Miller®

Delivers Visibility To Improve Welding Productivity

Insight Core™

Knowledge Is Power

WHAT IF YOU COULD:

☑ **Identify productive welders and those who need more training?**

☑ **Understand what impacts welding productivity?**

Insight Core™

Reports welding productivity from a web-based application to measure and improve your operation.

☑ **Measure welding productivity.**
See each welder's arc-on time to set baselines, plan improvements and measure goals.

☑ **Easily install and use.**
Just connect it to the internet. View secure data on any web-connected device anywhere.

☑ **View easy-to-understand reports.**
Dashboards show trends and generate reports. Compare welders, cells and plants.

☑ **Identify welding costs.**
Make improvements to reduce expenses.

KNOW YOUR ARC-ON TIME AND DEVELOP OPPORTUNITIES TO IMPROVE

Pinpoint problem areas and understand training needs.

See how much of your operation's arc-on time is within expected threshold ranges, analyzing both machines and welders. Problems with machines can be resolved, top-performing welders can be rewarded and lesser-performing welders can receive additional training.

● Arc Off – 83.73%
● Arc On – 16.27%

● Within Limits – 83902
● Outside Limits – 16083
● Not Measurable – 0 Welds

Top Producers		
	Device	*Arc On %*
1	Base Deck 1	48.66
2	Base Deck 2	48.66
3	Wheels	40.53
4	Axle Shafts	38.78
5	Cross Member	33.78

Top Performers		
	Device	*Within Limits*	*Outside Limits*
1	Base Deck 1	15	0
2	Repair Station 1	2564	95
3	Axle Housings	9803	441
4	Rework Finishing	464	22
5	Tack and Fit Station D	15083	924

Bottom Producers		
	Device	*Arc On %*
1	Operator Cab	9.87
2	Tack and Fit Station E	9.23
3	Repair Station 1	7.1
4	Repair Station 2	6.8
5	Rework Finishing	3.0

Bottom Performers		
	Device	*Within Limits*	*Outside Limits*
1	Boom Arm	2723	1201
2	Tack and Fit Station A	1795	941
3	Hydraulic Mounts	2940	1610
4	Shovel and Claw	1937	1393
5	Base Deck 2	0	15

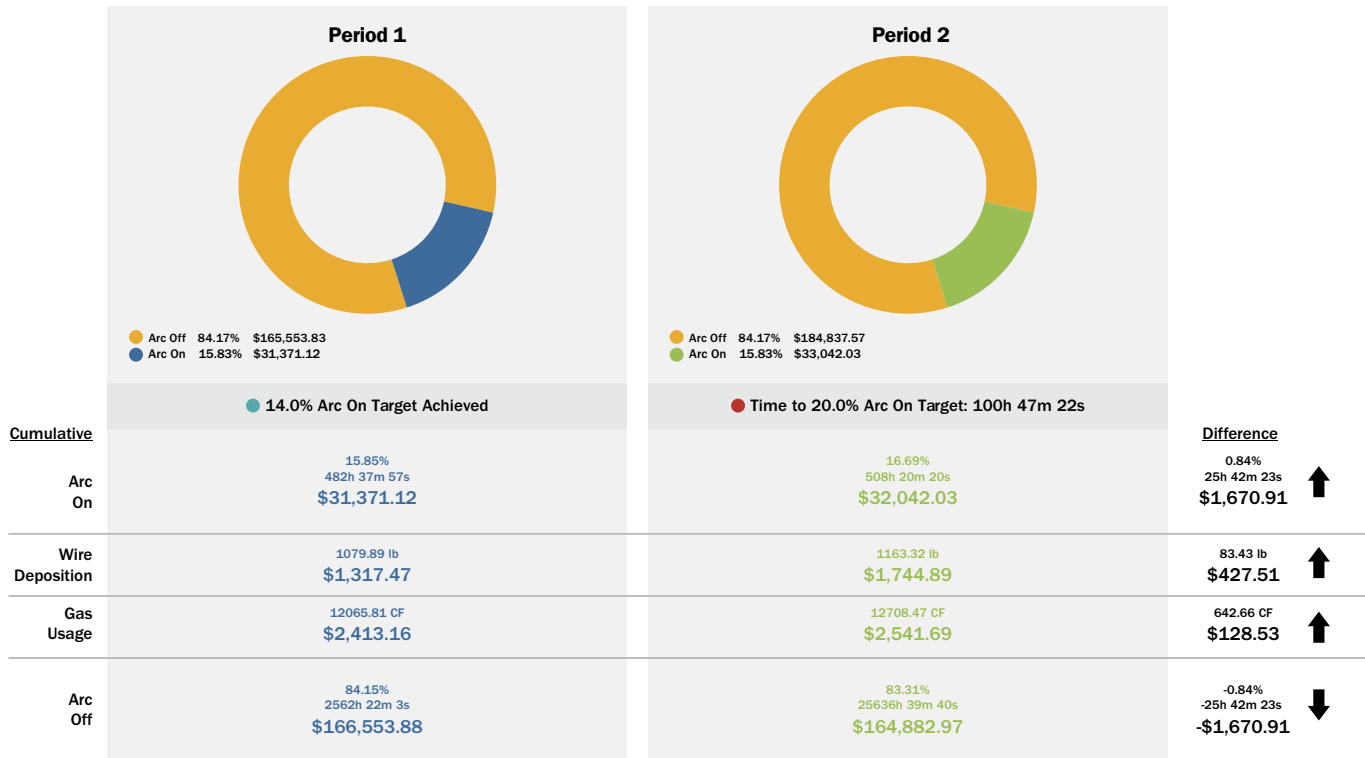# VIEW EASY-TO-UNDERSTAND DASHBOARDS AND REPORTS

