

# MAMMOOTH

MMT A170 703

## ELECTRIC IMPACT WRENCH



Intertek



CE



**WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

# Safety instructions

## 1. General safety instructions for power tools



Warning! Read all safety warnings and instructions. Failure to follow the safety instructions and instructions can result in electric shock, fire and / or serious injury.

Retain all safety notices and instructions for future use.

The term “power tool” used in the safety instructions refers to mains-operated power tools (with a power cord) and to battery-operated power tools (without a power cord).

### 1). Job security

- a) Keep your work area clean and well-lit. Cluttered or unlit work areas can lead to accidents.
- b) Do not work with the power tool in an explosive environment in which there are flammable liquids, gases or dust. Power tools generate sparks that can ignite the dust or fumes.
- c) Keep children and other people away while using the power tool. If you are distracted, you can lose control of the device.

### 2). Electrical safety

- a) The power tool connector must match the socket. The plug must not be modified in any way. Do not use adapter plugs with protective earthed power tools. Unmodified plugs and matching sockets reduce the risk of electric shock.
- b) Avoid body contact with earthed surfaces such as pipes, heaters, stoves and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c) Keep power tools away from rain or moisture. Water getting into a power tool increases the risk of electric shock.
- d) Do not misuse the cable to carry the power tool, to hang it up or to pull the plug from the socket. Keep the cord away from heat, oil, sharp edges, or moving parts of the device. Damaged or tangled cables increase the risk of electric shock.
- e) If you work with a power tool outdoors, only use extension cables that are also suitable for outdoor use. Using an extension cord suitable for outdoor use will reduce the risk of electric shock.
- f) If operating the power tool in a damp environment cannot be avoided, use a residual current circuit breaker. The use of a residual current circuit breaker reduces the risk of an electric shock.

### 3). Personal safety

- a) Be attentive, pay attention to what you are doing, and use your common sense when working with a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while using the power tool can result in serious injury.
- b) Wear personal protective equipment and always protective goggles. Wearing personal protective equipment, such as a dust mask, non-slip safety shoes, hard hat or hearing protection, depending on the type and use of the power tool, reduces the risk of injuries.
- c) Avoid unintentional start-up. Make sure that the power tool is switched off before you connect it to the power supply and / or the battery, pick it up or carry it. Accidents can occur if you have your finger on the switch while carrying the power tool or if you connect the device to the power supply when it is switched on.

- d) Remove adjustment tools or wrenches before switching on the power tool. A tool or wrench in a rotating part of the device can cause injuries.
  - e) Avoid abnormal posture. Make sure you have a secure stance and keep your balance at all times. This gives you better control of the power tool in unexpected situations.
  - f) Wear suitable clothing. Do not wear baggy clothes or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothing, jewelry or long hair can be caught in moving parts.
  - g) If dust extraction and collection devices can be fitted, ensure that they are connected and used correctly. Using a dust extractor can reduce dust hazards.
- 4). Use and treatment of the power tool
- a) Do not overload the device. Use the power tool designed for your work. With the right power tool, you can work better and more safely in the specified performance range.
  - b) Do not use a power tool with a defective switch. A power tool that can no longer be switched on or off is dangerous and must be repaired.
  - c) Pull the plug out of the socket and / or remove the battery before making device settings, changing accessories or putting the device away. This precaution prevents the power tool from starting accidentally.
  - d) Keep unused power tools out of the reach of children. Do not allow people to use the device who are not familiar with it or who have not read these instructions. Power tools are dangerous when used by inexperienced people.
  - e) Maintain power tools with care. Check whether moving parts are working properly and not jamming, whether parts are broken or damaged in such a way that the function of the power tool is impaired. Have damaged parts repaired before using the device. Many accidents are caused by poorly maintained power tools.
  - f) Keep cutting tools sharp and clean. Carefully maintained cutting tools with sharp cutting edges are less likely to jam and are easier to guide.
  - g) Use the power tool, accessories, tool bits etc. in accordance with these instructions. Take into account the working conditions and the work to be performed. The use of power tools for purposes other than those for which they are intended can lead to dangerous situations.

5). Service

Have your power tool repaired only by qualified specialists and only with original spare parts. This ensures that the safety of the power tool is maintained.

