



# ***Power Focus 6000 and Tensor STR***



Reinventing tightening

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*Atlas Copco*

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# REINVENTING TIGHTENING

This all new fastening solution from Atlas Copco takes productivity, ergonomics, quality and environmental impact to entirely new levels. And all this with the most user-friendly experience ever.

Enjoy the benefits of a system providing a unique operator experience, with superior quality control and the most flexible integration. The Power Focus 6000 and Tensor STR is the perfect option for your safety critical assembly processes!

## POWER FOCUS 6000 – designed to deliver

Supporting handheld and fixtured tools, the Power Focus 6000 is designed to make everyday production easier and more efficient.

## TENSOR STR – Innovative and optimized

High-end performance in every detail. The brand new design and motor makes the Tensor STR more ergonomic and faster than ever before. The modular design will allow you to reduce your spare part inventory.





## Main new features

Virtual Station

Common Controller

IAM - Intelligent Application Module

Tensor STR

Two Trigger Tool

Turbo Tight

True Angle

Easy Configuration



# VIRTUAL STATIONS



## Control and overview with Virtual Stations

The Virtual Station is the enabler of your assembly. It controls the tool, the communication and the accessories in your assembly station.

Controlling multiple tools, working with virtual station gives you less cable management, less network connections and less hardware components. You will gain increased flexibility with increased rebalancing speed in your production. Using less hardware will save you up to 80% power consumption – great news for the environment!

## A top notch process and multiple accessories

The Virtual Station keeps all information about your assembly process, giving you an instant overview of what is going on in the production.

**TOOL CONTROL:**  
Making sure your tool is performing correct tightenings for your assembly.

- » Pset selection
- » VIN handling
- » Batch sequence control

**COMMUNICATION CONTROL:**  
Communicating for easy and seamless integration with your production systems.

- » Open Protocol
- » Fieldbus
- » Customer Protocols

**ACCESSORY CONTROL:**  
Taking care of multiple accessories per virtual station.

- » Stacklight
- » Socket selector
- » Digital I/O



# POWER FOCUS 6000

## One Controller

The Power Focus 6000 increases your flexibility in rebalancing assembly lines. Now you are able to connect up to 6 tools to the same controller. Giving you a simpler installation with less cables, hardware components and network connections. Add to that the lower power consumption, less floor space utilization and a much lower environmental footprint, the benefits are obvious.

## One Platform

One platform for handheld and fixtured tools. The Power Focus 6000 reduces your inventory costs and training requirements. Easy to connect and configure back up tools, using the same programming interface. And the Power Focus 6000 will be your common controller for all tools and needs.

## Supported Tools







## IAM – Intelligent Application Module

Intelligence in the palm of your hand. Software, tightening data and configuration – carry all important information with you in a future proof portable module. Easy to upgrade and stable with a rapid back-up function. Two software areas allow for smart software management. Allowing a much safer upgrade process, always giving the possibility to switch between two software versions.



The Common Controller supports the Tensor STR, Tensor SR, Tensor ST, Tensor STB and ST10 REVO.



# *EASY CONFIGURATION*







## Easy and powerful configuration

Power Focus 6000 is easily configured either direct on the large touch screen, or by the web HMI. Simply type the IP address of your Power Focus 6000 in a web browser to access the Web HMI. Remote access in an instant.

