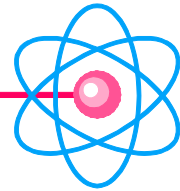


ADVANCED GAUGING

TECHNOLOGIES, L.L.C.

● **QUALITY INDUSTRIAL INSTRUMENTATION**



AGT400

**ISOTOPE
THICKNESS GAUGE AND
STATISTICAL PROCESS CONTROL
REPORTING SYSTEM**

8430 Estates Court Plain City OH 43064-8015 USA
Telephone: (614) 873-6691 Fax: (614) 873-6770
E-mail: Sales@AdvGauging.com Website: AdvGauging.com

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Testimonials

Concord Steel Center Ltd.

"Advanced Gauging Technologies (A.G.T. as we refer to them) is an outstanding supplier to our organization. They are an integral part of the management of our nuclear gauges. A.G.T. is a very special company for a number of reasons, namely they give us a worry free solution to our nuclear gauging requirements. They have an extremely knowledgeable staff who are both courteous and helpful. The gauges they produce are extremely reliable and consistent. If we have an issue, whether it is with another manufactures equipment (bought before we knew about A.G.T.), or with their own gauge, you can rest assured that they will go above and beyond to try and help us get the gauge up and running in no time, often troubleshooting over the telephone!!! I would recommend them to everyone having a need for gauging products or gauging service. We are an extremely satisfied customer, although we truly feel more like friends."

Marco A. Bellisario - Vice President/General Manager

Feralloy Corporation - Charleston Division

"I have been an Advanced Gauging Technologies customer since the mid 1980's, and whether it was the semi-annual inspections, service assistance, or the purchase and installation of an AGT400, the interactions with A.G.T. have always been nothing short of professional. The technicians are not only highly trained, but field experienced. Customer service and corresponding documentation has always exceeded expectations. Add to this the component of dealing with individuals that are simply good people who proudly represent their company, and A.G.T. remains not only my preferred vendor, but my only vendor when it comes to gauge monitoring requirements."

Mark White - Operations Manager

Magic Steel Sales, L.L.C.

"Advanced Gauging has upgraded all three of our obsolete Gamma GR100 Thickness Gauges. The AGT400 thickness gauges are exceptionally stable compared to our old gauges, and their software allows us to automatically download all of the necessary coil data after each coil run. Their support team has always been professional, responsive, and well equipped to handle any service or repair needed."

Michael Welch - Vice President of Operations

Samuel, Son & Company Ltd.

"We purchased our first AGT400 thickness gauging unit in 1999 and since then we have purchased an additional 3 units for our other processing equipment. Advanced Gauging's product has proven to be reliable, easy to use, and has continually delivered accurate results. In addition, the staff at A.G.T. have been knowledgeable and have provided us with uncompromising service throughout the years."

Luis Ponte - Operations Manager

Nova Steel Inc.

"Over the past 20 years, the AGT experience has been a very positive and beneficial one for us, from the first gauge we purchased; to our most current order. Their professionalism has never wavered, even through challenging periods in our industry, and has been driven by their uncompromising commitment to excellence. The AGT team has proven to be a truly progressive organization that has always managed to provide innovative products; superior service; and exceptional value. We look forward to another 20 years!"

Vince Gallo - General Manager

AGT400 FEATURES & BENEFITS

The AGT400 Thickness Measurement & S.P.C. Reporting System is designed specifically for the metals industry. It provides fast and reliable thickness measurements, S.P.C. reporting and data storage for strip and sheet material, using the latest in computer technology.

Direct benefits realized through these measurements include documented compliance with ISO9002, QS9000, and other quality specifications as well as improved process control, increased productivity, and scrap reduction. It provides a graphic representation of strip thickness over the coil length and indicates location of out-of-tolerance material. It also provides detailed information of thickness distribution, footage, weight, and average thickness.

-
- **Safe, Accurate, Affordable**
(Engineered to safely measure material thickness in harsh industrial environment; State-of-the-Art electronics; Excellent Return on Investment)
 - **Automatic SPC Reporting, Data Storage & Offline Data Analysis**
(Data can be stored on network server for easy recall of reports)
 - **Never Obsolete, Easily Upgradeable To Latest Operating System**
(Versus costly, complete electronics replacement)
 - **ISOcheck™ & ISOcal™ For Quick & Easy Calibration & Verification**
(ISOcheck™ allows the gauge to check its own calibration and power supply voltages)
(ISOcal™ automatically adjusts calibration using internal samples)
 - **Unequaled Quality, Support & Service (Best In The Business)**
(Unlimited no charge support via phone, email, fax and the internet)
 - **User Friendly**
(State-of-the-art user interface makes it easy for operators to access information and to navigate between screens)
 - **Semi-Annual Service Visits With Leak Tests And Calibrations Managed For You**
(A.G.T. maintains a listing of when inspections are due and will call ahead of time to schedule)

As Seen In Modern Metals

CONTINUOUS ONLINE THICKNESS GAUGING

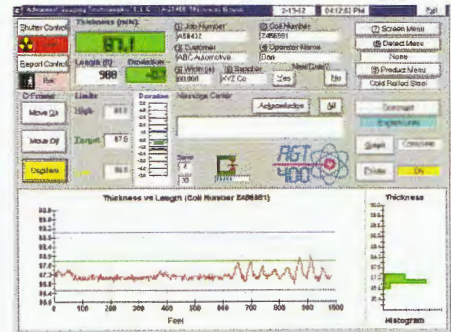
The AGT400 Thickness Measurement and SPC Reporting System is a safe, accurate, and affordable metal thickness gauge backed by unequalled quality, support, and service. Improve your process control, increase productivity, and reduce scrap.

AGT400 Features:

- ⊗ Automatic SPC (Statistical Process Control) reporting, data storage and Offline Data Analysis
- ⊗ Documented compliance with ISO and QS requirements
- ⊗ ISOcheck™ and ISOcal™ for quick and easy calibration and verification
- ⊗ Automatic Data Entry via network interface.
- ⊗ User-friendly on-screen troubleshooting diagnostics.
- ⊗ World-class service for over 400 gauges in North America

Best Service in the Business!

