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machines for machines

PROJECTS



TEAM

YOUNG AND PASSIONATE

24 ENGINEERS

43 TECHNICIANS

7 ADMINISTRATIVE STAFF

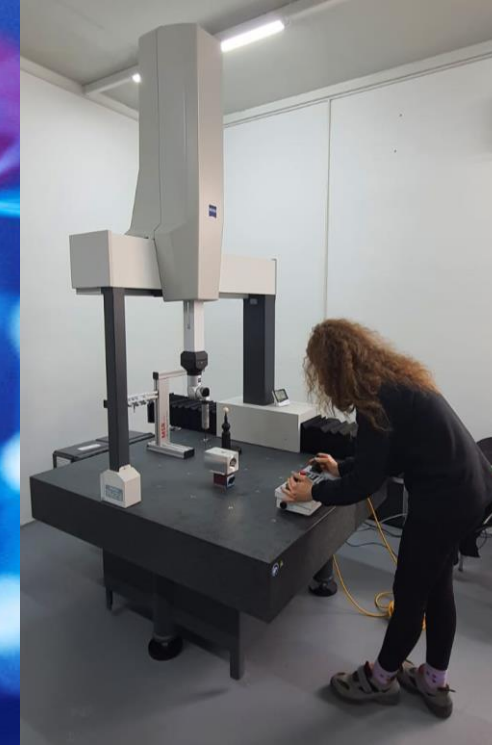


PLANT



2500 m² WORKSHOP AREA

- 4 CNC VERTICAL MILLS
- 1 CNC VERTICAL MILL (4-AXIS)
- 1 CNC VERTICAL MILL (5-AXIS)
- 2 CNC LATHE C-AXIS (10")
- 2 CY AXIS CNC TURNING CENTER
- 1 4MT LATHE CNC TURNING CENTER
- 1 SERVO BENDING MACHINE
- UNIVERSAL MACHINING UNITS
- CMM
- QC LAB
- WELDING UNIT



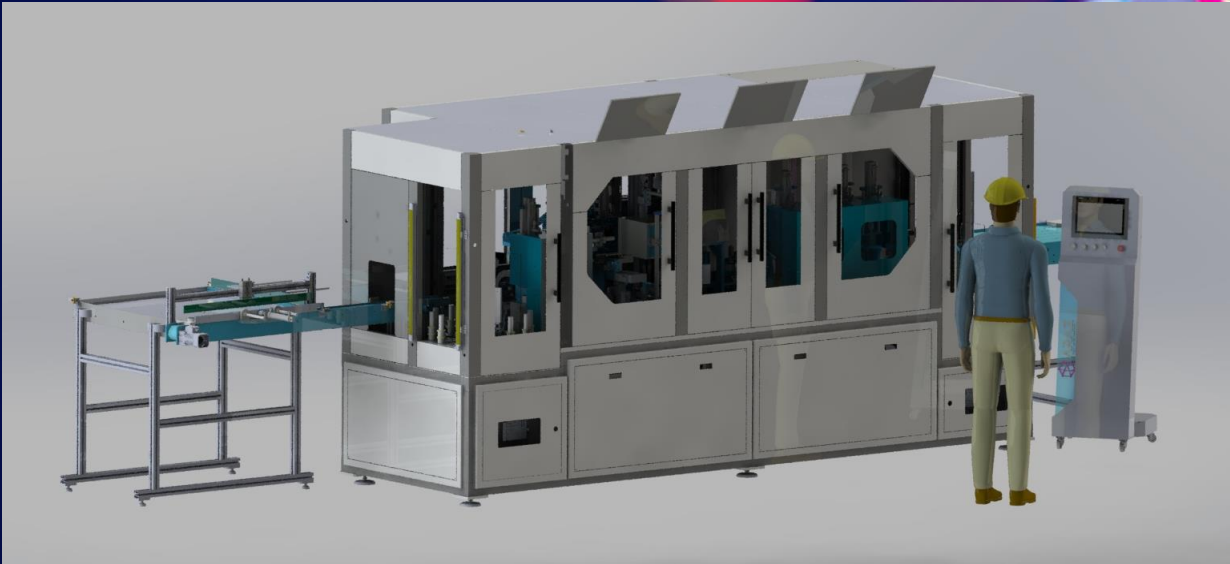
WORKSHOP



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Imagine to Real

Turn Key Engineering Solutions

Inhouse Phases: Design, Manufacturing, Assembly, Automation, Commissioning, Service

One Step Ahead Technologies: Image Processing, Machine Learning, Preventive Maintenance, Digital Maintenance Assistance etc.