2. Residual Risks

Even if you operate this power tool properly, there are always residual risks. The following dangers can arise in connection with the construction and design of this power tool:

Damage to health resulting from hand-arm vibrations if the power tool is used over a long period of time or is not properly operated and maintained.



Warning! This power tool generates an electromagnetic field during operation. This field can, under certain circumstances, affect active or passive medical implants. To reduce the risk of serious or fatal injuries, we recommend people with medical implants to consult their doctor and the manufacturer of the medical implant before operating the machine!

## Device specific safety instructions

- Hold the power tool by the insulated gripping surfaces when performing an operation where the fastener may touch hidden wires or its own wire. Fasteners that come in contact with a "live" wire can "electrify" exposed metal parts of the power tool and cause an electric shock to the operator.
- Do not use the power tool with a damaged cord. Do not touch the damaged cable and pull the power plug if the cable is damaged during work. Damaged cables increase the risk of electric shock.
- Secure the workpiece. A workpiece held in place with clamping devices or a vice is held more securely than with your hand.
- Wait until the power tool has come to a standstill before putting it down. The accessory tool can get caught and lead to loss of control of the power tool.

## Technical data

Model	MMT A170 703
Voltage / Frequency	230 - 240 V~ (AC) / 50 Hz
Power	450 W
Idle speed	3600 min <sup>-1</sup>
Chuck size	1/2" (13 mm)
Maximum torque (clockwise)	100 N.m.
Maximum torque (counterclockwise)	320 N.m.
Sound pressure level, L <sub>pA</sub>	89 dB (A), k=3dB
Sound power level, L <sub>WA</sub>	100 dB (A), k=3dB
Vibration, a <sub>h</sub>	9,74 m/s <sup>2</sup> , k=1,5 m/s <sup>2</sup>
Protection class	II 

The specified total vibration value and the specified noise emission values have been measured according to a standardized test method and can be used to compare one power tool with another. They can also be used for a preliminary assessment of exposure.



Warning! Depending on how you use the power tool, the actual vibration values may differ from those specified.

Take measures to protect yourself against vibration exposure. Try to keep the exposure to vibrations and noise as low as possible. Examples of measures to reduce vibration exposure are wearing gloves when using the tool, limiting working hours and using accessories that are in good condition

Take into account the entire work process, including times when the power tool is working without load or when it is switched off.

Suitable measures include regular maintenance and care of the power tool and tool attachments, keeping your hands warm, regular breaks and good planning of work processes.

# Explanation of symbols



Read these operating instructions carefully before using the electrical impact wrench.



Double insulation for added security.



Warning for your caution.



The meaning of the crossed-out garbage can: Do not dispose of electrical devices in the household waste, use the collection points in your community. Ask your local authority about the location of the collection points, If electrical devices are disposed of in an uncontrolled manner, dangerous substances can get into the groundwater and thus into the food chain during weathering, or flora and fauna can be poisoned for years. If you replace the device with a new one, the seller is legally obliged to accept the old one for disposal at least free of charge



Corresponds to the prescribed safety regulations



Wear protective goggles!



Wear hearing protection!



Wear a dust mask!

# Description



1. Tool holder
2. Soft grip
3. On / Off switch
4. Direction setting Key

# Assembly and operation

## Tool change

Before starting any work on the power tool, pull the power plug out of the socket. When inserting a socket, make sure that it is firmly seated on the tool holder. If the socket is not firmly connected to the tool holder, it may loose again and can not work properly.

Push the socket the square of the tool holder.

## Operation

### Functionality

The tool holder with the tool is driven by an electric motor via a gearbox and hammer mechanism.

The work process is divided into two phases: screwing and tightening (striking mechanism in action).

The hammer mechanism kicks in as soon as the screw connection gets stuck and the motor is loaded. The hammer mechanism converts the power of the motor into uniform rotary impacts. When loosening screws or nuts, this process is reversed.

Overloading the motor is not possible because the striking mechanism disengages when the rated load is reached.

### Installation

Pay attention to the mains voltage! The voltage of the power source must match the information on the rating plate of the power tool. Power tools marked with 230 V can only be operated with 230 V.