Quickly and easily compare and analyze productivity by machine, welder and shift to find inconsistencies.

UNDERSTAND YOUR TRUE WELDING COSTS

What if you could see that a 10% arc-on time cost you $20,000 — but the remaining arc-off time cost you $180,000? Insight Core's Data to Dollars analysis can help you control business costs and the nonwelding-related activities that cause downtime.

DATA TO DOLLARS

Period 1

Arc Off   84.17% $165,553.83
Arc On   15.83% $31,371.12

● 14.0% Arc On Target Achieved

Period 2

Arc Off   84.17% $184,837.57
Arc On   15.83% $33,042.03

● Time to 20.0% Arc On Target: 100h 47m 22s

Cumulative	Period 1	Period 2	Difference
Arc On	15.85% 482h 37m 57s **$31,371.12**	16.69% 508h 20m 20s **$32,042.03**	0.84% 25h 42m 23s **$1,670.91** ⬆
Wire Deposition	1079.89 lb **$1,317.47**	1163.32 lb **$1,744.89**	83.43 lb **$427.51** ⬆
Gas Usage	12065.81 CF **$2,413.16**	12708.47 CF **$2,541.69**	642.66 CF **$128.53** ⬆
Arc Off	84.15% 2562h 22m 3s **$166,553.88**	83.31% 25636h 39m 40s **$164,882.97**	-0.84% -25h 42m 23s **-$1,670.91** ⬇

The cost of non-welding time has decreased by $1,670.91.

Trace displays weld parameter verification.

Gain deeper insights into each weld collected by viewing welding trace and process data.
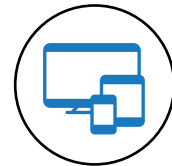
HOW IT WORKS

Of all weld data systems in the market, Insight Core is the
easiest to install and has the greatest compatibility!

