

**BOXY** AutoLoader®

**COMPACT  
AUTOMATION  
SOLUTIONS**



**CONTROLLED BY**

**SOFTBOXY**®

**CNC** İleri Teknoloji Müh. San. ve Tic. Ltd. Şti.

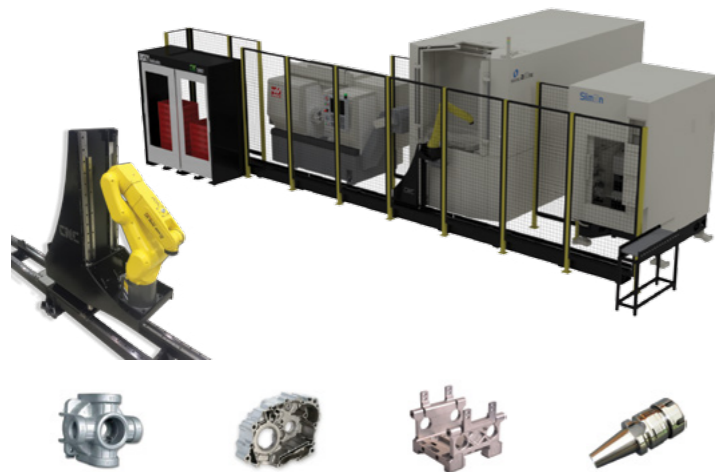
# BOXY AutoLoader® Type #1



## TYPE #1

- » Excellent solution for Stand Alone Machine Applications
- » High Speed Loading & Unloading
- » 4 kg Part Loading & Unloading Capacity
- » Suitable for Turning, Milling and Grinding Applications
- » Recommended for Small Size Parts (80mm X 80mm X 80mm)
- » Free Entrance to Machining Area & Operator Panel
- » 1 Day Integration

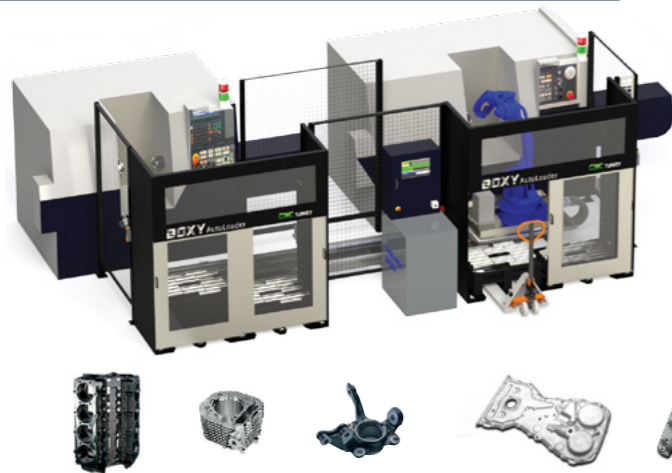
# BOXY AutoLoader® Type #2



## TYPE #2

- » Modular System & Possible to add machine in future
- » 7<sup>th</sup> and 8<sup>th</sup> Axis Movement
- » High Speed Loading & Unloading
- » 4 kg or 9 kg Part Loading & Unloading Capacity
- » Applicable for Different Type of Parts in Same System
- » Excellent Solution for Different Type of Machines
- » 3 to 5 Day Integration (Depends on No of Machine)

