

# Robotics And Industrial Automation By R K Rajput

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Intro

First, the tubes and fins are cut, shaped, and assembled to create the core structure  
After the core undergoes brazing and the radiator tanks are assembled & connected to the core, an airtightness test is conducted  
The Atesci blanking and cupping press is an automated machine that cuts and shapes metal strips into cups with precision and accuracy  
FlowForm wheels are produced using a casting process known as flow forming, combining the advantages of both cast & forged wheels  
Flow forming squeezes and stretches aluminum, refining its crystalline structure for a strong inner barrel  
After cleaning and powder coating, wheels are physically tested for radial strength, cornering performance, and impact resistance  
Jonnes Way wrenches are made from premium steel, ensuring endurance and performance  
In the beginning, the raw material is heated and elongated through rolling and forging, increasing overall strength  
The Wrench blanks undergo chemical grinding and hand polishing for a smooth finish  
The Wrenches are stamped with the Jones Way logo and item number before undergoing heat treatment  
After that, they go through sandblasting and chemical grinding for a clean and  
A specially designed plating technique ensures effective deposition and corrosion resistance  
Finished wrenches undergo torque testing, plating examination, and quality inspection before being packed for delivery  
Heat treatment and tempering ensure the desired strength levels and microstructure  
Tubes are subjected to hydrostatic testing, thread protection, and final measurements before being bundled for shipping  
The tanks are crafted with precision using a unique composition of materials for extra strength  
The colors for the tanks are blended and mixed, guaranteeing conformance, permanence, and  
Zen Ball Bearings are manufactured using advanced production techniques and stringent quality control measures  
Precision machining and grinding are employed to create the intricate components of the ball bearings  
This video demonstrates the process of creating galvanized paint buckets  
Concrete sleeper production is essential for modern railways and requires advanced machinery & preproduction techniques  
sleeper mold and compacted to remove any air bubbles and ensure uniformity  
Finally, the sleepers are inspected for quality, trimmed if necessary, and prepared for installation on railway tracks  
Raw Material Preparation  
Batching & Mixing  
Melting  
Blow Glass Forming  
Annealing  
Golf ball manufacturing involves mixing rubber with chemicals to create a hot batter & cooling it between steel drums  
Finally, robotic arms transfer ink logos onto the balls, and a polyurethane spray is applied for protection  
Sturges Manufacturing specializes in engineered webbing and offers custom sewing services  
Sturges Manufacturing's engineered webbing and custom sewing processes ensure high-quality and durable products  
The LPC gas cylinder manufacturing process begins with the selection of  
After that, the guard rings are produced for cylinder protection, and shells are welded to create a strong and leak-proof structure  
After passing the hydraulic test, the cylinders go through a surface treatment process for corrosion resistance  
In the brick manufacturing process, the raw materials undergo crushing to create  
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What is Robot

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