RADIAN
Laser Tracker
Products and Accessories

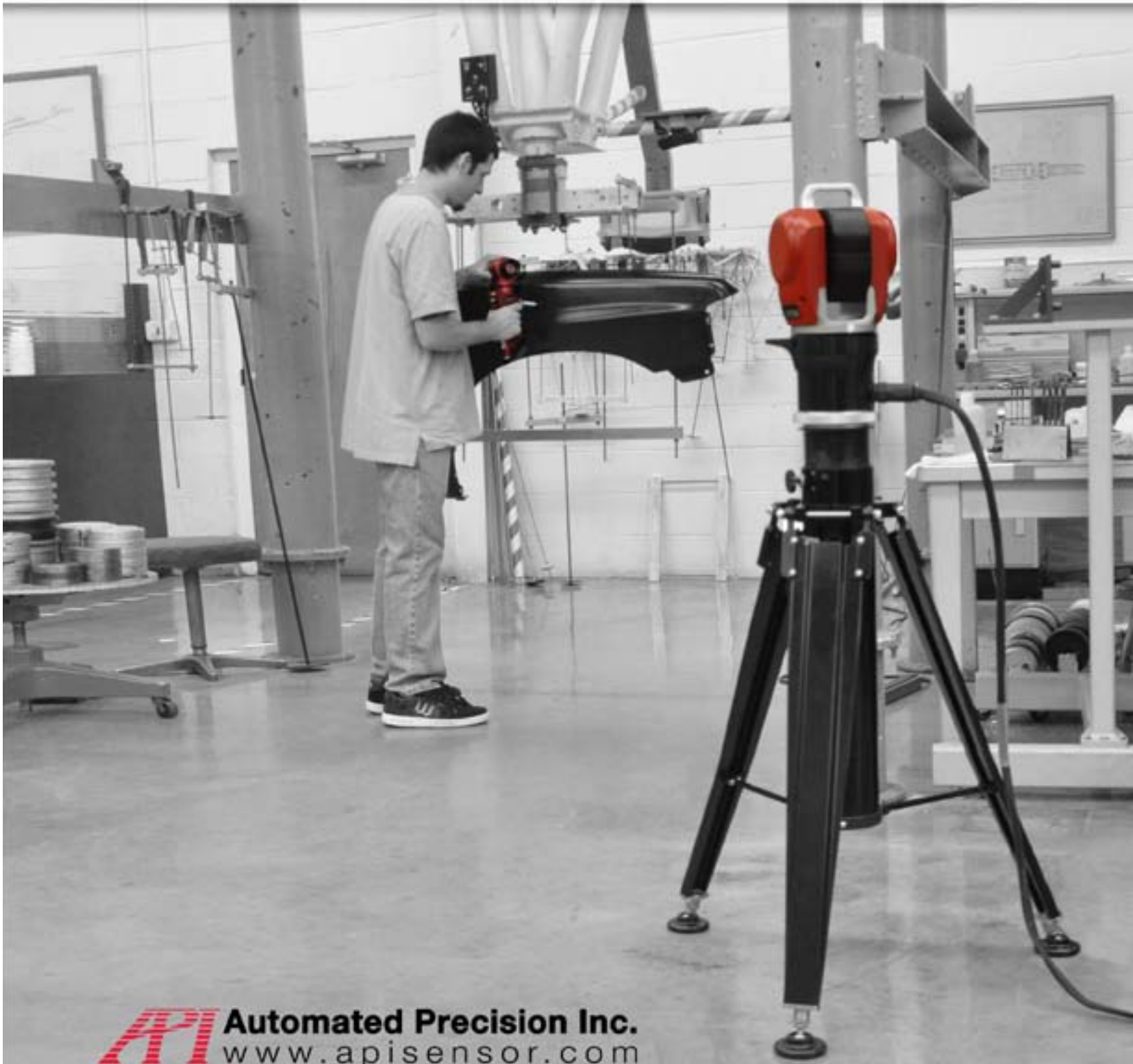

Automated Precision Inc.
www.apisensor.com

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15000 Johns Hopkins Dr.
Rockville, MD 20850

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The Radian™ Laser Tracker

Automated Precision Inc. (API) presents the new Radian Laser Tracker with the INNOVO™ Technology Platform. This advanced laser tracker changes the way that people use laser trackers. Radian™ introduces advanced features that include I-Vision, ADM-Maxx and a host of key activity and self diagnostic features. API's Radian is lighter and has a smaller profile than its predecessor or any other laser tracker.

