

Atlas Copco



# Tensor IxB

Welcome to the  
Smart Factory revolution



# The next generation of assembly tools

The Tensor IxB tool family is ready to be integrated directly into your production system. The tools are fully managed by the integrated controller, without the need for any intermediate controller box.

This reduces the hardware footprint on the line and enables a transformation toward a new, smart, and flexible way of manufacturing.

x2.5

Faster station installation

- 50%

Rebalancing time

+ 30%

Faster tightening





## Ease of use

The Tensor IxB platform is user-friendly and doesn't require extra training to get started. The tools are created to give operators constant visibility of production via an intuitive interface and workstation display. In addition, the systems are designed to enable universal access through web browsers with a familiar interface into other Atlas Copco systems, saving time on training and implementation.



## Easy line adjustments

The Tensor IxB platform is quick to install, easy to rebalance, and simple to maintain. In addition, the integrated controller makes new product introduction faster and line rebalancing easier with complete process control of the station and real-time integration to your production system.



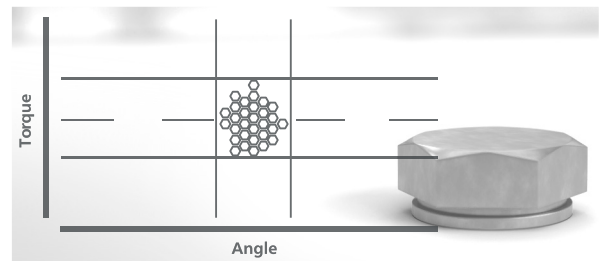
## Continuous production

The Tensor IxB platform improves uptime in challenging connectivity environments. With Tensor IxB tools, continuous production with maintained process control of the workstation is made possible. Furthermore, radio shadows are no longer an issue, as tools can be managed without a wireless connection, preventing unexpected production halts.



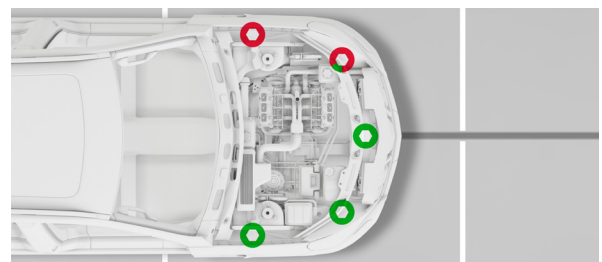
## Accessibility & ergonomics

The Tensor IxB platform offers a revolutionary approach to working in applications that carry inherent ergonomic risks. We have spent significant time researching and developing a tool family that makes your operators lives easier and safer on the line.



## Quality of the joint

The Tensor IxB platform brings production quality to all-new levels. Serving as the most precise cordless tool family in our product portfolio, the Tensor IxB platform is engineered to drive an increase in production quality, along with improved levels of accuracy and control. The integrated controller software gives access to more in-depth data, designed to help investigate and solve tightening issues easier and faster.



## Productivity

The Tensor IxB platform enables a stable, high performance production, along with true operator freedom. Traditional battery tool performance can limit productivity rates compared to cabled tools. Tensor IxB tools are engineered to allow for cordless freedom as they simultaneously providing your operators the productivity of a traditional cabled tool.

# The Tensor IxB family

## Smart. Connected. Scalable.

The Tensor IxB family are handheld and cordless, designed to be lighter, faster, and smaller than previous generation tools. We provide a wide range of tool models, all with an integrated controller platform and a variety of batteries and accessories.

The Tensor IxB family of integrated controller tools consist of mainly three tool models: the Tensor ITB-A, the Tensor ITB-P and the Tensor ICB.

### Installation – up to 2.5x faster

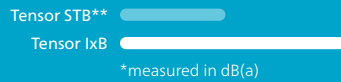


### Software update – up to 70x times faster\*



### Continuous production

#### Connectivity strength – at least 2x better signal\*



#### Number of batch sequences in radio shadow



#### Accuracy



\*\*previous generation of battery tools used with a physical controller box

## Tensor ITB-P

### Productivity, quality and user experience to the next level

Designed with ergonomic excellence, the ITB-P increases productivity during prolonged use through multiple configurable operator feedback: colored front LED, vibrator and embedded display.

ITB-P is key for streamlining your processes and enhancing your overall operations thanks to unrivaled accuracy to secure your most challenging joints.

- Up to 2 times faster than STB
- Operator feedback from the integrated eHMI display
- Reduce operator influence on the angle of the tightening with TrueAngle, an advanced tightening strategy that utilizes a built-in gyroscope
- Optimum operator feedback with vibrator and color front lights





# Tensor ITB-A

## Fast and precise tightening

The Tensor ITB-A, with its wide range of models, is a truly productive cordless nutrunner with a torque range of 1–200 Nm. By integrating the controller intelligence into the tool, the freedom and flexibility is in the hands of the factory operator.

