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

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 PROGRAMMING.

UNIQUE DESIGN OF SOFTBOXY ALLOWS TO CONTROL MACHINE & ROBOT AND PERIPHERIAL 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

Real Automation
STANDARD SPECIFICATION

- 7kg – 6th 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 Integration
  - Operator Free Door Design
  - Quick Set Up for New Part
  - Possible Manuel Usage & Adjustment
  - Easy Part Changeover by SoftBoxy
  - Small Footprint
- Optional Specification
  - 6th 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

User Friendly Interface
Easy Part Changeover
Quick Connection to ERP Systems

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

Long Hours Unmanned Work
Easily Loading & Unloading Part on Stocker

» UV stabilized resin
» Locking System
» RJ45 connector
» 12 Sec Loading & Unloading

EASY ACCESS TO MACHINE
» 1 Day Integration
» Minimum investment for machine preparation
» Applicable for any kind of CNC Controller

» 7kg – 6th Axis Industrial Robot
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» Optional Specification
  - 6th Drawer Stocker (600mm X 400mm X 80mm)
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  - SPC Station

DRAWER TYPE STOCKER

Plug Play

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

- **7kg – 6th Axis Industrial Robot**
- **Modular Design**
  - Possible to extend system in future
- **7th and 8th Axis Movement**
  - 7th Axis – Robot will run between machines - Linear
  - 8th Axis – Robot will run Up & Down directions
- **Boxy Type Part Stocker**
  - 600mm X 400mm 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**
  - 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
**SYSTEM CHARACTERISTIC**

- **SYSTEM CHARACTERISTIC**
- **35kg - 6th Axis Industrial Robot**
- **Modular Design**
  - Possible to extend system in future
- **7th Axis Movement**
  - 7th 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
  - Extention of System - Modular Structure
  - Double Action Gripper
  - Gripper Changer
  - Camera
  - Additional Boxy Unit - To use different parts in system
  - SPC Station

**EXCELLENT SOLUTION FOR HEAVY DUTY PARTS**

**REMAINING COMPETITIVE IN GLOBAL MARKET**

<table>
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<th>COMPANY WITHOUT AUTOMATION</th>
<th>COMPANY WITH AUTOMATION</th>
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<tr>
<td><strong>HIGHER PART COST</strong></td>
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<td>Constant Delivery</td>
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<tr>
<td>Quality Problems</td>
<td>Constant Quality</td>
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**COMPANY WITHOUT AUTOMATION**

- High Labor Cost
- Less Efficiency
- More Management Attention
- Delivery Problems
- Quality Problems

**COMPANY WITH AUTOMATION**

- Low Labor Cost
- 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

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

- Stack Type Stocker 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

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

- Easy Part Changeover
- Quick Setup & Offset Adjustment
- Ergonomic Design
- No Free Place for Operator during part changover
- Difficult To Setup New Part or Offset Adjustment
- Non ergonomic Design

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

05 DON'T TRY TO MAKE HOMEMADE IMPLEMENTATION

- Compact Design
- Non Ergonomic Design

06 ADVANCE MANAGEMENT SOFTWARE TO MANAGE ALL SYSTEM

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

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

- Part Loading & Unloading by Robot
- Pallet Loading & Unloading by Robot

08 RELIABLE PRODUCTION / SPC CONTROL INTEGRATED TO SYSTEM

- Integrated SPC Station

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

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