"All of the new features are designed to create a laser tracker that is more intelligent, easier to use and optimizes the measurement and inspection processes. Radian lets the user focus on the job and not the tracker itself," says Dr. Kam Lau, president and CEO of Automated Precision Inc. "API is changing the conversation that people will have about what to expect from a laser tracker."

RADIAN™ Laser Tracking System Kit

This Kit contains the items listed below. Radian is available in three ranges of measurement and various camera integration settings. Please refer to chart.

Range	Cam. Enabled	Not Recording
20 m	91303	90150
50 m	84070	88130
80+ m	87195	93240

Qty	Description	Part No.
1	Radian™ Gimbal + Controller	See Above
1	5 m Gimbal-to-Controller Cable	79593
1	Weather Station Kit	97512
1	Ethernet Cat6 GB Gray Molded Cross-Over Cable	55539
1	1.5" Hollow Core 40m Standard SMR	76695
1	Tool Bag	27047
1	Rough-In Level	19254
1	SMR Cleaning Kit	62182
1	API Laser Tracker Dust Cover	46864
1	SA Basic Sofware: Basic SA Analysis and CAD Exchange (IGES,STEP)	56874
1	USB Flash Drive API System Software, User Manual, & Parameter file	23020
1	User Manual	93525
1	Calibration Certificate	98545
1	Two-Year Warranty - Extended Warranties Available. See Below	17377
1	Carrying Case	26016
1	Laptop Computer	33450
1	Power cable, 125V, 10A, for 90-110 AC Only	76215
1	Laser Tracker Calibration Tripod	29220
1	Interlink Wireless RF Remote - 2.4 GHz	89638

Extended Warranty	Part No.
Tracker Extended Warranty Acquired 1st Year	28170
Tracker Extended Warranty Acquired 2nd Year	88449
Tracker Extended Warranty Acquired 3rd Year	15295
Tracker Extended Warranty Acquired 4th Year	21870

RADIAN™ "Barebones" Laser Tracking System Kit

This kit provides a Radian

Range	Camera Enabled	Not Recording
20 m	100039	100042
50 m	100040	100043
80+ m	100041	100044

Qty	Description	Part No.
1	Radian™ Gimbal + Controller	35292
1	5 m Gimbal-to-Controller Cable	79593
1	Weather Station Kit	97512
1	Ethernet Cat6 GB Gray Molded Cross-Over Cable	55539
1	1.5" Hollow Core 50m Standard SMR	100199
1	Tool Bag for API Cables and Accessories	27047
1	Rough-In Level	19254
1	SMR Cleaning Kit	62182
1	API Laser Tracker Dust Cover	46864
1	Power Cable, 125 V, 10A for 90-110V AC only	76215
1	USB Flash Drive API System Software, User Manual, & Parameter file	23020
1	User Manual	93525
1	Calibration Certificate	98545
1	Two-Year Warranty - Extended Warranties Available. See Below	17377
1	Carrying Case - Hard Shell (with wheels)	91455

Extended Warranty	Part No.
Tracker Extended Warranty Acquired 1st Year	28170
Tracker Extended Warranty Acquired 2nd Year	88449
Tracker Extended Warranty Acquired 3rd Year	15295
Tracker Extended Warranty Acquired 4th Year	21870

The Omnitrac 2 Wireless Laser Tracker

Automated Precision Inc. (API) presents a revolutionary advancement in laser tracker technology – the world's first completely wireless, controller-free laser tracker: the Omnitrac 2.

The Omnitrac 2 offers many of the features of the Radian, which remains API's premium tracker, including an Autolock camera that can recapture a lost beam and onboard level sensor. The Omnitrac 2 operates using ADM (Absolute Distance Measurement) technology, while the Radian augments that with an interferometer.

"The OT2, as we call it, is a solution that not only addresses accuracy and reliability needs, but also anticipates how our customers work and what their needs are in their environment," says Dr. Kam Lau, the president and founder of Automated Precision Inc. "With this portability and ease-of-use, we believe the OT2 will bring laser metrology to industries that never considered it before."

