

MTRwrench

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Valid from Serial No. -

Safety Information

MTRwrench



WARNING

To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool **MUST** read and understand these instructions before performing any such task.

DO NOT DISCARD - GIVE TO USER

Atlas Copco

This document is applicable to the below models:

Model	Part Number
MTRwrench 25	8439004801
MTRwrench 50	8439004802
MTRwrench 85	8439004803
MTRwrench 200	8439004804

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Technical Data

Environmental Conditions

Indoor use only	
Altitude	Up to 2000 m
Ambient temperature range	+5 to +40 °C (+41 to +104 °F)
Maximum relative humidity	80 % for temperatures up to 31 °C decreasing linearly to 50 % relative humidity at 40 °C

Product Data

Operating torque range	from 20% to 100% of the ca- pacity
Torque measurement accu- racy (within the operating torque range)	1%
Mechanical repeatability click	± 3%
Overload capacity	150 % of nominal capacity
Maximum angular speed	250 °/s
Angle measurement accuracy	± 3.6 ° / 360 ° (at 6 ° per sec- ond)
Temperature stability of torque measurement	+10 °C to +40 °C (10 °F to 104 °F)
Tightening results memory capacity	10000 (maximum)
Power supply	Rechargeable NiMH AA bat- tery 1900mAh 1.2V

Compatible Battery

A rechargeable NiMH AA battery (1900 mAh, 1.2 V) provides power to the MTRwrench.

-  The tool is compatible with above mentioned rechargeable batteries.

It is recommended to use the rechargeable batteries with part number
4027 0048 20.

-  **WARNING Never try to recharge non-rechargeable batteries! Non-rechargeable batteries may leak when charging. They can explode and cause risk of fire and injuries.**

Radio Module Frequencies

-  Refer to the local Regulatory Domain for frequency selection.

Europe

Number	Channel	Frequency [MHz]	Data rate [bit/s]
1	51	868.044	19200

Number	Channel	Frequency [MHz]	Data rate [bit/s]
2	52	868.088	19200
3	53	868.132	19200
4	54	868.176	19200
5	55	868.221	19200
6	56	868.265	19200
7	57	868.309	19200
8	58	868.353	19200
9	59	868.397	19200
10	60	868.442	19200
11	61	868.486	19200
12	62	868.530	19200
13	63	868.744	19200
14	64	868.788	19200
15	65	868.832	19200
16	66	868.876	19200
17	67	868.921	19200
18	68	868.965	19200
19	69	869.009	19200
20	70	869.053	19200
21	71	869.097	19200
22	72	869.142	19200
23	73	869.444	19200
24	74	869.488	19200
25	75	869.532	19200

USA, CANADA

Number	Channel	Frequency [MHz]	Data rate [bit/s]
1	1	902.132	19200
2	2	902.176	19200
3	3	902.220	19200
4	4	902.264	19200
5	5	902.308	19200
6	6	902.352	19200
7	7	902.396	19200
8	8	902.440	19200
9	9	902.484	19200
10	10	902.528	19200
11	11	902.572	19200
12	12	902.616	19200
13	13	902.660	19200
14	14	902.704	19200
15	15	902.748	19200
16	16	902.792	19200
17	17	902.836	19200
18	18	902.880	19200
19	19	902.924	19200
20	20	902.968	19200
21	21	903.012	19200

