

The Atlas Copco logo is displayed in white text on a blue rectangular background. The text is flanked by two horizontal white bars, one above and one below.The background of the entire page is a photograph of a mobile assembly station in a factory. The station is a black metal cart with yellow accents and a large touchscreen monitor. The monitor displays a 3D CAD model of a mechanical part with various data points and a color-coded status bar. The cart is positioned in front of a white car chassis. In the bottom left corner, there is a blue triangular graphic containing a technical drawing of a circular component with various dimensions and labels.

The Assembly Tower

The mobile and customizable complete assembly solution with minimal footprint

The Assembly Tower

The mobile and customizable complete assembly solution with minimal footprint

The Assembly Tower is a complete, mobile Industry 4.0 workstation for battery tools. It operates fully autonomously and does not require any cumbersome cabling. A complete solution made specifically for you, it can be tailored to the exact requirements of your assembly process, giving you a fully customized solution. Thanks to process safety, data collection and the traceability of the tightening results, the Assembly Tower is a vital addition to production in any smart factory. And because the agile tower can be used throughout all assembly cycles, it is just as suitable for one-piece flow production as it is for series assembly.

The smart tower is compact, lightweight and ergonomic and can be configured for use with all Atlas Copco battery assembly tools to suit your requirements. A rugged aluminum base frame forms the backbone of our flexible and mobile assembly station, designed to meet the challenges posed by an ever-changing production environment.

The ability to share assembly data is essential for manufacturing at a smart factory.



Atlas Copco Tools supplies the Assembly Tower as a true Industry 4.0 solution for prototyping, rework and repair stations, and operator training too. The mobile, smart and versatile assembly station comes with the following features, and more:

- + Comprehensive error proofing
- + Product assembly status queries
- + Documentation within the running manufacturing process
- + Connecting assembly stations
- + Transparency and process safety
- + Traceability of the assembly results

All in a handy format and with minimal space requirements.



The modern Industry 4.0 solution

We asked **users** what problems and challenges they previously faced in production before they started using the Assembly Tower.

The added value of using Atlas Copco solutions is summarized in the second column:

Challenge/problem

Added value/solution

Effort to set up a new installation and restructure the line

Battery-powered tower without external cabling

Different applications and tightening positions with different tools

Mobile and autonomous tower

Process reliability and documentation of an assembly process

On-board operator guidance for error proofing and optional database system

Special assembly applications and frequently changing production line lay-out

Customization and easy scalability

Different requirements depending on the joint category

Cordless tools for all joint categories and torque ranges, clearly bundled together in a compact and mobile workstation



Mobile Assembly Station

The Mobile Assembly Station is the flexible solution for Industry 4.0-compliant manufacturing with cable tools.

Features

- ✔ Station with customizable configuration
- ✔ Central workstation
- ✔ High level of process safety thanks to on-board operator guidance for error prevention and optional database system
- ✔ Suitable for prototyping, flexibility/mobility, rework stations, repairs, and training



Assembly Tower

The Assembly Tower is the flexible and mobile solution for Industry 4.0-compliant manufacturing with cordless tools.

Features

- ✔ Cordless freedom of movement for flexible manufacturing processes and mobile
- ✔ Central and mobile workstation
- ✔ Station with customizable configuration
- ✔ High level of process safety thanks to on-board operator guidance for error prevention and optional database system
- ✔ Puts an end to cumbersome cabling

Prototyping

Prototyping is one of the most demanding phases in the manufacturing process. It is the first time that all the components are put together and are supposed to work according to the specifications. That means a lot of different processes have to be reviewed, and operator guidance and flexibility are critical.

You need a system that guides operators through prototyping with clear and visual instructions and that documents all the processes as well.

Prototyping covers a very broad range of tasks. Using the Assembly Tower gives operators the flexibility to carry out all tightenings. The Assembly Tower provides all required battery tools and accessories in a compact and mobile workstation.

Rework station

If there is a defect in the assembly process, rework may be required. In many cases, there is a process break at

the rework station, as simple manual click-wrenches are often used for rework. As the entire manufacturing process is networked, you can transfer information about a defect to a reworking station. And the Assembly Tower provides just the station you need. It guides the operator through the process and assures the best possible results for rework. Of course, you can correct a defect anywhere along the line, as the Assembly Tower gives you the freedom of a cordless system. On the move, it monitors and controls the rework process and guides the operator through the process to correct mistakes. The Assembly Tower is your process-safe, flexible solution with full documentation for preventing errors during rework.