OMNITRAC2 Wireless Laser Tracking Kit

This Kit contains the items listed below.

Range	Part No.
100 m	101594

Qty	Description	Part No.
1	Omnitrac 2 Gimbal	101005
1	SMR - 1.5" Diameter - Break Resistant Hollow Core 80m Standard	100200
1	Hard Case for Omnitrac 2	101591
1	Omnitrac 2 - AC Power Adaptor	101599
1	Power cable, 125 V, 10A, for 90-110 AC Only	76215
1	Ethernet Cat6 GB Gray Molded Cross-over Cable, RJ45 (Male/Male) Cable	55539
1	Rough In Level	19254
1	SMR Cleaning Kit	62182
1	Dust Cover with API Logo	46864
1	USB Drive	23020
1	Omnitrac 2 - electronic user manual	101597
1	OmniCal 2 Software	101596
1	Calibration Certificate	98545
1	2-year Warranty on API Manufactured Products (w/ purchase of new system)	17377

Optional Accessories

Description	Part No.
Carrying Case - Hard Shell (with wheels)	101591
Backpack Accessory (requires 101591)	101592
Laptop Computer Case	101593
Omnitrac 2 printed user manual	101598

Laser Tracker Accessories

RADIAN™ Gimbal-to-Controller Cable

Cable connects gimbal to controller. For use with the Radian™ Laser Tracker. Available in standard 5 meter length, 10 meter length, or custom length. Custom sizes are available up to 50 meters.

Length	Part No.
5 m	79593
10 m	90311
Custom	91530

RADIAN™ Carrying Case   Part No. 91455

Hard shell carrying case fitted for Radian™ Laser Tracker. Case features four secure clasps, water resistant seal, wheels, extendable handle, and space to add a lock.

Mobile Workstation   Part No. 69602

Custom built mobile workstation. Includes two standard drawers, one drawer with foam for tracker gimbal storage, and cabinet with storage of UPS, tracker controller, calibration tripod, and cables.

Interlink Wireless Mouse RF Remote   Part No. 89638

2.4 GHx RF Remote (Interlink Wireless Mouse Remote Point).

Birdbath Calibration Tool Sales Kit   Part No. 86860

Movable artifact mounted on an API instrument stand with two SMR positions for verifying and adjusting the reference position (birdbath) of a laser tracker. Includes base unit with quicklink mounting, removable SMR extensions, and a hard-shell carrying case. API instrument stand sold separately.

Description	Part No.
Birdbath Calibration Tool	17129
Birdbath Calibration tool Manual (on CD)	52018
Birdbath Calibration Tool Hardcase	64735

Tracker Calibration Tripod   Part No. 29220

Tracker calibration tripod for adjustable placement of an SMR during automated instrument compensations. Tripod adjusts via two extendable leg segments. Includes customized magnet adapter to accept 1.5" SMR. For use with all trackers.

Laser Tracker Calibration

Mounting Options

Laser Rail Tracker Certification System Kit
Part No. 78225

Laser Rail interferometer-based tracker certification system. 2.9 m reference length. Includes rail, interferometer, and two mounting tripods for use in horizontal, vertical, and angled configuration. Meets test requirements of ASME B89.7.3.1.

Description	Part No.
Laser Rail Assembly	69036
SMR - 1.5" Diameter - Break Resistant Hollow Core 40m Standard	76695
Laser Rail Mounting Plate	82232
Instrument Stand - 41" - 57" (standard) Quicklink.*	28653
Tracker Tripod Case	67352
Laser Rail Packaging with Triple Wall Box	87524
Power Supply - XD Laser (all models)	46351
Ethernet Cat6 GB Gray Molded Cross-over Cable, RJ45 (Male/Male) Cable	55539

* When used with T3/OT of SN prior to 3870-1060 requires additional part 79832 and instruction for its installation.

Steel Reference Bar - 1 m
Part No. 66669

Steel scale bar with built-in magnetic mounting for 1.5" SMRs. Calibrated 1 meter length with CTE and certificate.

B89 Artifact Sales Kit
Part No. 110234

The B89 artifact is a device intended to preserve a given length at a given temperature in order to satisfy the data collection requirements of a standard ASME B89.4 test for laser trackers. Includes high accuracy and an extruded aluminum bar with 5 measurement positions/receptacles for laser tracker targets.