Internet connection
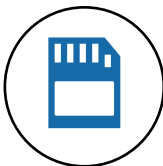
OR

OR

Any device with internet browser
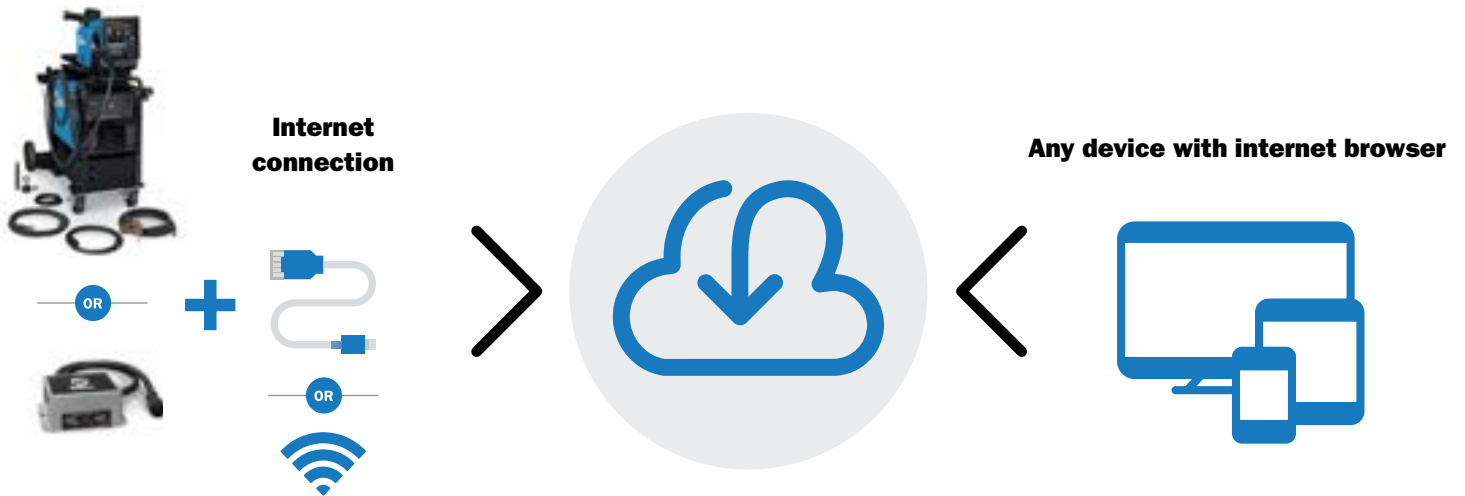
Uses standard web browsers; no software or applications to install or maintain

USB setup support for quick installation, easy data transfer and fast firmware updates

Secure data viewable on any web-enabled device utilizing user authentication

Onboard memory when internet connections go down

No mandatory subscription fees

Operator ID feature enables all reporting to be tracked by welder

OPTIONS FOR ANY WELD SHOP

Whether your equipment fleet is old or new, consists of Miller® machines or has mixed brands, there's an Insight Core solution that can work for you.

INSIGHT CORE™ CAPABILITIES

			Power Source Operation Status	Volts	Amps	Arc-On Time	Arc-On %	Quality Threshold Evaluation	Goal Setting	Wire-Feed Speed (in/min, m/min)	Deposition (lb, kg)	Deposition Rate (lb/hr, kg/hr)	Power Source Error Indication
14-Pin Insight Core Module Required	MIG	**Deltaweld®** 302/452/652 **Deltaweld® CE** 402/602/852											
		Invision™ MPa 350/352/450 **Invision™** 354MP/456MP/456P	Standard Features on **ALL** Insight Core™ Products							Additional Features When Using MPa Feeder			
		AlumaPower™ MPa 350/450											
	MULTI-PROCESS	**Dimension™** 302/452/650/652/1000 **Dimension™ NT** 450/500/450 ArcReach® **Dimension™ CE** 562/812											
		XMT® CC/CV 304/350/425/450/456 **XMT® MPa** 350/450 *Note: Not compatible with XMT VS models*											
	STICK	**Gold Star®** 302/452/652 **Gold Star® CE** 402/602/852											
	SUBMERGED ARC	**SubArc DC** 650/800/1000/1250 Digital[1] **SubArc AC/DC Digital**[1] 1000/1250 **SubArc DC**[2] 650/800/1000/1250 **SubArc AC/DC**[2] 1000/1250 **Summit Arc™**[2] 1000/1250											
Integrated in Power Source	ADVANCED PROCESS	**Deltaweld®** 350/500[3]								•	•	•	•
		Continuum™ 350/500								•	•	•	•
		Auto-Continuum™ 350/500								•	•	•	•

[1] The SubArc Digital Series requires Insight Core to SubArc Digital Series Adapter Kit **301295** to operate on Insight Core system with a SubArc Interface Digital or Analog Control (BLACK case).
[2] The SubArc Series requires a 115 VAC to Legacy 14-Pin Accessories Adapter Cord **301259** to operate on Insight Core system with HDC Automatic Weld Control (BLUE case). Non-SubArc 115 VAC wire feeders are not compatible with the 14-Pin Core Module. The SubArc Series is able to run Insight Core by using 115 VAC to Legacy 14-Pin Accessories Adapter Cord **301259**. Please contact your Miller sales representative if you have questions or need assistance in selecting the proper adapter for your Submerged Arc power source.
[3] When using a 14-pin wire feeder with the Deltaweld 350 or 500, wire feed speed, deposition and deposition rate are not available.

Contact us today.

