

A close-up photograph of a PythonX Autocal robotic welding system. The central component is a black rectangular unit with a blue light bar and a white label that reads "PYTHONX® AUTOCAL". Above the unit, a blue robotic arm is mounted, and a gold-colored welding torch is positioned at an angle. The background is dark, suggesting an industrial setting.

**PYTHONX®
AUTOCAL**

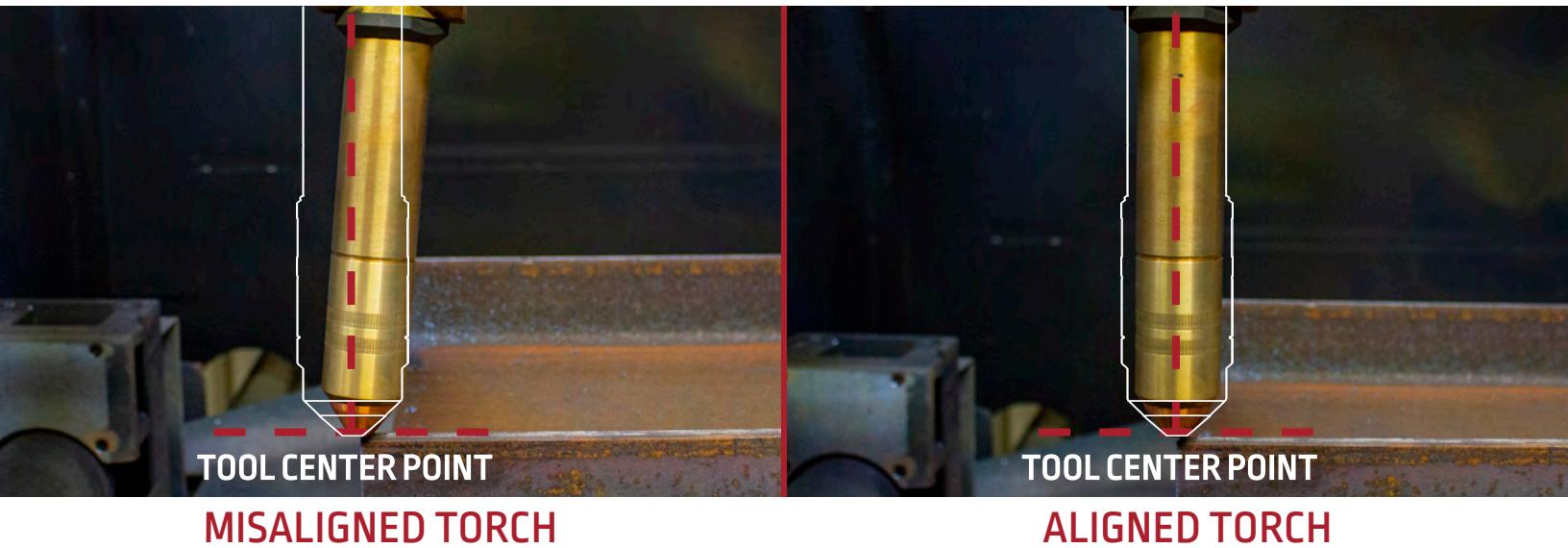
PYTHONX®
STRUCTURAL

LINCOLN®
ELECTRIC



PYTHONX AUTOCAL IS ON POINT

PythonX® AUTOCAL is an easy solution to resolve torch misalignment that can arise in real-world manufacturing. Collisions occur for various reasons, such as operator or drawing errors and material conditions; the result is torch misalignment. Your shop can lose gained efficiencies, and the momentum of production is compromised. Rework or improper fit-up is the unfortunate result. To speed up the realignment and calibration process, we've developed PythonX AUTOCAL. After easy installation of PythonX AUTOCAL on your PythonX STRUCTURAL, when misalignment occurs, the operator can press a button on the HMI. The robot will immediately begin a program to recalibrate. Your PythonX STRUCTURAL is automatically recalibrated and restored to produce the best cut quality in just a few minutes.



FEATURES

- Automatic calibration of the TCP (Tool Center Point) using non-contact laser
- Fixes 3D location of TCP in X, Y, Z axes
- Fixes torch tilt to be perpendicular to the material

BENEFITS

- Accurate cuts
- Prevention of defective parts
- Less scrap
- Less rework
- Less system downtime
- Better fit during assembly and erection

MISALIGNED TORCH = POOR CUT QUALITY



WHAT'S INCLUDED

PythonX AUTOCAL comes unassembled and can be easily installed on a PythonX STRUCTURAL** with our step-by-step installation guide with accompanying videos, tools, and fasteners. Remote support during the installation is also included.

Description	Quantity
PythonX AutoCal Unit	1
Bottom Cover	1
Locator	1
16' Tape Measure	1
Soapstone	1
M5-0.8 x 12mm Socket Cap Screws	6
M6-1.0 x 20mm Socket Cap Screws	8
M6 Spring Washers	8
Metric Allen Key Set	1
Imperial Allen Key Set	1
Center Locating Punch	1
Ball Peen Hammer	1
5mm Black Oxide Drill Bit	1
5mm Drill Bit Stop Collar	1
M6 Tap	1
T-Handle Tap Wrench	1
1/4" Tube X 3/8 NPT Fitting	1
11/16" Wrench	1
Anti Spatter Air Tubing	1
Tube Cutter	1
Push Ti Cibbect - Tee Connector	1
Fish Tape	1

Description	Quantity
Electrical Tape	1
Screw Mount Black	12
Cable Ties	12
1/4"-20 X 1" Slotted Square Machine Screw	12
#3 Square Drive Screwdriver	1
13/64" Black Oxide Drill Bit	1
1/4" Tap	1
Lincoln Electric Safety Glasses	2
#2 Square Drive Screw Driver	1
1/8" Slot Screw Driver	1

*PythonX AUTOCAL is currently available only for the second generation PythonX STRUCTURAL.

** A general understanding of the PythonX STRUCTURAL user manual and equipment operation is ideal for the installation of the AutoCal unit.



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STRUCTURAL

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