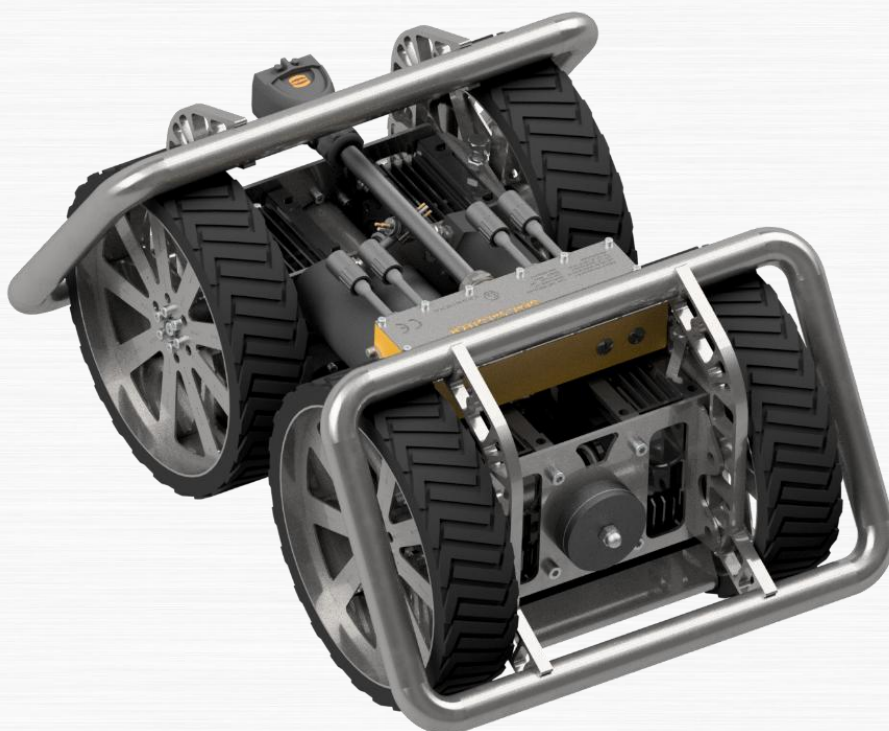


USER MANUAL



**MADE BY
DERC**

MAGTRACK Magnetic cleaning robot

M.MAGTRACK.E

**Manufacturer**

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**Version of document**

Version 5.2

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INTRODUCTION

Thank you for purchasing the DERC MAGTRACK. Working with high-pressure equipment can be dangerous. Therefore, it is in your interests to read the safety regulations in this user manual thoroughly and follow all instructions carefully.

This manual describes the use, maintenance and repair of the DERC MAGTRACK. The information in this manual is important for the safe and proper functioning of the magnetic cleaning robot

If you are not familiar with the installation, preventive maintenance, etc. of the DERC MAGTRACK, please read through this user manual carefully from start to finish. Always keep this manual as a reference. You can quickly find the information you need using the table of contents.

In this user manual, the words DERC MAGTRACK and 'robot' and 'equipment' are used interchangeably. All of these words refer to the DERC MAGTRACK. This also applies to the words user manual, document and user's guide; all these words refer to this document and its annexes. The words 'machine' and 'installation' denote the DERC MAGTRACK.

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1. USING THE MANUAL

This manual has been written for authorized and technically-qualified persons. Tasks have only been assigned to specific persons (technically qualified or not) in the chapters 'maintenance' and 'configuration'. All concerned parties must familiarize themselves with the contents of this user manual. These persons are distinguished as follows:

Authorized persons are people who: Have built up a certain level of knowledge via schooling or training and who have enough experience to operate the machine.

Technically qualified persons are people who: Are technically qualified and have sufficient technical knowledge via schooling and/or on-the-job experience. Further, these persons are, due to their knowledge of mechanics, well aware of possible risks and dangers (a mechanic, for example).

The word 'operate' means: Configuring the machine, working with the equipment and performing simple maintenance activities. The aim/purpose of this user manual is to create safe and efficient interactions between people and the machine.

1.1 Guarantee

The guarantee conditions and the conditions concerning liability can be found in the supply conditions (Metal Union, submitted to the Registry at the District Court in Rotterdam).

1.2 Safety regulations

- ✓ Safety is the first priority! Everyone is responsible for a safe, clean and well-lit workplace. Immediately report danger and/or dangerous situations to your supervisor.
- ✓ DERC Salotech advises you to train operators and maintenance personnel to operate, maintain and troubleshoot for this equipment.
- ✓ Operators must be at least 18 years old. Only personnel authorized by the equipment manager may operate this machine or perform activities in the proximity of the machine.
- ✓ It is strictly recommended that operators are familiar with the directives laid down by your national branch organization, and that they also possess the required certificates and have sufficient experience with high pressure equipment.
- ✓ It is paramount that the user is well aware, via training and/or experience (legally recognized), of high-pressure technology, high pressure cleaning and all accompanying safety measures – which must be implemented in full.
- ✓ Never use high pressure apparatus with a maximum working pressure that is lower than the maximum working pressure of the high-pressure unit.
- ✓ Use clean water with an advised maximum temperature of 40°C (110°F), in order to prevent cavitation.
- ✓ Provide a minimum filtration of 1 µm for the water, to prevent clogging and rapid wear of the nozzles and seals.
- ✓ Never point the jet at people or animals. A high-pressure liquid jet enters deep into the skin and can lead to serious wounds, permanent injury and even death. Anyone who is struck by a high-pressure water jet must always seek immediate professional medical care.

- ✓ All personnel assigned the task of operating the machine must be able to demonstrate that they have read and understood the parts of the user manual that describe the machine's operation and safety considerations.
- ✓ All personnel assigned the task of assembling, putting into operation, maintaining and/or repairing the machine must be able to demonstrate that they have read and understood the entire manual.
- ✓ The user(s) of the machine is (are), under all circumstances, responsible for the interpretation and use of the manual. In cases of doubt, contact the supplier/manufacturer.
- ✓ The manual must be kept in close proximity to the machine and must be easily accessible to operators and maintenance personnel.
- ✓ If prescribed configurations are altered or use is made of unauthorized spare parts or repair methods, this absolves the manufacturer of any liability.
- ✓ The surroundings of the machine must comply with workplace health and safety regulations. The user is responsible for taking steps to ensure that the machine can be operated safely and that the environment is sufficiently illuminated.
- ✓ The owner of the machine is responsible for adhering to the instructions stated in this manual.
- ✓ Safety features (e.g. screens) may never be removed or in any way disengaged.
- ✓ The robot contains powerful magnets. Never bring ferromagnetic material, including steel toed boots, close to the magnets. Close proximity to these magnets may damage cell phones, pacemakers, credit cards, tapes or other magnetically sensitive objects.
- ✓ It is not allowed to make changes to the Magtrack system without permission from Derc.

1.3 Intended use of the DERC MAGTRACK

Magtrack: A Versatile, Four-Wheel-Driven Carrier

The Magtrack is a robust, four-wheel-driven, electrically powered carrier specifically designed to operate on steel surfaces in combination with tools supplied by Derc. Its adaptable design allows for seamless integration with various tools, making it an ideal solution for a wide range of industrial applications.



The wall thickness of the steel must be at least 6 mm for sufficient magnetic force.



The maximum operating temperature must not exceed 50°C to maintain sufficient magnetic force.



In cases where tools other than those supplied by Derc are used, or when the Magtrack is applied in ways other than described in this chapter, the certification is void. In such cases, the user is responsible for conducting their own risk assessment.

Magtrack with Swing Arm for Open Water Blasting

When combined with a swing arm, the Magtrack is perfectly suited for open water blasting up to 3000 bar. This configuration is ideal for applications where the collection of waste material is not required, as no vacuum pump is needed. It features a wide cleaning path for efficient operations and offers the flexibility to access hard-to-reach areas.

Suitable for:

- ✓ Cleaning, paint removal, and surface preparation on ship hulls above sea level and the inside and outside of storage tanks.

Magtrack with Swing Arm for Sandblasting Nozzles

The Magtrack can also be equipped with a swing arm designed to hold up to 3 sandblasting nozzles. This setup enhances the precision and control of the Magtrack for sandblasting applications, ensuring even and thorough cleaning or surface preparation.

Suitable for:

- ✓ Cleaning, paint removal, and surface preparation on ship hulls above sea level and the inside and outside of storage tanks.

Magtrack with Blastcan for Enclosed Water Blasting

For enclosed water blasting up to 3000 bar, the Magtrack combined with a Blastcan offers a controlled and efficient solution. This system is specifically designed for the removal of materials that must not be released into the environment. The Blastcan ensures no emissions into the surrounding area and maintains clear visibility in confined spaces during operations.

Suitable for:

- ✓ Safe removal of materials with no environmental release
- ✓ Ensuring visibility and safety in enclosed spaces
- ✓ Cleaning, paint removal, and surface preparation on ship hulls above sea level and the inside and outside of storage tanks.



Any other use of the DERC MAGTRACK that does not have the prior written permission of the machine's manufacturer releases the manufacturer from any responsibility and liability.

1.4 Legislation and standards

The DERC MAGTRACK is designed and built in accordance with the requirements set out in the Machinery Directive (2006/42/EC), EMC Directive (2014/30/EU), Low Voltage Directive (2014/35/EC), Radio Equipment and Telecommunications Terminal Equipment Directive (2014/53/EU) and the ATEX Directive (2014/34/EU). For an overview of the standards applied during the design and construction of the system, please refer to the EC declaration of conformity for machines (in the back of this user manual).

1.5 Tip markings

Tip markings are symbols in the user documentation and are not displayed on the machine. The following tip markings are used to make you aware of risks and/or dangerous situations:



Tip: Suggestions and advice to make tasks easier.



Note!: Additional information that makes you aware of possible problems.



Caution: Deviating from procedures can damage the machine/equipment.



Danger: Deviating from procedures can lead to serious injury.



Reference: Further information about this subject is available elsewhere in this manual.

1.6 Safety pictograms

 Respect these signs; they have been placed for your own safety!

The risk analysis for this machine has indicated a number of safety measures for warning the user. The used safety pictograms are repeated in the user manual and on the machine's work instructions. This provides the user with a clear insight into the present risks. We have highlighted three different pictogram types.



Prohibition sign: Not allowed to perform an action.



Obligation sign: Obligatory process or action by the user.



Warning sign: Making user aware of present danger.

1.6.1 Pictograms on the MAGTRACK

 Check regularly that all pictograms are still visible and readable. If any pictograms are unreadable, they need to be replaced.

Pictogram or text	Description	Position on the equipment	Number
	Warning: Magnetic field!	Top of the MAGTRACK carrier	2
	CE mark: Indicates compliance with European directives.	The CE mark is on the type plate of the equipment	1
	Indicates compliance with ATEX directive.	The EX-brand is on the type plate of the equipment	1
	Warning: Electrical voltage	Control unit door	1

Table 1

1.7 Personal protection equipment



All operators and persons in close proximity must wear the following personal protection equipment:

Body protection:	A strong waterproof suit to protect against surrounding water and dirt. Arms and legs must also be covered;	
Hand protection:	Waterproof gloves made from rubber or a laminated textile or reinforced with metal;	
Foot protection:	Waterproof boots with steel toe-caps. It is recommended to wear boots with a special air cushion in the instep;	
Face protection:	All personnel must wear suitable head protection (plastic helmet). If possible, personnel must wear a face visor;	
Ear protection:	Ear plugs or ear muffs to protect the ear (regularly in excess of 80 dB(A));	
Eye protection:	Safety goggles or face visor. Protection equipment for the eyes must fit properly and, if necessary, must have side protection;	
Protection of air passages:	The air passages must be protected if this can prevent possible injuries.	