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MillerWelds.com/insight

Miller®

The Power of Blue®

Ensure Consistent Weld Quality

Insight Centerpoint™

Knowledge Is Power

YOUR CHALLENGES

Attracting and Retaining Skilled Welders

Finding and Fixing Missed and Bad Welds

Satisfying Customer Demands

YOUR RESPONSES

Attract and Hire More Welders

Provide More Training

Conduct More Inspections

Discount Your Prices More

WHAT IF YOU COULD:

Guide welders step by step through the entire fabrication process?

Understand what impacts weld quality?

Insight Centerpoint™

The real-time welder feedback solution that provides guidance and control within the weld cell.

☑ **Reduce training time.**
Guide welders through the weld sequence in real time.

☑ **Ensure quality welds.**
Contain weld defects early and control your weld operation by monitoring every parameter of every weld.

☑ **Reduce costs.**
Alert welders if a weld is missed or is outside of acceptable parameters, allowing it to be corrected cost-effectively.

STOP LOSING MONEY DUE TO MISSED OR DEFECTIVE WELDS!

The cost of missed or defective welds can be staggering if they result in a field failure or liability claim. Mistakes are going to happen. The earlier in the manufacturing process they can be detected, the less they cost to fix.

WELD CELL	LATER WELD CELL	PAINT	ASSEMBLY	FIELD	LIABILITY CLAIM

MANUFACTURING STAGE

COST
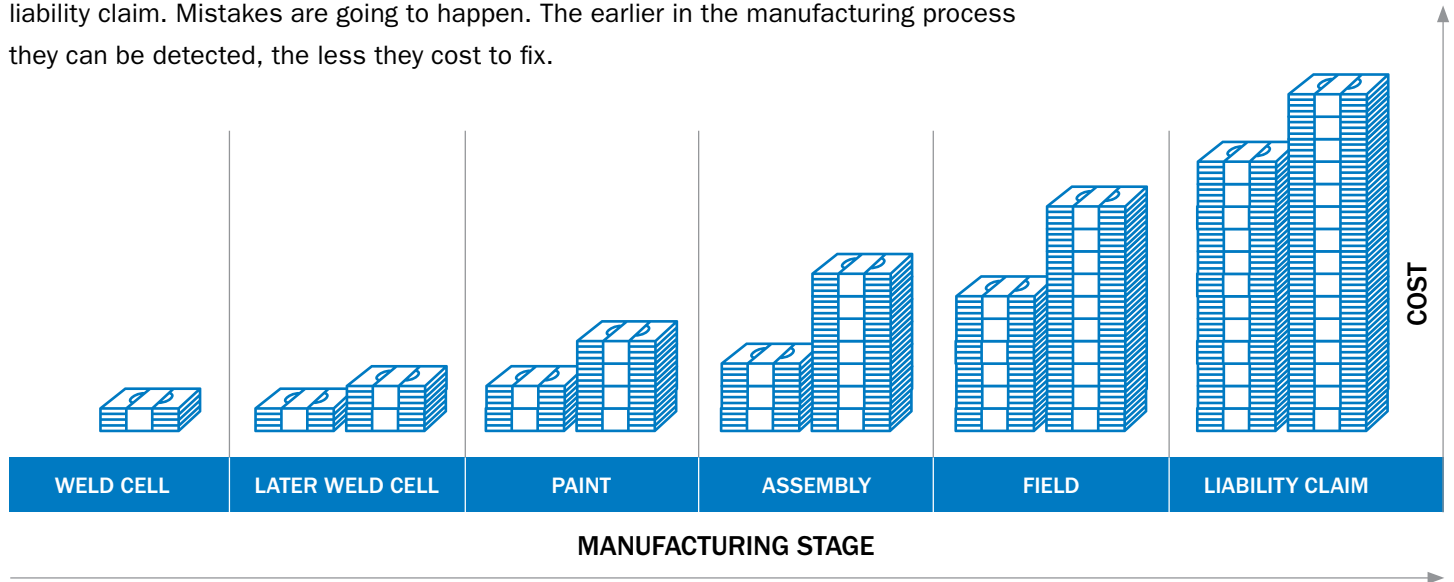
WORKFLOW™: GIVE WELDERS CLEAR, COMPLETE GUIDANCE IN FABRICATING.

Gain additional control of your fabrication process with documentation and instructional aids for pre-welding, intra-weld and post-welding activities through embedded videos, images, audio and other file types.

Insight Centerpoint™ provides:

☑ **Safety warnings**

☑ **Reminders**

☑ **Fixture loading directions**

☑ **Part packing instructions**

☑ **Company announcements**

SAFETY VIDEO

PART TRACKING™: GIVE WELDERS COMPLETE CONTROL, FROM THE FIRST WELD TO THE LAST.