Number	Channel	Frequency [MHz]	Data rate [bit/s]	Number	Channel	Frequency [MHz]	Data rate [bit/s]
22	22	903.056	19200	123	123	925.400	19200
23	23	903.100	19200	124	124	925.600	19200
24	24	903.144	19200	125	125	925.800	19200
25	25	903.188	19200	126	126	926.000	19200
26	26	903.232	19200	127	127	926.200	19200
27	27	903.276	19200	128	128	926.400	19200
28	28	903.320	19200	129	129	926.600	19200
29	29	903.364	19200	130	130	926.800	19200
30	30	903.408	19200	131	131	927.000	19200
31	31	903.452	19200	132	132	927.200	19200
32	32	903.496	19200	133	133	927.400	19200
33	33	903.540	19200	134	134	921.390	19200
34	34	903.584	19200	135	135	921.519	19200
35	35	903.628	19200	136	136	921.648	19200
36	36	903.672	19200	137	137	921.777	19200
37	37	903.716	19200	138	138	921.906	19200
38	38	903.760	19200	139	139	922.036	19200
39	39	903.804	19200	140	140	922.165	19200
40	40	903.848	19200	141	141	922.294	19200
41	41	903.892	19200	142	142	922.423	19200
42	42	903.936	19200	143	143	922.552	19200
43	43	903.980	19200	144	144	922.681	19200
44	44	904.024	19200	145	145	922.810	19200
45	45	904.068	19200	146	146	922.939	19200
46	46	904.112	19200	147	147	923.068	19200
47	47	904.156	19200	148	148	923.198	19200
48	48	904.200	19200	149	149	923.327	19200
101	101	922.552	19200	150	150	923.456	19200
102	102	922.681	19200	151	151	922.600	19200
103	103	922.810	19200	152	152	922.800	19200
104	104	922.939	19200	153	153	923.000	19200
105	105	923.068	19200	154	154	923.200	19200
106	106	923.198	19200	155	155	923.400	19200
107	107	923.327	19200	156	156	923.600	19200
108	108	923.456	19200	157	157	923.800	19200
109	109	922.600	19200	158	158	924.000	19200
110	110	922.800	19200	159	159	924.200	19200
111	111	923.000	19200	160	160	924.400	19200
112	112	923.200	19200	161	161	924.600	19200
113	113	923.400	19200	162	162	924.800	19200
114	114	923.600	19200	163	163	925.000	19200
115	115	923.800	19200	164	164	925.200	19200
116	116	924.000	19200	165	165	925.400	19200
117	117	924.200	19200	166	166	925.600	19200
118	118	924.400	19200	167	167	925.800	19200
119	119	924.600	19200	168	168	926.000	19200
120	120	924.800	19200	169	169	926.200	19200
121	121	925.000	19200	170	170	926.400	19200
122	122	925.200	19200	171	171	926.600	19200

Number	Channel	Frequency [MHz]	Data rate [bit/s]
172	172	926.800	19200
173	173	927.000	19200
174	174	927.200	19200
175	175	927.400	19200

For initial applications, the MTRwrench uses a sub-band ranging from channel 1 to 48

2.4 GHz band channels

Number	Channel	Frequency [MHz]
2011	11	2405
2012	12	2410
2013	13	2415
2014	14	2420
2015	15	2425
2016	16	2430
2017	17	2435
2018	18	2440
2019	19	2445
2020	20	2450
2021	21	2455
2022	22	2460
2023	23	2465
2024	24	2470
2025	25	2475
2026	26	2480

Declarations

Liability

Many events in the operating environment may affect the tightening process and shall require a validation of results. In compliance with applicable standards and/or regulations, we hereby require you to check the installed torque and rotational direction after any event that can influence the tightening result. Examples of such events include but are not limited to:

- initial installation of the tooling system
- change of part batch, bolt, screw batch, tool, software, configuration or environment
- change of air- or electrical connections
- change in line ergonomics, process, quality procedures or practices
- changing of operator
- any other change that influences the result of the tightening process

The check should:

- Ensure that the joint conditions have not changed due to events of influence.
- Be done after initial installation, maintenance or repair of the equipment.

- Occur at least once per shift or at another suitable frequency.

EU DECLARATION OF CONFORMITY

We, **Atlas Copco Industrial Technique AB**, SE-105 23 STOCKHOLM SWEDEN, declare under our sole responsibility that the product (with name, type and serial number, see front page) is in conformity with the following Directive(s): **2011/65/EU (RoHS), 2014/53/EU (RED), 2015/863/EU (RoHS amendment)**

Harmonized standards applied:

EN 301489-1 V2.2.3; EN 301489-3 V2.3.2; EN 301489-17 V3.2.4; EN 300328 V2.2.2; EN 300220-1 V3.1.1; EN 300220-2 V3.2.1; EN IEC 61326-1:2021; IEC 61326-1:2020; EN 62479:2010

Authorities can request relevant technical information from: Product Compliance Manager, Atlas Copco Industrial Technique AB, SE-105 23 Stockholm Sweden

Stockholm, 31 January 2025

Lars Eklöf, Managing Director

Signature of issuer

UK DECLARATION OF CONFORMITY

We, **Atlas Copco Industrial Technique AB**, SE-105 23 STOCKHOLM SWEDEN, declare under our sole responsibility that the product (with name, type and serial number, see front page) is in conformity with the following UK Regulation(s):

