




Atlas Copco



Industrial Location SpotPoint 2.0

Product information

Values | Benefits | Features

Industrial Location SpotPoint 2.0

Increased need for flexibility, efficiency, and freedom in production, generates increased need for wireless error proofing. Captures full value of battery tool and Low Reaction Tools.

Values

- ▶ Flexibility in many station and tool types
- ▶ Freedom from suspension or reaction mechanical devices
- ▶ Position level error proofing (10mm) bolt to bolt
- ▶ Works with manual and direct driven wireless tools
- ▶ Reduced integration costs
- ▶ Multiple station process types
 - Stop station
 - Repair or low volume cart
 - Continuous moving line (tooling and process dependent)

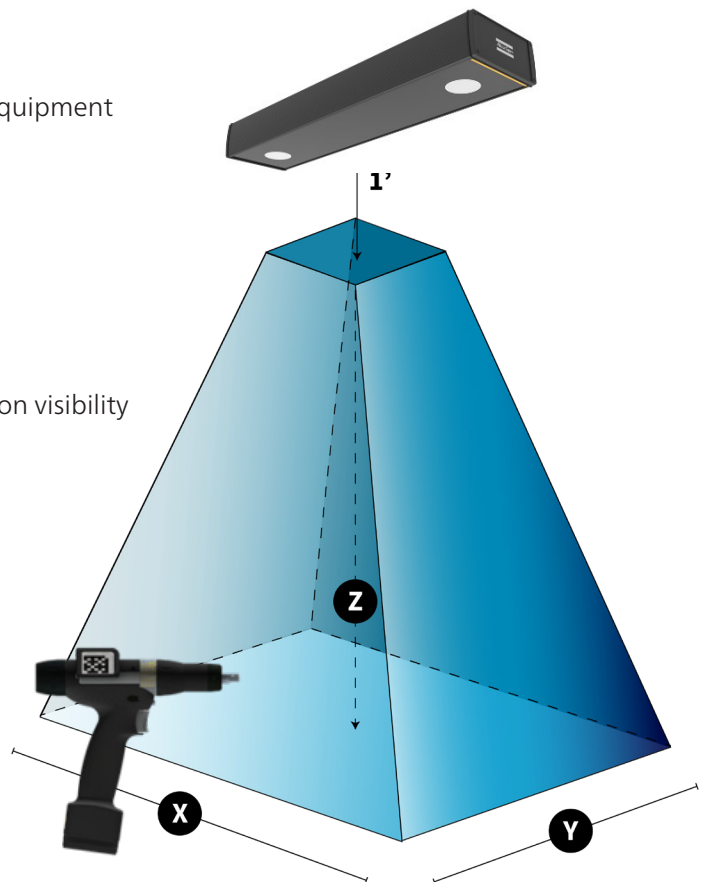


Benefits

- ▶ Multiple station and tool type integration
- ▶ Smart arm no longer required for bolt level error proofing
- ▶ Multi-axis fastener run-down flexibility (160 degrees of freedom)
- ▶ Automatically adjusts target area with different sockets or attachments
- ▶ Passive tags on tools do not require power
- ▶ Self-contained (no external PC/PLC required)
 - Transparent to customer's control architecture
 - Faster processing of tool status
 - Easier set-up, configuration, and MTR
- ▶ Identifies part position before, and while fastening
- ▶ Easily adaptable to other joining, checking, and assembly equipment
- ▶ Fully developed support network of Atlas Copco
 - One stop joining and error proofing supplier

Features

- ▶ Allows for 6 tools to one sensor
- ▶ Capable of reading positions 10mm apart, center to center
- ▶ Passive tool tags that do not require power and multiple tags can be placed for complete 360 degree rotation visibility
- ▶ Dynamic tag can be added to moving parts
- ▶ New ILG 2.0 software



Complete offer | Volume coordinates

Industrial Location SpotPoint 2.0



Receiver

- ▶ Detects reflected infrared light off the tool tag(s) to triangulate the position of the tool.



Tool Transmitter

- ▶ Located above the workstation with the receiver. This device emits an infrared light pattern down on the workstation.