COMPETENCIES



PROJECTS FOR HOUSEHOLD APPLIENCES

WATER SOFTENER COMPLETE ASSEMBLY LINE



HOUSEHOLD APPLIENCES

PLASTICS TECHNOLOGIES



SERVO RESIN FILLING MACHINE

SOLDERING MACHINE (HOT PLATE WELDING)

LEAKAGE & FUNCTIONAL TESTING MACHINE





WATER SOFTENER
COMPLETE ASSEMBLY
LINE



HOUSEHOLD APPLIENCES

PLASTICS TECHNOLOGIES

SERVO RESIN FILLING

- 4 STATION ROTARY TABLE
- RESIN FILLING
- FUNCTIONAL CHECK
- COVER ASSEMBLY
- FILLING TOLERANCE: $\pm 10\text{ml}$

SOLDERING MACHINE

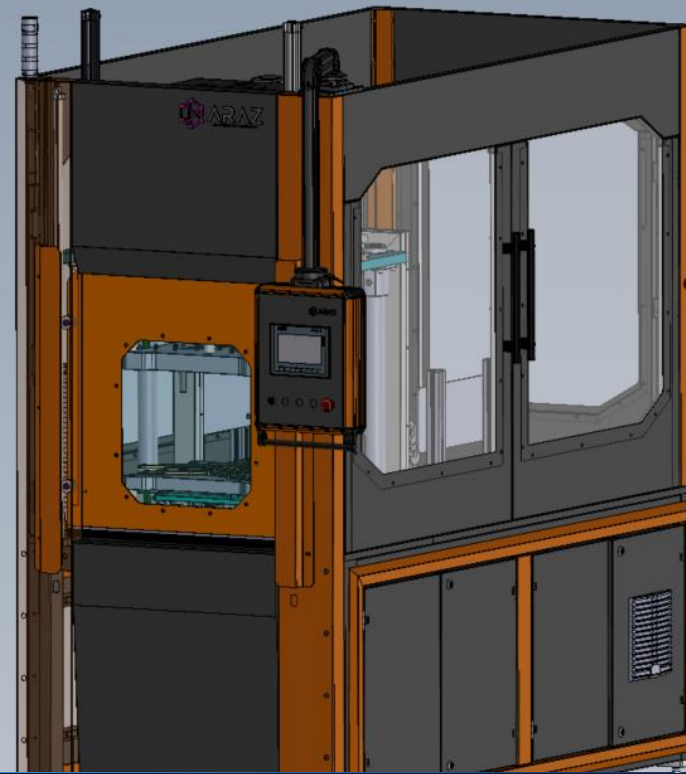
- HOT PLATE WELDING
