



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)

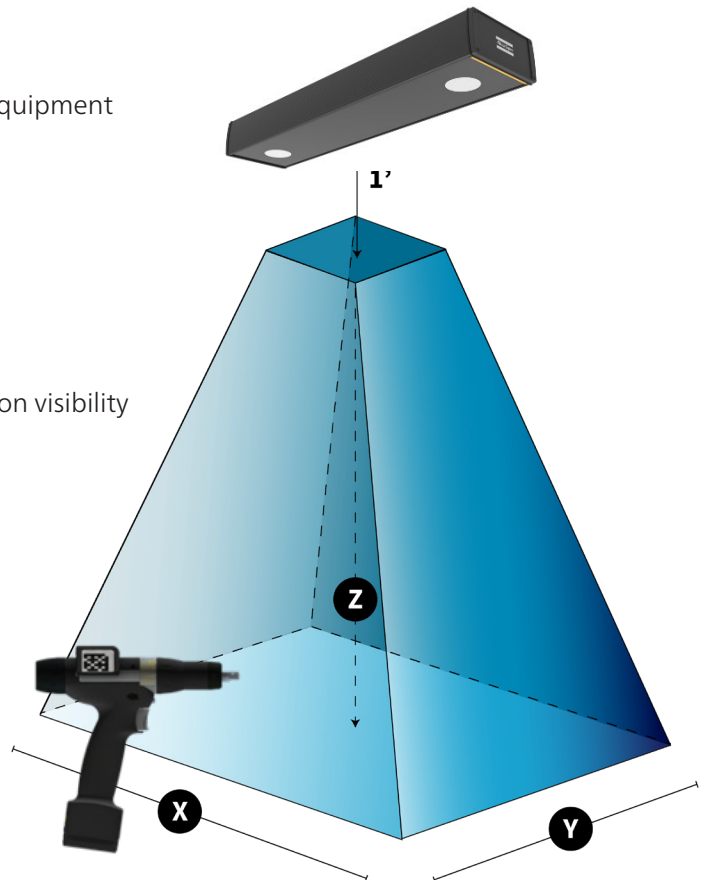


Benefits

- ▶ 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



Sensor

- ▶ The sensor is an Industrial PC with a vision system. It emits an infrared light that is reflected by the tags, and the vision system triangulates its position of the tool or part. The sensor also runs the ILG software, performing all the logics related to tool positioning.

Tool Tag

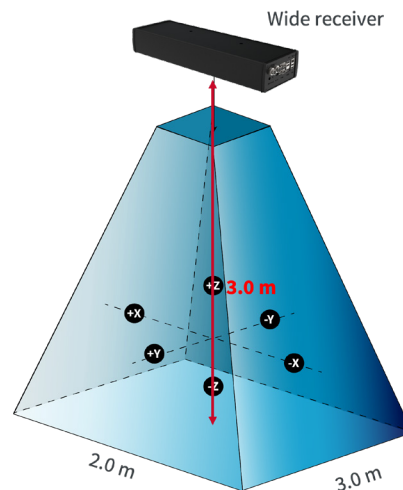
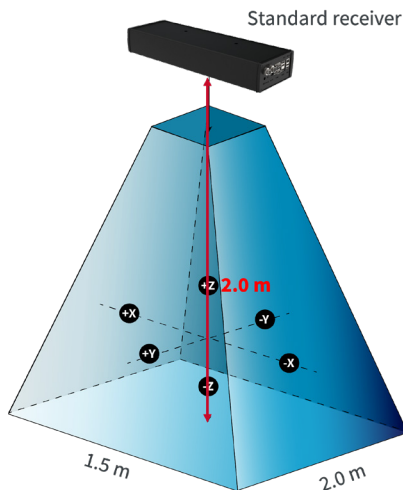
- ▶ The tool tag is a reflective pattern placed on the tool. It works as a reference for the sensor to triangulate the tool position and orientation.



Part Tag

- ▶ The part tag is a reflective pattern placed on the part/pallet. It works as a reference for the sensor to triangulate the part position and orientation so that it can work in continuous moving lines.

The tool XYZ coordinates are relative to the sensor 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)

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

PowerMACS

- ▶ 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
8436 6771 00	ILS Sensor Standard
8436 6771 01	ILS Sensor Wide
8436 6771 10	ILS Target Quad STR-S
8436 6771 11	ILS Target Quad STR-L
8436 6771 12	ILS Target Quad STB-S
8436 6771 13	ILS Target Quad STB-L
8436 6771 14	ILS Target Single ETP
8436 6771 15	ILS Target Single TBP
8436 6771 16	ILS Target Dual ETP
8436 6771 17	ILS Target Dual TBP
8436 6771 20	ILS Target STwrench
8436 6771 21	ILS Target Triple ICB
8436 6771 26	ILS Target Dynamic
8436 6771 27	ILS Target Dynamic 5pcs
8436 6771 40	ILS Tool Matrix ID 00-03
8436 6771 41	ILS Tool Matrix ID 04-07
8436 6771 42	ILS Tool Matrix ID 08-11
8436 6771 43	ILS Tool Matrix ID 12-15
8436 6771 44	ILS Tool Matrix ID 16-19
8436 6771 46	ILS Dynamic Matrix ID 21 5pcs
8436 6771 47	ILS Dynamic Matrix ID 22 5pcs
8436 6771 48	ILS Dynamic Matrix ID 23 5pcs
8436 6771 49	ILS Dynamic Matrix ID 21-23
8436 6771 50	ILS Dynamic Matrix ID 24-26
8436 6771 51	ILS Dynamic Matrix ID 27-29
8436 6772 00	ILG License (El. delivery)
8436 6772 01	ILG License (Physical. delivery)
8436 6771 60	ILG Dynamic (El. delivery)
8436 6771 61	ILG Dynamic (Physical. Delivery)