Flexible production

If you have a large range of product variants, you need flexible production. The Assembly Tower is the perfect complete solution to meet the range of requirements for specific joints. It provides the widest range of cordless assembly tools on the smallest possible footprint. Flexibili-

ty is key. The mobile tower can be moved from one workstation to the next with minimal effort, making it perfect for customized assembly and stand-alone production. The Assembly Tower is also compatible with Atlas Copco tool location solutions. For example, tools can be locked outside of their designated workstations, and you can also locate the tool with bolt level accuracy in order to avoid incorrect joints.

Repairs

In the case of repairs, service or maintenance work, defined industry standards often have to be complied with. No Problem for the Assembly Tower. It supports you to meet these requirements and document the work accordingly. Atlas Copco operator guidance supports the operator in repair and maintenance cases. During the process, the ToolsNet8 software records all the relevant tightening data and guarantees the highest possible repair and maintenance standards thanks to documentation and analysis.

Training and demonstrations

Given its flexibility and mobility, the Assembly Tower is ideal for training and demonstrations. As it provides a range of tools and software solutions in a compact space, it can be used to demonstrate various different production scenarios effectively.

Features & benefits

As the Assembly Tower comes with customizable configuration options, it always offers the ideal custom solution for all the challenges you face in production.

Scalable high-quality solution

SQS3 is an overall software solution that improves quality, process safety and transparency, as well as product safety in your manufacturing systems. It guides your operators through the assembly process and leaves no room for error or omission.

Industrial PC

The industrial PC Assembly Control Node (AC Node) visualizes optimized process control on a 21.5-inch display.

One controller for any tool

The Power Focus 6000 connects practically all smart assembly tools from Atlas Copco, giving you a single platform assembly solution. Whether simple shut-off clutch tools, mechatronic click wrenches or fully traceable battery tools: Power Focus 6000 is the perfect option for your smart connected assembly operation.

Batteries

Two rugged, lightweight and hot-swappable rechargeable lithium iron batteries ensure that the Assembly Tower works completely independent off the mains for up to 8 hours without any cabling or power connection. You can also easily change the battery without restarting the tower.

Tool location solutions

The Tower can be used with different tool location systems. These systems assure that a tool is in a specific area or its specific tightening position.

Tool holders

Depending on your needs, tool holders are mounted on the sides to keep your tools within easy reach and safely stored.

Storage tray

Storage tray for additional components and accessories.

Tools

The Assembly Tower provides the perfect combination exactly according to your needs, with Atlas Copco cordless tools covering a wide range of features and torques from 1 to 4000 Nm.

Mobility

Four sturdy, free-moving casters make the Assembly Tower fully mobile. The casters can also be fixed for a firm stand via a locking function.

Designed to be flexible, made to be mobile:

The Assembly Tower offers maximum added value in minimum floorspace

The Mobile Assembly Tower is ideal for all your assembly challenges thanks to its wide range of configuration options. The assembly station delivers flexibility and maximum added value with the smallest possible footprint. A rugged base frame on four casters is the solid foundation that can be expanded with multiple configurations, tools and accessories to meet your exact requirements.

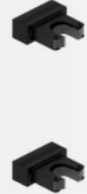
Configuration +



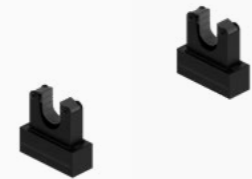
Article number: 1280 9606 44
Side holder for high-torque nutrunners >500 Nm



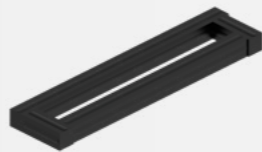
Article number: 1280 9606 48
Side holder for angle nutrunner