- PID AND REGIONAL CONTROL FOR HOMOGENOUS HEAT DISTRIBUTION

LEAKAGE & FUNCTIONAL TESTING MACHINE

- LEAKAGE TEST WITH ATEQ
- FUNCTIONAL ELECTRICAL TESTS
- AUTOMATIC POKA YOKE AND UNLOADING



SOLDERING MACHINE
CORNER WASH



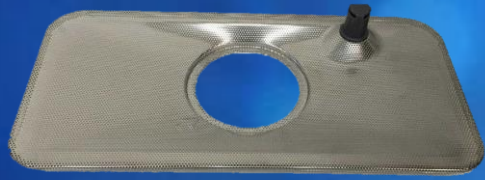
DELIVERY TIME 12 WEEKS

HOT PLATE WELDING TECHNOLOGY

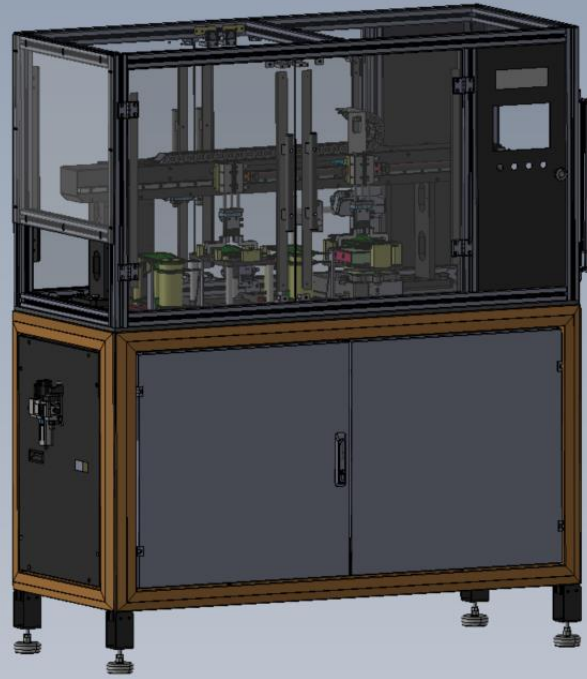
PID CONTROL FOR HOMOGENOUS HEAT DISTRIBUTION

HOUSEHOLD APPLIENCES

PLASTICS TECHNOLOGIES



HOLE GAUGE AND
VISION CONTROL
FOR DUST FILTER



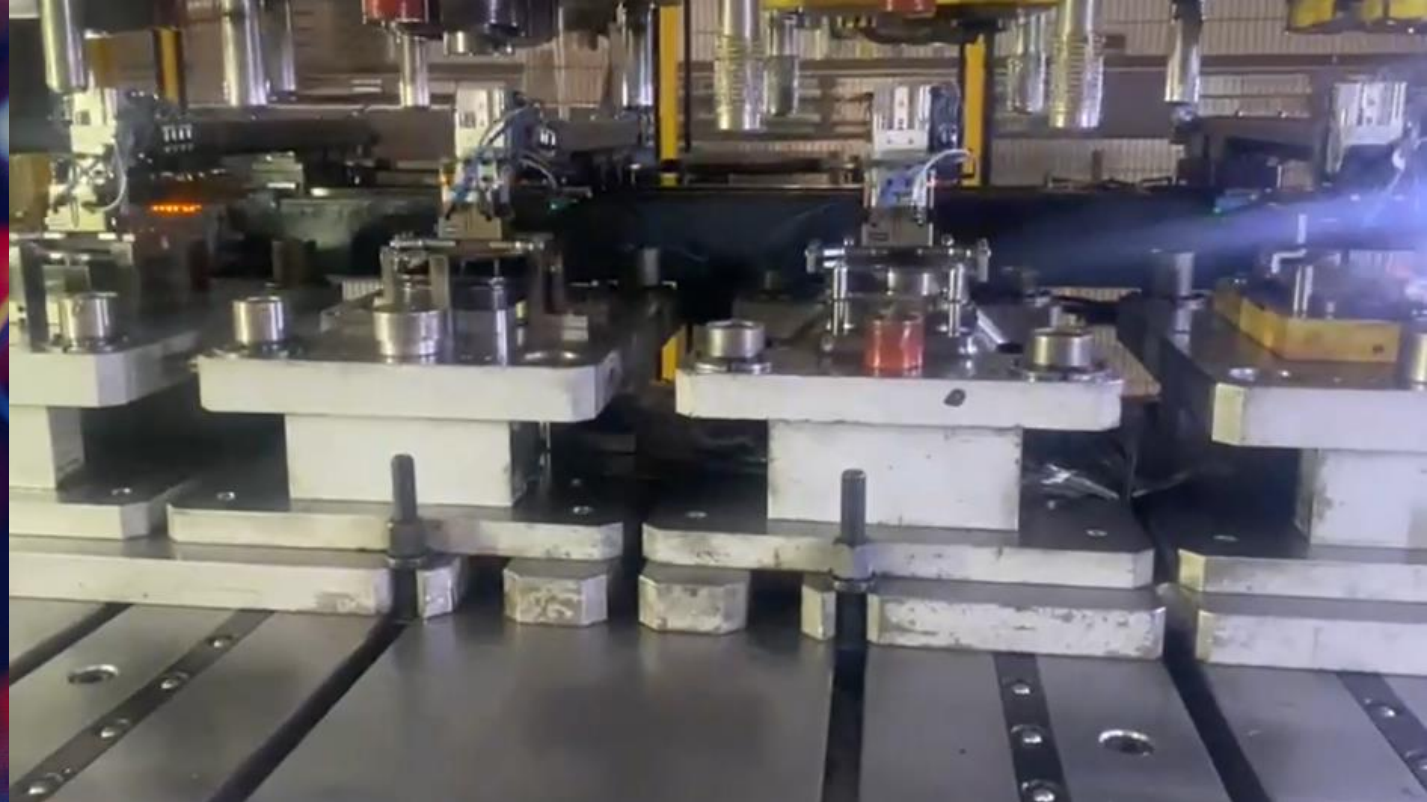
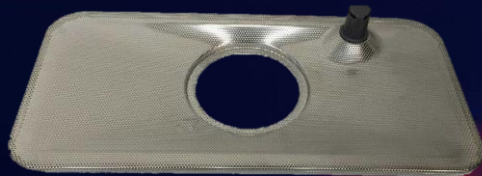
DELIVERY TIME 6 WEEKS



