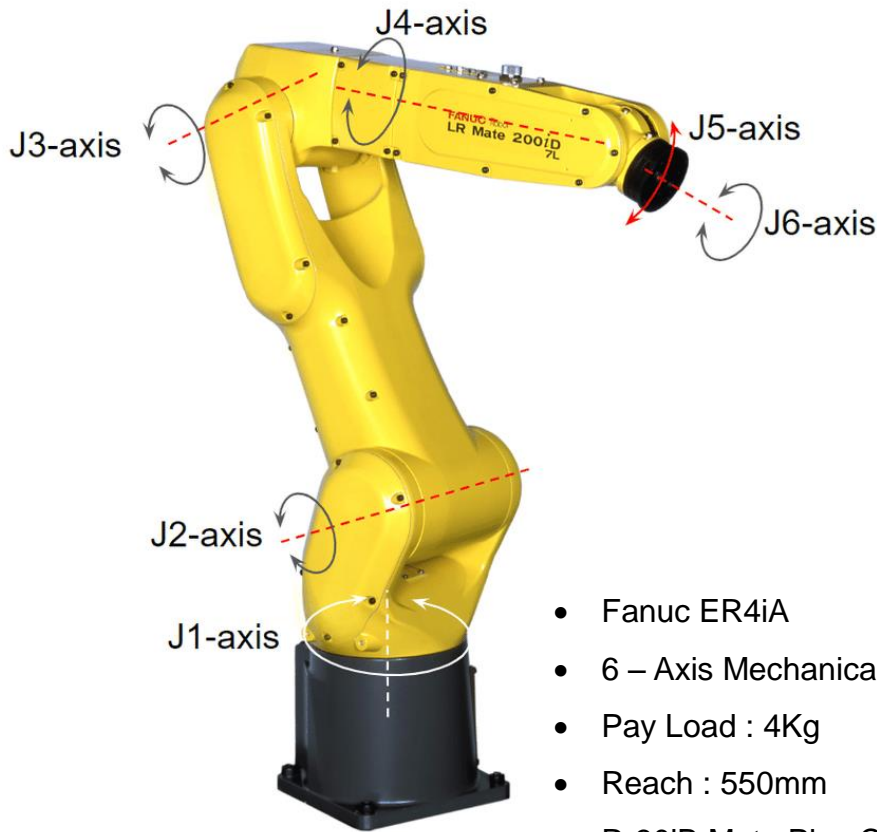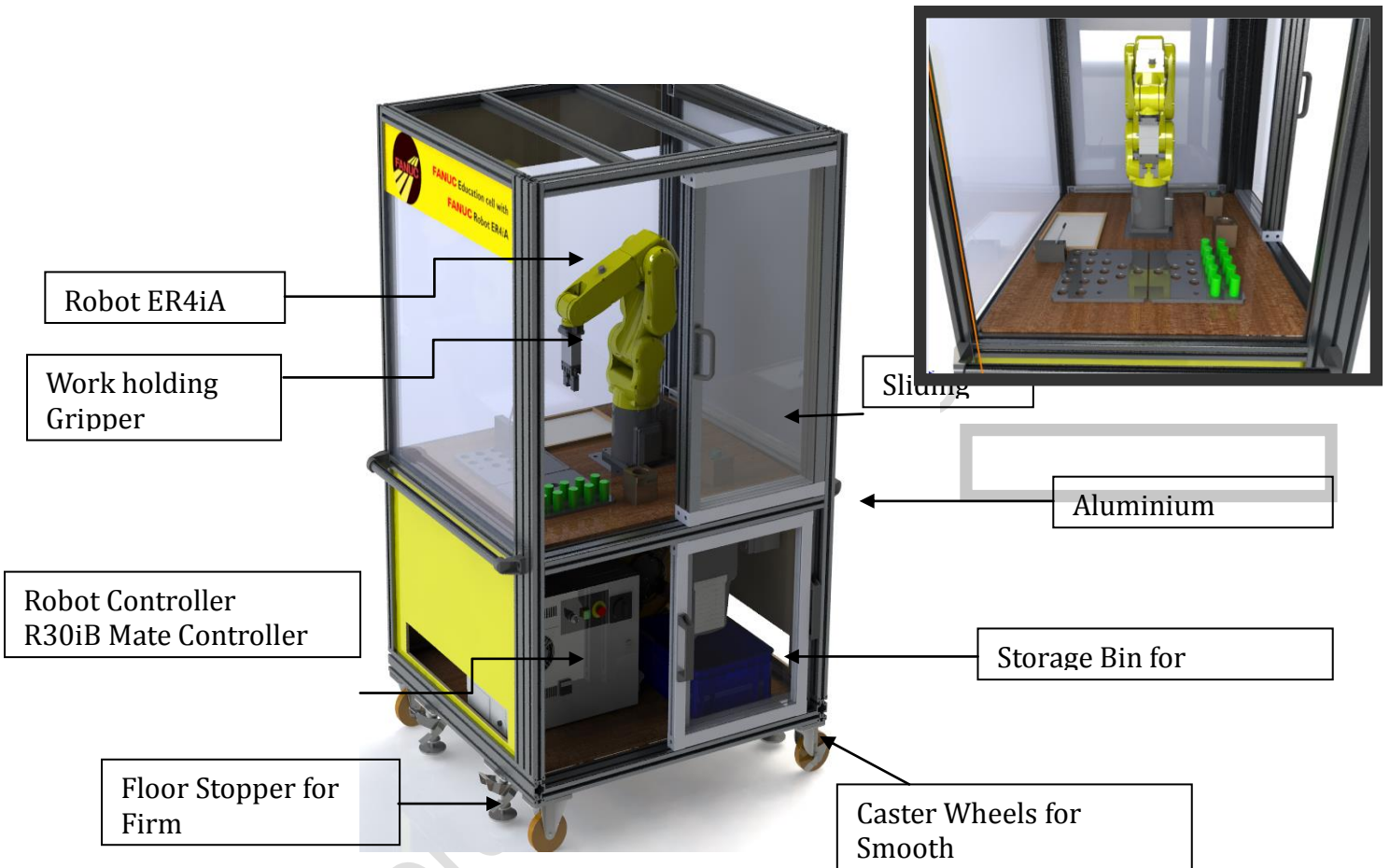
FANUC ER4iA ROBOT