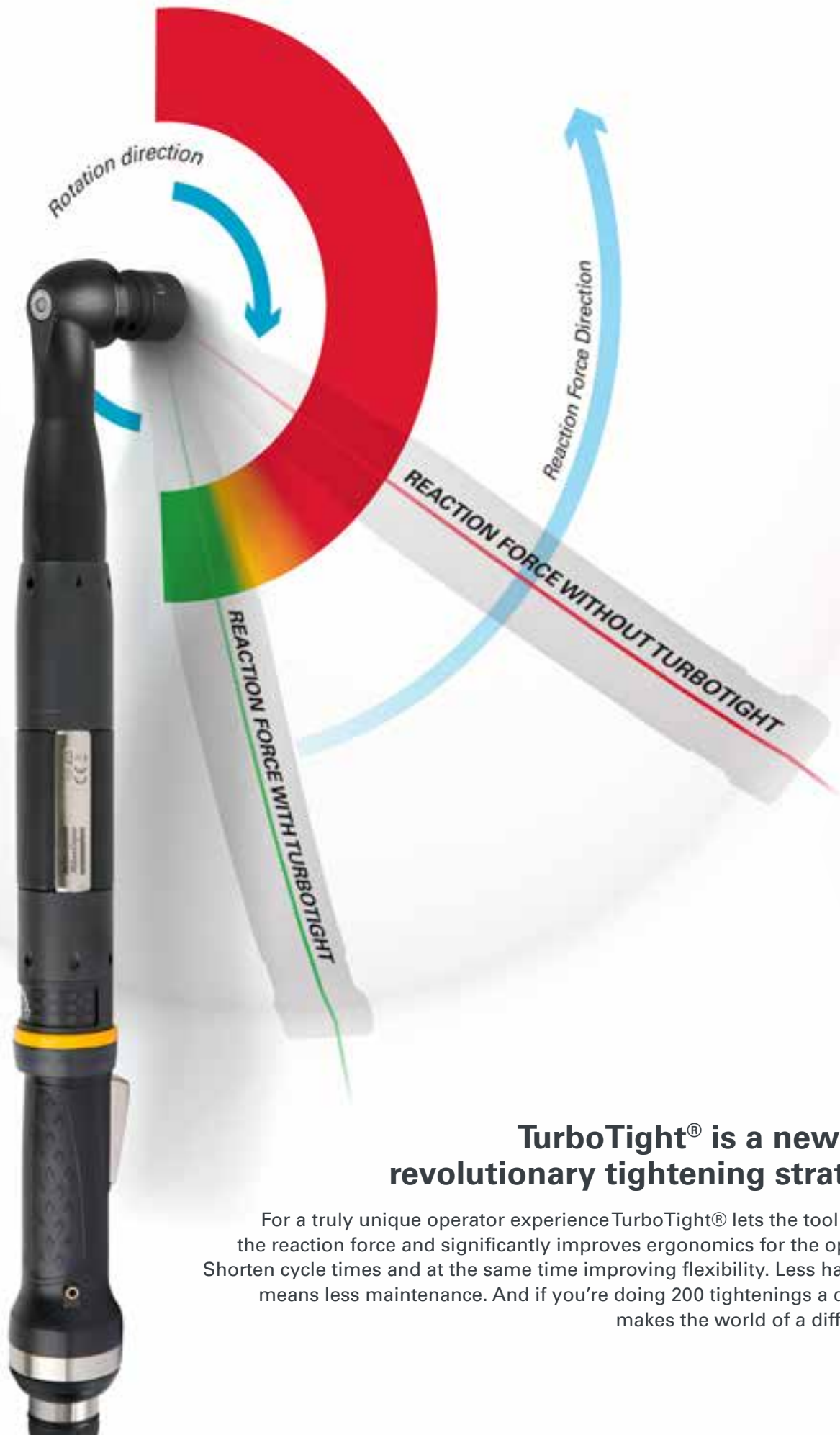
## The next optimized generation

Atlas Copco has developed the next generation Tools Talk 2, to manage larger installation of controllers. The graphic programming interface guides you through the optimization of your configuration.

Both Tools Talk 2 and the Web HMI have been developed by Atlas Copco's User Experience Designers, securing a truly easy and intuitive user interface.



# TURBOTIGHT®



## TurboTight® is a new and revolutionary tightening strategy.

For a truly unique operator experience TurboTight® lets the tool absorb the reaction force and significantly improves ergonomics for the operator. Shorten cycle times and at the same time improving flexibility. Less hardware means less maintenance. And if you're doing 200 tightenings a day that makes the world of a difference.



# TRUEANGLE®



## Increase your quality with TrueAngle®

Eliminating operator influence, TrueAngle® uses a gyro signal to read operator movement, increasing the accuracy of your angle reading. Enabling handheld angle controlled tightenings while removing operator influence. This allows you to narrow down your angle window, and detect the most common assembly problems such as wrong or missing components and damaged threads. Avoid premature shut-offs and detect re-hits. All this will increase your quality and lower costs connected to scrapping and rework.

# TENSOR STR



## Higher productivity with better quality

Meeting your tightening needs with a higher performance and better control than ever. With a strong focus on ergonomics, Tensor STR is giving you better heat dissipation keeping the tool cooler, and higher speed thanks to the new Tensor motor.

Operator productivity is increased thanks to dual accessories capability. You can now connect and power two accessories on the same tool. Inventory for spares and back up tools is reduced

since the modular components that build the base in the Tensor STR tool range are interchangeable between models and sizes. IP54 classifications secures that unwanted particles do not enter into the tool, giving a general increase in robustness and reliability.