2. TECHNICAL DATA

2.1 Carrier

DMT.3000.CARRIER - Carrier		
Carrier voltage	48 VDC	
Weight	80 kg / 176,4 lb	
Dimensions (L x W x H)	718 x 510 x 348 mm 28.27 x 20.08 x 13.70 inches	

2.2 Control cabinet

DMT.3000.CTRL.XXX - Control unit			
Dimensions (L x W x H)	700 x 600 x 900 mm 27.56 x 23.62 x 35.43 inches		
Weight	50 kg / 110.23 lbs		
Control unit voltage*	110VAC	240VAC	
Max. current fuse*	20 Amp	16 Amp	
Frequency	50/60 Hz		
Cable length to carrier	50 metres / 164.04 feet		
Wireless console (part of DMT.3000.CTRL)			
Dimensions (L x W x H)	220 x 295 x 160 mm 8.66 x 11.61 x 6.30 inches		
Wireless console voltage	3,7 VDC		
Battery life	9 hours (80%)		
Charging time	circa 3 hours(0 -> 80%)		

* depending of delivered model

2.3 Swingarm

DMT.2.610- Swingarm drive without tilt function		
Dimensions (L x W x H)	600 x 500 x 450 mm 23.62 x 19.69 x 17.72 in	
Weight	30 kg / 66,14 lbs	

DMT.2.610-TILT - Swingarm drive with tilt function		
Dimensions (L x W x H)	600 x 500 x 450 mm 23.62 x 19.69 x 17.72 in	
Weight	36 kg / 79,37 lbs	

DMT.2.620-UHP(-US*) - Swingarm UHP water blasting		
Dimensions (L x W x H)	1000 x 500 x 100 mm 39.37 x 19.69 x 3.94 in	
Weight	15 kg / 33.07 lbs	
Max. cleaning path	1400 mm / 55.12 inches / 4.6 ft	
High pressure connection	M30x2	
Max. working pressure	3000 bar / 43511 psi	
Max. flow @ max pressure	30 l/ min / 7.925 gpm	
Nozzle type	8x 965.xxx *8x 972.xxx	

DMT.2.620-ABRASIVE - Swingarm abrasive blasting		
Dimensions (L x W x H)	1132 x 500 x 240 mm 44.57 x 19.69 x 9.45 in.	
Weight*	13 kg / 28.66 lbs	
Max. cleaning path	1400 mm / 55.12 inches / 4.6 ft	
Max. reaction force	490 N	
Hose diameter	Ø48 – Ø51mm / 1.9 – 2 in	
Nozzle diameter	Ø48 – Ø51mm / 1.9 – 2 in	

*Excl. nozzles and hoses

2.4 Blastcan

DMT.3000.BLASTCAN(-US*) - Blastcan		
Dimensions (L x W x H)	700 x 620 x 440 mm 27.56 x 24.41 x 17.32 in	
Weight	40 kg / 88,18 lbs	
Cleaning path	365 mm / 14.37 inches	
Vacuum connection	4" male camlock	
High pressure connection	M30x2	
Max. working pressure	3000 bar / 43511 psi	
Max. flow @ max pressure	40 l/ min / 10.567 gpm	
Nozzle type	20x 965.xxx *20x 972.xxx	

DMT.2.3000.BLASTCAN(-US*) - Blastcan Curved		
Dimensions (L x W x H)	800 x 620 x 465 mm 31.50 x 18.90 x 18.31 in	
Weight	41 kg / 90,39 lbs	
Cleaning path	365 mm / 14.37 in	
Vacuum connection	4" male camlock	
High pressure connection	M30x2	
Max. working pressure	3000 bar / 43511 psi	
Max. flow @ max pressure	40 l/ min / 10.567 gpm	
Nozzle type	20x 965.xxx *20x 972.xxx	

2.5 Type plates

Several type plates are mounted on the machine. This is because each part can be bought separately. When you order spare parts or contact the manufacturer about fault-finding, provide the data on the type plate.

The type plate contains the following information:



Controlbox




Control unit

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.3000.CTRL.110
Serial number: SP ...
Power Supply: 110 VAC
Weight: 50-60 Hz
Year of build: 35 kg

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Control unit

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.3000.CTRL.110EX
Serial number: SP ...
Power Supply: 110 VAC
Weight: 50-60 Hz
Year of build: 35 kg

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Control unit

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.3000.CTRL.230
Serial number: SP ...
Power Supply: 230 VAC
Weight: 50-60 Hz
Year of build: 35 kg

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Control unit

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.3000.CTRL.230EX
Serial number: SP ...
Power Supply: 230 VAC
Weight: 50-60 Hz
Year of build: 35 kg

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Swingarm





Swingarm drive fixed

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.2.610
Serial number: SP ...
Weight: 18 kg
Year of build:

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Swingarm drive tilt

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.2.610-TILT
Serial number: SP ...
Weight: 23 kg
Year of build:

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Swingarm boom UHP

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.2.620-UHP
Serial number: SP ...
Connection type: M30x2
Weight: 10 kg
Max working pressure: 3000 bar
Year of build:

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Swingarm boom abrasive

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.2.620-ABRASIVE
Serial number: SP ...
Weight: 13 kg
Year of build:

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Blast can





Blast can

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.3000.BLASTCAN
Serial number: SP ...
Connection type: M30x2
Weight: 40 kg
Max working pressure: 3000 bar
Year of build:

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Blast can

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Tel: +31 186 62 14 84
The Netherlands

Type: DMT.2.3000.Blastcan
Serial number: SP ...
Connection type: M30x2
Weight: 40 kg
Max working pressure: 3000 bar
Year of build:

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3. OPERATING PRINCIPLE

The Magtrack is a four-wheel-driven, electrically powered carrier specifically designed to operate in combination with tools supplied by Derc. Its adaptable design allows for seamless integration with various tools, making it an ideal solution for a wide range of industrial applications such as: Cleaning, paint removal, and surface preparation on ship hulls and the inside and outside of storage tanks.

The system comprises a carrier with transport plate, control unit, wireless console and cleaning tools. By attaching cleaning tools such as a Swingarm or Blastcan, the DERC MAGTRACK can clean quickly and efficiently using high pressure water or abrasive blasting.

Combined with Swingarm or Blastcan, the carrier is suitable for working in an ATEX zone 2. See certificate for coding.



Caution! the standard control unit is not suitable for placement in an ATEX zone! There is an option to upgrade this to ATEX zone 2.

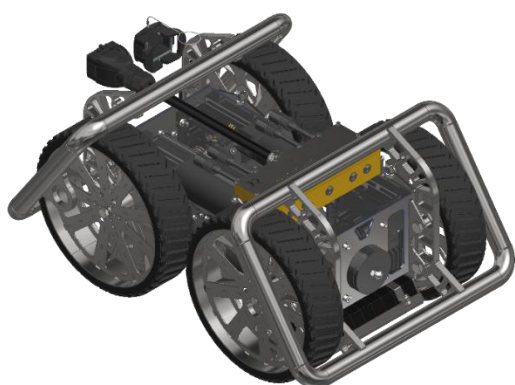


Figure 1 DMT.3000.carrier



Figure 2 Control unit (left = standard non-ATEX, right = optional ATEX)



Figure 3 Wireless console (Grey = ATEX-certified yellow= non-Atex)

When combined with a Swingarm, the Magtrack is perfectly suited for open water blasting up to 3000 bar. This configuration is ideal for applications where the collection of waste material is not required, as no vacuum pump is needed. It features a wide cleaning path for efficient operations and offers the flexibility to access hard-to-reach areas. The stroke and speed of the swing arm can be adjusted as required.

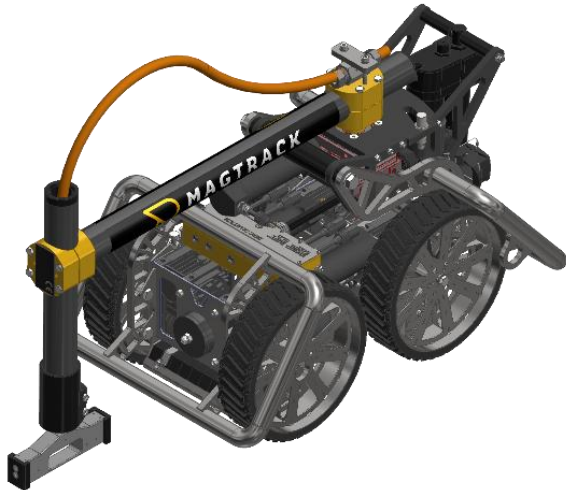


Figure 4 Carrier with swing arm (ATEX certified)

The Magtrack can also be equipped with a Swingarm designed to hold up to 3 sandblasting nozzles. This setup enhances the precision and control of the Magtrack for sandblasting applications, ensuring even and thorough cleaning or surface preparation. The pitch, angle and height of the nozzles can be adjusted.

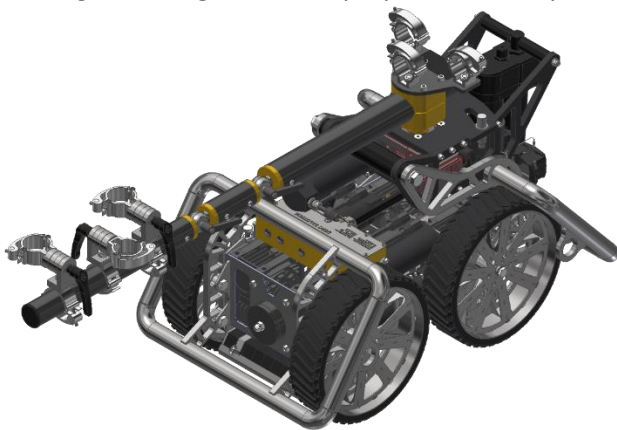


Figure 5 Carrier with Swingarm for abrasive nozzles

The Blastcan is specifically designed for high pressure water blasting up to 3000 bar on steel surfaces in which extraction of the waste water and drying of the steel surface is important. An example would be stripping paint from a storage tank that needs to be repainted or stripping/cleaning a ship's hull above sea level.



Figure 6 Carrier with Blastcan (ATEX certified)

The Blastcan Curved is equipped with an additional hinge point and two extra omniwheels, allowing it to operate on a minimum radius of 3 meters, this gives an advantage when for example cleaning ship hulls with a tight radius.