Advanced Gauging Technologies is licensed to perform leak test services on all brands of isotope thickness gauges. We also service and even repair or upgrade obsolete gauge brands such as Gamma, Loral, DMC, BSK, ESC, and Weston.



Service Features:

- ⊗ Unlimited support via phone, email, fax, remote control for current customers
- ⊗ Returned phone calls within one business hour, emails within one business day
- ⊗ Pro-rated travel costs when scheduled with other customers in your geographical area
- ⊗ Semi-annual visits with leak test and calibration dates managed for you
- ⊗ Large inventory of obsolete and hard to find items for out of date gauges
- ⊗ Online store for easy purchase of gauge parts



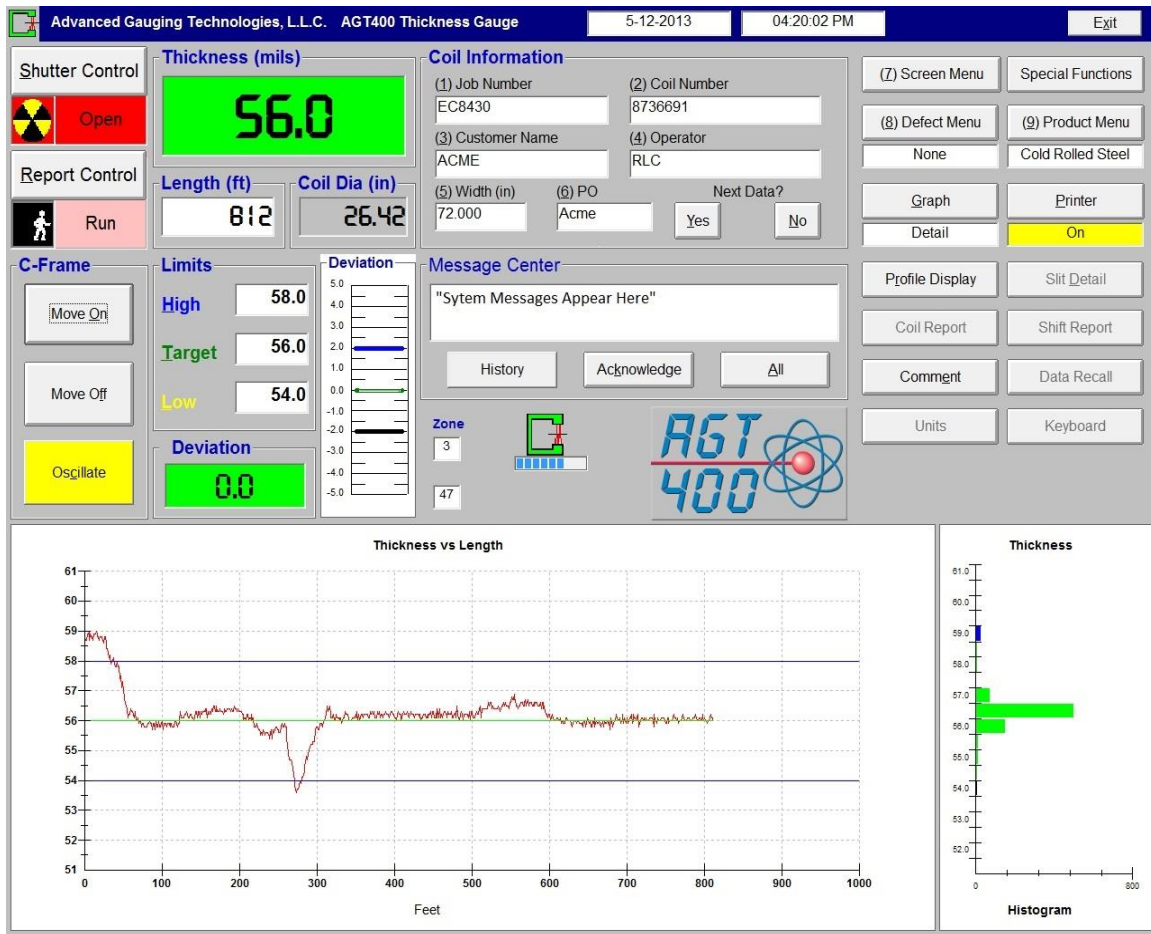
ADVANCED GAUGING
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8430 Estates Court • Plain City, OH 43064-8015 • p: (614) 873-6691
f: (614) 873-6770 e: Sales@AdvGauging.com • www.AdvGauging.com