Article number: 1280 9606 46
Vertical holder for STwrench



Article number: 1280 9606 47
Horizontal holder for an STwrench or MWR wrench



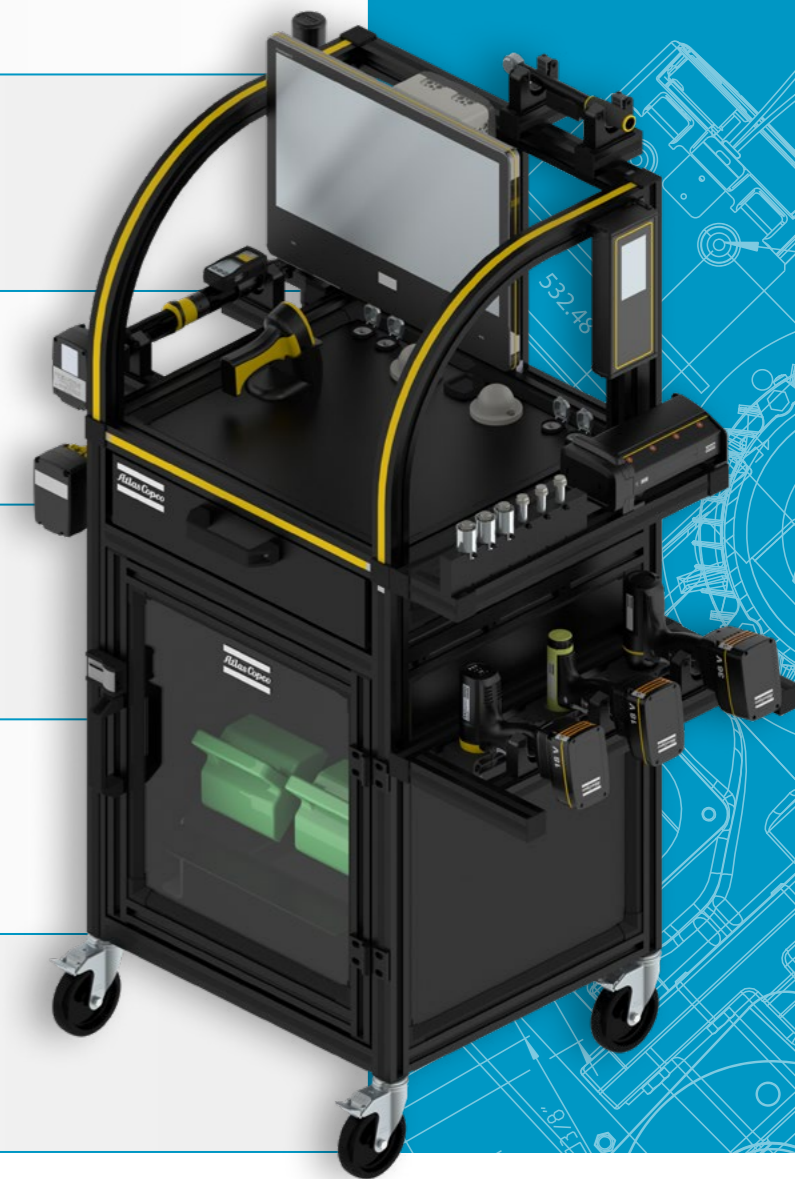
Article number: 1280 9606 49
Option: Holder for socket selector and test joint



Article number: 1280 9606 45
Side holder for up to three pistol grip tools



+ Tools



Assembly Tower

Article number: 1280 9606 38
Black (aluminum frame on casters with integrated battery and AC Node with SQS)



Info:
Tools and controller to be ordered separately



More options

Article number: 1280 9606 39
Option: Wireless scanner

Article number: 12809 606 40
Option: Keyboard

Article number: 1280 9606 41
Option: Wifi interface

The 6 steps to your Assembly Tower

The Assembly Tower is customized precisely to your needs. By adapting to the challenges you face in manufacturing, you get a true Industry 4.0 solution.

6 simple steps
to your individual Assembly Tower

Clarify your requirements
and challenges with us

Find specifications of our solutions
(tools, software and accessories)
that can meet your
requirements and challenges

