



# Products & Services

Design • Manufacture • Integrate

For over 20 years, INDUSTRIAL CONTROLS & AUTOMATION is your reliable and trusted partner providing innovative technology in robotics, vision, automation, and controls at the most competitive price. At ICA, our customers are not just a number, they are a business partner. ICA prides itself on long-term and lifetime relationships. When you want your automation requirements met, choose ICA for the best solution.

## A+ AUTOMATION

ICA is noted as among the most proficient and efficient machine automation provider in Indiana, throughout the Midwest and beyond. We design and build top-notch automation equipment that will meet and exceed our customers' expectations. ICA's team is always up to date on today's technology by regularly attending seminars and training sessions.

## ROBOTICS

ICA employs a staff that is experienced with a wide range of products from a variety of manufacturers. We are ready and able to meet your specific automation and control requirement needs.

Our expertise includes:

- Robotic Systems
- Vision Inspection
- Assembly Cells
- Automated Measurement
- Machine Tending
- Debur
- Turn-Key Solutions
- On-Site Robotic Training
- Overhead Gantry
- Integrated Vision Part Detection
- Laser Barcoding
- Ergonomic Improvements
- Pick & Place Systems
- Inspection Station
- Floor Gantry
- Palletizing

We have the skills to take your machine requirements to the next level - from design to implementation - in a timely and professional manner.

## DESIGN & BUILD

- Custom Machines
- Barcoding
- Updating & Retrofitting
- Pick & Place
- Material Handling
- Motion Control
- Leak Testing
- Inspection Stations
- Transfer Lines

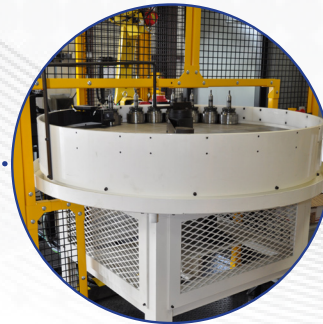
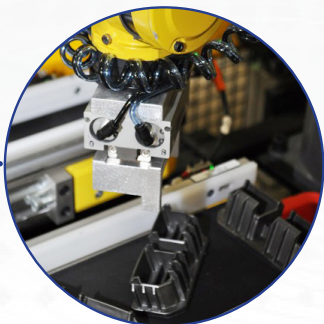
## SYSTEM INTEGRATION

- Vision Systems
- Robotics
- Traceability
- RFID Identification
- Bar Code Print/Scan
- Engineering

## HELPFUL TOOLS



Scan the QR Code to access helpful calculation tools, such as 1) cycle time calculator, 2) production quantity calculator, 3) project cost justification calculator, and 4) burden rate calculator.



FIND US ONLINE!



[www.ICAcontrol.com](http://www.ICAcontrol.com)

**AUTHORIZED INTEGRATORS OF:**

Cognex Vision • FANUC Robotics • Keyence Laser Markers

# Robot vs. Operator

The initial investment may seem costly, but a robot pays for itself quickly!



- Does Not Call in Sick
- Does Not Show Up Late
- No Drug Testing Needed
- Does Not Require Breaks
- No Maternity/Paternity Leave
- No Paid Vacation Days
- No Medical Insurance
- No Worker's Compensation
- Works in Hazardous Conditions
- Meets Cycle Time Every Time
- Works Any and All Shifts
- Produces More Accurate Work
- No Sexual Harassment Concerns
- No Paid Holidays Off
- No Risk in Performing Dangerous Tasks
- Works in Poor/No Lighting
- Works in Tight Spaces
- Lifts Heavy Objects Without Injury
- No Risk of Chemical Exposure
- No Government Issued Ankle Bracelets
- Consistent Throughput

- They Do Exactly What Taught To Do
- Never Has to Appear in Court
- Never Goes Through a Divorce
- Never Has Sick Kids
- Never Has a Doctor's Appointment
- Does Not Mind Working Weekends
- No FMLA
- Does Not Ask for a Raise/Promotion
- Can Do the Same Thing Everyday
- Does Not Complain about Favoritism
- Does Not Talk Back
- Does Not Get Mad
- No Workplace Violence
- Does Not Need Motivation
- Always Behaves Professionally
- No Discrimination Issues
- Never Retaliates
- No Wrongful Termination Concerns
- No Horseplay
- Works In Any Temperature
- No Unemployment Expenses

- No Long Term Disability
- Does Not Report You to OSHA
- Not on Cell Phone While Working
- No Lunch or Restroom Breaks
- No Uniform Expenses
- No Drama
- No Overtime Pay
- Does Not Use Printer for Personnel Use
- Does Not Take Selfies
- Is Not on Social Media
- Does Not Use Space Heaters
- Does Not Leave Food in the Refrigerator
- Does Not Play Fantasy Football
- Does Not Surf the Web
- Does Not Sell Drugs at Work
- Does Not Smell Like Alcohol
- Does Not Get Arrested at Work
- Does Not Steal from You
- No Last Minute Needs
- No Droopy Pants
- No Proprietary Concerns

Scan for  
Other Helpful  
Calculation Tools



## PRODUCTION TIME CALCULATOR

Cycle Time (sec)	1	2	4	6	8	10	12	16	20	24
2	1440	2880	5760	8640	11520	14400	17280	23040	28800	34560
4	720	1440	2880	4320	5760	7200	8640	11520	14400	17280
6	480	960	1920	2880	3840	4800	5760	7680	9600	11520
8	360	720	1440	2160	2880	3600	4320	5760	7200	8640
10	288	576	1152	1728	2304	2880	3456	4608	5760	6912
12	240	480	960	1440	1920	2400	2880	3840	4800	5760
14	205	411	822	1234	1645	2057	2468	3291	4114	4937
16	180	360	720	1080	1440	1800	2160	2880	3600	4320
18	160	320	640	960	1280	1600	1920	2560	3200	3840
20	144	288	576	864	1152	1440	1728	2304	2880	3456
22	130	261	523	785	1047	1309	1570	2094	2618	3141
24	120	240	480	720	960	1200	1440	1920	2400	2880
26	110	221	443	664	886	1107	1329	1772	2215	2658
28	102	205	411	617	822	1028	1234	1645	2057	2468
30	96	192	384	576	768	960	1152	1536	1920	2304
32	90	180	360	540	720	900	1080	1440	1800	2160
34	84	169	338	508	677	847	1016	1355	1694	2032
36	80	160	320	480	640	800	960	1280	1600	1920
38	75	151	303	454	606	757	909	1212	1515	1818
40	72	144	288	432	576	720	864	1152	1440	1728
42	68	137	274	411	548	685	822	1097	1371	1645
44	65	130	261	392	523	654	785	1047	1309	1570
46	62	125	250	375	500	626	751	1001	1252	1502
48	60	120	240	360	480	600	720	960	1200	1440
50	57	115	230	345	460	576	691	921	1152	1382
52	55	110	221	332	443	553	664	886	1107	1329
54	53	106	213	320	426	533	640	853	1066	1280
56	51	102	205	308	411	514	617	822	1028	1234
58	49	99	198	297	397	496	595	794	993	1191
60	48	96	192	288	384	480	576	768	960	1152