# BOXY AutoLoader® Type #3



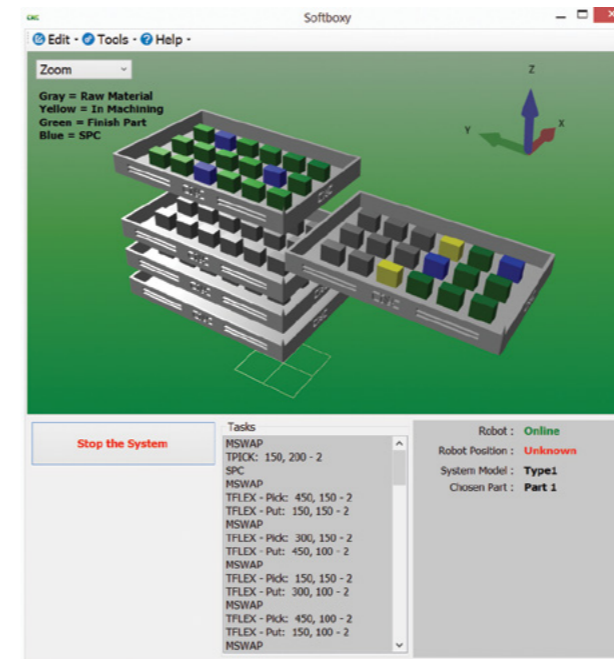
## TYPE #3

- » Modular System & Possible to Add Machine in Future
- » 7<sup>th</sup> Axis Movement - Linear Layout
- » Suitable for Heavy Duty Applications
- » 20 kg to 150 kg Part Loading & Unloading Capacity
- » Applicable for Different Workpiece in Same System
- » Excellent Solution for Different Type of Machines
- » 3 to 5 Day Integration (Depends on No of Machine)

# SOFTBOXY®

## THE UNIQUE SOFTWARE TO MANAGE BOXY AUTOLOADER SERIES

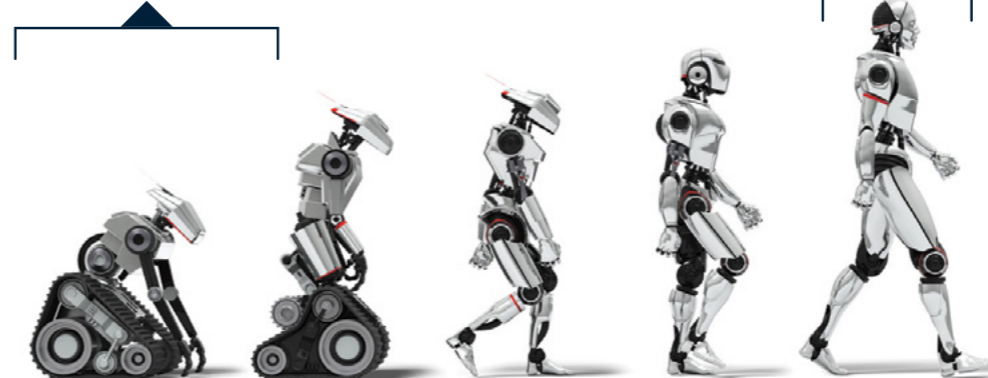
SOFTBOXY IS ADVANCED PC BASED CONTROL SOFTWARE WHICH CREATED BY CNC TO MANAGE ALL BOXY MODELS USER FRIENDLY INTERFACE PROVIDES TO MANAGE COMPLICATED OPERATIONS WITH SIMPLE PROGRAMING. UNIQUE DESIGN OF SOFTBOXY ALLOWS TO CONTROL MACHINE & ROBOT AND PERIPHERAL EQUIPMENTS.



- » User Friendly Interface
- » Matrix Type Dialog Programming
- » Easy Part Changeover
- » Dynamic Scheduling
- » Easy Connection for ERP Systems
- » Remote Access against Troubleshooting

**ROBOT IS NOT AUTOMATION INVEST IN COMPLETE SYSTEM**

Today's Robot Technology



Expectation



**AEROSPACE**

**DIE & MOLD**

**MEDICAL**

**PART PRODUCTION**

**WORK SHOPS**

# BOXY AutoLoader® Type #1

## SOFTBOXY

- » User Friendly Interface
- » Easy Part Changeover
- » Quick Connection to ERP Systems