- Up to 30% faster tightening than Tensor STB
- Wide range of models and tool accessories
- Reduce operator influence on the angle of the tightening with TrueAngle, an advanced tightening strategy that utilizes a built-in gyroscope

### Tightening speed – up to 30% faster\*



\*five tightenings on max speed



# Tensor ICB-A

## Accessibility in cramped spaces

The Tensor ICB, a small, ergonomic nutrunner, is specifically designed for space-limited applications.

It can be operated with one hand, and both the trigger and the angle head can be adjusted to fit the need of the application and the operator.

- 360° rotatable angle head and trigger
- 30% lighter and 30% shorter than the previous generation of battery tools
- Operator feedback from the integrated eHMI display
- Reduce operator influence on the angle of the tightening with TrueAngle, an advanced tightening strategy that utilizes a built-in gyroscope



### Accessibility & ergonomics

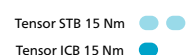
#### Weight incl. battery – 30% lighter



#### Length – 31% shorter



#### One hand to operate



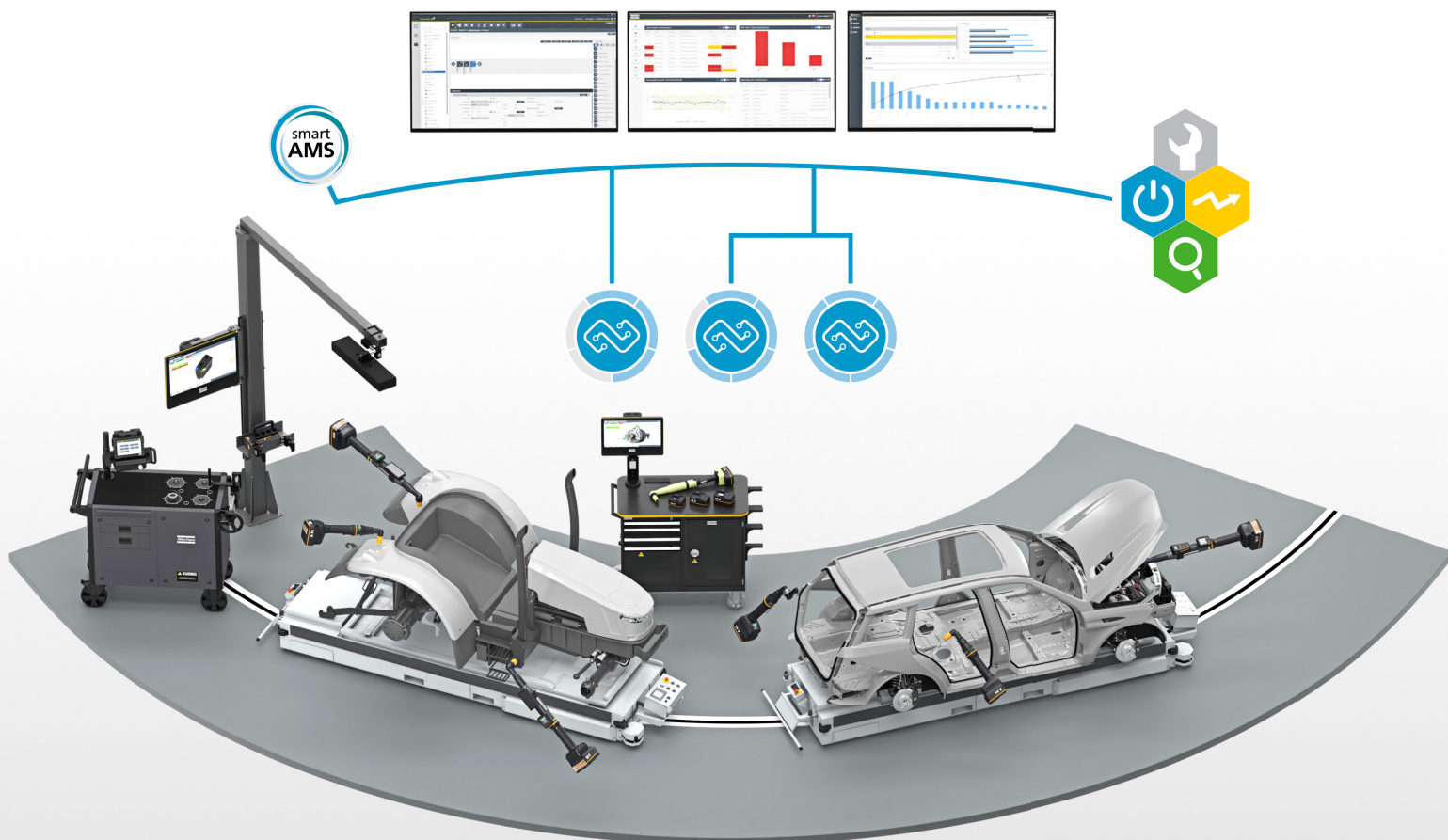
# Easy integration into the Atlas Copco Ecosystem

The **Tensor IxB family of tools** are the first to be integrated directly into the Atlas Copco Ecosystem without any intermediate controller box. Instead, all tightening processes are managed by the integrated controller. The Tensor IxB tools, together with the Atlas Copco Ecosystem, can bring a significant difference to your plant.