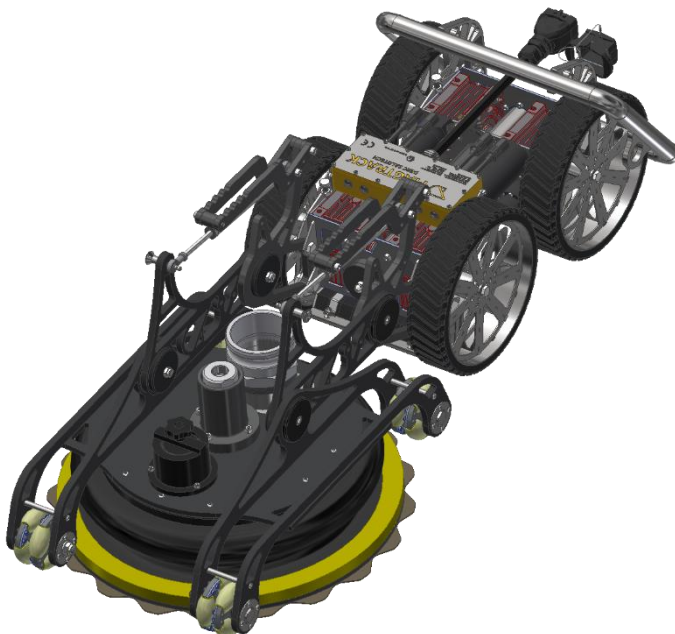
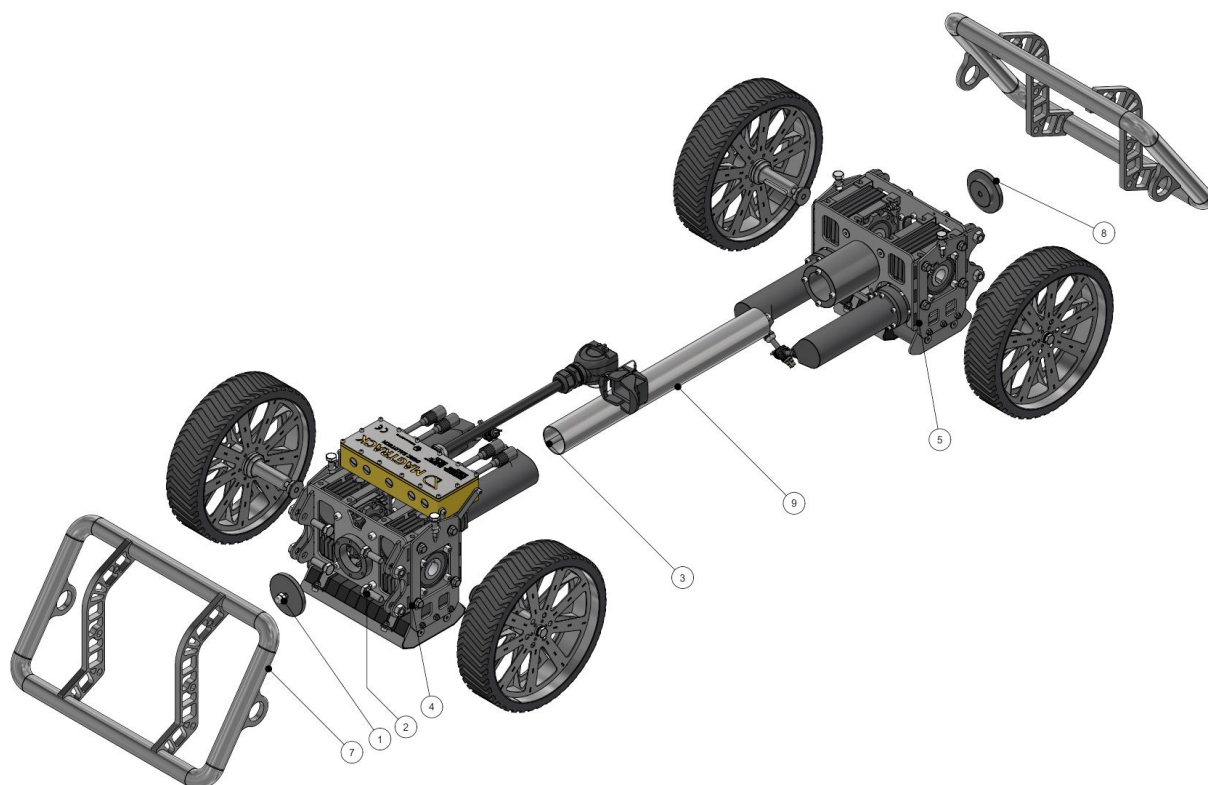


Figure 7 Carrier with Blastcan curved (ATEX certified)

4. PARTS

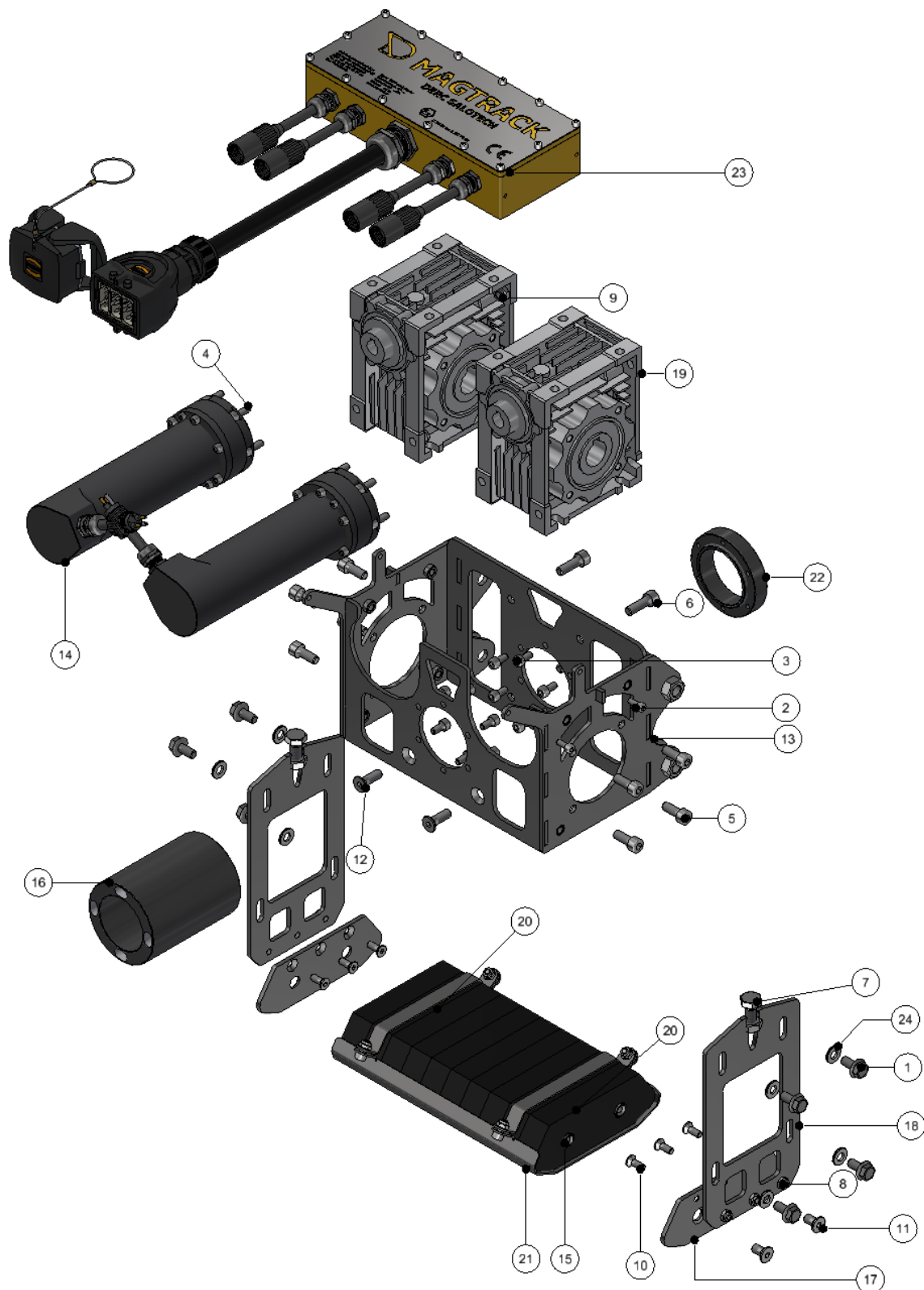
4.1 DMT.3000.Carrier



Partlist DMT.3000.CARRIER

Pos No.	Qty	Description	Part number
1	2	Hex. lock nut	DIN985.M10-A4
2	8	Hex. head bolt full thread	DIN933.M12x35-A4
3	1	Threaded rod 536 mm	DIN975.M10-A4
4	1	Front assembly	DMT.2.100
5	1	Rear assembly	DMT.2.200
6	4	Wheel assembly	DMT.300
7	2	Weld assembly protection bar	DMT.400
8	2	Frame end cap	DMT.530
9	1	Transport plate Magtrack	DMT.800
9	1	Frame center pipe L=504	ST.P.542-4404