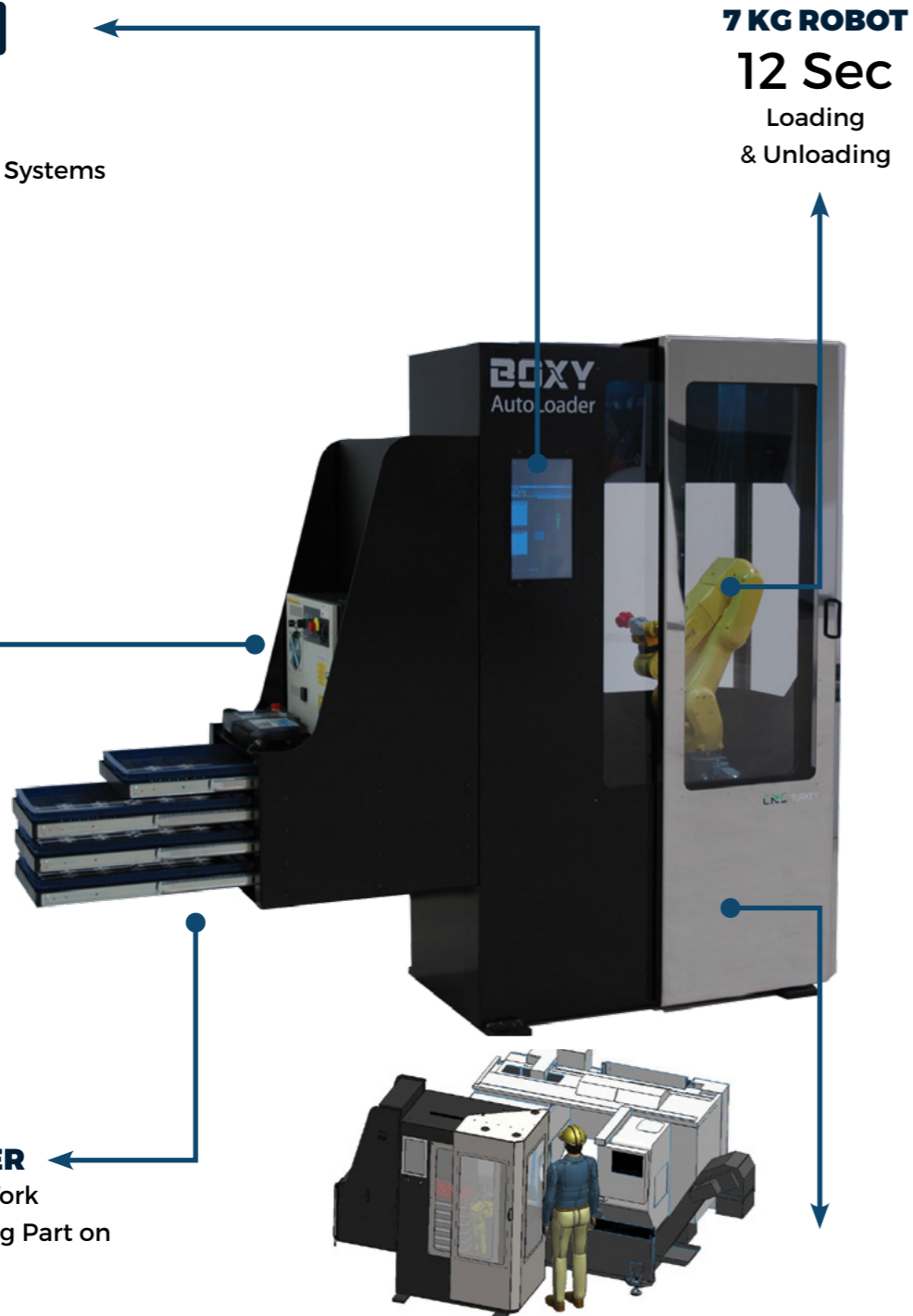
## Plug and Play

- » 1 Day Integration
- » Minimum investment for machine preparation
- » Applicable for any kind of CNC Controller



## DRAWER TYPE STOCKER

- » Long Hours Unmanned Work
- » Easily Loading & Unloading Part on Stocker



**7 KG ROBOT**  
**12 Sec**  
Loading & Unloading

## EASY ACCESS TO MACHINE

- » 1 Day Integration
- » Minimum investment for machine preparation
- » Applicable for any kind of CNC Controller