Description	Part No.
B89 Artifact Assembly	100669
Laser Rail Packaging with Triple Wall Box	87524
B89 Artifact label	100723
Instrument Stand - 41" - 57" (Standard) - Quicklink (2)	28653
Single Golf Case - Black - Tracker Tripod Case (2)	67352

800 mm Scale Bar (INVAR) Sales Kit
Part No. 101203

Description	Part No.
Scale bar, 800 mm	10002
1 meter bar shipping case	100994

Brunson Thread Adapter
Part No. 73427

Quicklink to Brunson Thread adapter. This device adds a quicklink compatible base to any standard 3.5" x 8 instrument thread ("Brunson" thread).

TRACKER3™ Retrofit Quicklink Adapter
Part No. 27385

Quicklink adapter and additional parts necessary to retrofit Tracker3™ to the API Quicklink system.

41" - 57" Standard Instrument Stand
Part No. 60058

Lightweight portable standard instrument stand, also known as a "Tracker Tripod" for use with the API Quicklink System. Stand features rigid yet light construction and adjustable instrument height. Kit includes instrument stand, quicklink attachment, adjustable feet, and hard-shell carrying case with wheels. For use with the Radian™ Laser Tracker, Tracker3™, OmniTrac™ or other Quicklink-capable instruments

28" - 37" Short Instrument Stand
Part No. 80264

Lightweight portable short instrument stand, also known as a "Tracker Tripod" for use with the API Quicklink System. Stand features rigid yet light construction and adjustable instrument height. Kit includes instrument stand, quicklink attachment, adjustable feet, and hard-shell carrying case with wheels. For use with the Radian™ Laser Tracker, Tracker3™, OmniTrac™ or other Quicklink-capable instruments

Quicklink Trimount Leveling Base Kit
Part No. 24785

API trivet for mounting a Quicklink compatible tracker to a table, machine tool or other surface. Includes leveling base with three adjustable legs and three magnetic drift nests. For use with the Radian™ Laser Tracker, Tracker3™, Omnitrac™ and other Quicklink-capable instruments.

Description	Part No.
Trimount Leveling Base Assembly	38881
1.5" Sphere Mount - Drift Nest - Aluminum - 1.655 M - DN - 3PA) (3)	64271

Targeting Options

Quicklink Right Angle Mount

Part No. 64239

Quicklink-to-Quicklink Right Angle Mount. This device is used for mounting an API Laser Tracker at a 90 degree (horizontal) angle to an API Quicklink stand. Compatible with Radian™, Tracker3™, OmniTrac™ or other Quicklink capable instruments and a Quicklink stand.

Brunson Right Angle Mount

Part No. 33258

Quicklink-to-Brunson Right Angle Mount. This device is used for mounting an API Laser Tracker at a 90 degree (horizontal) angle to an API Quicklink stand. Compatible with Radian™, Tracker3™, OmniTrac™ or other Quicklink capable instruments with a 3.5" x 8" Brunson instrument thread.

Quicklink Magnetic Base

Part No. 18491

Magnetic Base attaches API instruments with a quicklink mount to any magnetic surface. For use with the Radian Laser Tracker, Tracker3, OmniTrac and other Quicklink-capable instruments.

SMARTTRACK™ Sensor System Kit

Part No. 58056

SmartTrack™ Sensor (STS) for measuring XYZ location along with Pitch, Yaw, Roll angles for orientation. For use with Radian™ Laser Tracker and Tracker3™. Uses existing application software (SA, Verisurf, Metrolog, etc.). Includes gimbal, controller, cables, lens cap, documentation, and hard-shell carrying case.

Description	Part No.
SmartTrack Sensor (STS) Assembly	18261
STS Case with Custom Foam Insert	87220

SMARTTRACK™ Controller Cable

Cable connects the SmartTrack™ Sensor (STS) to the STS controller. Various lengths available. Please refer to the chart to the right. For use with The SmartTrack™ Sensor accessory for the Radian™ and Tracker3™ system.

Length	Part No.
5 m	86950
10 m	14105
20 m	35595

ACTIVE TARGET™ System Kit

Part No. 91859

Motorized retroreflector constantly adjusts to point back toward the laser tracker. Includes gimbal with internal Li-Ion battery, mounting adapter with screws, lens cap, user manual, and hard-shell carrying case. For use with Radian™ Laser Tracker and Tracker3™.