4.1.1 DMT.2.100 - Front assembly

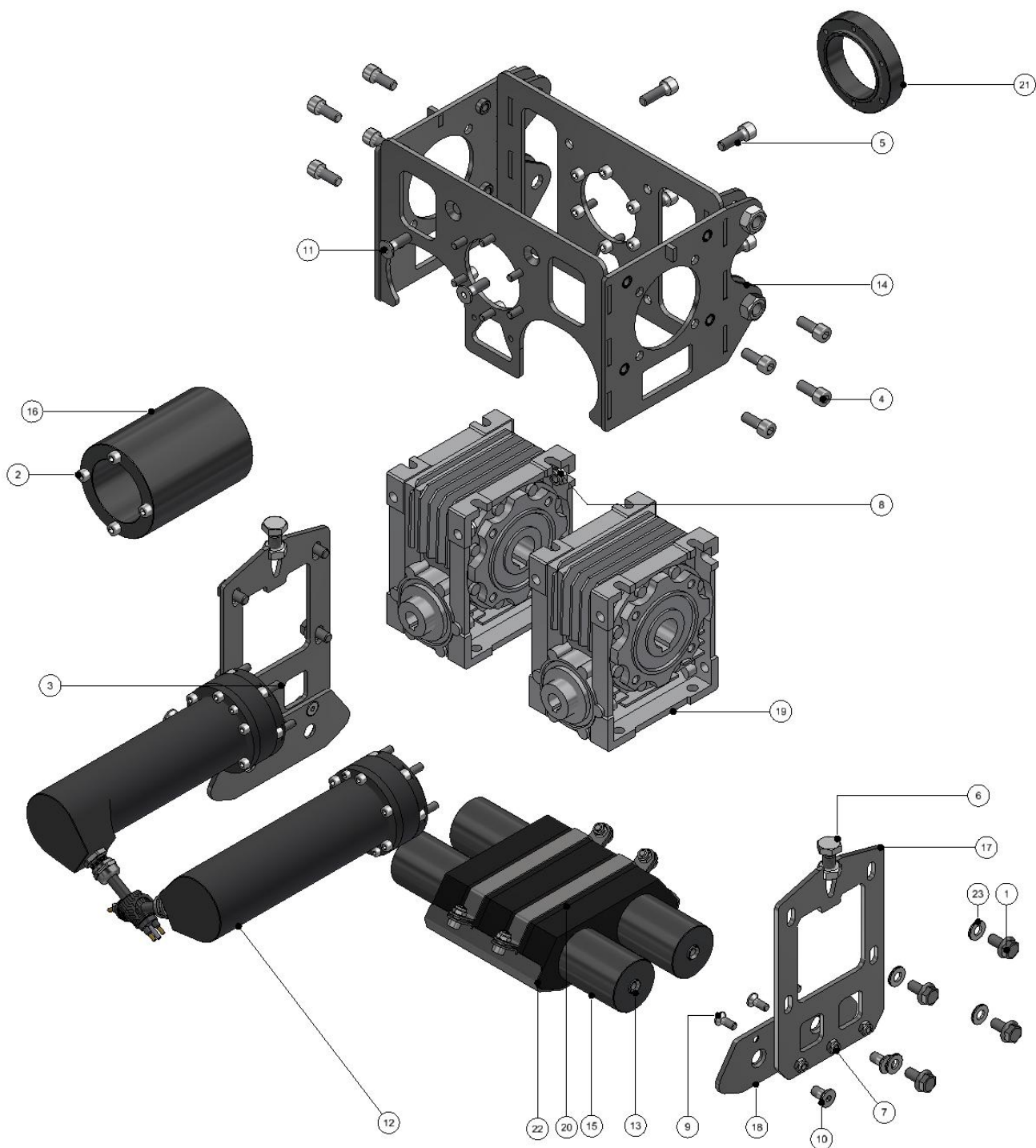


Part list DMT.2.100

Pos No.	Qty	Description	Part number
1	8	Hexagon Flange Bolt	DIN 6921 - M8 x 16
2	4	Int. hex. socket head bolt	DIN912.M5x12-A4
3	12	Int. hex. socket head bolt	DIN912.M6x12-A4
4	12	Int. hex. socket head bolt	DIN912.M6x16-A4
5	8	Int. hex. socket head bolt	DIN912.M8x20-A4
6	4	Int. hex. socket head bolt	DIN912.M8x25-A4
7	2	Hex. head bolt full thread	DIN933.M10x25-A4
8	6	Hex. lock nut	DIN985.M6-A4
9	6	Hex. lock nut	DIN985.M8-A4
10	6	Int. hex. countersunk head bolt	DIN7991.M6x16-A4
11	4	Int. hex. countersunk head bolt	DIN7991.M8x16-A4
12	2	Int. hex. countersunk head bolt	DIN7991.M8x25-A4
13	1	Weld assembly frame front	DMT.2.110
14	2	Motor assembly	DMT.2.120
15	2	Magnet shaft	DMT.2.152
16	1	Frame center bearing	DMT.2.160
17	2	Magnet bracket lower	DMT.2.232
18	2	Weld assembly adjustment plate front	DMT.2.236
19	2	Gearbox i40	DMT.124-40
20	2	Magnet block	DMT.151
21	1	Magnet protection plate double	DMT.153
22	1	Frame outer bearing	DMT.170
23	1	Junction box	DMT.180
24	8	Nord-Lock M8x16,6	NL8SPSS

Table 2

4.1.2 DMT 2.200 - Rear assembly

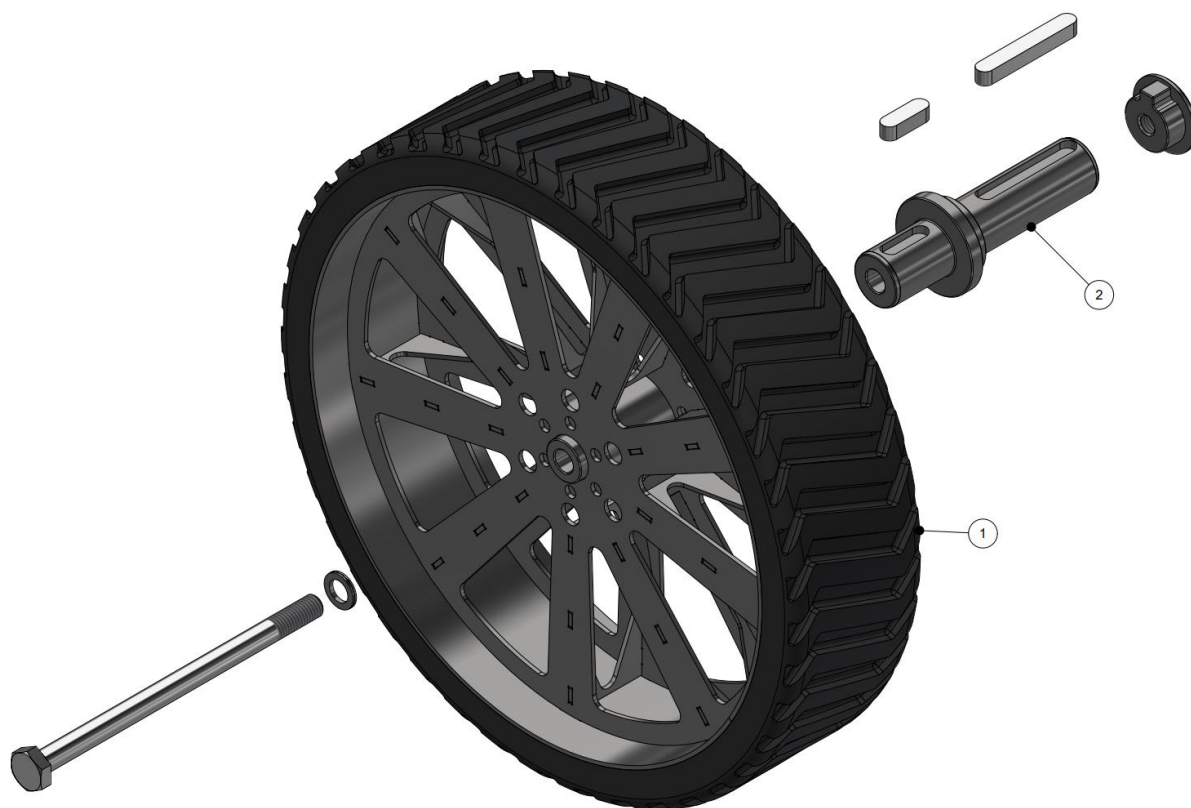


Part list DMT.2.200

Pos No.	Qty	Description	Part number
1	8	Hexagon Flange Bolt	DIN 6921 - M8 x 16
2	4	Int. hex. socket head bolt	DIN912.M6x10-A4
3	24	Int. hex. socket head bolt	DIN912.M6x16-A4
4	8	Int. hex. socket head bolt	DIN912.M8x20-A4
5	4	Int. hex. socket head bolt	DIN912.M8x25-A4
6	2	Hex. head bolt full thread	DIN933.M10x25-A4
7	6	Hex. lock nut	DIN985.M6-A4
8	6	Hex. lock nut	DIN985.M8-A4
9	6	Int. hex. countersunk head bolt	DIN7991.M6x16-A4
10	5	Int. hex. countersunk head bolt	DIN7991.M8x16-A4
11	2	Int. hex. countersunk head bolt	DIN7991.M8x25-A4
12	2	Motor assembly	DMT.2.120
13	2	Magnet shaft	DMT.2.152
14	1	Weld assembly frame rear	DMT.2.210
15	4	Rear magnet spacer	DMT.2.221
16	1	Frame center bearing	DMT.2.230
17	2	Weld assembly adjustment plate rear	DMT.2.231
18	2	Magnet bracket lower	DMT.2.232
19	2	Gearbox i40	DMT.124-40
20	1	Magnet block	DMT.151
21	1	Frame outer bearing	DMT.170
22	1	Magnet protection plate single	DMT.222
23	8	Nord-Lock M8x16,6	NL8SPSS

Table 3

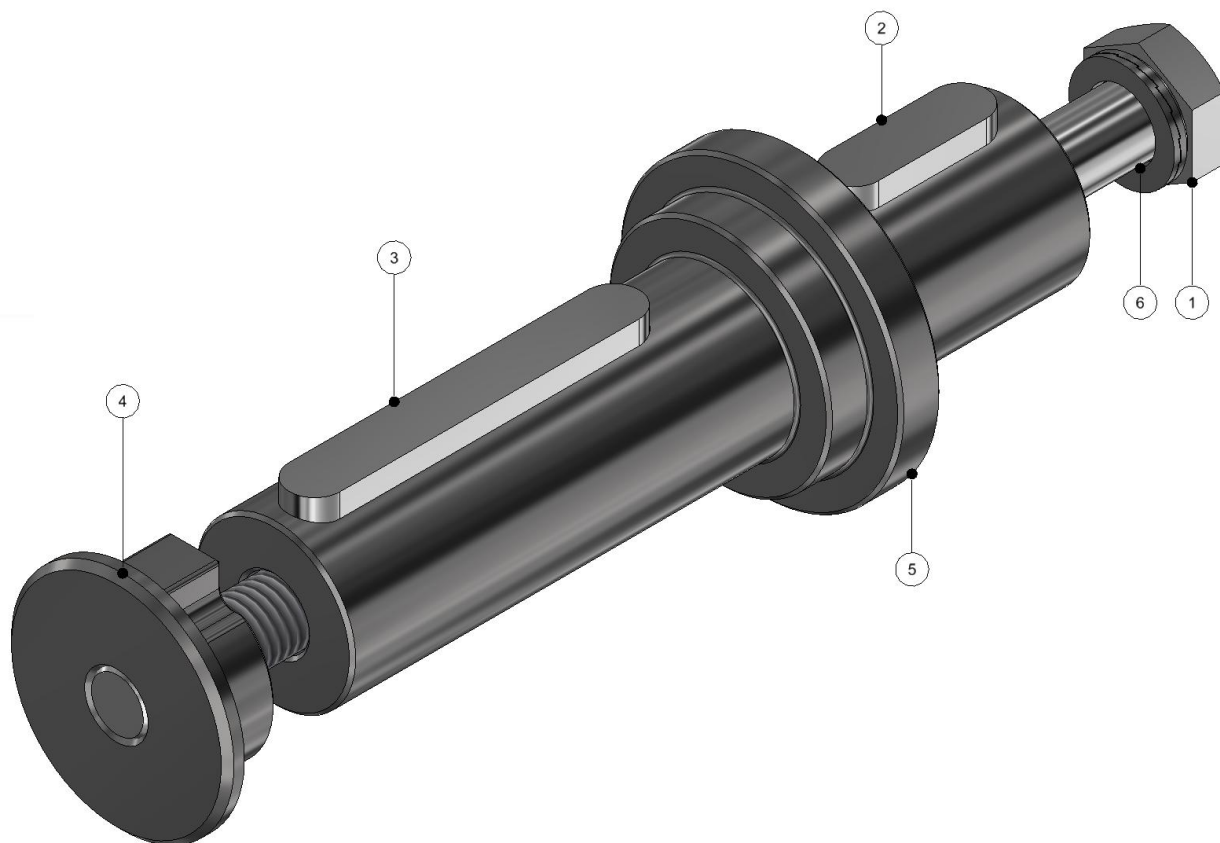
4.1.3 DMT.300 - Wheel assembly



Part list DMT.300

Pos No.	Qty	Description	Part number
1	1	Wheel with V profile	DMT.310
2	1	Shaft assembly Magtrack	DMT.320-C-ASSY

4.1.4 DMT.320-C-ASSY - Shaft assembly



Part list DMT.320-C-ASSY

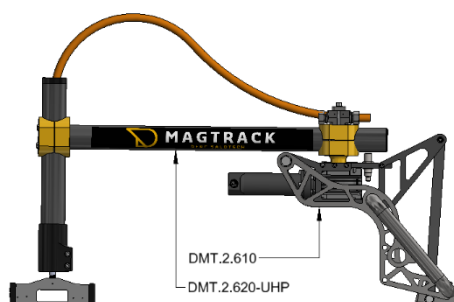
Pos No.	Qty	Description	Part number
1	1	Hex. head bolt	DIN931.M10x160-A2
2	1	Parallel key	DIN6885.8x7x25-A4
3	1	Parallel key	DIN6885.8x7x55-A2
4	1	Wheel Shaft Lock SS316	DMT.140-C
5	1	Wheel shaft model C	DMT.320-C
6	1	Nord-Lock ring M10	NL10SS

Table 4

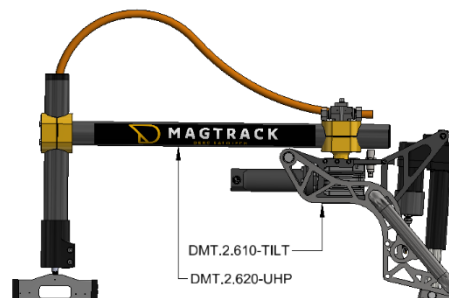
4.2 Swingarm

The swing arm consists of two sub-assemblies: the drive mechanism that controls left and right movement, the drive mechanism labeled with "TILT" in the article number, which can be height-adjusted via the remote. And a cleaning arm designed for high-pressure cleaning or abrasive blasting.