## STANDARD SPECIFICATION

- **7kg - 6<sup>th</sup> Axis Industrial Robot**
- **Drawer Type Part Stocker**
  - Std 5 Drawers (600mm X 400mm X 100mm)
- **Gripper**
  - Std Single Action Gripper
- **High Speed Loading & Unloading**
- **CE Regulation for Safety**
- **Characteristic System**
  - 4 kg Part Loading & Unloading Capacity
  - Excellent Solution for Short Cycle Time Parts
  - 1 Day Inegration
  - Operator Free Door Design
    - Quick Set Up for New Part
    - Possible Manuel Usage & Adjustment
  - Easy Part Changeover by SoftBoxy
  - Small Footprint
- **Optional Specification**
  - 6<sup>th</sup> Drawer Stocker (600mm X 400mm X 80mm)
  - Double Action Gripper
  - Air Clean System
  - SPC Station

## INCREASE EFFICIENT WORKING HOURS MORE SPINDLE HOUR

### LOADING&UNLOADING BY OPERATOR

22,5 HOURS X 280 DAYS X 0,80 EFFICIENCY

**5.000 WORKING HOURS**



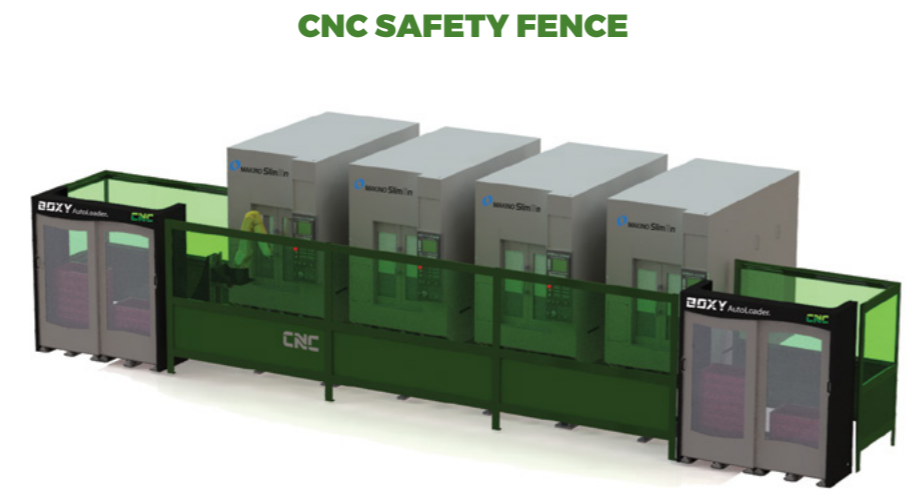
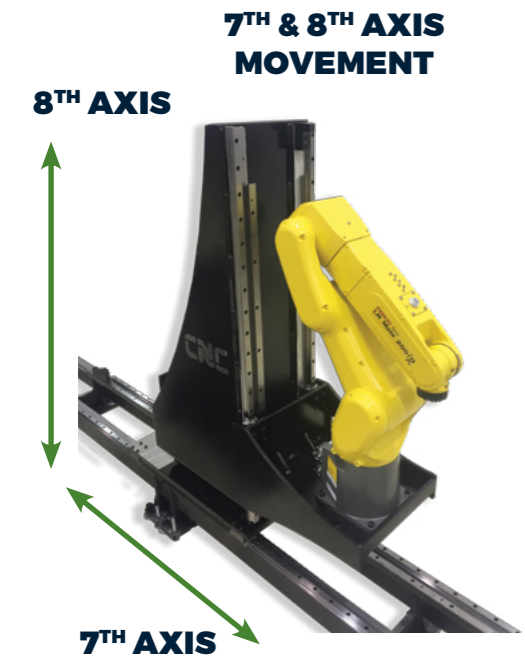
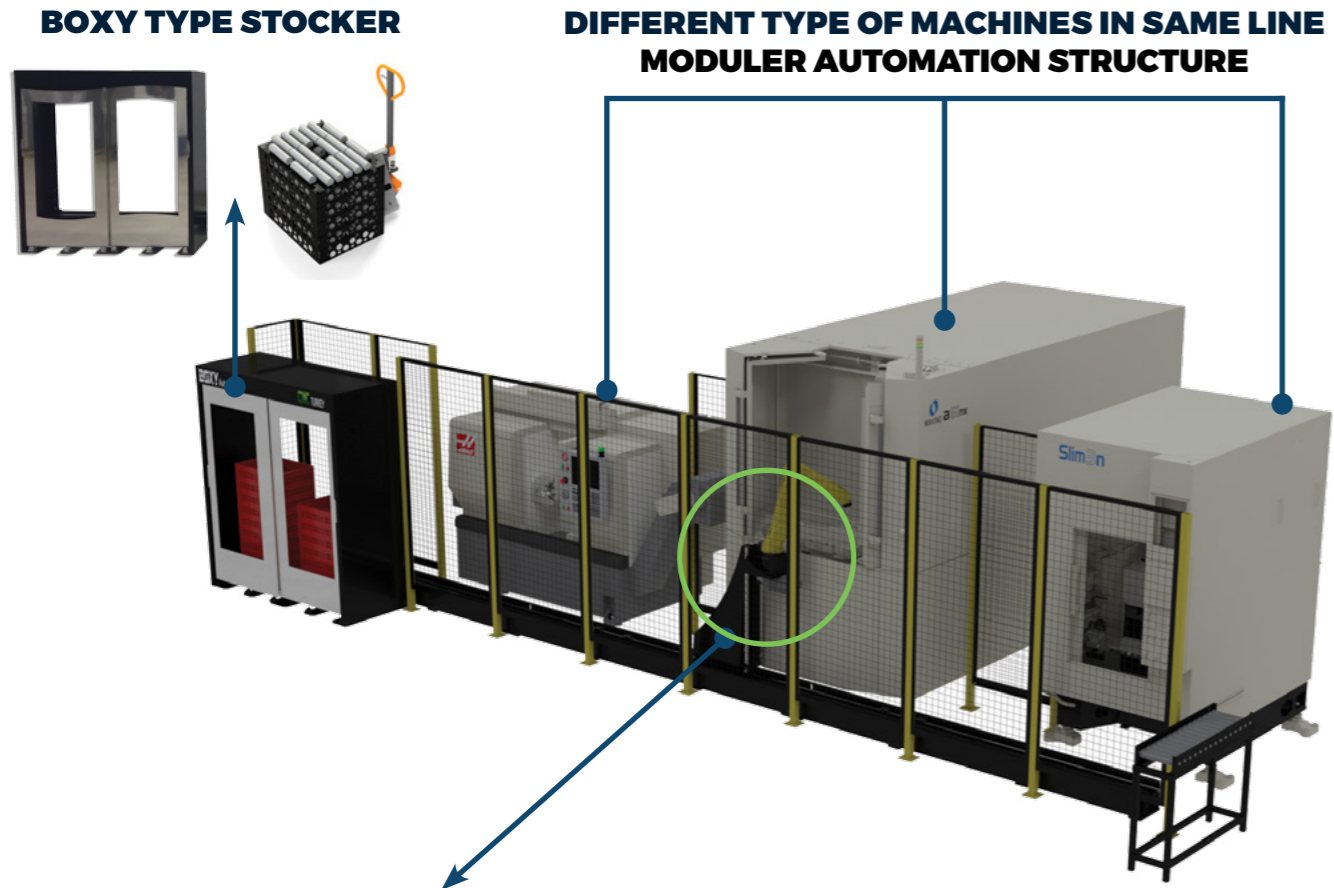
### LOADING&UNLOADING BY BOXY AUTOLOADER