Description	Part No.
Active Target Gimbal	20923
Battery, 3.7V 600mAh, Lithium Ion, Lenmar DLK7002	73451
Battery Charger	76985
Calibration Certificate	98545
User Manual	93525
AT Case with Foam Insert	69785
Act Adapter - Active Target	47158
Wobble Plate	43276

Hollow High-Accuracy SMRs

Break-resistant hollow core 50 meter Spherically Mounted Retroreflectors (SMRs) feature golden coating. Certified for use with IFM and ADM over a range of 50 meters. For use with most laser trackers.

Range	Style	Diameter	Centering	Part No.
50 m	Precision	1.5 in	within .0001"	100222
50 m	Standard	1.5 in	within .0005"	100199
40 m	Miniature	0.5 in	within .0005"	40645
80m	Standard	1.5 in	within .0005"	100200

Prismatic SMRs

Break-resistant prismatic core Spherically Mounted Retroreflectors (SMRs). Certified for use with IFM and ADM for range from 40 meters to more than 60 meters. For use with most laser trackers.

Range	Diameter	Centering	Part No.
50 m	1.5 in	within .001"	100897
40 m	0.5 in	within .001"	99451

Hand-Held 3D Scanning

I-360™ 3D Scanning and Probing Kit   Part No. 51907

All-in-one hand-held probing and scanning unit. The I-360™ kit contains the items listed below.

Qty	Description	Part No.
1	I-360™ Unit	80300
1	I-360™ Controller	34915
1	50 mm Ceramic Probe Stylus with Ruby Tip, M12 x 1.0 mm	92130
1	100 mm Ceramic Probe Stylus with Ruby Tip	14452
1	4.5 m Sensor-to-Controller Cable	60225
1	10 m Tracker Controller Connection Cable (for use with all models)	28812
1	Retro-Probe Reset Sphere (1.5 RRS - 6 mm)	82442
1	I-360™ Power Cable - 125V, 10A, for 90-110V AC Only	76215
1	USB Flash Drive API System Software, User Manual, & Parameter file	23020
1	User Manual	37501
1	I-360™ Case with Custom Foam Insert	58920
1	Calibration Certificate	98545

INTELLISCAN 360™ 3D Scanning Kit   Part No. 75662

Hand-held 3D scanning unit. The IntelliScan 360™ kit contains the items listed below.

Qty	Description	Part No.
1	IntelliScan 360™ Unit	80300
1	IntelliScan 350™ Controller	34915
1	4.5 m Sensor-to-Controller Cable	60225
1	10 m Tracker Controller Connection Cable (for use with all models)	28812
1	I-360™ Power Cable - 125V, 10A, for 90-110V AC Only	76215
1	USB Flash Drive API System Software, User Manual, & Parameter file	23020
1	User Manual	37501
1	I-360™ Case with Custom Foam Insert	58920
1	Calibration Certificate	98545

Hand-Held Probing

Scanning and Probing Accessories

INTELLIPROBE 360™ Probing Kit   Part No. 10742

Hand-held probing unit. The IntelliProbe 360™ kit contains the items listed below.

Qty	Description	Part No.
1	IntelliProbe 360™ Unit	69990
1	IntelliProbe™ Controller	34915
1	50 mm Ceramic Probe Stylus with Ruby Tip, M12 x 1.0 mm	92130
1	100 mm Ceramic Probe Stylus with Ruby Tip	14452
1	25 m Communication Cable	67184
1	Retro-Probe Reset Sphere (1.5 RRS - 6 mm)	82442
1	I-360™ Power Cable - 125V, 10A, for 90-110V AC Only	76215
1	Power Supply Adapter	14096
1	USB Flash Drive API System Software, User Manual, & Parameter file	23020
1	User Manual	93525
1	I-360™ Case with Custom Foam Insert	58920
1	Calibration Certificate	98545

INTELLIPROBE 360™ WIRELESS Probing Kit   Part No. 15613

Hand-held probing unit. The IntelliProbe 360™ Wireless kit contains the items listed below.