Get improved ergonomics, time saving and quality by combining the Tensor STR with The Power Focus 6000 and obtain a new state of the art tightening strategy –TurboTight®.





red dot  
award



# ETT TWO TRIGGER TOOL

## Cycle time savings when two become one!

One-hand applications, traditionally tightened with pulse tools, are now possible thanks to the upper trigger. Tightening with one tool compared to two tools, shortens cycle time and eliminates unnecessary work steps.

Accurate and reliable, the Tensor STRTwo Trigger Tool has a market leading accuracy, thanks to its innovative placement of the transducer. Increasing accuracy to 2,5%. This increases process reliability, minimizing risk for recall and reducing assembly problems.

- 1 Pre-tighten with the upper trigger.
- 2 Tighten to target torque with the lower trigger.

# Tensor STR



Model	CS distance mm	Length mm	Speed r/min	Square drive in	Torque Range		Weight		Ordering No.
					ft.lb	Nm	kg	lb	
ETV STR31-05-10	11	381	3070	3/8	0.7 - 3.6	1 - 5	1.1	2.4	8436 6130 05
ETV STR31-10-10	11	381	1310	3/8	2.2 - 8.8	3 - 12	1.1	2.4	8436 6130 10
ETV STR31-15-10	11	381	975	3/8	3.6 - 10	5 - 15	1.1	2.4	8436 6130 15
ETV STR31-20-10	14	415	705	3/8	3.6 - 16	5 - 22	1.3	2.9	8436 6130 20
ETV STR61-100-13	22.5	501	390	1/2	15 - 80	20 - 100	2.6	5.7	8436 6160 10
ETV STR61-150-13	25.5	537	245	1/2	22 - 117	30 - 160	3.0	6.6	8436 6160 15
ETV STR61-180-13	25.5	543	215	1/2	26 - 133	35 - 180	3.0	6.6	8436 6160 18
ETV STR61-200-20	27	539	215	3/4	30 - 154	40 - 200	3.1	6.8	8436 6160 20
ETV STR61-25-10	14	439	1620	3/8	4 - 20	6 - 28	1.4	3.1	8436 6160 25
ETV STR61-30-10	15.5	441	1220	3/8	5 - 25	7 - 35	1.4	3.1	8436 6160 30
ETV STR61-40-10	18	452	1220	3/8	6 - 29	8 - 40	1.6	3.5	8436 6160 40
ETV STR61-50-10	18	452	735	3/8	7 - 40	10 - 55	1.6	3.5	8436 6160 50
ETV STR61-70-13	20	464	530	1/2	10 - 58	15 - 80	2.1	4.6	8436 6160 70
ETV STR61-30-10-BL	15.5	441	1220	3/8	5 - 25	7 - 35	1.5	3.3	8436 6169 31
ETV STR61-40-10-BL	18	452	1220	3/8	6 - 29	8 - 40	1.7	3.7	8436 6169 41
ETV STR61-50-10-BL	18	452	735	3/8	7 - 40	10 - 55	1.7	3.7	8436 6169 51
ETV STR61-70-13-BL	20	464	530	1/2	10 - 58	15 - 80	2.2	4.8	8436 6169 71
ETD STR31-05-10	24	388	3645	3/8	0.7 - 3.6	1 - 5	1.0	2.2	8436 6230 05
ETD STR31-10-10	24	388	1555	3/8	1.4 - 7.3	2 - 10	1.2	2.6	8436 6230 10
ETD STR61-15-10	24	438	2500	3/8	3 - 12	4 - 16	1.4	3.1	8436 6260 15
ETD STR61-20-10	24	438	1890	3/8	3.6 - 16	5 - 22	1.4	3.1	8436 6260 20
ETD STR61-30-10	24	429	1130	3/8	4.4 - 25	6 - 35	1.4	3.1	8436 6260 30
ETD STR61-50-13	24	474	819	1/2	7.3 - 40	10 - 55	2.0	4.4	8436 6260 50
ETD STR61-70-13	26.5	491	560	1/2	12 - 58	15 - 80	2.3	5.1	8436 6260 70
ETD STR61-90-13	26.5	491	440	1/2	15 - 70	20 - 95	2.3	5.1	8436 6260 90
ETP STR61-120-13	26.5	298	380	1/2	17.7 - 89.4	24 - 125	2.0	4.41	8436 6360 12
ETP STR61-20-10	24	244	2100	3/8	3.7 - 16.2	5 - 22	1.3	2.87	8436 6360 20
ETP STR61-20-106	24	244	2100	1/4	3.7 - 16.2	5 - 22	1.3	2.87	8436 6360 21
ETP STR61-30-10	24	244	1530	3/8	4.4 - 23.5	6 - 32	1.3	2.87	8436 6360 30
ETP STR61-50-13	24	282	820	3/8	7.4 - 40.6	10 - 55	1.7	3.75	8436 6360 50
ETP STR61-70-13	26.5	298	560	1/2	10.3 - 59	14 - 80	2.0	4.41	8436 6360 70
ETP STR61-90-13	26.5	298	450	1/2	14.7 - 70.4	20 - 95	2.0	4.41	8436 6360 90
ETP STR61-120-13 COT	26.5	350	380	1/2	17.7 - 89.4	24 - 125	2.4	5.29	8436 6368 12
ETP STR61-20-10 COT	24	296	2100	3/8	3.7 - 16.2	5 - 22	1.7	3.75	8436 6368 20
ETP STR61-30-10 COT	24	296	1530	3/8	4.4 - 23.5	6 - 32	1.7	3.75	8436 6368 30
ETP STR61-50-13 COT	24	334	820	3/8	7.4 - 40.6	10 - 55	2.1	4.63	8436 6368 50
ETP STR61-70-13 COT	26.5	350	560	1/2	10.3 - 59	14 - 80	2.4	5.29	8436 6368 70
ETP STR61-90-13 COT	26.5	350	450	1/2	14.7 - 70.4	20 - 95	2.4	5.29	8436 6368 90
ETT STR61-20-10	24	384	1690	3/8	3 - 15	4 - 20	1.6	3.6	8436 6660 20
ETT STR61-30-10	24	384	1300	3/8	4 - 22	6 - 30	1.6	3.6	8436 6660 30
ETT STR61-40-10	24	384	1015	3/8	6 - 30	8 - 40	1.7	3.7	8436 6660 40
ETT STR61-50-10	24	384	780	3/8	7 - 37	10 - 50	1.7	3.7	8436 6660 50