24 HOURS X 300 DAYS X 0,90 EFFICIENCY

**6.500 WORKING HOURS**



**1.500 MORE WORKING HOURS PER YEAR**

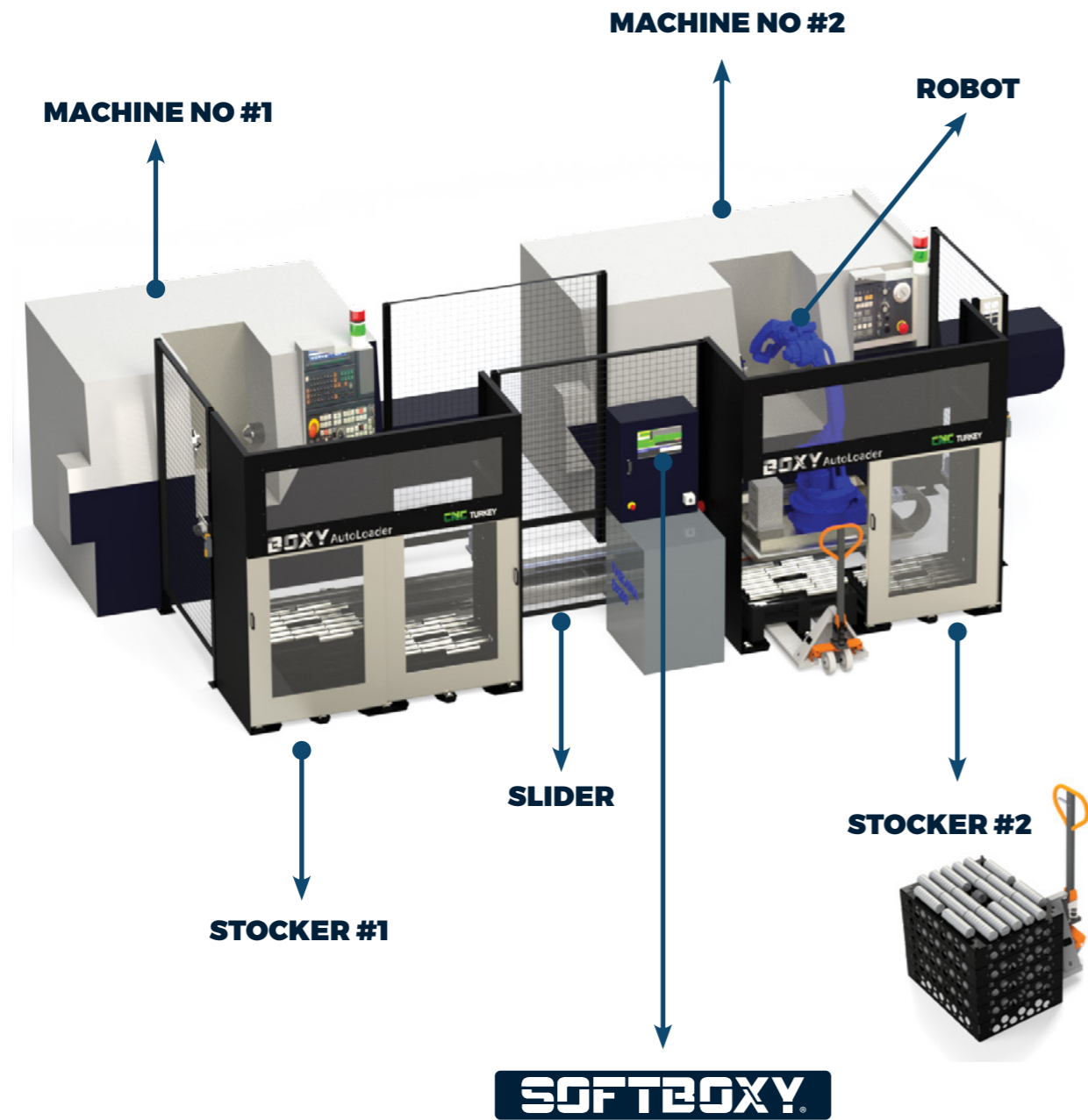


## SYSTEM CHARACTERISTIC

- **7kg - 6<sup>th</sup> Axis Industrial Robot**
- **Modular Design**
  - Possible to extend system in future
- **7<sup>th</sup> and 8<sup>th</sup> Axis Movement**
  - 7<sup>th</sup> Axis - Robot will run between machines - Linear
  - 8<sup>th</sup> Axis - Robot will run Up & Down directions
- **Boxy Type Part Stocker**
  - 600mm X 400mm Standard Box or Seperators
  - System Include 1 Unit of Boxy Part Stocker
- **Gripper**
  - Std Single Action Gripper
- **High Speed Loading & Unloading**
- **CE Regulation**
- **Advantages of System**
  - Modular Design - Applicable from 1 machine to multi machines
  - Easy Part Changeover
  - Small Footprint
  - Short Time Integration
    - 2 Days for Single Machine Applications
    - 3 to 5 Days for Multi Machine Applications
- **Optional Specification**
  - 12kg Robot - 9kg Payload
  - Extention of System
  - Double Action Gripper
  - Gripper Changer
  - Camera
  - Additional Boxy Unit - To use different parts in system
  - SPC Station



**EXCELLENT SOLUTION FOR HEAVY DUTY PARTS**



**SYSTEM CHARACTERISTIC**

- **SYSTEM CHARACTERISTIC**
- **35kg - 6th Axis Industrial Robot**
- **Modular Design**
  - Possible to extend system in future
- **7<sup>th</sup> Axis Movement**
  - 7<sup>th</sup> Axis - Robot will run between machines - Linear
- **Boxy Type Part Stocker**
  - 800mm X 600mm Standard Box or Separators
  - System Include 1 unit of Boxy Part Stocker