- Fanuc ER4iA
- 6 – Axis Mechanical Unit
- Pay Load : 4Kg
- Reach : 550mm
- R-30iB Mate Plus Controller
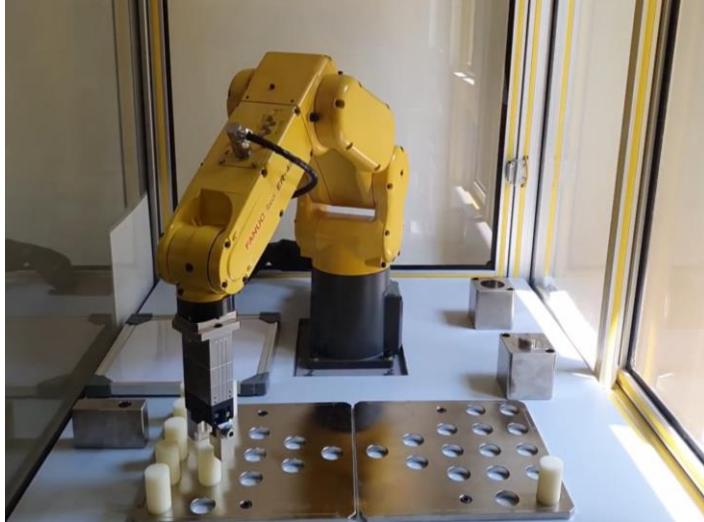- 6 Digital Inputs / 2 Digital Outputs on the Robot Arm
- 2 X Ethernet Ports

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FANUC ER4iA Robot Training Cell