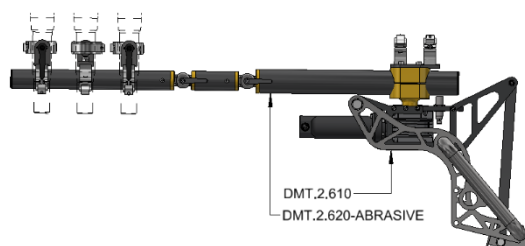
DMT.2.3000.SWING



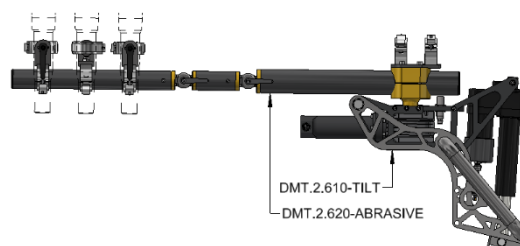
DMT.2.3000.SWING-TILT



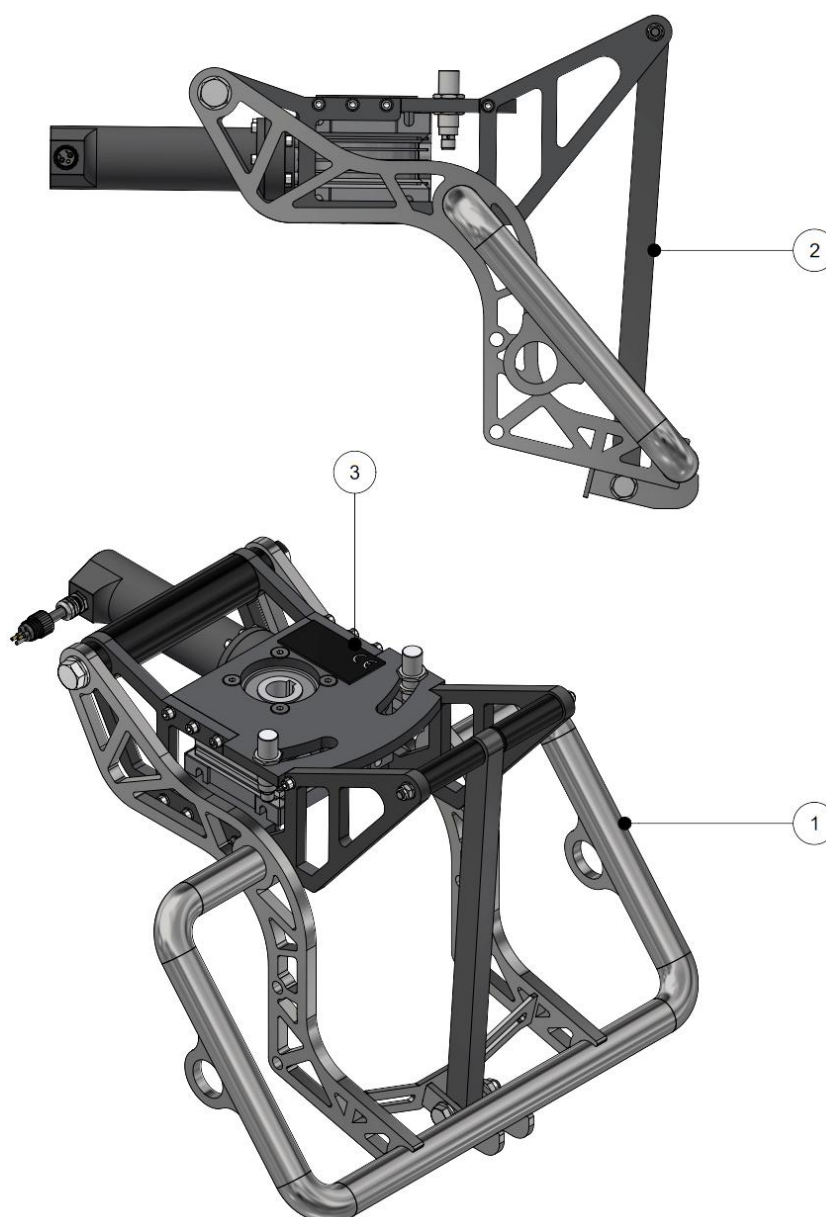
DMT.2.3000.ABRASIVE



DMT.2.3000.ABRASIVE-TILT



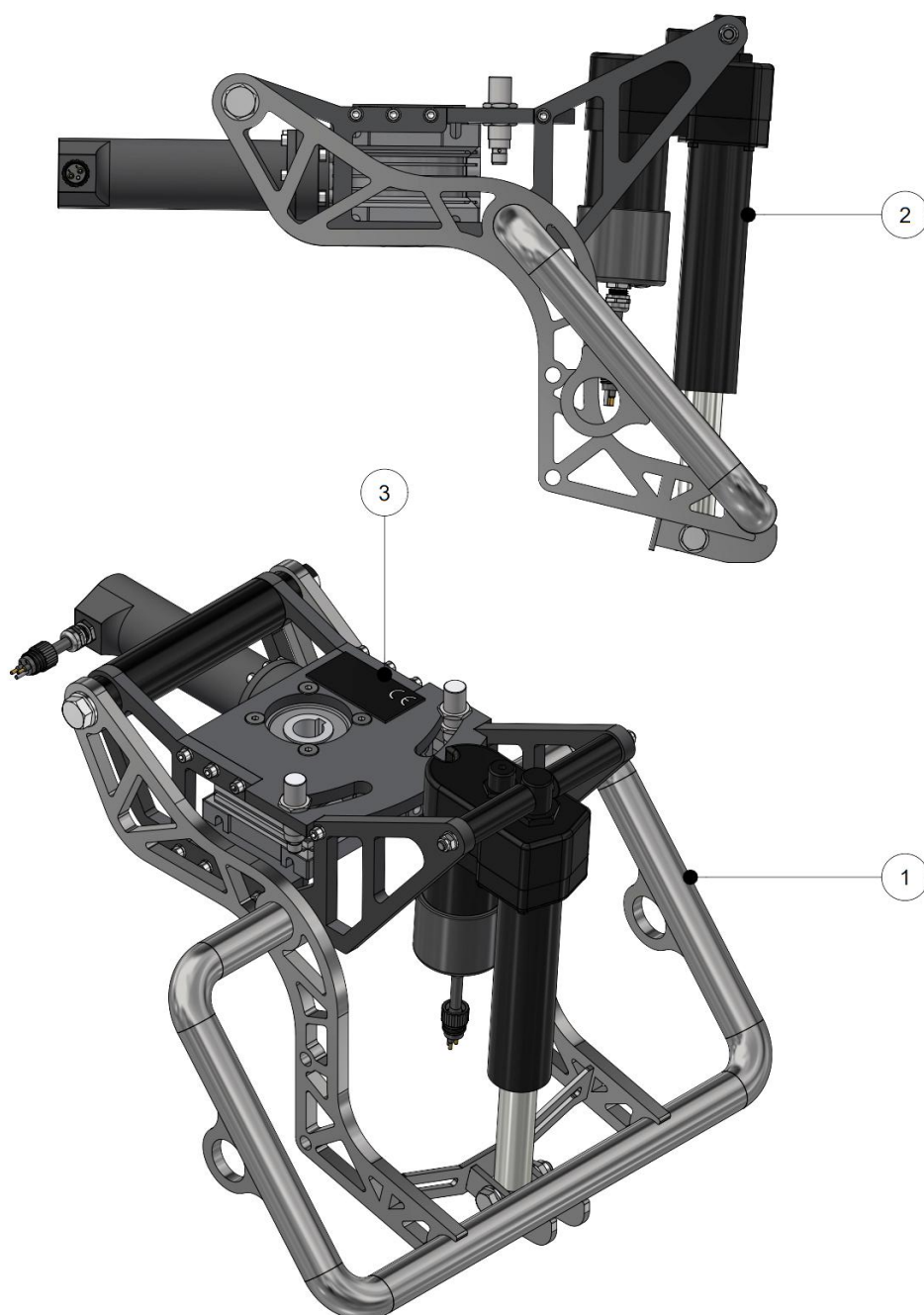
4.2.1 DMT.2.610 – Drive assembly with fixed bar



Part list DMT.2.610

Pos No.	Qty	Description	Part number
1	1	Swingarm drive unit	DMT.2.840
2	1	Fixed rod	DMT.2.859
3	1	Typeplate 90x45	TP-DMT.2.610

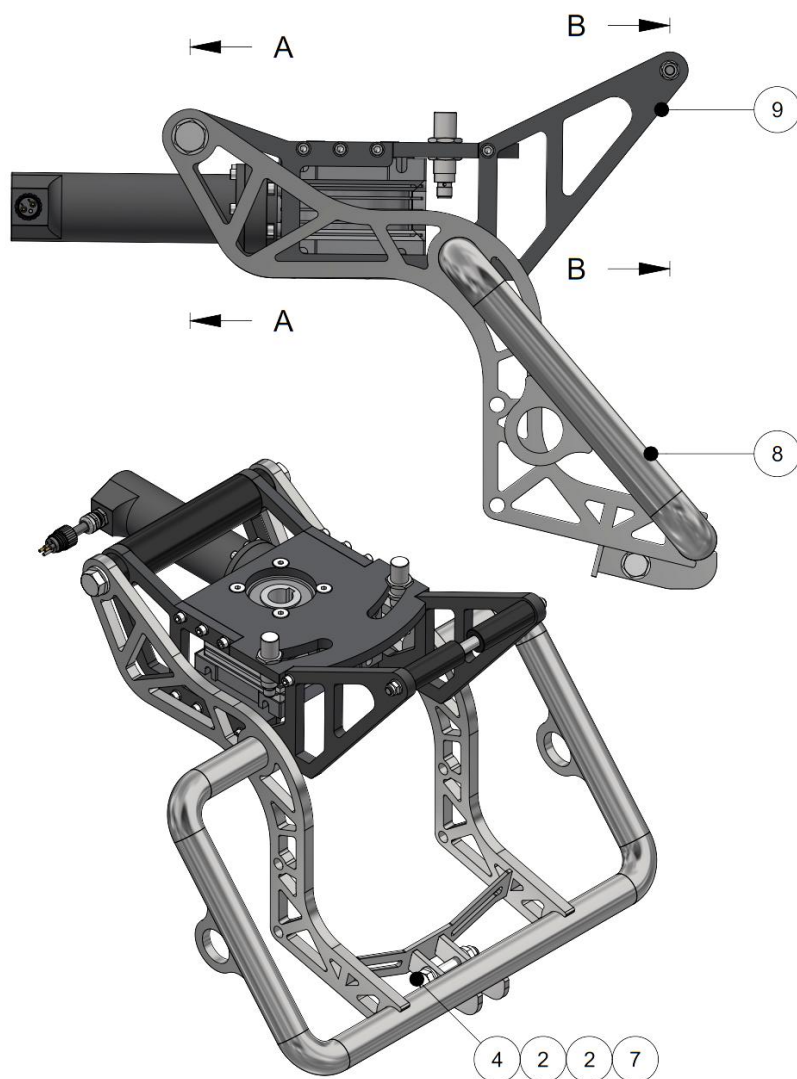
4.2.2 DMT.2.610-TILT – Drive assembly with tilt function