- **Gripper**
  - Std Single Action Gripper
- **High Speed Loading & Unloading**
- **CE Regulation**
- **Advantages of System**
  - Applicable from 1 machine to multi machine
  - Easy Part Changeover
  - Small Footprint
  - Short Time Integration
    - 2 Days for Single Machine Applications
    - 3 to 5 Days for Multi Machine Applications
- **Optional Specification**
  - 50kg / 100kg / 150kg Robot
  - Extension of System - Modular Structure
  - Double Action Gripper
  - Gripper Changer
  - Camera
  - Additional Boxy Unit - To use different parts in system
  - SPC Station

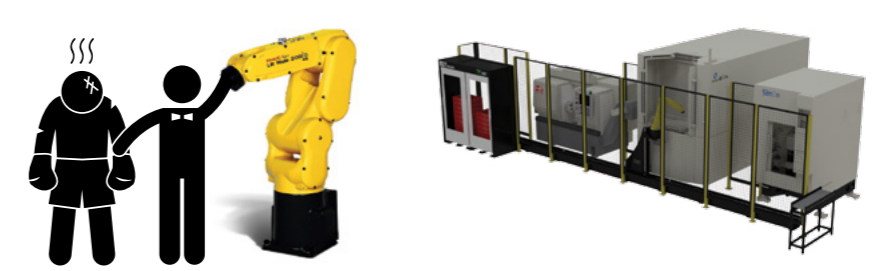
**REMAINING COMPETITIVE IN GLOBAL MARKET**

**COMPANY WITHOUT AUTOMATION**



- HIGHER PART COST** » High Labor Cost  
**NON-RELIABLE PRODUCTION** » Less Efficiency  
 » More Management Attention  
 » Delivery Problems  
 » Quality Problems

**COMPANY WITH AUTOMATION**



- LESS PART COST** » Low Labor Cost  
**RELIABLE PRODUCTION** » High & Constant Efficiency  
 » Less Management Attention  
 » Constant Delivery  
 » Constant Quality

# 10 TIPS OF AUTOMATION INVESTMENTS

## 01 USE ADVANCED SOFTWARE AS THE BRAIN OF SYSTEM

**SOFTBOXY.**



All components of system  
Controlled by Softboxy



Old Fashion Robot Application  
Master & Slave Integration with Cabling



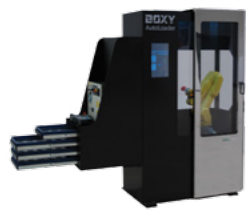
## 06 ADVANCE MANAGEMENT SOFTWARE TO MANAGE ALL SYSTEM

**SOFTBOXY.**

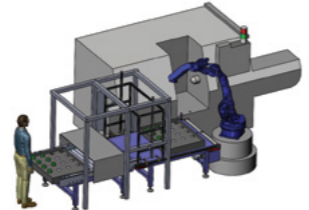


Programming Robot by Software  
Fast & Simple Part Changeover  
Allow to Utilize Various Parts  
Quick Recovering System