Robot ER4iA

Work holding Gripper

Sliding

Aluminium

Robot Controller
R30iB Mate Controller

Storage Bin for

Floor Stopper for
Firm

Caster Wheels for
Smooth

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LIST OF ITEMS CONSIDERED IN OUR SCOPE OF SUPPLY

S.NO	DESCRIPTION OF ITEM	QUNATITY
1	FANUC Robot- ER-4iA with R30iB Mate Controller & Teach Pendent Operator panel	1 No
2	Roboguide Academic Software & Licenses	10 Licenses
3	Portable Aluminum Structure with Acrylic enclosure, wheels and door	1 No
4	Gripper- 2 JAW with Manual Force control, Adopter with Fingers	1 No
5	Demo parts & setup for Palletizing function	1 No
6	Pen and board arrangement for constant Path and Programming Demonstration	1 Set
7	Pin and block arrangement for precision insertion	1 Set
8	Arrangement for Inspection & Demo at Fabrication facility before dispatch	1 No
9	Installation of Robot training Cell & Roboguide software at College	1 No
10	Training for Faculties on Robot Operations and Programming (10 Participants)	5 Days
11	Training for Students on Robot Operations and Programming (30 Participants)	5 Days

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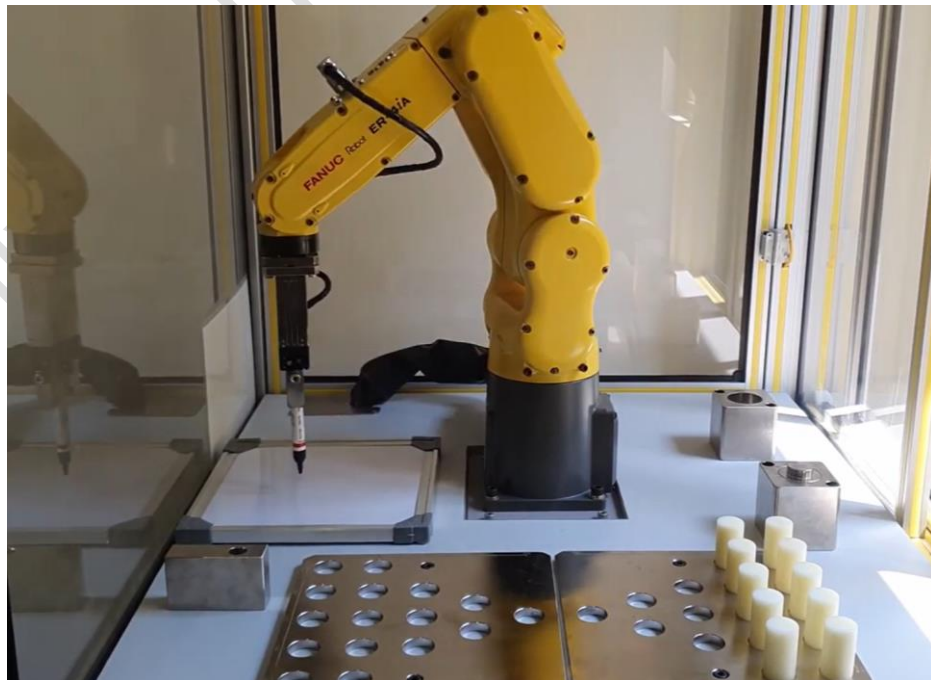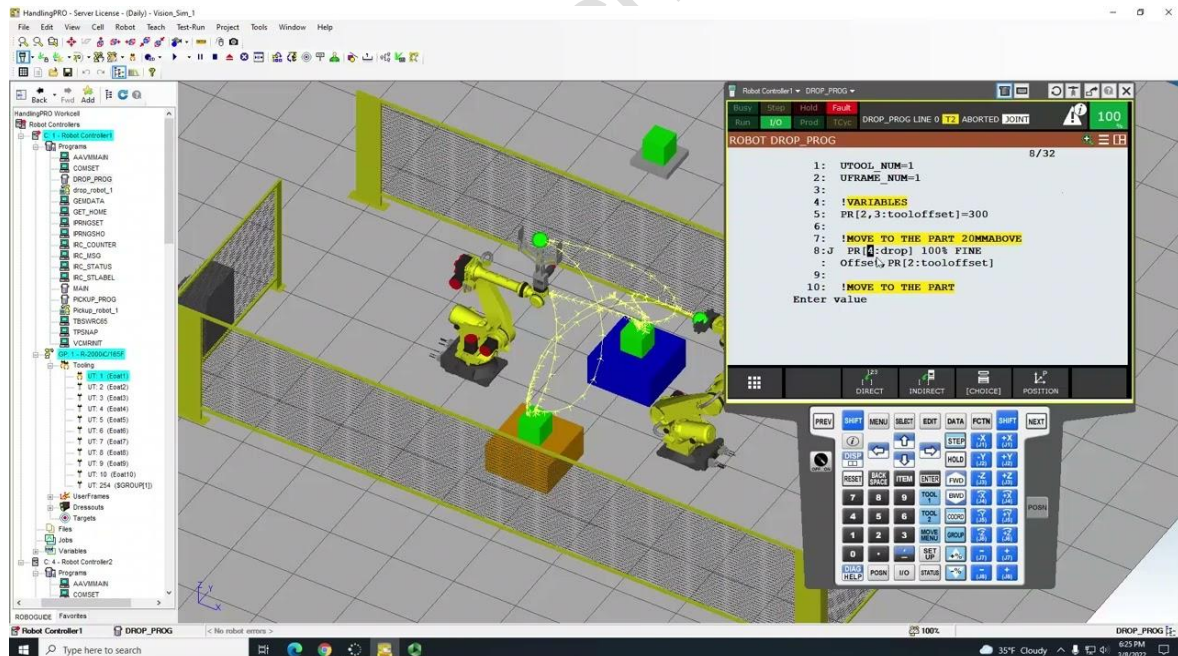
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DEMONSTRATION OF HANDLING APPLICATION