Model	Ordering No.
Extention Cable Power Focus 6000/600	
Flat All Tools 10M	4220 4393 10
Flat All Tools 3M	4220 4393 03
Flat All Tools 5M	4220 4393 05
Flat All Tools 15M	4220 4393 15
<b>Tool Cables Power Focus 6000</b>	
Flat SR/STR 10M	4220 4375 10
Flat SR/STR 15M	4220 4375 15
Flat SR/STR 2M	4220 4375 02
Flat SR/STR 3M	4220 4375 03
Flat SR/STR 5M	4220 4375 05
Flat SR/STR 7M	4220 4375 07
<b>Tool Accessories*</b>	
2D Scanner STR - L	8436 6199 02
2D Scanner STR - S	8436 6199 00
Protection Cover ETT STR61 20/30/40/50	4220 5195 00
Front Button STR - L	8436 6199 32
Front Button STR - S	8436 6199 30
Headlight STR - L	8436 6199 42
Headlight STR - S	8436 6199 40
Lower Ring STR - L	8436 6199 62
Lower Ring STR - S	8436 6199 60

Model	Ordering No.
Mounting Bracket	4080 1431 00
Mounting Bracket ETT	4080 1430 80
Scanner ETP STR61	8436 0999 90
Scanner Protection Cover	4220 4824 00
Selector ETP STR61	8436 0999 91
Swivelling Suspension Yoke	4220 5070 80
Trigger 135 STR - L	8436 6199 22
Trigger 135 STR - S	8436 6199 20
Trigger Top STR - L	8436 6199 12
Trigger Top STR - S	8436 6199 10
Upper Ring STR - L	8436 6199 52
Upper Ring STR - S	8436 6199 50
<b>Power Focus</b>	
Power Focus 6000	8436 1800 02
Power Focus 6000 IP54	4222 1769 90
Power Focus 6000 Fan	4222 1599 90
Power Focus 6 Mounting stand	4222 1736 80
PF6 Cable Seal	4222 1736 03
PF6 Mounting Stand	4222 1736 80
PF6 Adapter Plate	4222 1783 80

Model	Ordering No.
Anybus CC - Profinet	8436 0940 20
Anybus CC - Devicenet	8436 0940 10
Anybus CC - Ethernet IP 2P	8436 0940 15
IAM Process Control	8436 0910 40
IAM Process Plus Control	8436 0910 50
Virtual Station 1 pcs	8436 1900 01
TurboTight 1pcs	8436 1910 02
TrueAngle 1pcs	8436 1910 03

\*S = For STR61 up to 50 Nm, L = For STR 70 Nm and over.





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