HOUSEHOLD APPLIENCES

IMAGE PROCESSING

DISHWASHER FILTER PRESS
TRANSFER SYSTEM



DELIVERY TIME 6 WEEKS

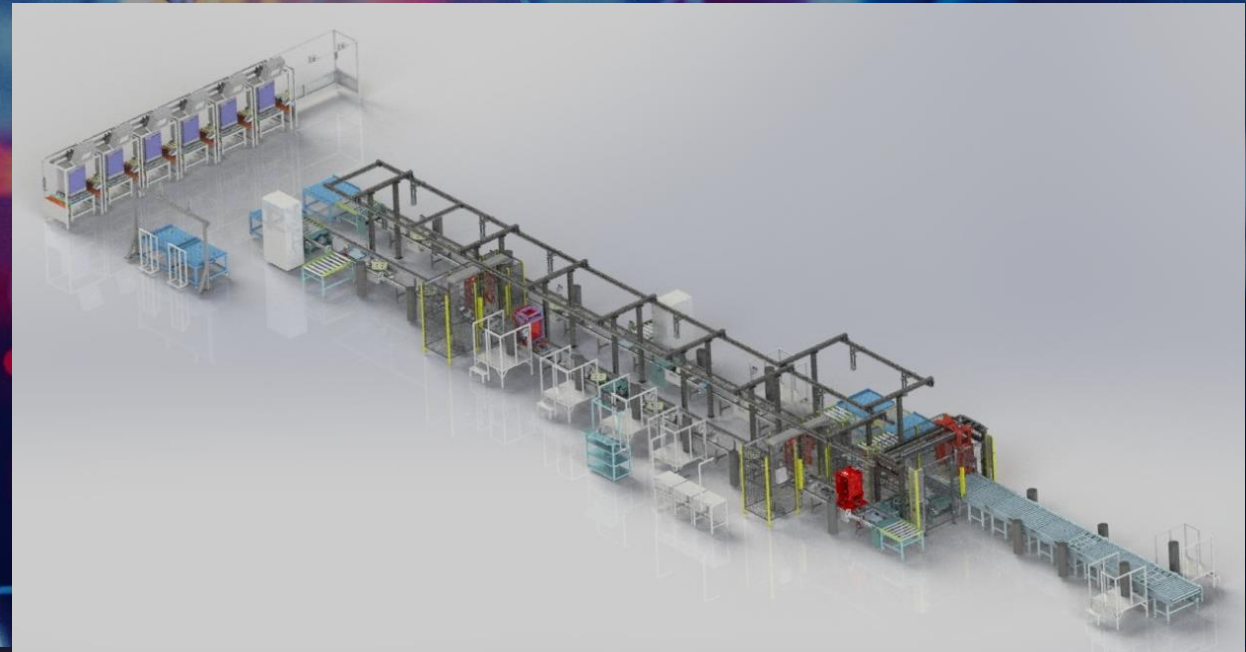
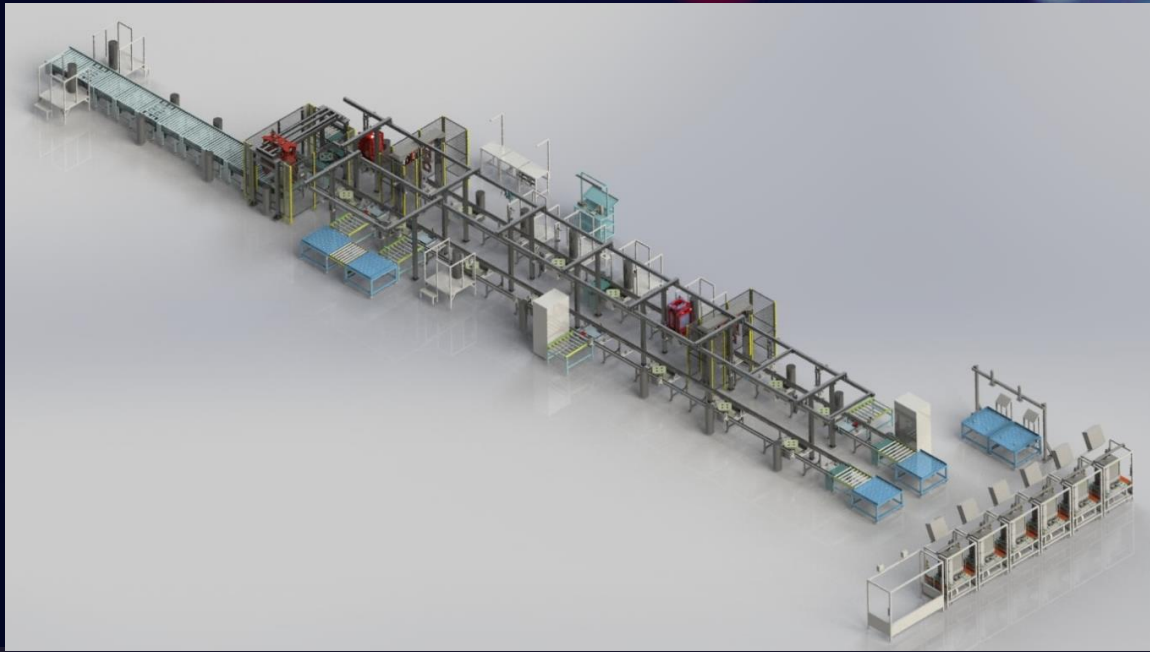
COMPACT DESIGN FOR NARROW PRESSES DIMENSIONS