AGT400 Isotope Thickness Measurement and S.P.C. Reporting System

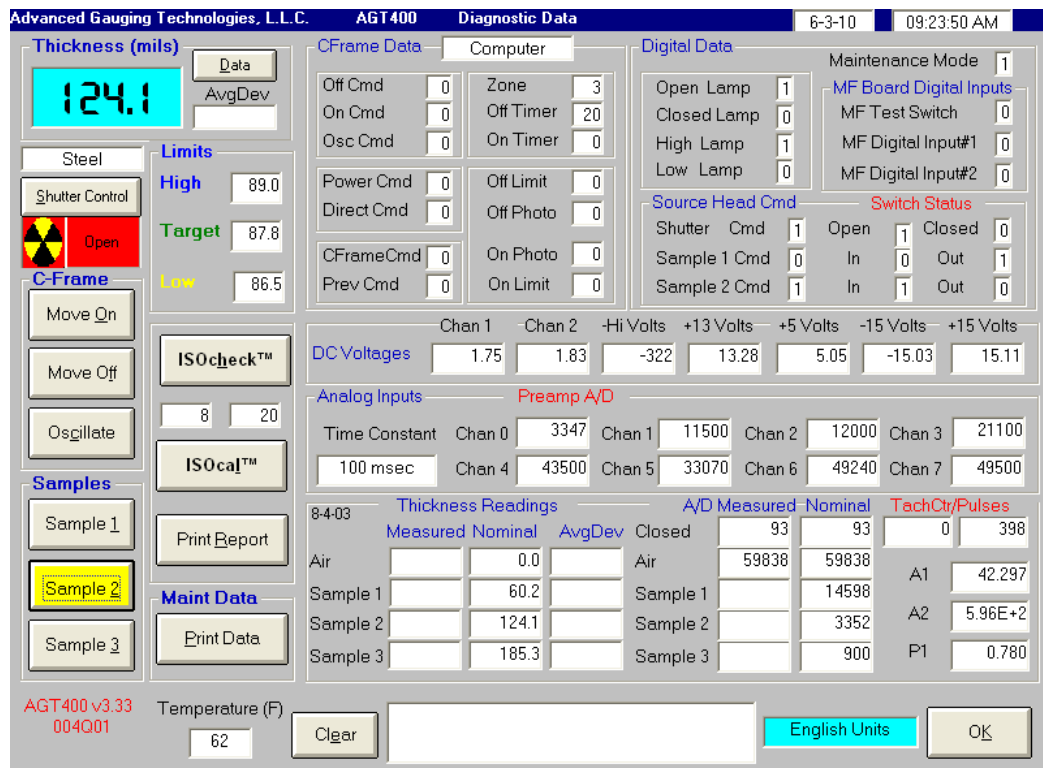
Principle of Operation -----

The AGT400 Non-Contact Thickness Gauge operates according to the scientific principle that a low power radiation beam is absorbed by matter at a rate varying with its composition and thickness. As the material passes between the radiation source and detector, thickness variations cause measurable changes in the amount of radiation reaching the detector head. The system is calibrated based on these variations, allowing it to provide continuous, high speed, non-contact, accurate and reliable thickness measurements.



Features -----

1. **Easy Installation** – no requirement for air or water. C-frames typically mount on two pedestals.
2. **Accuracy** – state-of-the-art high-speed electronics and logarithmic linearization assure highly accurate readings of various materials while minimizing the hardware requirements. This translates to consistent and stable thickness measurements.
3. **Reliability** – simplified hardware configuration increases the reliability of this gauge. The measurement system utilizes the latest in technology reducing the requirement for peripheral hardware. The system configuration provides a very reliable platform for thickness measurement and S.P.C. reporting.
4. **Automatic Calibration** – our system features a fast and accurate calibration cycle, called ISOcal™. Alloy specific calibration curves, coupled with our AutoComp feature, permit extremely accurate measurements of a wide variety of material compositions and coatings.
5. **Automatic Reporting** – the system automatically generates several reports providing all the information you need in user-friendly formats.
6. **Data Storage** – all coil data is automatically stored to disk. Any desired information can be easily and conveniently accessed at any point in the future, and the respective reports reprinted with relative ease.
7. **Diagnostics** – all digital inputs and outputs, analog inputs, and power supplies can be monitored simultaneously in real-time on a single screen. This feature provides for a means of greatly simplified troubleshooting.
8. **Upgradeability** – our unique system design enables future upgrades to be performed in the field, in a matter of minutes.

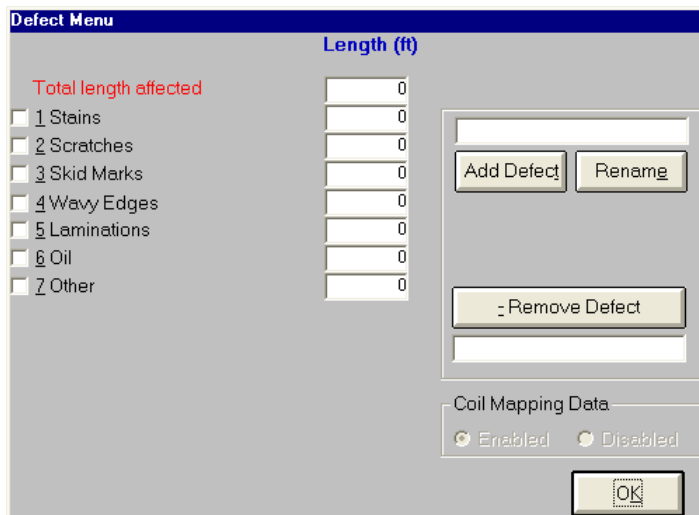


S.P.C. Reports -----

1. **Coil Report** – presents a graphic representation of strip thickness over the coil length, in strip chart fashion, and indicates location of out of tolerance material. In addition, this report presents a histogram of thickness distribution, footage, weight, average thickness, UCL, LCL, UTL, LTL, X Double Bar, R Bar, Cp, Cpk, and CR. This entire report is automatically scaled to fit on a single page, allowing for much neater record-keeping.
2. **Defect Summary Report** – presents a useable summary of each defect type along with its respective location in the coil.
3. **Shift Summary Report** – presents a period summary of production, available automatically at regularly scheduled times, or on demand.
4. **ISOcheck™ Report** – a single button can be clicked causing the gauge to check its own calibration (based on internal samples) and power supply voltages. Clicking a second button sends this report to the system printer, allowing for regular system performance checks, and the related documentation to keep you in compliance with quality requirements.
5. **Diagnostic Data Report** – this report is actually a printout of the Diagnostic Data screen. It shows the real-time statue of all digital and analog I/O, nominal and actual internal sample readings, pre-amp and power supply voltages, and much more. Most of the major test points in the system are displayed simultaneously making troubleshooting a very straightforward process. This page can easily be printed and faxed to Advanced Gauging Technologies for troubleshooting assistance.
6. **System Setup Report** – this report shows all setup parameters for a specific gauging system listed on a single page.

System Display -----

During normal operation, an interactive display shows real-time graphical representations of measured thickness, deviation, and a histogram of thickness values for the current coil. Also displayed are thickness, target, upper and lower tolerance limits, job number, coil number, shutter status, coil footage, coil width, defects if selected, product, and much more. Additional display screens are provided for next coil data, strip profile (thickness versus width), product setup, defect setup, report setup, calibration, diagnostics, message review, and data recall.



The Defect Menu pops up on the AGT400 Main Screen making it easy for operators to toggle any defects they may want to track.