PALLETIZING

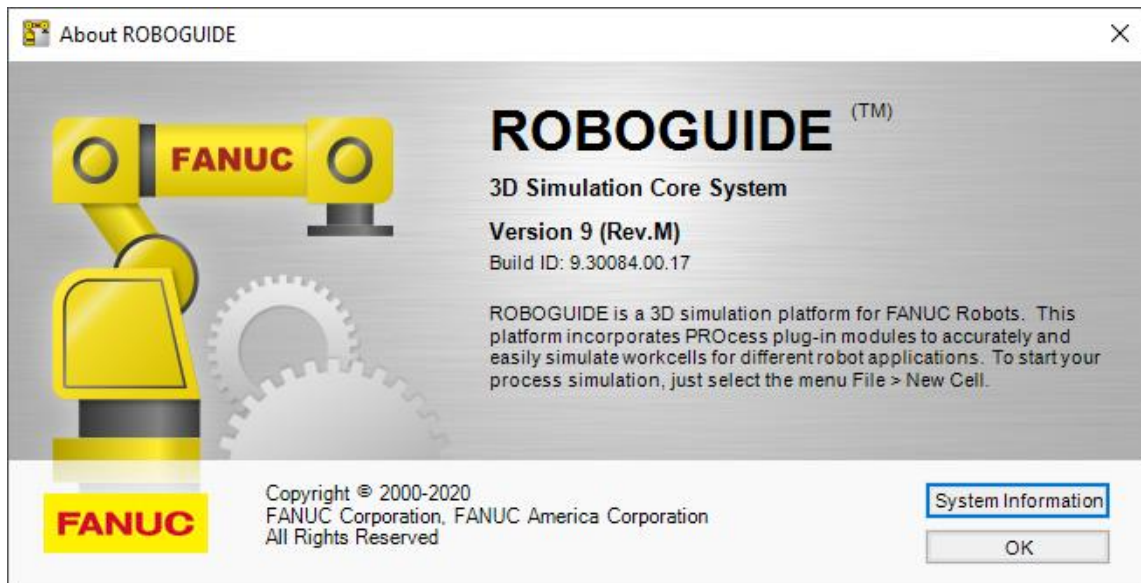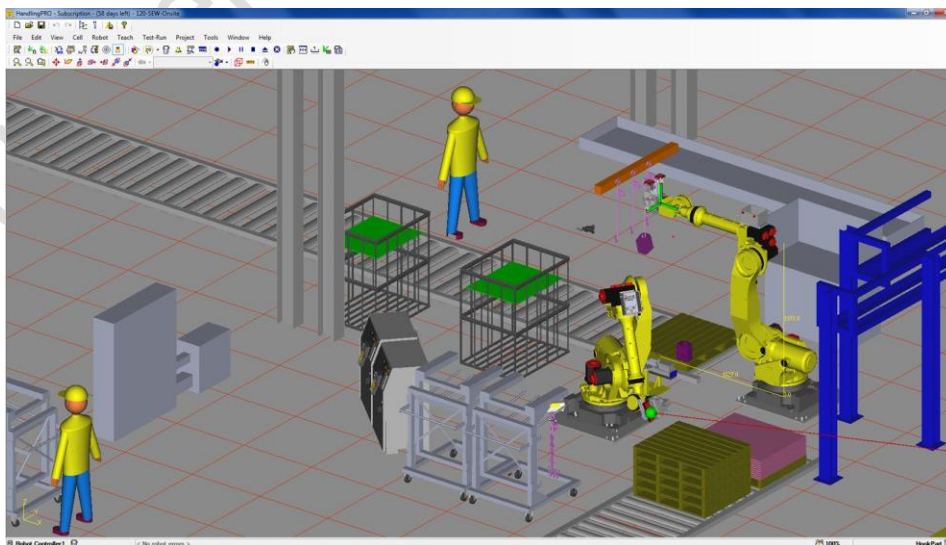**PIN AND BLOCK ASSEMBLY**