ADJUSTABLE STROKES AND PITCHES FOR DIFFERENT TOOLS

HOUSEHOLD APPLIENCES

TRANSFER SYSTEMS

DISHWASHER PRODUCTION LINE FOR BEKO EGYPT




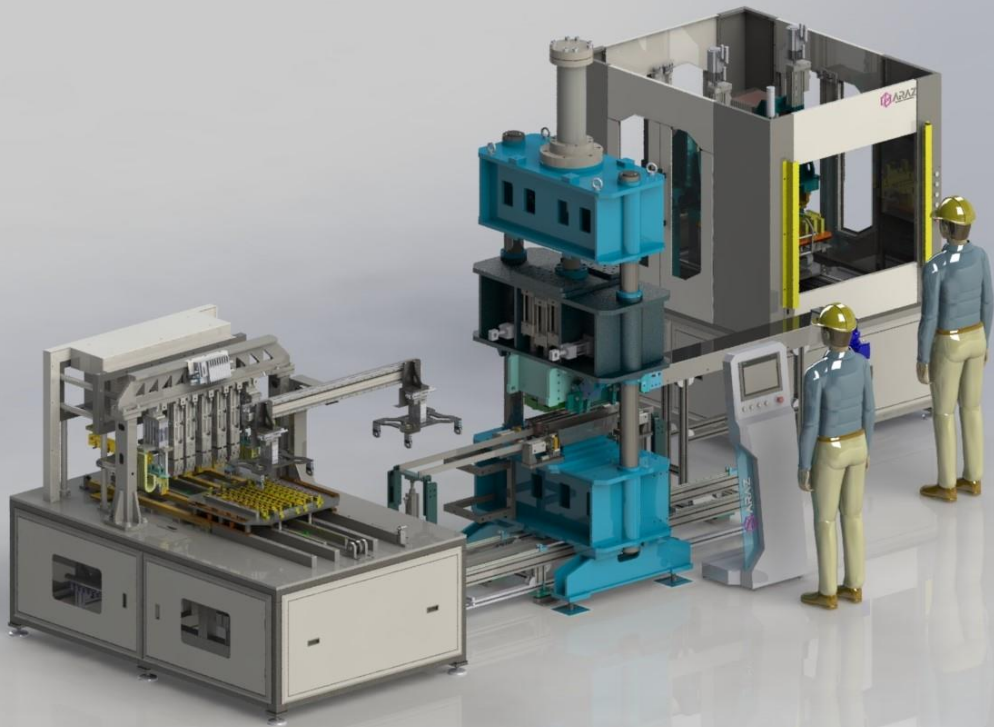
HOUSEHOLD APPLIENCES

PRODUCTION LINES



DELIVERY TIME: 9 WEEKS

- 60 MT PRODUCTION LINE
- EASILY UPGRADEABLE FOR CAPACITY INCREASE
- FEASIBLE CONCEPT/LAYOUT FOR CUSTOMER
- FOR BEKO EGYPT



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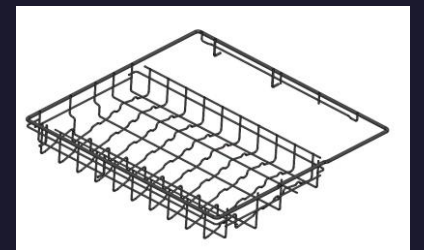
HOUSEHOLD APPLIENCES