S.I. 2017/1206

Designated Standards applied:

BS EN 301489-1 V2.2.3; BS EN 301489-3 V2.3.2; BS EN 301489-17 V3.2.4; BS EN 300328 V2.2.2; BS EN 300220-1 V3.1.1; BS EN 300220-2 V3.2.1; BS EN IEC 61326-1:2021; BS IEC 61326-1:2020; BS EN 62479:2010

Authorities can request relevant technical information from: Product Compliance Manager, Atlas Copco Industrial Technique AB, SE-105 23 Stockholm Sweden

Stockholm, 31 January 2025

Lars Eklöf, Managing Director

Signature of issuer

**UK
CA**

Authorised Representative UK

James McAllister, General Manager
 Atlas Copco Ltd
 Swallowdale Lane
 Hemel Hempstead
 Hertfordshire HP2 7EA

WEEE

Information concerning **Waste of Electrical and Electronic Equipment (WEEE)**:

This product and its information, meets the requirements of the WEEE directive/regulations (2012/19/EU), and must be handled in compliance with the directive/regulations.

The product is marked with the following symbol:



Products marked with a crossed-out wheeled bin symbol and a single black bar underneath, contain parts that must be handled in compliance with the WEEE directive/regulations. The entire product, or the WEEE parts, can be sent to your "Customer Center" for handling.

FCC and ISCED Compliance Statement

This device complies with Part 15 of the FCC Rules. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device is only in compliance if no changes or modifications are made to the device.

The device is in compliance with the requirement for RF exposure in the US with 20cm separation distance between the user and the device. The antenna is fixed to the device and no change in antenna or fixation of the antenna is acceptable and such modification is considered to violate the Compliance Statement.

FCC Responsible party:

Name: Rodney Hill

Position: Product Marketing Manager

Address: 3301 Cross Creek Parkway
 MI 483 26 Auburn Hills

United States

Mobile: +1 919 272 7837

Email: rodney.hill@us.atlascopco.com

FCC ID: 2AIPFMTR

- i** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

ISED Compliance Statement:

This device complies with: CAN ICES-1(A)/NMB-1(A)

(English) This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

(French) Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

(English) This equipment complies with RSS102's radiation exposure limits set forth for an uncontrolled environment under the following conditions:

- (1) This equipment should be installed and operated such that a minimum separation distance of 20cm is maintained between the radiator (antenna) and user's/nearby person's body at all times.
- (2) This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

(French) Cet équipement est conforme aux limites d'expositions de la CNR102 applicables pour un environnement non contrôlé aux conditions suivantes:

- 1) Cet équipement devra être installé et fonctionner de telle manière qu'une distance minimale de séparation de 20cm soit maintenue entre la partie rayonnante (l'antenne) et l'utilisateur / les personnes à proximité à tout moment.
- 2) Cet émetteur ne doit pas être co-localisé ou opérer en conjonction avec toute autre antenne ou émetteur.

Company Name: Woodstar Inc

Contact Name: Stephane Mercure

Street Address: 46 chemin du Faisan, Saint Sauveur, Quebec, Canada, J0R R1R

Telephone No: 514-667-6868

Fax No: 514-6676870

Email: ms@woodstar.ca

IC_ID: 21556-MTR

RF Exposure Statement

This portable transmitter has been tested and found to comply with FCC General Population RF Radiation Exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. The antenna used for this device must not be co-located or operating in conjunction with any other antenna or transmitter.

Radio interference

This is a class A product. In a domestic environment this product may cause radio interference.

Information regarding Article 33 in REACH

The European Regulation (EU) No. 1907/2006 on Registration, Evaluation, Authorization and restriction of Chemicals (REACH) defines among other things requirements related to communication in the supply chain. The information requirement applies also to products containing so called Substances of Very High Concern (the "Candidate List"). On 27 June 2018 lead metal (CAS nr 7439-92-1) was added to the Candidate List.

In accordance with the above this is to inform you that certain electrical components in the product may contain lead metal. This is in compliance with current substance restriction legislation and based on legit exemptions in the RoHS Directive (2011/65/EU). Lead metal will not leak or mutate from the product during normal use and the concentration of lead metal in the complete product is well below the applicable threshold limit. Please consider local requirements on the disposal of lead at product end of life.