ROBOT TEACHING WITH PEN & BOARD

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FANUC ROBOGUIDE PROGRAMMING / SIMULATION SCREENS

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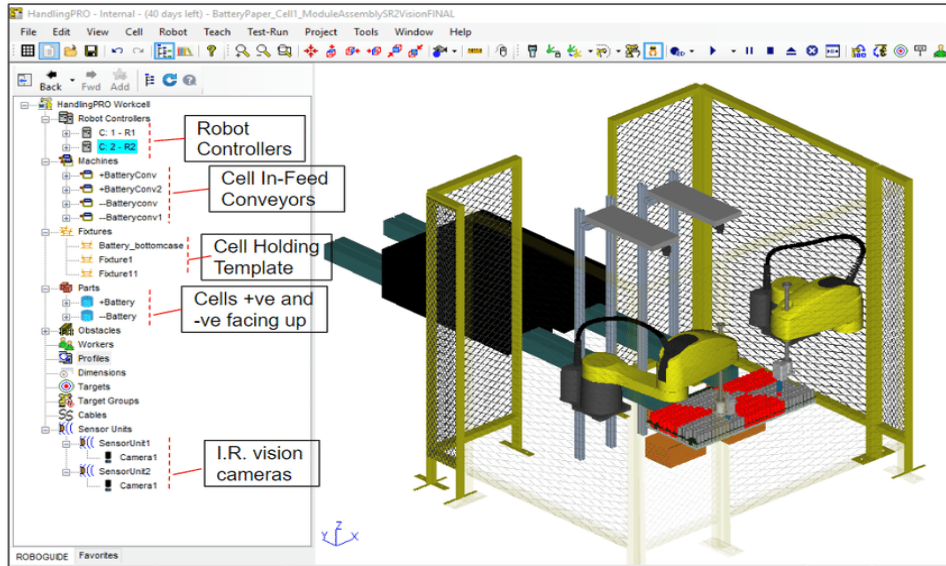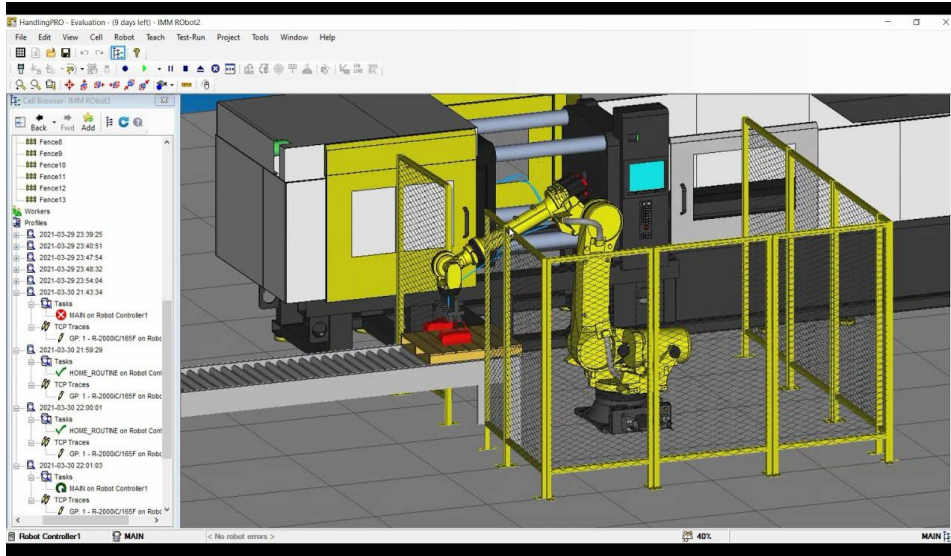
Functions of FANUC ROBOGUIDE