WIRE TECHNOLOGIES



PLATE HOLDER RACK LINE

- MESH WELDING MACHINE
- HYDRAULIC FORMING PRESS
- FRAME WELDING STATION
- DELIVERY TIME 7 MONTHS



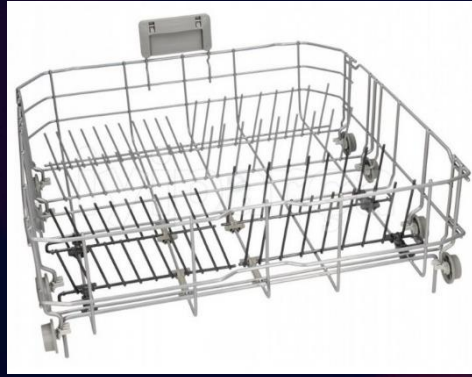


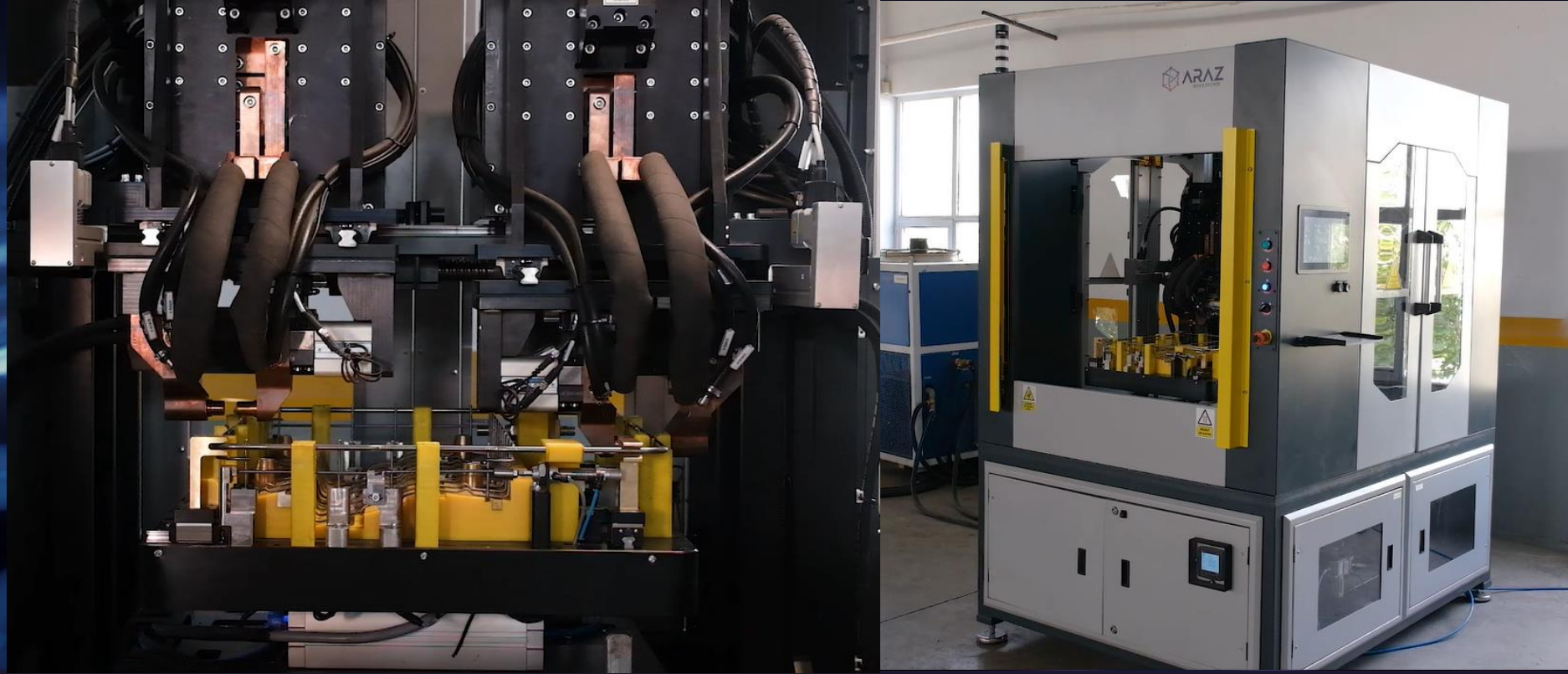
PLATE HOLDER PIN WELDING AND BENDING MACHINE