### Set the direction of rotation

With the direction of rotation switch you can change the direction of rotation of the power tool. However, this is not possible when the on / off switch is pressed.

#### 1. Right run:

Press the direction switch to the right as far as it will go.

#### 2. Left rotation:

Push the direction switch to the left as far as it will go.

### Switching on / off

To start up, press and hold the on / off switch.

To switch off, release the on / off switch.

### Set the speed

You can continuously regulate the speed of the switched-on power tool, depending on how far you press the on / off switch.

Light pressure on the on / off switch results in a low speed. The speed increases with increasing pressure.

### Preselect speed

You can also use the speed preselection dial to preselect the required speed during operation.

### Maintenance

Keep the air slots and the motor housing as free of dust and dirt as possible.

Wipe the device with a clean cloth or blow it out with compressed air at low pressure. Excessive accumulation of metal dust can cause electricity to be conducted from the internal parts to exposed metal parts!

If the power tool's power cord is damaged, it must be replaced with a specially prepared power cord that is available from the customer service organization.

## Work instructions

Only put the power tool on the nut / screw when it is switched off, otherwise the rotating tool bits may slip off.

The torque depends on the duration of the impact. The maximum torque achieved results from the sum of all individual torques achieved through impacts. The maximum torque is reached after a stroke duration of 3-5 seconds. After this time, the tightening torque only increases slightly. On the other hand, the gear housing may heat up heavily.

Note: The consequences of excessive heating may cause high wear and tear on all hammer mechanism parts and require high lubricant.

The impact duration must be determined for each required tightening torque. The tightening torque actually achieved must always be checked with a torque wrench.

Screw connections with a hard, springy or soft seat

If the torques achieved in a sequence of impacts are measured in the experiment and transferred to a diagram, the curve of a torque curve is obtained. The height of the curve corresponds to the maximum achievable torque, the steepness shows the time in which this is achieved.

A torque curve depends on the following factors:

- Strength of the screws / nuts
- Type of base (washer, disc spring, seal)
- Strength of the material to be screwed
- Lubrication conditions on the screw connection

The following use cases result accordingly:

- A hard seat is provided for screw connections from metal to metal when using washers. The maximum torque is reached after a relatively short impact time (steep characteristic curve). Unnecessarily long striking times only damage the machine.
- A Resilient fit is given for screw connections from metal to metal, but when using spring washers, disc springs, studs or screws / nuts with a conical seat and when using extensions.
- A soft fit is given for screwing of metal on wood, or use of lead or fiber washers as a base.

With a springy or soft seat, the maximum tightening torque is lower than with a hard seat. A significantly longer impact time is also required.

Renewal of accessories

Worn or damaged accessories must be replaced immediately.



Use only sharp and undamaged accessories.

To remove the accessories, proceed as described in the relevant section.

To attach the accessories, proceed as described in the relevant section.

Guide values for maximum screw tightening torques

Use the following table to determine the correct torque for different screw sizes.

Screw Size	Torque
M 10 - M12	40 - 80 N.m.
M 12 - M16	100 - 200 N.m.
M 14 - M16	120 - 200 N.m.
M 18 - M24	200 - 350 N.m.

## Disposal



The product, its accessories and packaging must be disposed of separately for environmentally friendly recycling

For EU countries only

Do not dispose of power tools with household waste. In accordance with European Directive 2002/96 / EC for electrical and electronic scrap and the introduction to national law, power tools that are no longer in use must be collected separately and disposed of in an environmentally friendly manner.

IT	Dichiarazione di conformità CE		SK	Prehľadzenie o zhode ES
DE	EG - Konformitätserklärung		SI	ES izjava o skladnosti
FR	Declaration de conformité CE		HU	CE-megfelelőségi nyilatkozat
UK	EC declaration of conformity		RO	Declarație de conformitate CE
CZ	Prohlášení o shodě EU		BA/HR	EG – izjava o konformnosti
PL	Deklaracja zgodności WE			