The Tensor IxB platform enables major assembly station improvements and reduces costs associated with assembly tools. With Tensor IxB tools, you can increase productivity, ergonomics, and flexibility – three very important elements to consider in today's manufacturing environment of frequent change.

The **Smart Integrated Ecosystem** offers a wide range of solutions, including visualization equipment, positioning solutions, error-proofing accessories, and bolt positioning software. In addition, the Atlas Copco Ecosystem offers station control and operator guidance solutions through Smart AMS and SQS software solutions, along with a complete service portfolio that supports your plant from start up all the way to repair and optimization.

This is **Smart Integrated Assembly** in reality; it simplifies connections, reduces installations, and supports connectivity, visualization, error proofing, and data – all in one package, linked together.



# Ordering numbers

Below, you will find our selection of Tensor IxB tool models and accessories:

Model	Torque range [Nm]	Speed [r/min]	Length [mm]	Ordering number
<b>ITB-A31 (90° Angle nutrunner)</b>				
ITB-A31-05-10	1-5	2972	419.6	8436 0030 05
ITB-A31-10-10	3-12	1270	419.6	8436 0030 10
ITB-A31-15-10	5-15	944	419.6	8436 0030 15
ITB-A31-20-10	5-22	681	453.5	8436 0030 20
ITB-A31-30-10	7-30	480	455.5	8436 0030 30
<b>ITB-A61 (90° Angle nutrunner)</b>				
ITB-A61-25-10	6-28	1294	478	8436 0060 25
ITB-A61-30-10	7-35	977	479.5	8436 0060 30
ITB-A61-40-10	8-40	727	491.5	8436 0060 40
ITB-A61-50-10	10-55	587	491.5	8436 0060 50
ITB-A61-70-13	15-80	424	503.3	8436 0060 70
ITB-A61-100-13	20-100	280	540.3	8436 0060 10
ITB-A61-150-13	30-160	195	576.5	8436 0060 15
ITB-A61-180-13	35-180	171	576	8436 0060 18
ITB-A61-200-20	40-200	171	578	8436 0060 20
<b>ITB-P31 (Pistol grip nutrunner)</b>				
ITB-P31-06-10	1.2-6	1990	209.4	8436 0130 07
ITB-P31-12-10	2.4-12	1480	209.4	8436 0130 13
<b>ICB-A21 (Compact 90° angle nutrunner)</b>				
ICB-A21-07-06	1.4-7	1205	289.6	8436 0020 07
ICB-A21-15-10	4-15	755	300.3	8436 0020 15
ICB-A21-20-10	5-20	580	306.8	8436 0020 20
<b>ICB-A21 (Compact 110° angle nutrunner)</b>				
ICB-A21-15-10-Z	4-15	755	301.8	8436 0016 15
ICB-A21-07-06-Z	1.8-7	1015	301.8	8436 0020 05

Power source solutions	Ordering number
Flex charger	4211 6083 84
Flex charger daisy chain cable	4211 6083 60
14V battery	4211 6130 02
18V battery 2. generation	4211 6130 06
36V battery 2. generation	4211 6130 14*
36V battery 1. generation	4211 6030 86**
Config power adaptor	8438 6061 00

Wireless socket selector	Ordering number
Selector 6 M4	8433 0613 04
Selector 6 M8	8433 0613 08
Selector 6 M8 Bit	8433 0613 09

\* not allowed for: ITB-A61-150, ITB-A61-180, ITB-A61-200  
 \*\* only allowed for: ITB-A61-150, ITB-A61-180, ITB-A61-200

ITB-A tool accessories***	Ordering number
<b>Accessory front lower position</b>	
Dual trigger for open end 135°	8436 6199 20
Adjustable headlights	8436 6199 40
<b>Accessory front upper position</b>	
Dual trigger for open end	8436 6199 10
Front button	8436 6199 30
Barcode scanner	8436 6199 00
Scanner and tag – 2-in-1 (2D) Ubisense D4	8433 5050 10
ILT Tag STR-S	8436 6770 01
<b>Accessory back position</b>	
eHMI ITB	8436 6199 73

Software – electronic delivery	Ordering number
Integrated Controller License	8436 1988 80
Station Control Virtual Station	8436 1960 30
Critical Control Virtual Station	8436 1960 40
Process Control Virtual Station	8436 1960 50
TrueAngle	8436 1910 03
Open Protocol Extension	8436 1950 20
Industrial Location Guidance – ILG	8436 1950 10

\*\*\* Verify the accessory's compatibility to specific IxB models.