HOUSEHOLD APPLIENCES

WIRE TECHNOLOGIES

8-AXIS UNIVERSAL
WELDING MACHINE



8-AXIS UNIVERSAL WELDING MACHINE

UNIVERSAL WELDING MACHINE WITH DIFFERENT PRODUCT FIXTURES

ADJUSTABLE WELDING FORCE WITH PROPORTIONAL REGULATORS

EASILY ADJUSTABLE WELDING PARAMETERS

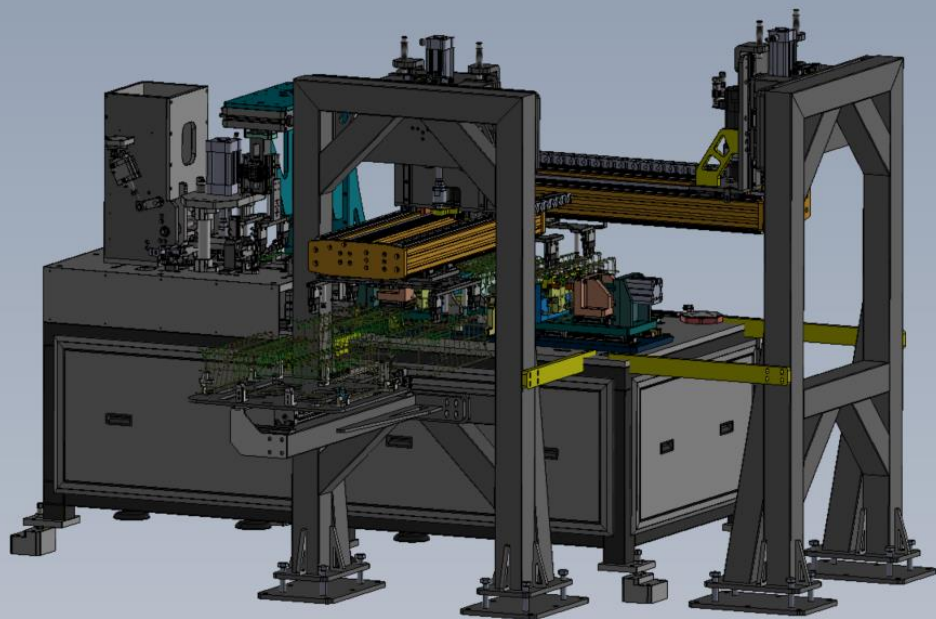


HOUSEHOLD APPLIENCES

WIRE TECHNOLOGIES



WHEEL HOLDER BENDING MACHINE



DELIVERY TIME 8-10 WEEKS

A system that integrated into the customer's existing line for decreasing the number of personnel by automated wheel holder welding operation.



HOUSEHOLD APPLIENCES

WIRE TECHNOLOGIES





WIRE BENDING
MACHINES



DELIVERY TIME 12 WEEKS FOR 6 MACHINES

SERVO CONTROLLED PLATE HOLDER BENDING STATIONS



HOUSEHOLD APPLIENCES

WIRE TECHNOLOGIES





UPPER RACK PLATE HOLDER WELDING AND BENDING MACHINE

HOUSEHOLD APPLIENCES

WIRE TECHNOLOGIES





PROJECTS FOR AUTOMOTIVE



HIGH ACCURACY INSPECTION AND
QUALITY CONTROL SYSTEM
0,1 μm RESOLUTION



AUTOMOTIVE