Warszawa 05.07.2021

**Inter Cars S.A.**  
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- IT** Con la presente dichiariamo che l'articolo di seguito descritto, in base alla sua concezione e costruzione ed alla messa in circolazione da parte della è conforme ai requisiti fondamentali di sicurezza e salute delle direttive CE.
- DE** Hiermit erklären wir, dass der nachfolgend beschriebene Artikel aufgrund seiner Konzipierung und Bauart sowie in der von in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits-und Gesundheitsanforderungen der EG- Richtlinien entspricht.
- FR** Avec la présente nous déclarons que l'article décrit ci-après répond en matière de conception et de construction ainsi que dans son modèle commercialisé par la aux exigences fondamentales de sécurité et sanitaires et aux directives communitaires applicables.
- UK** We herewith declare that the following product complies with the appropriate basic safety and health requirements of the EC directives based on its design and type, as brought into circulation.
- CZ** Tímto prohlašujeme že následovně popsane zboží svou koncepcí a konstrukcí rovněž i provedením, jenž bylo dáno do prodeje společností, odpovídá příslušným základním bezpečnostním a zdravotním požadavkům směrnic EU.
- PL** Niniejszym deklarujemy iż niżej określony artykuł, w formie wprowadzonej na rynek przez, spełnia ze względu na projekt i konstrukcję podstawowe wymagania bezpieczeństwa pracy oraz ochrony zdrowia narzucone przez dyrektywy WE.
- SK** Týmto prehlasujeme že nasledovne popisovaný tovar na základe svojho návrhu a konštrukcie, ako aj prevedenia uvedeného spoločnosťou do prevádzky, in zdravotvenim zahtevam, ki so v skladnosti z EU smernicami.
- SI** S tem izjavljamo mi da je opisani proizvod na osnovi njegove naslove in vrste konstrukcije kot tudi pri prodajo spuščena izvedba odgovarja temeljnim varnostnim in zdravstvenim zahtevam, ki so v skladnosti z EU smernicami.
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- BA/HR** Ovim izjavljujemo da u slijedećem opisanu proizvod na osnovu njegovog koncipiranja i načina gradnje kao i izlaganja izdanog od odgovara jasnim, osnovnim sigurnosnim i zdravstvenim zahtjevima EG smjernica.

<b>IT</b> Prodotto	<b>SK</b> Produktu	<b>COD</b>	MMT A170 703
<b>DE</b> Produkttyp	<b>SI</b> Proizvoda	<b>NAME</b>	Electric Impact Wrench
<b>FR</b> Produit	<b>HU</b> Termek típusa	<b>USE</b>	HOBBY / DOMESTIC
<b>UK</b> Product	<b>RO</b> Termek típusa		
<b>CZ</b> Produktu	<b>BA/HR</b> Termek típusa		
<b>PL</b> Produktu			

<b>IT</b> Direttive CE	<b>SI</b> Uporabljene ES smernice	2006/42 / EC 2014/30 / EU
<b>DE</b> Anwendbare EG-Richtlinien	<b>HU</b> EU Műszaki Irányelvek	
<b>FR</b> Directives CE applicables	<b>RO</b> Directive UE aplicabile	
<b>UK</b> Applicable EC directives	<b>BA/HR</b> EG – smjernice	
<b>CZ</b> Směrnice EU		
<b>PL</b> Dyrektywy WE		
<b>SK</b> Aplikovateľné smernice EU		

<b>IT</b> Norme armonizzate applicate	<b>SK</b> Použité harmonizované normy	EN 62841-1:2015+AC: 15 EN 62841-2-2:2014 EK9-BE-88:2014 EN 55014-1:2006/+A1:2009/+A2:2011 EN 55014-2:2015 EN 61000-3-2:2014 EN 61000-3-3:2013
<b>DE</b> Angewandte harmonisierte normen	<b>SI</b> Uporabljeni usklajeni normativi	
<b>FR</b> Normes armonisées applicables	<b>HU</b> Alkalmazott harmonizált szabványok	
<b>UK</b> Applicable harmonized standards	<b>RO</b> Norme armonizate aplicabile	
<b>CZ</b> Aplikované harmonizační normy	<b>BA/HR</b> Primijenjene harmonizirajuće norme	
<b>PL</b> Zastosowane zharmonizowane normy		

*Daniel Pokala*

guaranteed by Inter Cars S.A. ul. Powsińska 64, 02-903 Warszawa

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