Options -----

1. **C-frames** – available in manual configuration, where the operator manually positions C-frame on sheet. Optional electric drive motor allows the operator to position the C-frame from the operator's station. Optional oscillating configuration equipped with additional logic and control circuits enable the gauge to automatically sense strip width and scan from one edge to the other. In this configuration, the Profile Display Screen and Reports are enabled which actually show a strip cross-section of thickness versus width.
2. **Coil Mapping** – allows inspectors a convenient method of logging strip defects as they are spotted. Available in single or dual handheld keypad configurations, for one or two-sided inspection lines.
3. **Video Monitors** – standard system includes a 17" LCD flat screen. Optional monitors include a 17" remote flat screen unit and a touchscreen.
4. **Remote Operator Control Station** – includes an additional remote monitor, keyboard, and touchpad mouse.
5. **Remote System Printer** – to replace the standard system local printer.
6. **N.I.S.T. Traceable Samples** – external calibration sample plates which have their thicknesses certified as traceable to N.I.S.T.

Conversion/Upgrade of Existing Measuring Equipment -----

If you have an existing measuring system that is outdated and/or difficult to service and support, you may want to consider an A.G.T. system upgrade which can provide all the features of the AGT400 Thickness Gauge.

Technical Specifications -----

Thickness Range	.007" - .250" steel, .088" - .400" aluminum, .005" - .165" copper, brass, nickel, .019" - .400" titanium
Air Gap	2" - 8" (7" nominal)
Response Time	10 - 1,000 milliseconds (250 nominal)
Calibration Accuracy	± 0.20% or ± 0.0005" (whichever is greater) over .007" - .250" (steel)
Radiation Source	AM241 - 1 Curie
Radiation Detector	Ionization Chamber - 3" diameter (4" optional)
Central Processing Unit	Intel Core Duo 4300 or equivalent
Software	Visual Basic operating in Windows® 7 Professional

	AGT400-SPC Isotope Thickness Gauge	AGT600-RM Laser Thickness Gauge	AGT800-SPC Laser Thickness Gauge
Material Thickness	0.2 to 6.4 mm. steel (.007 to .250" steel)	25 µm. to 6.4 mm. (.001 to .250")	25 µm. to 19 mm. (.001 to .750")
Material Width	10 to 244 cm. (4 to 96")	2.5 to 91 cm. (1 to 36")	10 to 244 cm. (4 to 96")
Air Gap	51 to 305 mm. (2.0 to 12.0")	51 mm. (2.0")	292 mm. (11.5")
Measurement Range	+/- 51 mm. (+/- 2.00")	+/- 7 mm. (+/- 0.28")	+/- 25 mm. (+/- 1.00")
Sampling Cycle	1 ms. to 1 second (adjustable)	50 µs. to 1 ms. (adjustable)	50 µs. to 1 ms. (adjustable)
Calibration Accuracy	+/- 0.2% or 12.5 µm., whichever is > (+/- 0.2% or 0.50 mil, whichever is >)	< 3.3 µm. (0.13 mil)	< 10 µm. (0.39 mil)
Energy Source	Am241 - 37 GBq (Am241 - 1 Curie)	Red semi-conductor laser	Red semi-conductor laser
Energy Level/Wavelength	59.5 keV gamma	650 nm. laser	650 nm. laser
IEC/IFDA (CDRH) Laser Class	N/A	Class 2/Class II	Class 2/Class II
Spot Diameter (at reference distance)	~ 51 mm. (~2")	50 µm. x 2,000 µm.	120 µm. x 4,200 µm.
Ambient Light Resistance	N/A	10,000 lux maximum (incandescent or fluorescent)	5,000 lux maximum (incandescent or fluorescent)
Temperature Range	0 to 50° C (32 to 122° F)	0 to 50° C (32 to 122° F)	0 to 50° C (32 to 122° F)
Relative Humidity Range	35 to 85% (no condensation)	35 to 85% (no condensation)	35 to 85% (no condensation)

AGT400-SPC Isotope Thickness Gauge	AGT600-RM Laser Thickness Gauge	AGT800-SPC Laser Thickness Gauge	Competitive X-ray Thickness Gauge
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	AGT400-SPC Isotope Thickness Gauge	AGT600-RM Laser Thickness Gauge	AGT800-SPC Laser Thickness Gauge	Competitive X-ray Thickness Gauge
Purchase price	Medium	Low	Medium	High to Extremely High
Air Gap	2 to 12"	2"	2 to 12"	Varies
Measured Materials	Various Metals	All	All	Vary by kV
Alloy Sensitivity	Low	None	None	Varies
Material Thickness	.007 to .250" steel	.001 to .250" any material	.001 to .750" any material	Varies by kV
Material Width	4 to 96"	1 to 36"	4 to 96"	Varies by Brand
Scanning Capability	Yes	No	Yes	Varies by Brand
Strip Edge Proximity	~ 2"	Centerline Only	~ 1/4"	Varies by Brand
Passline Height Sensitivity	Medium	Low	Low	Low
Passline Angle Sensitivity	Medium	Medium	High to Low	Medium
Liquid on Material Sensitivity	Low	High	High	Low
Electronic Noise	High	Extremely Low	Extremely Low	Low
Response Time	Slow	Fast	Fast	Fast
Air Required for Installation	No	Yes	Yes	Yes
Water Required for Installation	No	No	No	Yes
S.P.C. Reporting	Yes	No	Yes	Varies by Brand
Data Storage	Yes	No	Yes	Varies by Brand
Radiation Exposure Risk	Low	None	None	Medium
Federal Licensing Requirements	Yes	None	None	None
State Licensing Requirements	Vary by State	None	None	Vary by State
Leak Test Requirements	Vary by Country	None	None	None
Terrorism Risk	Possible	None	None	None
Reliability	High	High	High	Low
Maintenance Costs	Low	Low	Low	High
Repair Costs	Low	Low	Low	Very High
Disposal Hassle at End of Life	High	None	None	None