MEASURING

DIMENSIONING AND VISION CONTROL SYSTEM

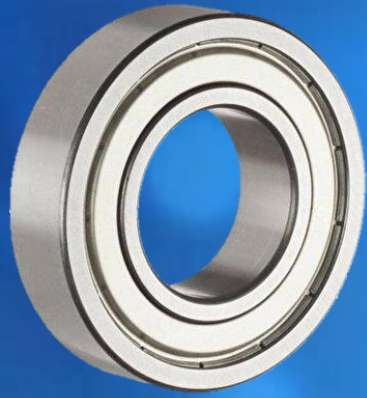
14 VISION AND INSPECTION STATION

SERVO TRANSFER SYSTEMS (20 SERVO DRIVE TOTAL)

AUTOMATIC MODEL CHANGE

PREVENTIVE MAINTENANCE





BEARING
CONSERVATION
MACHINES



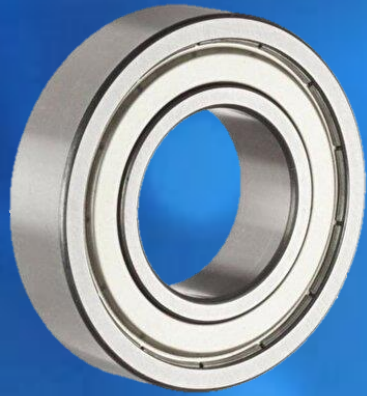
DELIVERY TIME 14 WEEKS FOR 20 MACHINES

Ø26-200mm PROCESS RANGE

AUTOMOTIVE

MEASURING





POST PROCESS
INNER DIA TEST



DELIVERY TIME 8 WEEKS FOR 10 MACHINES

0.1 Micron Measuring Resolution



AUTOMOTIVE
MEASURING



NON-TOUCH OVALITY
CONTROL AND
CLASSIFICATION SYSTEM



DELIVERY TIME 12 WEEKS

1 Micron Measuring Resolution



AUTOMOTIVE

MEASURING



FULLY AUTOMATIC
MEASUREMENT AND CONTROL
MACHINE



AUTOMOTIVE
MEASURING

1 MICRON PRECISION

COULD BE INTEGRATED INTO THE LINE BETWEEN TOOLING
PROCESSES





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References



Teşekkürler

Thank You

Dziękujemy



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