Regional Requirements

WARNING

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to

<https://www.p65warnings.ca.gov/>

Safety

DO NOT DISCARD - GIVE TO USER

WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

Save all warnings and instructions for future reference.

WARNING All locally legislated safety rules regarding installation, operation and maintenance shall be respected at all times.

Statement of Use

- For professional use only.

- This product and its accessories must not be modified in any way.
- Do not use this product if it has been damaged.
- If the product data or hazard warning signs on the product cease to be legible or become detached, replace without delay.
- The product must only be installed, operated and serviced by qualified personnel in an industrial environment.

Intended Use

The only recommended use is that specified by the manufacturer.

This product is intended for tightening operations. No other use permitted.

Do not use while charging.

General Power Tool Safety Warnings

WARNING Read all safety warnings, instructions, illustrations and specifications provided with this product.

Failure to follow all instructions listed below may result in electric shock, fire, property damage and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.
- **Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring.** Fasteners contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

Power tool use and care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.

- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Battery tool use and care

- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Product Specific Instructions

Safety Information

This product is intended for tightening operation and quality control test. No other use permitted. For professional use only.

 **WARNING** Overloading the wrench can cause structure breaking, which could cause serious injury.

⚠ WARNING Wrong end fitting tools or extensions can cause a sudden wrench release, which could cause serious injury.

⚠ WARNING Never try to recharge non-rechargeable batteries! Non-rechargeable batteries may leak when charging. They can explode and cause risk of fire and injuries.

⚠ WARNING All locally legislated safety rules regarding installation, operation and maintenance shall be respected at all times.

i For additional safety information consult:

- Other documents and information packed with this tool
- <http://servaidweb.atlascopco.com>
- Your employer, union and/or trade association
- <http://www.osha.gov> (USA)
- <http://europe.osha.eu.int> (Europe)

Operation

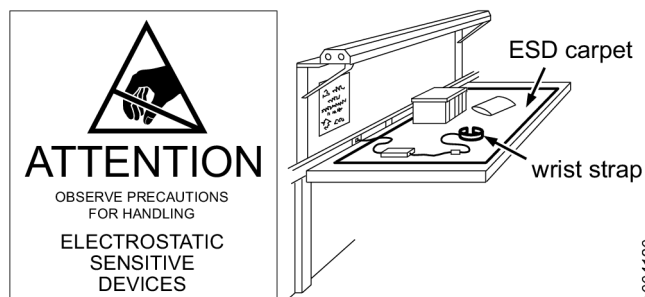
Operating the Wrench

Refer to the Product Instructions of MTRwrench.

Service and Maintenance

Preventing ESD Problems

The components inside the product and controller are sensitive to electrostatic discharge. To avoid future malfunction, make sure that service and maintenance is carried out in an ESD approved work environment. The figure below shows an example of an appropriate service work station.



Cleaning

Keep the MTRwrench clean.

After use, remove any traces of oil and grease from the MTRwrench with a soft cloth and a soft surface cleaner for oil/grease. Do not use aggressive or abrasive cleaner.

Use an anti-static cleaning cloth in order to remove dust from the MTRwrench.

Avoid using harsh detergents to clean the MTRwrench.

Clean the contact of the MTRwrench by using an electrical contact cleaner solution.

Signs and Stickers

The product is fitted with signs and stickers containing important information about personal safety and product maintenance. The signs and stickers shall always be easy to read. New signs and stickers can be ordered by using the spare parts list.



s011050

Information on Environmental Labeling of Packaging

Material	Abbreviation	Numbering
High density polyethylene	HDPE	2
Polyvinyl chloride	PVC	3
Low density polyethylene	LDPE	4
Polypropylene	PP	5
Polystyrene	PS	6
Polyurethane	PU	7
Corrugated fibre-board	PAP	20
Non-corrugated fibreboard	PAP	21
Paper	PAP	22
Wood	FOR	50
Paper and fibre-board/plastic	C/PAP	81

EU [Decision 129/97/EC](#).

Useful Information

ServAid

ServAid is a portal that is continuously updated and contains Technical Information, such as:

- Regulatory and Safety Information
- Technical Data
- Installation, Operation and Service Instructions
- Spare Parts Lists
- Accessories
- Dimensional Drawings

Please visit: <https://servaid.atlascopco.com>.

For further Technical Information, please contact your local Atlas Copco representative.

Original instructions



Atlas Copco

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Liability.

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environmentally friendly paper.