AGT400 & AGT800 Customer List

<u>System</u>	<u>Customer</u>	<u>Location</u>	<u>Country</u>	<u>Line</u>	<u>Thickness</u>
This listing shows a few dozen of our key AGT400 & AGT800 customers. We have sold more than 220 thickness gauges and service another 200 of our competitors' gauges.					
1810	Accuride International Inc.	Santa Fe Springs CA	USA	#1 Reversing Mill (left)	< .125"
1811	Accuride International Inc.	Santa Fe Springs CA	USA	#1 Reversing Mill (right)	< .125"
1915	Accuride International Inc.	Santa Fe Springs CA	USA	#2 Reversing Mill (left)	< .125"
1916	Accuride International Inc.	Santa Fe Springs CA	USA	#2 Reversing Mill (right)	< .125"
2402	Accuride International Ltd.	Mexicali BC	Mexico	#3 Reversing Mill (left)	< .125"
2403	Accuride International Ltd.	Mexicali BC	Mexico	#3 Reversing Mill (right)	< .125"
2428	Accuride International	Suzhou PR	China	#4 Reversing Mill (left)	.040" - .100"
2429	Accuride International	Suzhou PR	China	#4 Reversing Mill (right)	.040" - .100"
2208	Jemison Metals	Cleveland OH	USA	60" Loopco Slitter	.015" - .250"
2807	Jemison Metals	Cleveland OH	USA	75" Red Bud CTL	.016" - .187"
2205	Jemison Metals	Sumter SC	USA	60" Pro-Eco Slitter	< .250"
2808	Jemison Metals	Sumter SC	USA	75" Red Bud CTL	.118" - .150"
2206	Jemison Metals	Gadsden AL	USA	60" Delta Slitter	< .125"
2207	Jemison Metals	Gadsden AL	USA	72" Paxson Slitter	< .250"
3305	Jemison Metals	Trinity AL	USA	96" Butech Stretch Leveler	.060" - .750"
2109	Lee Steel Corporation	Detroit MI	USA	74" Braner Slitter	< .250"
2905	Lee Steel Corporation	Detroit MI	USA	72" Braner Slitter	.020" - .250"
3401	Lee Steel Corporation	Romulus MI	USA	74" Red Bud EPS Pickle Line	.055" - .312"
1923	Lee Steel Corporation	Wyoming MI	USA	74" Herr-Voss Slitter	.015" - .135"
3103	Lee Steel Corporation	Wyoming MI	USA	72" Red Bud Multi-Blanking Line	.017" - .150"
2009	Samuel, Son & Co., Limited	Burlington ON	Canada	72" Alcos Slitter	.015" - .250"
2013	Samuel, Son & Co., Limited	Burlington ON	Canada	72" Loopco Slitter	.015" - .250"
2104	Samuel, Son & Co., Limited	Burlington ON	Canada	60" Alcos Slitter	.015" - .250"
2309	Samuel, Son & Co., Limited	Concord ON	Canada	72" Alcos Slitter	< .250"
2424	Steel Technologies Inc.	Canton MI	USA	60" Braner Slitter	< .250"
3107	Steel Technologies de Mexico	Celaya GTO	Mexico	60" Loopco Slitter	< .250"
3108	Steel Technologies de Mexico	Celaya GTO	Mexico	72" Red Bud Slitter	< .250"
2007	Steel Technologies Inc.	Clinton NC	USA	60" Pro-Eco Slitter	< .250"
3204	Steel Technologies Inc.	Crawfordsville IN	USA	60" Pro-Eco Slitter	< .250"
2422	Steel Technologies Inc.	Decatur AL	USA	60" Braner Slitter	< .250"
3202	Steel Technologies Inc.	Eminence KY	USA	60" Pro-Eco Slitter	< .250"
2506	Steel Technologies Inc.	Greensburg IN	USA	60" Braner Slitter	< .170"
2507	Steel Technologies Inc.	Greensburg IN	USA	72" Braner Slitter	< .250"
2306	Steel Technologies de Mexico	Guadalupe NL	Mexico	60" Braner Slitter	< .250"
1815	Steel Technologies Inc.	Huger SC	USA	72" Braner Slitter	< .250"
2617	Steel Technologies de Mexico	Juarez CHIH	Mexico	75" Red Bud Slitter	.010" - .187"
3010	Steel Technologies de Mexico	Juarez CHIH	Mexico	72" Red Bud Multi-Blanking Line	< .135"
2302	Steel Technologies Inc.	Madison MS	USA	72" Braner Slitter	.015" - .100"
1913	Steel Technologies de Mexico	Matamoros TAMPS	Mexico	72" Pro-Eco Slitter	< .250"
2406	Steel Technologies de Mexico	Matamoros TAMPS	Mexico	72" Paxson Slitter	< .250"
1914	Steel Technologies Inc.	Murfreesboro TN	USA	60" Braner Slitter	< .250"
2301	Steel Technologies Inc.	Murfreesboro TN	USA	72" Pro-Eco Slitter	.020" - .070"
2417	Steel Technologies Inc.	Murfreesboro TN	USA	72" Braner Slitter	< .160"
2810	Steel Technologies Inc.	Murfreesboro TN	USA	72" Red Bud Multi-Blanking Line	.015" - .187"
3105	Steel Technologies de Mexico	Pesqueria NL	Mexico	72" Red Bud Multi-Blanking Line	< .135"
3106	Steel Technologies de Mexico	Pesqueria NL	Mexico	72" Red Bud Slitter	< .250"
2304	Steel Technologies Inc.	Portage IN	USA	48" Braner Slitter	.030" - .150"
3203	Steel Technologies Inc.	Portage IN	USA	60" Pro-Eco Slitter	< .200"
1924	Steel Technologies Inc.	Willoughby OH	USA	60" Paxson Slitter	.030" - .250"
2426	Steel Technologies Inc.	Willoughby OH	USA	60" Braner Slitter	.018" - .250"
2806	Steel Technologies Inc.	Woodstock ON	Canada	72" Braner Slitter	.010" - .250"
2011	Venture Steel Inc.	Etobicoke ON	Canada	60" Alcos Slitter	.012" - .250"
2101	Venture Steel Inc.	Etobicoke ON	Canada	60" Alcos Slitter	< .125"
2108	Venture Steel Inc.	Etobicoke ON	Canada	62" Alcos Slitter	< .125"
2310	Venture Steel Inc.	Etobicoke ON	Canada	72" Alcos Multi-Cut Blanker	< .250"
2612	Venture Steel Inc.	Etobicoke ON	Canada	72" Alcos Slitter	< .250"
1806	Venture Steel Inc.	Mississauga ON	Canada	64" Alcos Slitter	.015" - .250"
1904	Venture Steel de Mexico	Ramos Arizpe COAH	Mexico	72" Pro-Eco Slitter	.015" - .250"