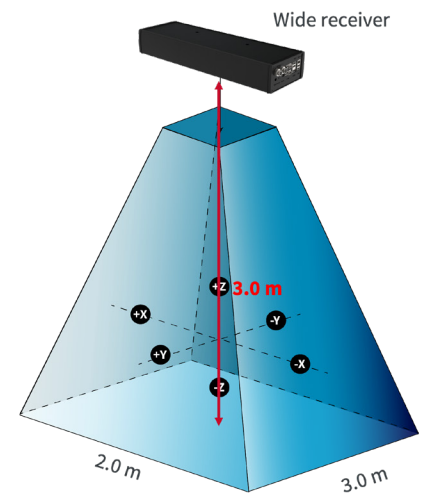
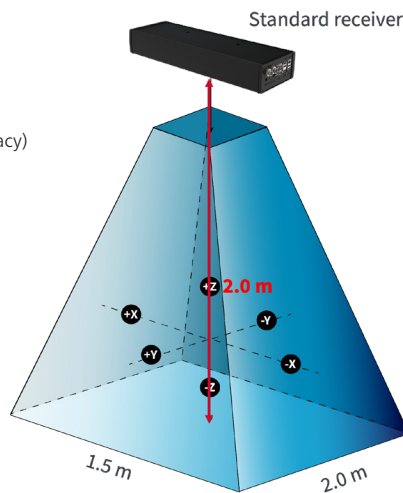
Tool Tag

- ▶ Reflects the infrared light to the receiver so the tool's location can be triangulated.

The tool XYZ coordinates are relative to the receiver mounting position, not a Z = vertical axis standard orientation.

Six degrees of data

- ▶ Position: X, Y, Z (1mm accuracy)
- ▶ Orientation: Pitch, Yaw, Roll (5 degrees accuracy)



	Capability	Z - Axis	X - Axis	Y - Axis
R2S	18mm	2 meter	1 meter	.75 meter
R2W	25mm	2 meter	2 meter	1.5 meter
R3S	18mm	2 meter	1 meter	.75 meter
R3W	25mm	2 meter	2 meter	1.5 meter

- Capability is the target to target sequence verification
- Increased z-distance will increase workarea (max. z-distance is 3 meter)
- Work area envelope can be expanded, by collaboration of 2 receivers

Compatible tools | Compatible controllers

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Compatible tools

Transmitters can be applied to several tool platforms:

Handheld tools

- ▶ Electrical tools
 - ETD, ETV, ETP
- ▶ Low Reaction Tools
 - SRB, TBP
- ▶ Manual STwrench

Fixtured tools

- ▶ Transmitters can also be applied to fixtured tools
 - On torque tubes, arms and/or suspension systems



Compatible controllers

SpotPoint covers different station types thanks to the multiple controllers compatibility:

Power Focus 4000, Power Focus 6000 and Power Focus 8

- ▶ One or multiple tools

Power MACS

- ▶ Single or multiple spindles



Software

The system is capable of multiple software versions that allow several control and process methods.

- ▶ SpotPoint or Remote control
- ▶ Start methods; Batch, Pset, VID, and Scanner
- ▶ Tightening retry and degradation

Ordering numbers

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Part Number	Description
8436677100	ILS Sensor Standard
8436677101	ILS Sensor Wide
8436677110	ILS Target Quad STR-S
8436677111	ILS Target Quad STR-L
8436677112	ILS Target Quad STB-S
8436677113	ILS Target Quad STB-L
8436677114	ILS Target Single ETP
8436677115	ILS Target Single TBP
8436677116	ILS Target Dual ETP
8436677117	ILS Target Dual TBP
8436677120	ILS Target STWrench
8436677121	ILS Target Triple ICB
8436677126	ILS Target Dynamic
8436677127	ILS Target Dynamic 5pcs
8436677140	ILS Tool Matrix ID 00-03
8436677141	ILS Tool Matrix ID 04-07
8436677142	ILS Tool Matrix ID 08-11
8436677143	ILS Tool Matrix ID 12-15
8436677144	ILS Tool Matrix ID 16-19
8436677146	ILS Dynamic Matrix ID 21 5pcs
8436677147	ILS Dynamic Matrix ID 22 5pcs
8436677148	ILS Dynamic Matrix ID 23 5pcs
8436677149	ILS Dynamic Matrix ID 21-23
8436677150	ILS Dynamic Matrix ID 24-26
8436677151	ILS Dynamic Matrix ID 27-29
8436677200	ILG License (El. delivery)
8436677201	ILG License (Physical. delivery)
8436677160	ILG Dynamic (El. delivery)
8436677161	ILG Dynamic (Physical. Delivery)

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