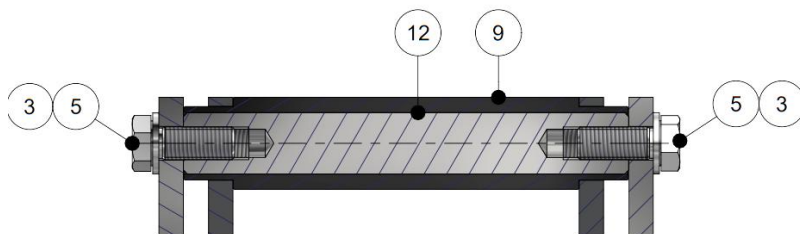
Part list DMT.2.610-TILT

Pos No.	Qty	Description	Part number
1	1	Swingarm drive unit	DMT.2.840
2	1	Assembly actuator 48VDC	DMT.2.857
3	1	Typeplate 90x45	TP-DMT.2.610-TILT

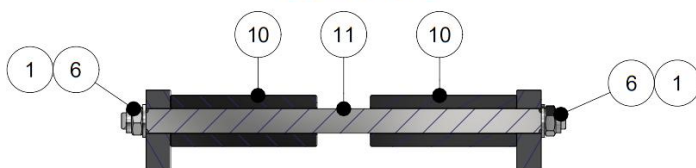
4.2.3 DMT.2.840 – Swingarm drive unit



Section A-A



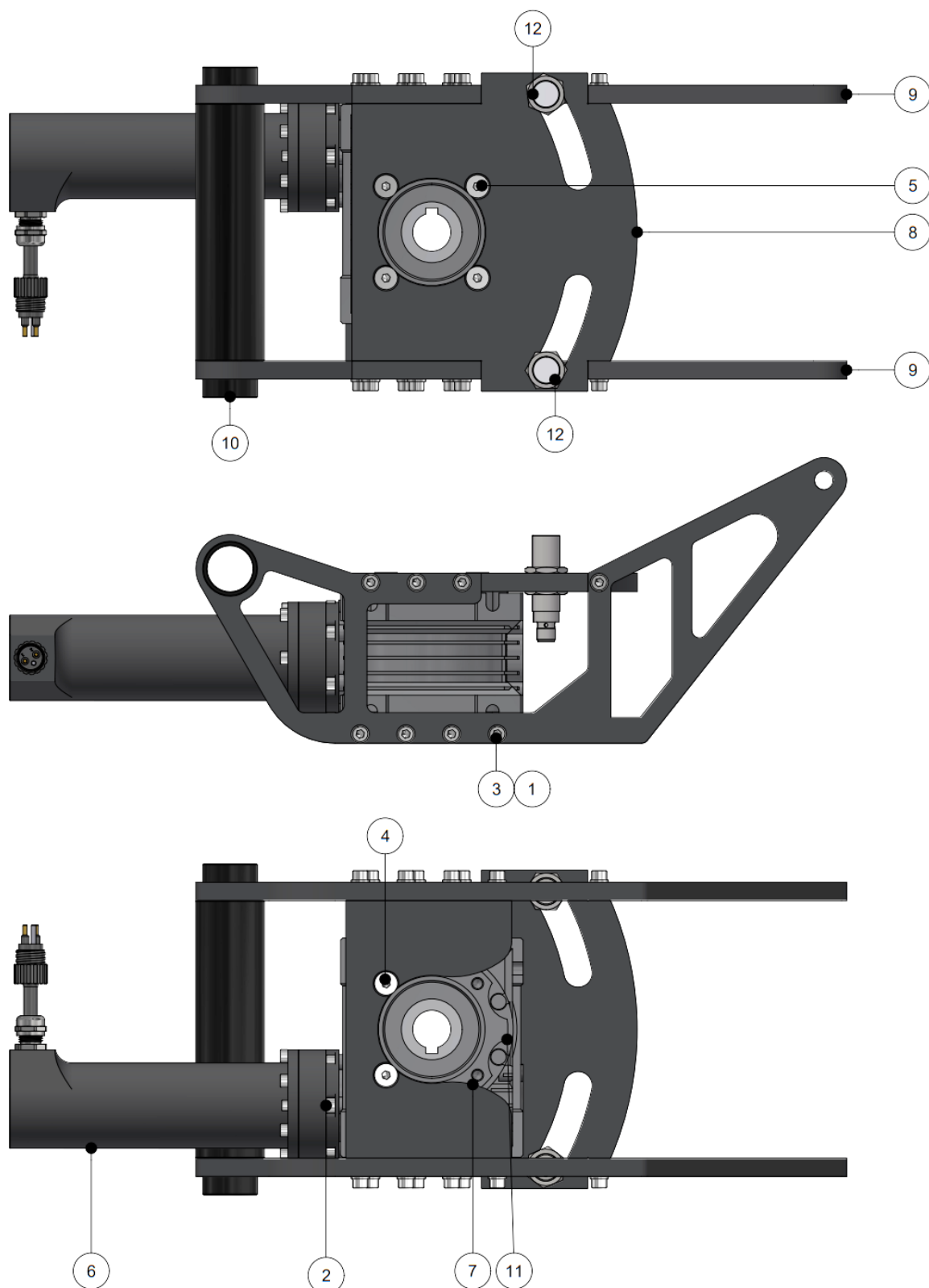
Section B-B



Part list DMT.2.840

Pos No.	Qty	Description	Part number
1	2	Plain washer	DIN125.M8-A4
2	2	Plain washer	DIN125.M12-A2
3	2	Plain washer	DIN125.M16-A4
4	1	Hex. head bolt	DIN931.M12x65-A2
5	2	Hex. head bolt full thread	DIN933.M16x40-A4
6	2	Hex. lock nut	DIN985.M8-A4
7	1	Hex. lock nut	DIN985.M12-A2
8	1	Weld assembly mounting bracket 200W	DMT.2.850
9	1	Assembly 200W Swingarm drive frame	DMT.2.851
10	2	Spacer actuator	DMT.2.853
11	1	Actuator mounting shaft	DMT.2.854
12	1	Rotation shaft	DMT.852

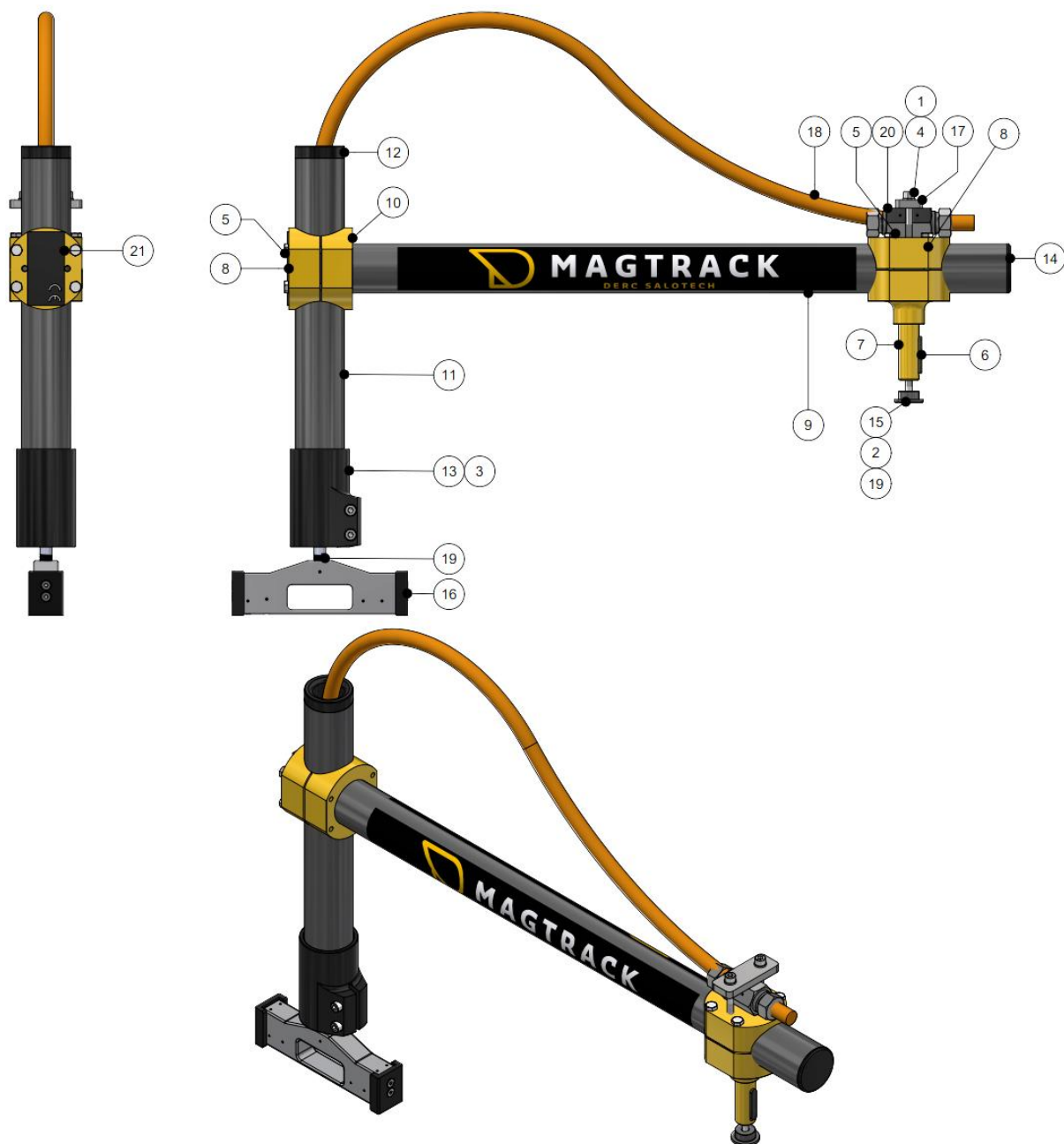
4.2.4 DMT.2.851 – Assembly drive frame



Part list DMT.2.851

Pos No.	Qty	Description	Part number
1	16	Plain washer	DIN125.M6-A4
2	6	Int. hex. socket head bolt	DIN912.M6x16-A4
3	16	Int. hex. socket head bolt	DIN912.M6x25-A4
4	2	Int. hex. countersunk head bolt	DIN7991.M8x25-A2
5	4	Int. hex. countersunk head bolt	DIN7991.M8x25-A4
6	1	Motor assembly	DMT.2.120
7	1	Mounting plate gearbox bottom	DMT.2.851.1
8	1	Mounting plate gearbox top	DMT.2.851.2
9	2	Mounting plate gearbox side	DMT.2.851.3
10	1	Swing arm rotation bearing	DMT.2.851.4
11	1	Gearbox i40	DMT.124-40
12	2	Proximity sensor	DMT.630