AGT400 Coil Summary Report

Smart Steel Company -- 72 Inch Top Name Slitter

Job Number: A56432 Coil Number: Z456991

Customer Name: ABC Automotive Operator Name: DAN Supplier: XYZ Mills

Product: Cold Rolled Steel Feb-26-03 2:10 PM to 2:13 PM (clock 3.2 min/ run 3.2 min) Turn: 1

Average Thickness and Tolerance Data

Target	0.0878 in	Average*	0.0872 in	Average - Target	-0.0006 in (-0.73%)
				Standard Deviation*	0.0002 in (0.23%)
Length	990 ft	Above High Limit	0.0890 in		0 ft (0.0%)
Width	60.000 in	In Tolerance			990 ft (100.0%)
Weight	17639 lbs	Below Low Limit	0.0865 in		0 ft (0.0%)
Max Thickness	0.0880 in at 911 ft	Min Thickness	0.0868 in at 852 ft		
Head Scrap	0 ft	Tail Scrap	0 ft		

Statistical Process Control Data

Upper Control Limit	0.0878 in	Upper Tolerance Limit	0.0890 in
X Double Bar	0.0872 in	R Bar	0.0006 in
Lower Control Limit	0.0866 in	Lower Tolerance Limit	0.0865 in
CR	48.000% (Capability Ratio %, 100/CP)		
CP	2.083 (Process Capability, HiLim-LoLim/6*Sigma)		
CPK	1.100 (Capability vs Limits)	TMW Ratio	0.992 (Low Limit/Avg)

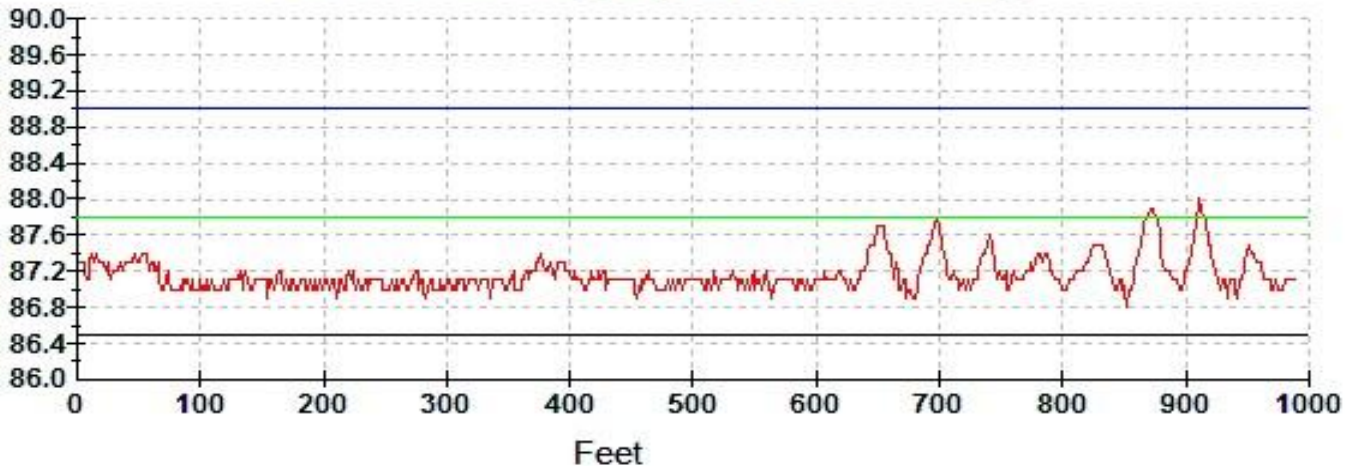
Thickness Distribution Relative to the Target

+++	0.0%	
+0.0100	0.0%	
+0.0090	0.0%	
+0.0080	0.0%	
+0.0070	0.0%	
+0.0060	0.0%	
+0.0050	0.0%	
+0.0040	0.0%	
+0.0030	0.0%	
+0.0020	0.0%	
+0.0010	0.0%	
+0.0000	2.5%	*****
-0.0010	97.5%	*****>
-0.0020	0.0%	
-0.0030	0.0%	
-0.0040	0.0%	
-0.0050	0.0%	
-0.0060	0.0%	
-0.0070	0.0%	
-0.0080	0.0%	
-0.0090	0.0%	
-0.0100	0.0%	
---	0.0%	

0 3 6 9 12 15 18 21 24 27 30 33 %

100.0% is within ± 0.0020 in of the target 100.0% is within ± 0.0050 in of the target
 100.0% is within ± 0.0100 in of the target 100.0% is within ± 0.0200 in of the target

Thickness vs Length (Coil Number Z456991)



AGT400 Coil Summary Report

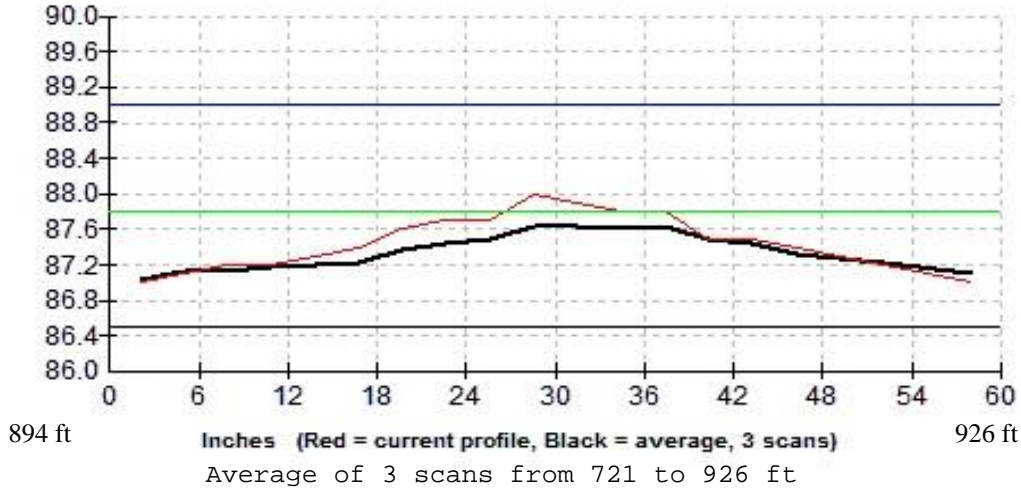
Smart Steel Company -- 72 Inch Top Name Slitter