Customized configuration of
the Assembly Tower



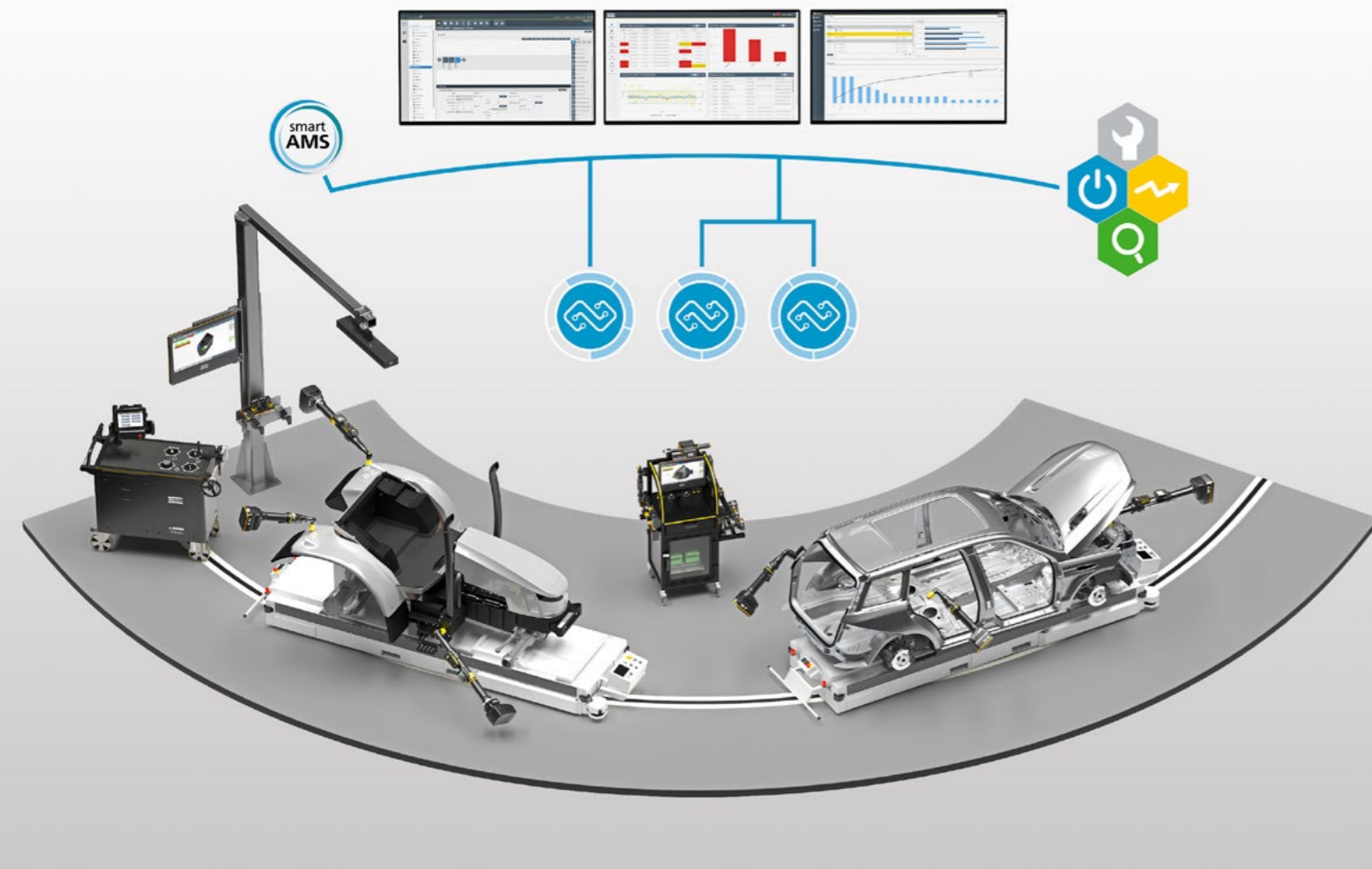
Non-binding offer
based on the configuration

Order your
personal
Assembly Tower

Delivery and
commissioning
on site

The Assembly Tower

Production line assembly must become simple and agile



As part of our smart connected ecosystem for assembly, we offer complete workstation solutions with visualization devices, positioning solutions, and overall accessories for error proofing, and more. Atlas Copco also offers software solutions for the collection and analysis of assembly data for quality assurance and for parameterization in a global environment. Furthermore, we do also supply solutions for operator guidance and process control with **Smart AMS** (Smart Assembly Management System) and **SQS** (Scalable Quality Solution) solu-

tions, providing simple and fast integration into your IT system landscape.

We can support you with a broad portfolio of services in this area – from commissioning to repairs and maintenance to production optimization.

Simple integration into the Atlas Copco ecosystem

As part of a complete ecosystem for all aspects of Smart Connected Assembly, the Assembly Tower allows you to increase the flexibility and mobility of assembly processes in a constantly changing work environment.

Smart Connected Assembly in practice:

Easy configuration, fast setup and connection, visualization, error prevention, quality assurance, plus data acquisition, analysis and use – all in one package.