Qty	Description	Part No.
1	IntelliProbe 360™ Wireless Unit	39360
1	Retro-Probe Reset Sphere (1.5 RRS - 6 mm)	82442
1	50 mm Ceramic Probe Stylus with Ruby Tip, M12 x 1.0 mm	92130
1	100 mm Ceramic Probe Stylus with Ruby Tip	14452
1	I-360™ Wireless Antenna	55843
1	I-360™ Power Cable - 125V, 10A, for 90-110V AC Only	76215
1	Power Supply Adapter	14096
1	25 m Communication Cable	67184
1	Power Supply Cable	97445
1	Battery Charger and Power Cord for Wireless Transceiver Batteries	56531
1	Wireless Module Battery	58843
1	USB Flash Drive API System Software, User Manual, & Parameter file	23020
1	User Manual	93525
1	I-360™ Case with Custom Foam Insert	58920
1	Calibration Certificate	98545

I-360™ Controller-to-Controller Cable

Cable connects I-360™ Controller to Tracker Controller. Available in various lengths. Please refer to the chart. Compatible with the I-360™, IntelliScan 360™, and IntelliProbe 360™.

Length	Part No.
10 m	28812
15 m	14107

I-360™ Sensor-to-Controller Cable

Cable connects the I-360™ unit to the I-360™ Controller. Available in various lengths. Please refer to the chart. Compatible with the I-360™, IntelliScan 360™ and IntelliProbe 360™.

Length	Part No.
4.5 m	60225
15 m	14107
25 m	98166

Scanner Calibration Cube   Part No. 24373

100 mm cube for laser scanner calibration and verification. Compatible with IntelliScan 350™ and I-360™.

Probe Reset Sphere   Part No. 58156

Reset sphere for hard point adapter.

M12 Stylus Adapter   Part No. 41305

Adapter allows I-360™ and IntelliProbe 360™ models manufactured before serial number 3939 to use probes designed for later units. Adapter female end is M12 x 1 mm, and the male end is M12 x 1.25 mm. For use with I-360™ and IntelliProbe 360™.

M2 Stylus Adapter   Part No. 62621

This adapter contains a standard M2 threaded hole for accepting accessories with an M2 threaded shank. Compatible with the IntelliProbe 360™ and I-360™.

M5 Stylus Adapter   Part No. 14109

This adapter contains a standard M5 threaded hole for accepting accessories with an M2 threaded shank. Compatible with the IntelliProbe 360™ and I-360™.

Ceramic Probe Stylus with Ruby Tip

6 mm Ruby Ball Stylus, Ceramic Shaft. 303 Stainless Steel Body with Ceramic Shaft; M12 X 1 mm; Threads with Locating Pilot, Ø3 mm Ruby Ball on Ø2 mm Stem X 5 mm; E.W.L., Manufactured per Print. Available in various lengths. Please refer to chart. For use with I-360™ and IntelliProbe 360™ products.

Length	Part No.
50 mm	92130
100 mm	14452

Carbon Fiber Probe Stylus with Steel Scribe Tip

Stylus with hardened steel scribe tip, 60° cone angle, and M12 x 1 mm thread. Various lengths available. Please refer to chart. For use with I-360™ and IntelliProbe 360™.

Length	Part No.
50 mm	43146
100 mm	25997

Carbon Fiber Stylus Extension

Stylus extension made from carbon fiber material. Various lengths available. Please refer to chart. For use with I-360™ and IntelliProbe 360™.

Length	Part No.
50 mm	101114
100mm	101116
150mm	59679
200 mm	101118
250mm	37991
300 mm	101120
350mm	101122
450 mm	101123
500mm	63620

Additional Stylus

Description	Part No.
Stylus Length 100 mm, Ruby Tip Dia 1 mm	101082
Stylus Length 200 mm, Ruby tip dia 3 mm	101085
Stylus length 400 mm, Ruby tip dia 3 mm	101087
Stylus length 500 mm, Ruby tip dia 3 mm	101089
Stylus Length 100 mm, Ruby Tip Dia 0.2 mm	101091