Job Number: A56432 Coil Number: Z456991

Customer Name: ABC Automotive Operator Name: DAN Supplier: XYZ Mills

Product: Cold Rolled Steel Feb-26-03 2:10 PM to 2:13 PM (clock 3.2 min/ run 3.2 min) Turn: 1

Thickness vs Width (Coil Number Z456991)



Defect Summary

Defect Name	Recorded Length
01 Stains	236 ft (23.9%)
02 Scratches	130 ft (13.2%)
03 Laminations	229 ft (23.1%)
04 Rust	111 ft (11.3%)
Total length affected	477 ft (48.2%)
Total length	990 ft

Defect Details (6 defects measured)

Defect Name	From	To
01 Stains	56 ft	150 ft
02 Scratches	78 ft	208 ft
03 Laminations	109 ft	241 ft
04 Rust	271 ft	382 ft
03 Laminations	323 ft	420 ft
01 Stains	452 ft	594 ft

Coil Mapping Data (6 defects measured)

Defect Name	From	To	Zone	Unit
01 Stains	56 ft	150 ft	1	Top
02 Scratches	78 ft	208 ft	2	Bottom
03 Laminations	109 ft	241 ft	3	Top
04 Rust	271 ft	382 ft	1	Bottom
03 Laminations	323 ft	420 ft	2	Top
01 Stains	452 ft	594 ft	1	Bottom

AGT400 Shift Summary Report

Smart Steel Company -- 72 Inch Top Name Slitter

Shift: 2 Thursday, September 5, 2006 (on demand report, page 1)

Coil Number	Start hh:mm	Time min	Target in	Average in	R Bar in	Length ft	Width in	Weight lbs	HiLim in	LoLim in
856-51444	14:49	12.1	0.0335	0.0325	0.0002	6970	60.000	46321	0.0355	0.0315
856-51703	15:33	13.6	0.0335	0.0326	0.0002	6639	60.000	44186	0.0355	0.0315
856-51708	16:05	8	0.0335	0.0325	0.0003	7008	60.000	46599	0.0355	0.0315
Job Number: 7780			3 Coils	TOTAL-->		20617		137106		
856-51702	16:46	10.2	0.0335	0.0325	0.0003	7026	60.000	46679	0.0355	0.0315
920-93864	17:15	18.9	0.0335	0.0331	0.0003	7521	51.000	43307	0.0350	0.0320
Job Number: 7947			2 Coils	TOTAL-->		14547		89986		
920-93863	17:49	15.7	0.0335	0.0331	0.0004	7531	51.000	43365	0.0350	0.0320
920-94052	18:16	11.5	0.0335	0.0332	0.0003	8449	50.875	48648	0.0350	0.0320
Job Number: 8020			2 Coils	TOTAL-->		15980		92013		
920-93450	18:38	14	0.0335	0.0332	0.0003	8440	50.875	48331	0.0350	0.0320
920-93271	19:12	12.6	0.0335	0.0331	0.0003	7966	50.875	45704	0.0350	0.0320
920-93270	19:35	15.5	0.0335	0.0331	0.0003	7955	50.875	45651	0.0350	0.0320
920-91308	19:57	11.2	0.0335	0.0331	0.0004	2281	50.875	44165	0.0350	0.0320
920-91309	20:15	10.1	0.0335	0.0331	0.0003	6046	50.875	44795	0.0350	0.0320
Job Number: 7899			5 Coils	TOTAL-->		32688		228646		
920-94575	20:22	11.8	0.0335	0.0332	0.0003	8466	50.875	48660	0.0350	0.0320
920-94574	20:44	15.3	0.0335	0.0332	0.0003	8476	50.875	48720	0.0350	0.0320
920-94573	21:09	12.6	0.0335	0.0332	0.0003	8445	50.875	48483	0.0350	0.0320
Job Number: 8013			3 Coils	TOTAL-->		25387		145863		
970-41659	22:44	21.1	0.0475	0.0472	0.0007	1885	47.625	14382	0.0490	0.0450
970-41659	23:15	16.4	0.0475	0.0473	0.0009	1851	47.625	14144	0.0490	0.0045
Job Number: 7277			2 Coils	TOTAL-->		3736		28526		
Shift Totals:			17 Coils	TOTAL -->		112944		681141 (340.6 tons)		

ABC Steel company -- 48 Inch Braner Slitter

Tuesday, March 13, 2012 2:26 PM

Internal Calibration Sample Checks

	Nominal Value	Measured Value	Tolerance	Status	Nominal A/D	Measured
Air	0.0000 in	0.0000 in	0.0002 in	In	61516	61515
Sample 1	0.0820 in	0.0821 in	0.0004 in	In	9598	9599
Sample 2	0.1614 in	0.1614 in	0.0008 in	In	1694	1698
Sample 3	0.2363 in	0.2374 in	0.0012 in	In	423	420
Shutter Closed					121	125

Calibration History

This AGT 400 was calibrated with external samples on Tuesday, August 9, 2011 at 1:14 PM

The calibration was verified and adjusted on Tuesday, August 9, 2011 at 1:14 PM

A successful ISOcheck™ was done on Tuesday, August 9, 2011 at 1:25 PM

The calibration constants are shown below

	Date	A1	A2	P1	% Deviation
Last External Calibration	08-09-2011	43.796	2.99E+2	0.780	0.10%
Last Internal Calibration	08-09-2011	43.796	2.99E+2	0.780	