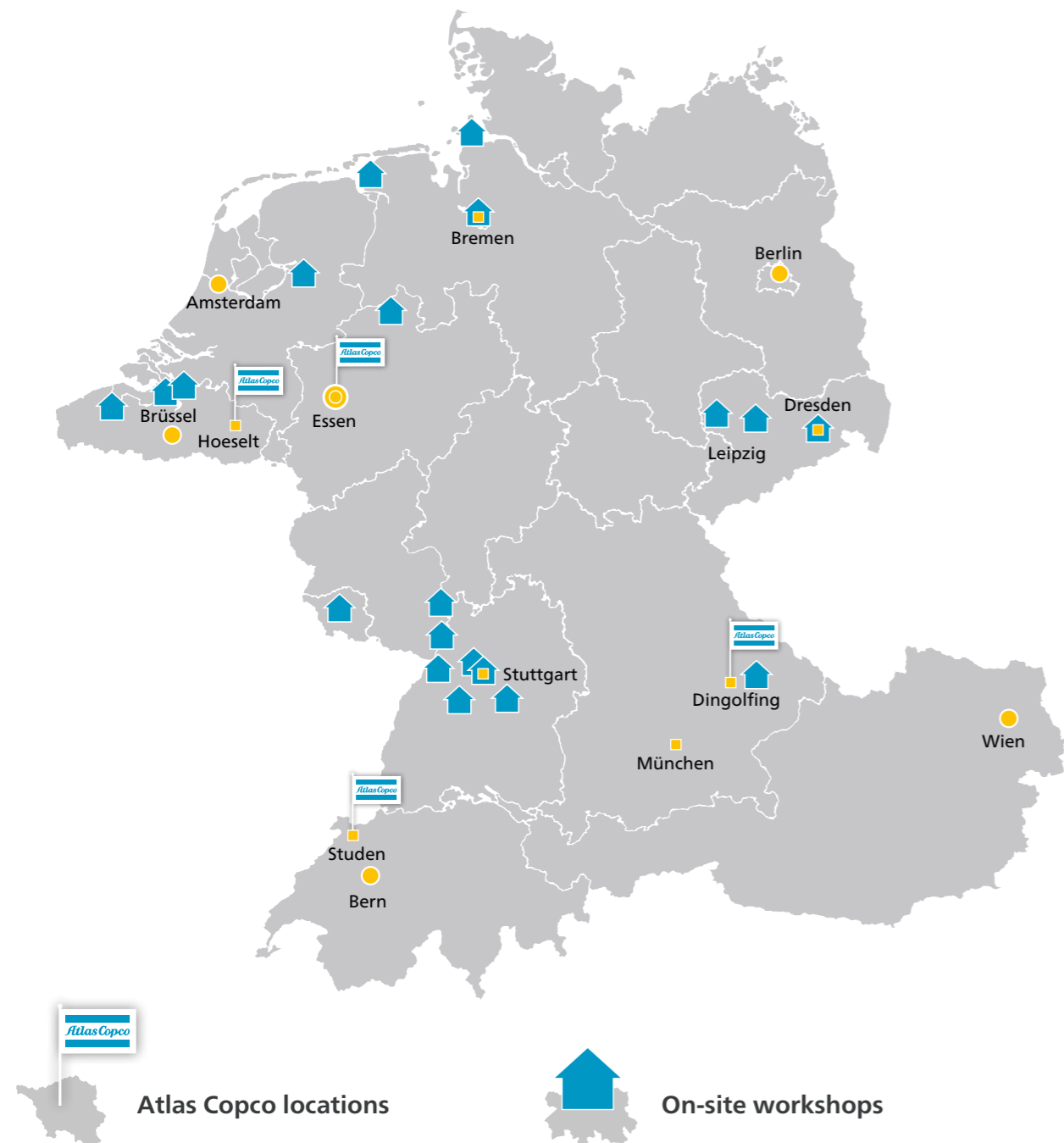


Scan the QR code for more information on the Assembly Tower.

<https://www.atlascopco.com/nl-nl/itba/local/industrial-tightening-technique-assembly-tower>



Our service locations



Over 20 service locations in Germany, Austria, Switzerland, Belgium and the Netherlands



Independent consulting with a planning team of more than **10 specialists**



DAkks (German accreditation body) accreditation according to **DIN EN ISO/IEC 17025 & VDI/VDE 2645-2**



Quality management certification according to **ISO 9001**



300 service employees, including more than **150 technicians**

Atlas Copco Service helps you get the best value from your investment

Every production line and every industrial site is unique with its own challenges. That is why our service solutions are designed to help you achieve the best results from your production plant. We combine production data analysis with know-how and technical experience, increasing your productivity and quality while maximizing cost efficiency when it comes to maintenance.

For all our tools and systems, we provide a wide range of services, such as:

- Commissioning, testing and programming of your tightening systems
- Optimized maintenance solutions for extended tool service life, more sustainable product quality and improved cost-efficiency
- Operator trainings for systems and products
- Tightening Services – our offering for optimizing your tightening results

Atlas Copco provides service worldwide

- We are present around the globe and can provide support for every step of your assembly processes, anywhere.
- We provide support with standard service products, as well as with customized service solutions.

Contact us!

As your dedicated assembly partner, Atlas Copco has the technology you need to meet the production challenges of today and tomorrow. Our smart connected assembly systems will meet all your requirements and make sure that you always stay one step ahead of your competitors.





Atlas Copco Tools Central Europe GmbH

Langemarckstrasse 35

D – 45141 Essen

tools.de@atlascopco.com

www.atlascopco.com