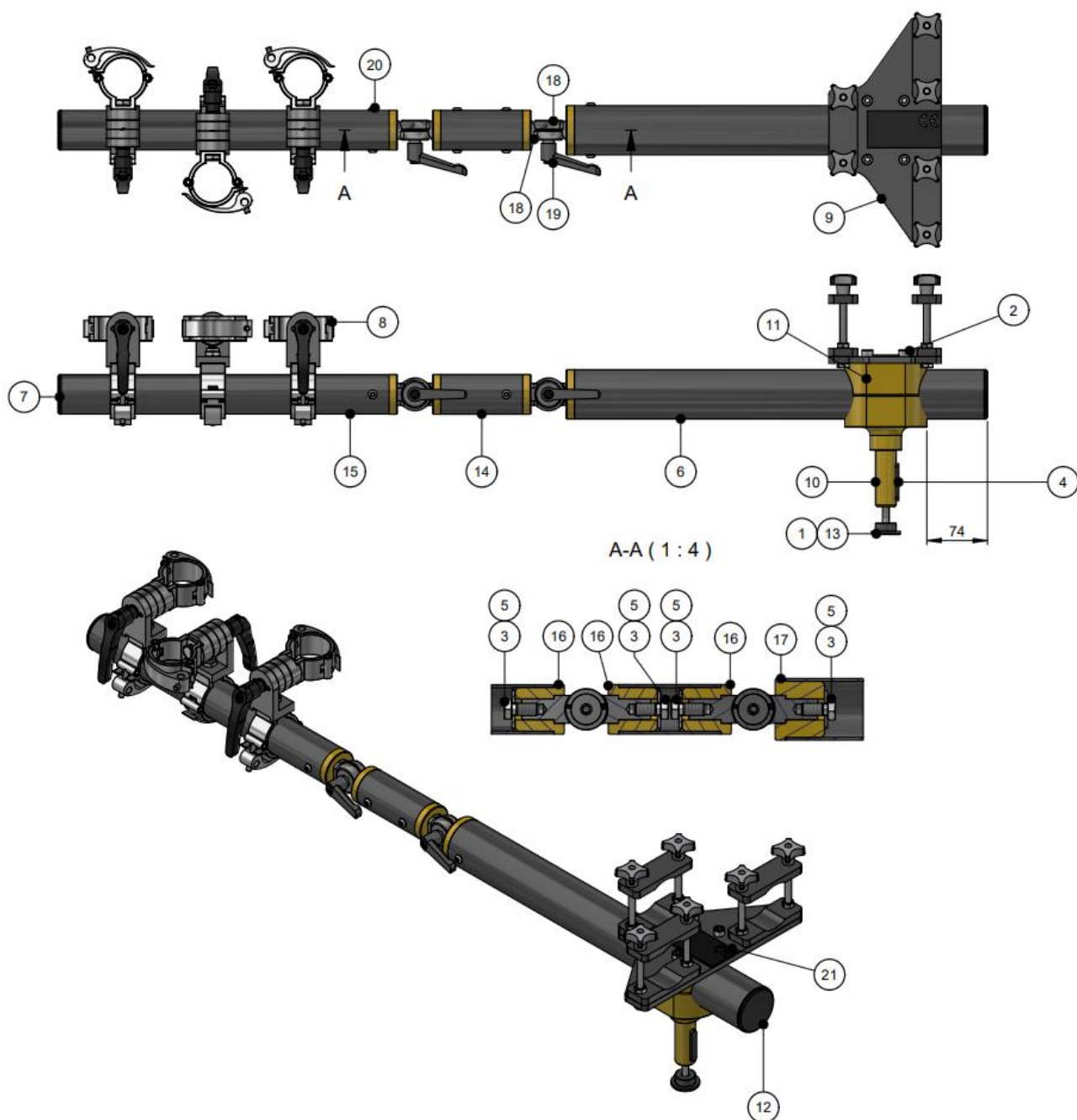
4.2.5 DMT.2.620-UHP – Swingarm boom for waterblasting



Part list DMT.2.620-UHP

Pos No.	Qty	Description	Part number
1	2	Spring washer	DIN127.M8-A4
2	1	Int. hex. socket head bolt	DIN912.M8x40-A4
3	2	Int. hex. socket head bolt	DIN912.M8x45-A4
4	2	Int. hex. socket head bolt	DIN912.M8x60-A2
5	8	Hex. head bolt	DIN931.M8x55-A4
6	1	Parallel key	DIN6885.8x7x45-C45
7	1	Horizontal boom clamp 1	DMT.621
8	2	Horizontal boom clamp 2	DMT.622
9	1	Horizontal boom Tilted swing arm	DMT.623-TILT
10	1	Vertical boom clamp 1	DMT.624
11	1	Vertical boom	DMT.626
12	1	Hose protection bush	DMT.627
13	1	Swivel clamp	DMT.628
14	1	End plug horizontal boom	DMT.629
15	1	Shaft Lock Swingarm	DMT.640
16	1	Manifold for M10x1.5 nozzles	DMT.650 (standard)
	1	Manifold for 3/8" -24 UNF LH nozzles	DMT.650-38 (optional)
17	1	Coupling clamp plate	DMT.661
18	1	High pressure hose 1x M14x1,5 LH 1x 9/16 UNF	DMT.664
19	1	Swivel 3000 bar 9/16x18 UNF LH F	DMT.666
20	1	M30x2 Female Coupler	HC-MEF30-CLR-M14
21	1	Typeplate 90x45	TP-DMT.2.620-UHP

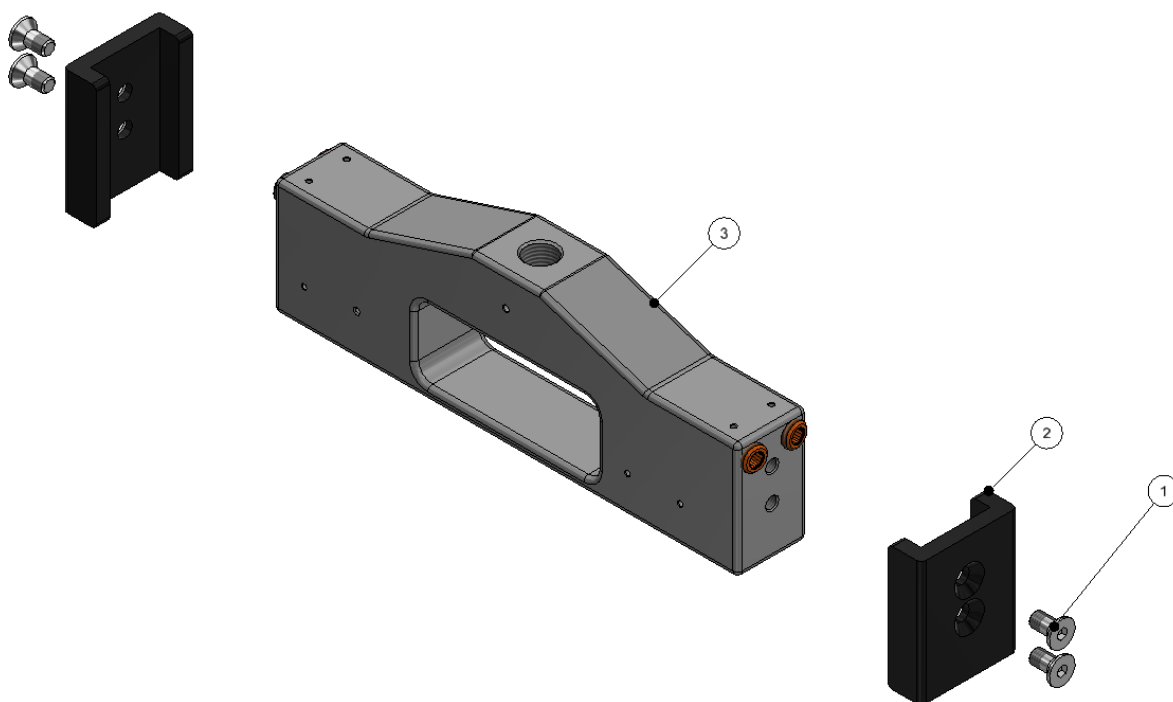
4.2.6 DMT.2.620-ABRASIVE - Swingarm boom for abrasive blasting



Part list DMT.2.620-ABRASIVE

Pos No.	Qty	Description	Part number
1	1	Int. hex. socket head bolt	DIN912.M8x40-A4
2	4	Int. hex. socket head bolt	DIN912.M8x70-A4
3	4	Hex. head bolt full thread	DIN933.M12x25-A4
4	1	Parallel key	DIN6885.8x7x45-C45
5	4	Large plain washer	DIN9021.M12-A2
6	1	Horizontal boom abrasive tilt	DMT.2.861
7	1	End plug nozzle pipe	DMT.2.865
8	3	Adjustable nozzle clamp	DMT.2.870
9	1	Assembly blasthose clamps	DMT.2.880
10	1	Horizontal boom clamp 1	DMT.621
11	1	Horizontal boom clamp 2	DMT.622
12	1	End plug horizontal boom	DMT.629
13	1	Shaft Lock swingarm	DMT.640
14	1	Hinge pipe	DMT.862
15	1	Nozzle pipe	DMT.863
16	3	Bushing for pipe Ø48,3x2,77	DMT.864
17	1	Bushing for pipe Ø60x2,5	DMT.865
18	4	Toothed clamping elements	DMT.869
19	2	Locking joint set	GN 187.6-40-K
20	8	Hexagon Socket Button Head Screw	ISO7380.M6x12-A4
21	1	Typeplate 90x45	TP-DMT.2.620-ABRASIVE