Guide welders through the weld sequence in real time using visualizations of the part.
Contain missing and incomplete welds while supporting manual welding best practices.

Identifies acceptable or non-conforming welds

Indicates the current activity status

Tracks all results by welder

Shows a preview of operational steps

Moving target guides the welder through proper welding sequence

Allows selection and tracking of non-welding activities

INTEGRATED REPORTS: GET IMMEDIATE ACCESS TO EXTENSIVE INFORMATION.

Review a wide range of information — including preconfigured management charts and reports about weld processes, productivity and business metrics. This information is stored in an SQL server database, which contains welding data from multiple Insight Centerpoint sources.

Part analysis reports

- Part summary
- Parts produced
- Part faults per time
- Faults on a single part
- Weld counts per part
- Parts with missing welds

Productivity reports

- Arc efficiency
- Parts per hour
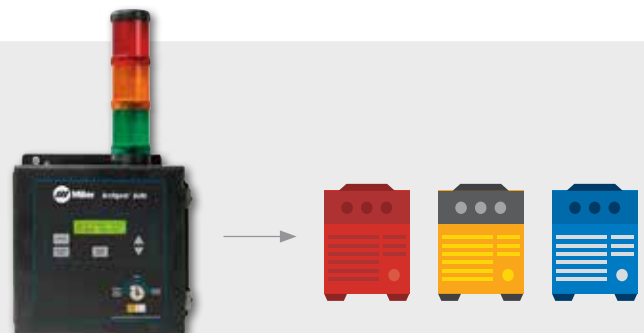- Welds per hour
- Downtime analysis
- Cycle time

Cost analysis reports

- Cost per weld
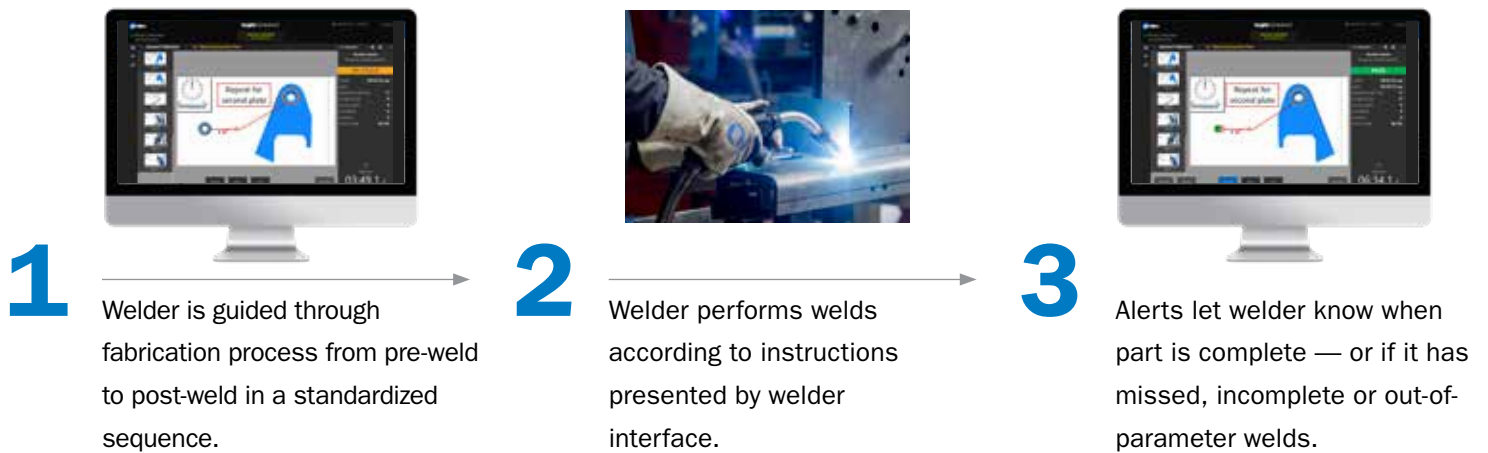- Cost per part
- Wire usage
- Gas usage