DC Power Supply Checks

	Nominal Value	Measured Value	Tolerance	Status
Power Supply 1	13.20 volts	13.28 volts	0.50 volts	In
Power Supply 2A	5.00 volts	5.05 volts	0.25 volts	In
Power Supply 2B	-15.00 volts	-15.03 volts	0.25 volts	In
Power Supply 2C	15.00 volts	15.11 volts	0.25 volts	In
High Voltage Supply	-320 volts	-322 volts	25.00 volts	In

AGT400 TCP/IP HMI Communication

Enables the AGT400 to accept a single TCP/IP streaming socket connection on a user defined port for the purpose of requesting information from the gauge or commanding certain actions to the gauge. The gauge software will respond to a specific set of text commands by either performing the requested command or providing the requested information in real time. Current commands allow for the control of the C-frame, measuring and reporting functions as well as the ability to provide thickness, deviation, coil length, coil diameter, C-frame position and digital input status information.

Any client capable of sending and receiving text commands over a TCP/IP socket connection should be able to interface with the gauge software. The software will provide information in a text stream which can then be parsed to collect information in whatever way the client wishes to manipulate the data.

Please note that each AGT400 must be individually licensed to support this feature. The gauge will then be able to accept one connection.

SNL-400	Software Network License, 1 copy, 1,995.00 U.S.
SNL-402	Software Network License, 2 to 4 copies, \$1,595.00 U.S. each
SNL-405	Software Network License, 5 or more copies, \$1,395.00 U.S. each

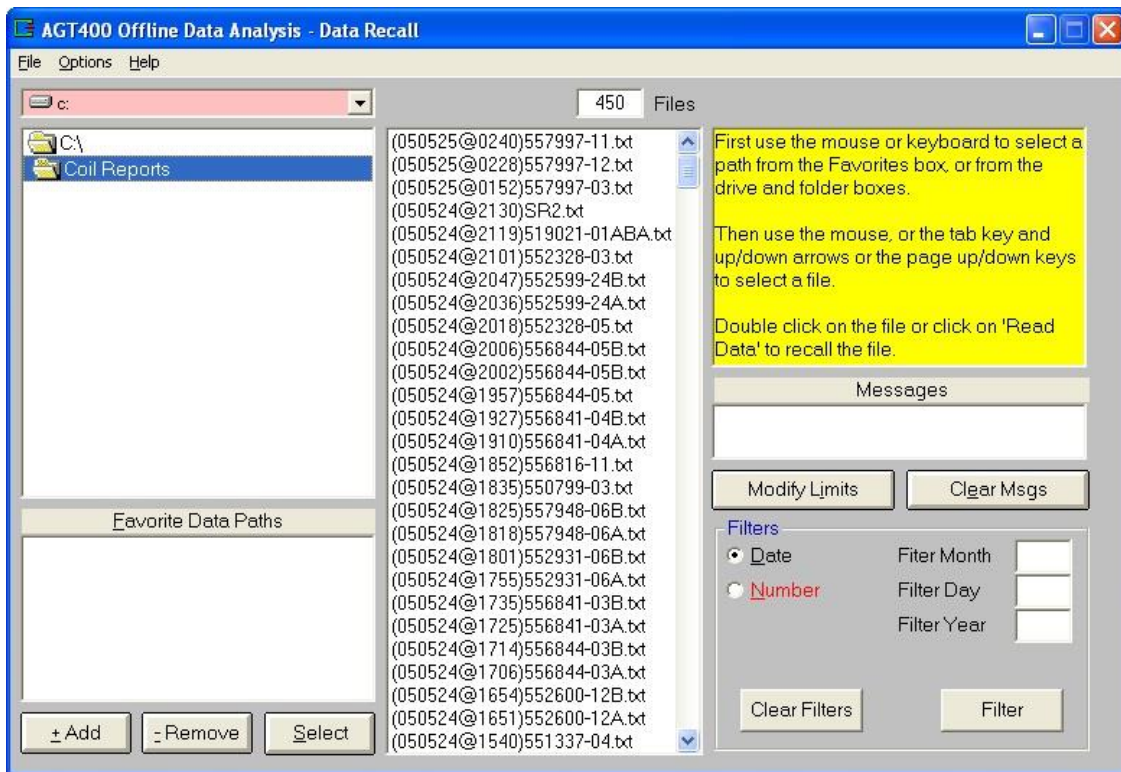
AGT400 Offline Data Analysis Software

Interested in untethered access to the coil reports generated by your AGT400 Thickness Gauge? Wish you could view coil reports without walking out to the gauge? Want the ability to email reports to customers?

Advanced Gauging Technologies developed Offline Data Analysis (ODA) to allow our customers easier access to their coil reports generated by the AGT400 Thickness Gauge & S.P.C. Reporting System. This software enables customers to recall reports from a single or multiple gauges simultaneously via a company network or USB stick. Coil reports can be accessed without interrupting the gauge measurement or the line operation, and each report can be studied in great detail without printing a single page. In addition, PDF formatted coil reports can be generated by Offline Data Analysis for ease of attachment into customer emails.

The Offline Data Analysis packet includes a software CD, customized AGT400 parameter file, security dongle and installation instructions.

- ODA-401 Offline Data Analysis, 1 copy, \$495.00 U.S.
- ODA-402 Offline Data Analysis, 2 to 4 copies, \$395.00 U.S. each
- ODA-405 Offline Data Analysis, 5 or more copies, \$295.00 U.S. each





Pictured Above (from Left to Right): AGT400 Cabinet (Keyboard Tray Closed), AGT400 Cabinet (Keyboard Tray Open) with Indicator Lights, Remote Keyboard & Monitor, Inside of Electronics Cabinet



Pictured Above (From Left to Right): Oscillating C-frame, Source Head, Oscillating C-frame, Oscillating C-frame with Indicator Lights

Manufactured, Sold, and Serviced By:



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