Extras

Advanced Tooling Kit (Imperial) Part No. 86818

Part No.	Description	Qty
79209	1.5 Edge Sphere Mount - 2 - 1" offset (1.5ESM -2-1.0000-SS)	1
23792	1.5 Shankless Sphere Mount - 1" Offset (1.5SSM-1.000-SS)	2
76972	1.5 Sphere Mount - 1" Offset, 1/2" Shank - Negative (1.5SMN-1.000-5000-SS)	1
52545	1.5 Sphere Mount - 1" Offset, 1/4" Shank - Negative (1.5SMN-1.000-2500-SS)	2
57609	1.5 Sphere Mount - 1" Offset, 3/8" Shank - Negative (1.5SMN-1.000-3750-SS)	1
61668	1.5 Sphere Mount - Temporary Mount (1.5SM-TM)	6
37393	Bar Extension - Hard Point Tip (HP)	1
54031	Bar Extension - Sphere Fit Adapter Stainless (SFA-SS)	1
45039	Bar Extension, 10" Length (BEX-10)	1
63550	Bar Extension, 5" Length (BEX-5)	1
70411	Construction Ball (CB-5000-2500-500)	1
33702	Case - with foam cutouts for tools- Advanced Tool kit	1

Advanced Tooling Kit (Metric) Part No. 51945

Part No.	Description	Qty
20471	1.5 Edge Sphere Mount - 2 25mm offset (1.5ESM -2-25mm-SS)	1
24660	1.5 Shankless Sphere Mount - 25mm Offset (1.5SSM-25mm-SS)	2
52545	1.5 Sphere Mount - 1" Offset, 1/4" Shank - Negative (1.5SMN-1.000-2500-SS)	1
32770	1.5 Sphere Mount - 25mm Offset, 10mm Shank - Negative (1.5SMN-25mm-10mm-SS)	1
77639	1.5 Sphere Mount - 25mm Offset, 12mm Shank - Negative (1.5SMN-25mm-12mm-SS)	1
66919	1.5 Sphere Mount - 25mm Offset, 6mm Shank - Negative (1.5SMN-25mm-6mm-SS)	1
33798	1.5 Sphere Mount - 25mm Offset, 8mm Shank - Negative (1.5SMN-25mm-8mm-SS)	1
61668	1.5 Sphere Mount - Temporary Mount (1.5SM-TM)	6
37393	Bar Extension - Hard Point Tip (HP)	1
54031	Bar Extension - Sphere Fit Adapter Stainless (SFA-SS)	1
45039	Bar Extension, 10" Length Stainless Steel (BEX-10-SS)	1
63550	Bar Extension, 5" Length (BEX-5)	1
70411	Construction Ball (CB-5000-2500-500)	1
33702	Case - with foam cutouts for tools- Advanced Tool kit	1

Standard Laptop Computer for API Instruments Part No. 33450

Standard laptop computer for use with API instruments (including, but not limited to Radian™, Tracker3, OmniTrac, XD Laser, Axxis Arms, and others).

Advanced Laptop Computer for API Instruments Part No. 51503

Highly recommended for scanning applications (I-360), Versiruf software, Polyworks software, and other graphically intensive applications.

Custom Laptop Computer for API Instruments Part No. 69214

Laptop Computer configured on an order by order basis. Select this part number to meet custom order requirements OR when ordering a stand-alone computer other than 33450.

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Automated Precision, Inc.
15000 Johns Hopkins Dr.
Rockville, MD 20850
Toll Free: (800) 537-2720
Ph: (240) 268-0400
Fx: (301) 990-8648

API-ZC
A2118 The International
Center of Times, No.101
Shaoyaoju Beili
Chaoyang District,
Beijing , P.R. China, 100101
Ph: 86-10-5824-6316
Fx: 86-10-5824-6348

API Services
209 Middle Ground Blvd.,
Suite B-105
Newport News, VA 23606
Ph: 757-223-4157
Fx: 757-223-4158

Automated Precision
Europe GmbH
Im Breitspiel 17
69126
Heidelberg, Germany
Ph: +49 (0) 6221 729 805 0
Fx: +49 (0) 6221 729 805 23

API India
Automated Precision India Pvt. Ltd.
G-19, Sector -63, Nodia 201 301
Ph: +91 120 - 4290 022,
4290 506/07
Fx: +91 120 - 4290 508

AP Photonics Limited
Unit 212, 2/F, Bio-Informatics Centre
No.2 Science Park West Avenue, Hong
Kong Science Park,
Tai Po, New Territories, Hong Kong.
Phone: +852 2151 9978
Fax: +852 2151 1825