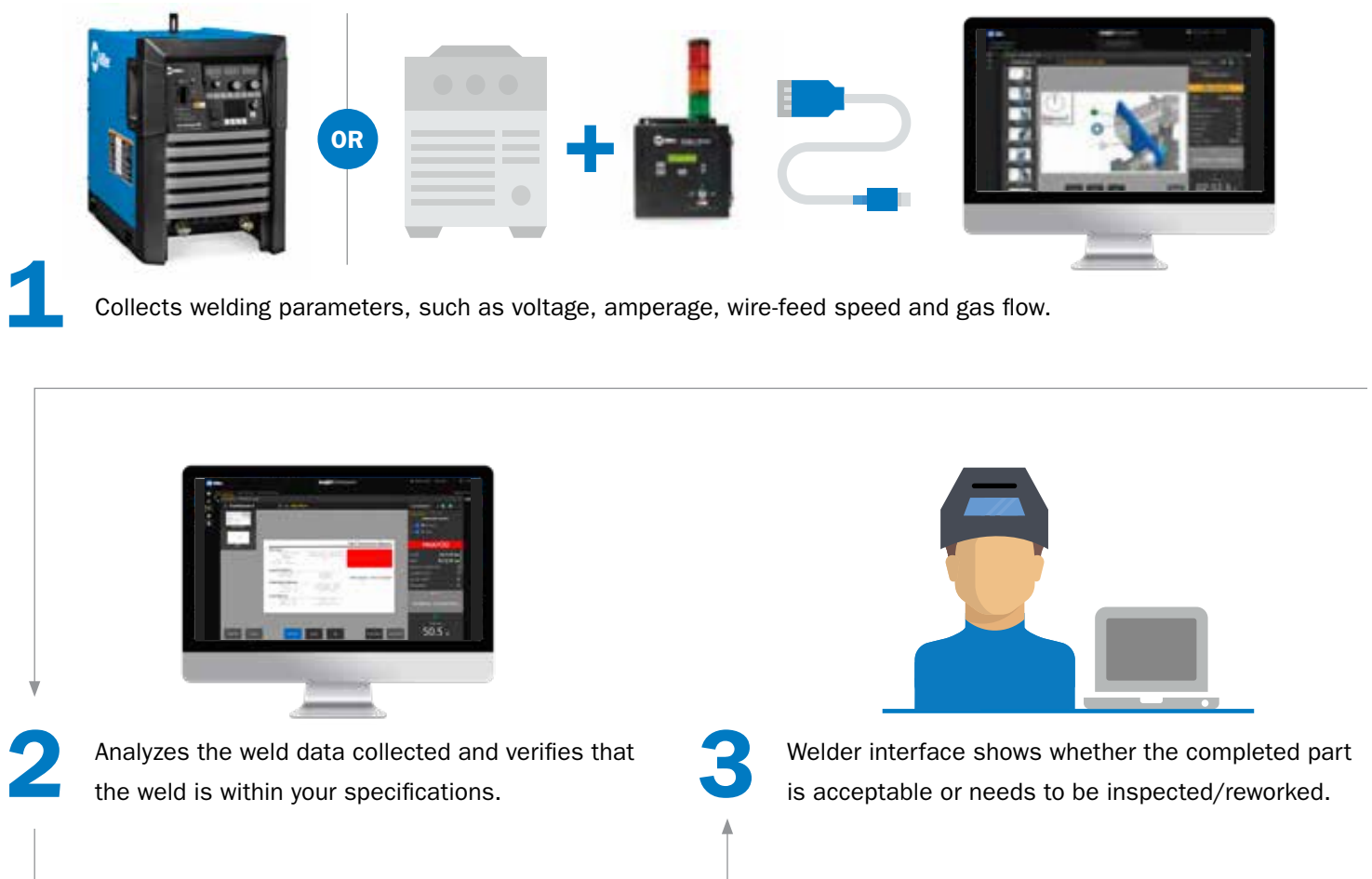# UNIVERSAL BRAND CAPABILITY

With an ArcAgent™ module, you can have the power of Insight Centerpoint on any machine from any manufacturer, giving you a complete picture of your facility.

HOW IT WORKS — MANUAL WELDING

1 Welder is guided through fabrication process from pre-weld to post-weld in a standardized sequence.

2 Welder performs welds according to instructions presented by welder interface.

3 Alerts let welder know when part is complete — or if it has missed, incomplete or out-of-parameter welds.

HOW IT WORKS — FIXED OR FLEXIBLE AUTOMATED WELDING

OR　**+**

1 Collects welding parameters, such as voltage, amperage, wire-feed speed and gas flow.

2 Analyzes the weld data collected and verifies that the weld is within your specifications.

3 Welder interface shows whether the completed part is acceptable or needs to be inspected/reworked.

Contact us today.

insight@millerwelds.com