Layout Creation

Library

Robot

Others

Layout
- 2D layout import
- Layout creation

Simple Modeling
- 2D-3D conversion
- Parts modeling
- Library registration

3D CAD data

IGES format

CAD Interface

Program Generation

Programming
- CAD-to-Path
- Graphic jogging
- Easy teaching

Virtual TP

Teach robot data by same operation of actual robot

Verification

Simulation
- Cycle time
- Robot trajectory

Load program to actual robot

- Teach pendent programs
- Logic and I/O Comments

INDUSTRY 4.0
INTELLIGENT IDEAS FOR SMART FACTORIES

EFFICIENCY DREAMS COME TRUE

FANUC ROBOGUIDE is an offline simulation package that simulates both the robot's motion and application commands, significantly reducing the time it takes to create new motion setups.

To ensure minimal impact on production, cells can be designed with imported CAD tested and modified entirely offline. Designed to be intuitive and extremely easy to use ROBOGUIDE requires very little or even no training. Built on Virtual Robot Controllers to give you accurate motion and cycle times.

Easy creation of layouts with devices and machines

Enhance and debug offline without experiencing downtime or lost production

Import of CAD data to give a real look and feel to the application

Simple path planning with animation

Accurate simulation between the virtual and real world

Highly efficient application tools to simplify programming efforts

3D Digital Game Art
Creative Arts and Fashion

Additive Manufacturing
Manufacturing and Engineering Technology

Aircraft Maintenance
Transportation and Logistics

Architectural Stonemasonry
Construction and Building Technology

Autobody Repair

Automobile

Bakery

Beauty Therapy

Concrete Construction Work
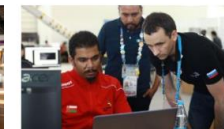Construction and Building Technology

Construction Metal Work
Manufacturing and Engineering Technology

Cooking
Social and Personal Services

Cyber Security
Information and Communication Technology

Digital Construction

Electrical Installations

Electronics
Manufacturing and

Fashion Technology
Creative Arts and Fashion

Bricklaying
Construction and Building Technology

Cabinetmaking
Construction and Building Technology

Car Painting
Transportation and Logistics

Carpentry
Construction and Building Technology

Chemical Laboratory Technology

Cloud Computing
Information and Communication Technology

CNC Milling
Manufacturing and Engineering Technology

CNC Turning
Manufacturing and Engineering Technology

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Robot Systems Integration ensures that robots fit properly in the production process.

Robot Systems Integration

Manufacturing and Engineering Technology

Shaping metal and other solid materials using a computer-controlled milling machine to create products used in almost every aspect of modern life, from cars and smart phones to kitchen appliances and prosthetic limbs

CNC Milling

Manufacturing and Engineering Technology

Creating prototypes from technical designs using a computer controlled lathe that cuts to ultra-fine specifications.

CNC Turning

Manufacturing and Engineering Technology

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ROBOT SYSTEM INTEGRATION

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