## 02 DON'T LOAD RAW MATERIAL TO MACHINE INSTEAD OF ROBOT



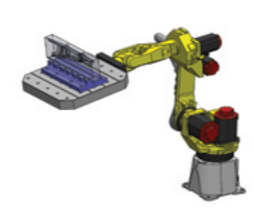
Stack Type Stoker for Raw Material.  
Possible to keep more raw material in smaller area  
Able to work long hours with unmanned machine.



Don't load raw material to machine instead of robot  
Necessary to use big conveyor for long working hours  
No any deduction for expenses of operator



## 07 COMMON SOFTWARE & PLATFORM FOR PART OR PALLET LOADING & UNLOADING



Pallet Loading & Unloading  
by Robot



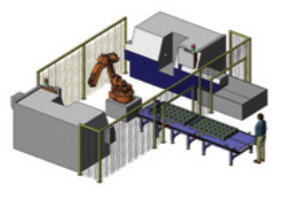
Part Loading & Loading  
by Robot



## 03 KEEP ALWAYS FRONT OF MACHINE OPEN - EASY PART CHANGEOVER & SETUP



Easy Part Changover  
Quick Setup & Offset Adjustment  
Ergonomic Design



No Free Place for Operator during part changover  
Difficult To Setup New Part or Offset Adjustment  
Non ergonomic Desing



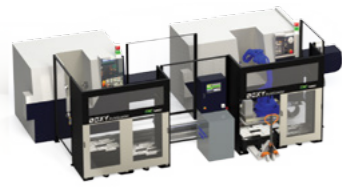
## 08 RELIABLE PRODUCTION / SPC CONTROL INTEGRATED TO SYSTEM



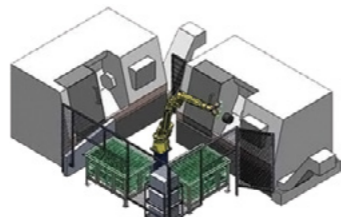
Integrated SPC Station



## 04 DESIGN SYSTEM WITH MAXIMUM FLEXIBILITY



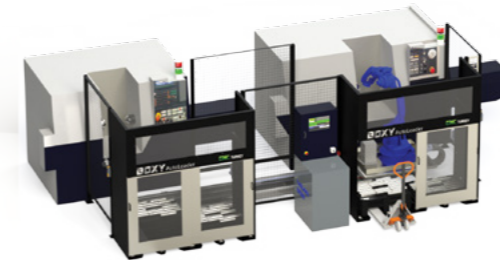
In case of one machine stop  
Other machine can keep working



In case of one machine stop  
All system will collapse



## 09 TAKE CARE ABOUT THE SAFETY OF YOUR EMPLOYEE



High Quality & Latest Technology Safety Equipments  
Ready system for International Safety Regulations  
Keep operators safe against accidents

## 05 DON'T TRY TO MAKE HOMEMADE IMPLEMENTATION



Compact Design



Non Ergonomic Design



## 10 TARGET RETURN OF INVESTMENT IS ONE YEAR



300 Days X 24 Hours X %90 Efficiency  
6500 Working Hours



290 Days X 22 Hours X %85 Efficiency  
5400 Working Hours



+ 1100 Hours More Working Hours  
+ Reduce Cost of Operator  
+ Increase Product Reliability  
+ Increase Productivity  
+ Reduce No of Scrap Part

**LONG YEARS  
EXPERIENCE BY**

**CNC**

**IN AUTOMATION  
& TOTAL TURNKEY  
SOLUTIONS**

**AUTOMOTIVE**

**AEROSPACE**

**DIE & MOLD**

**MEDICAL**

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