4.2.7 DMT.650 – Manifold for M10 nozzle

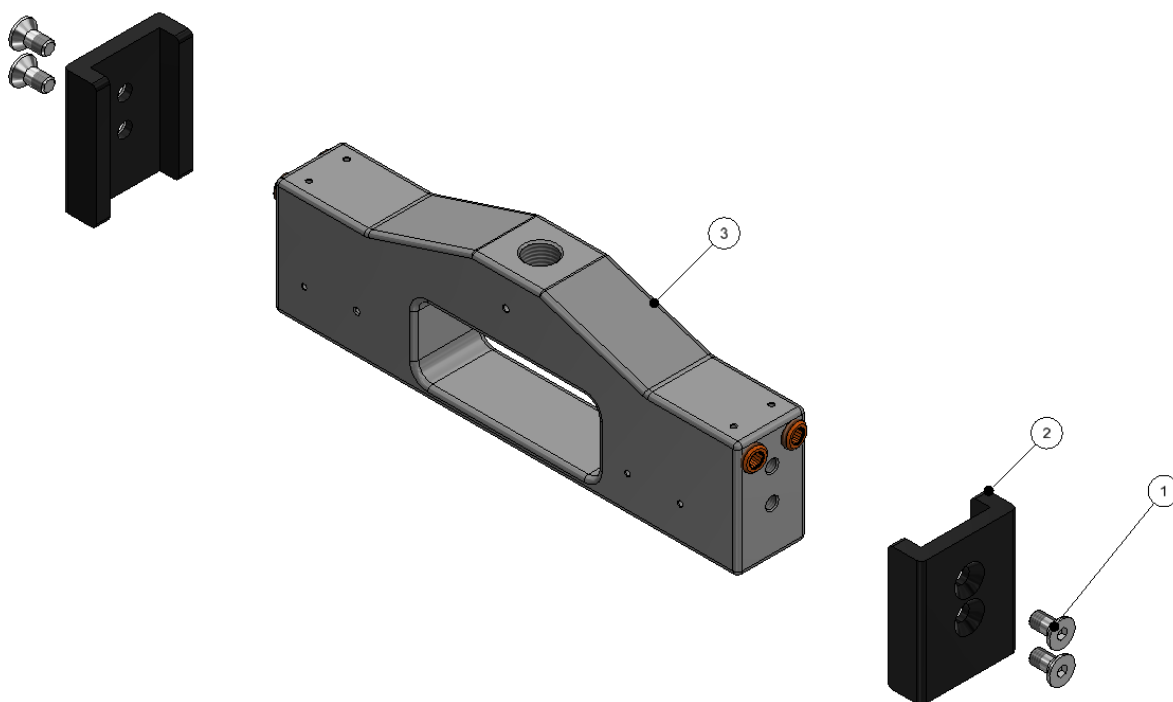


Part list DMT.650

Pos No.	Qty	Description	Part number
1	4	Int. hex. countersunk head bolt	DIN7991.M6x12-A4
2	2	Protection cover	DMT.652
3	1	Assembly Manifold with blind plugs	DMT.651
4*	8	Nozzle type 964/965	964.xxx / 965.xxx

*Not included

4.2.8 DMT.650-38 – Manifold for 3/8"nozzles

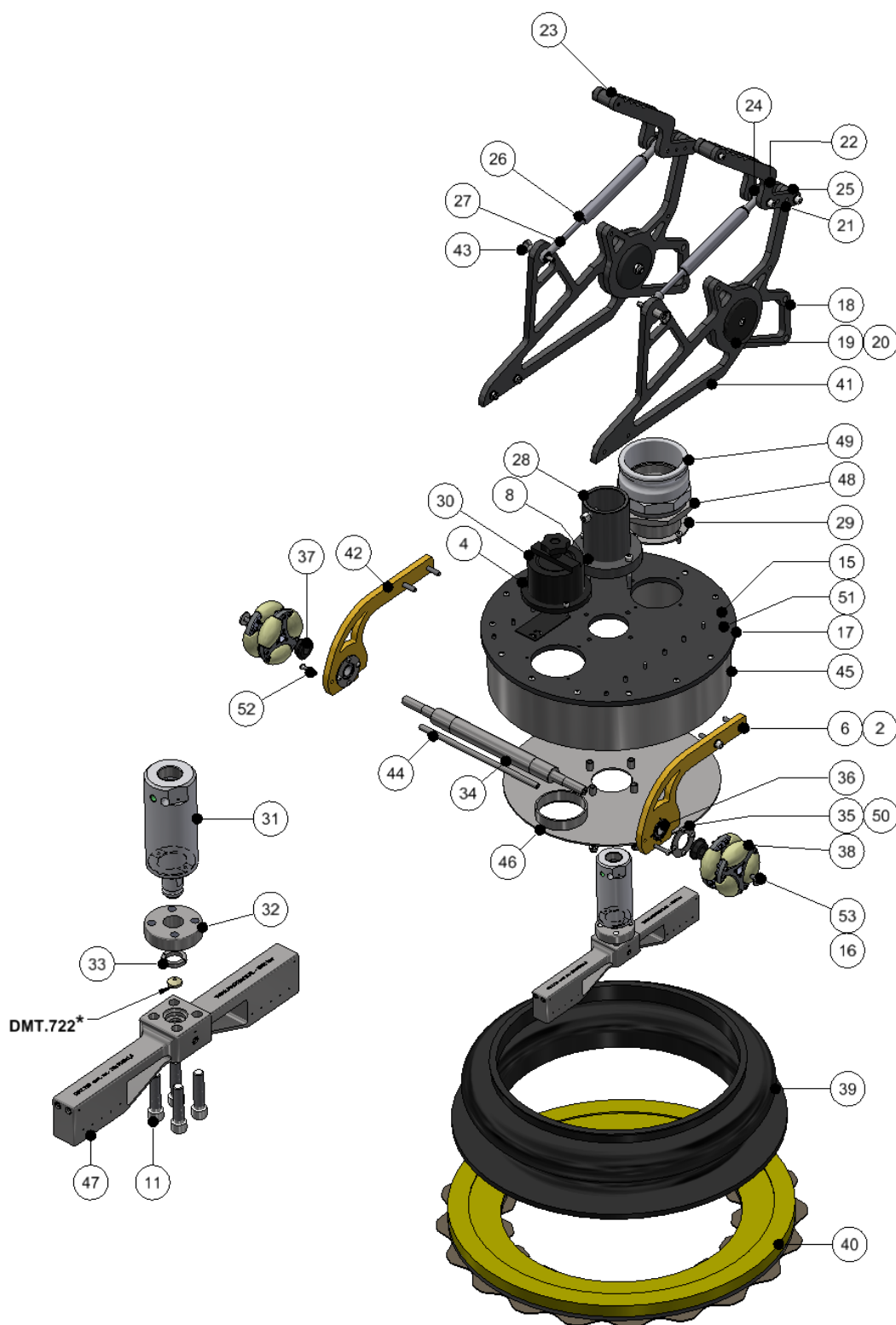


Part list DMT.650-38

Pos No.	Qty	Description	Part number
1	4	Int. hex. countersunk head bolt	DIN7991.M6x12-A4
2	2	Protection cover	DMT.652
3	1	Assembly Manifold with blind plugs	DMT.651-38
4*	8	Nozzle 3/8"-24 unf LH type 972	972.xxx or similar like UHP-X

*Not included

4.3 DMT.3000.Blastcan - Blastcan

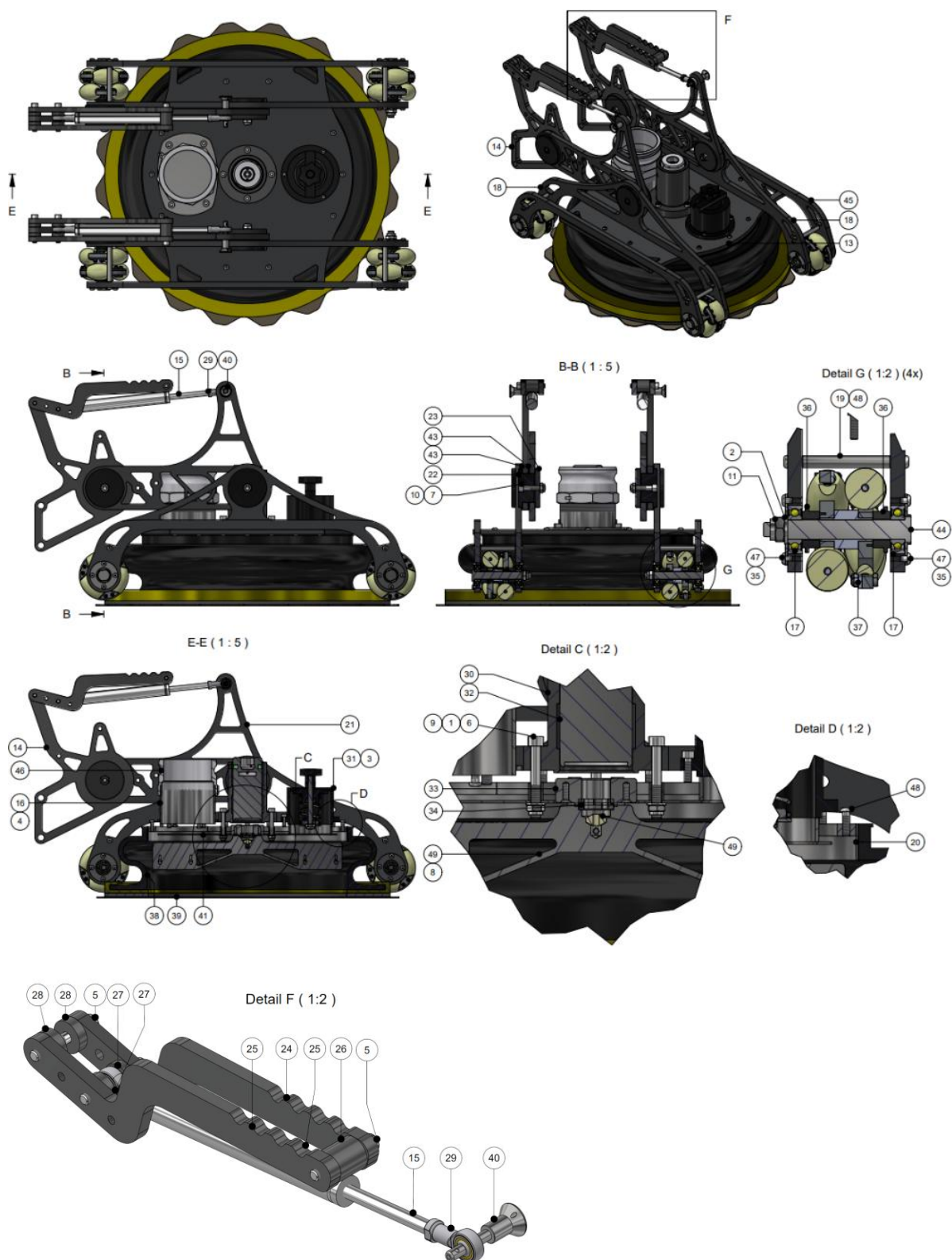


Part list DMT.3000.Blastcan

Pos No.	Qty	Description	Part number
1	2	Plain washer	DIN125.M6-A4
2	16	Plain washer	DIN125.M8-A4
3	4	Int. hex. socket head bolt	DIN912.M6x16-A4
4	3	Int. hex. socket head bolt	DIN912.M6x20-A4
5	2	Int. hex. socket head bolt	DIN912.M6x50-A4
6	4	Int. hex. socket head bolt	DIN912.M8x40-A4
7	4	Int. hex. socket head bolt	DIN912.M8x50-A4
8	4	Int. hex. socket head bolt	DIN912.M8x60-A4
9	1	Int. hex. socket head bolt	DIN912.M10x25-A4
10	2	Int. hex. socket head bolt	DIN912.M10x45-A4
11	4	Int. hex. socket head bolt class 80	DIN912.M12x50-A4-80
12	8	Hex. lock nut	DIN985.M8-A4
13	2	Hex. lock nut	DIN985.M10-A4
14	4	Int. hex. countersunk head bolt	DIN7991.M6x12-A4
15	4	Int. hex. countersunk head bolt	DIN7991.M6x16-A4
16	2	Large plain washer	DIN9021.M8-A4
17	1	Base plate	DMT.701
18	2	Mounting bracket	DMT.705
19	2	Bearing hinge	DMT.706
20	2	Bearing hinge cap	DMT.707
21	2	Handle left	DMT.708
22	2	Handle right	DMT.709
23	2	Spacer 27 mm	DMT.710
24	4	Spacer 6,5 mm	DMT.711
25	4	Spacer 7,5 mm	DMT.712
26	2	Gas spring 10-23	DMT.713
27	4	Rod eye M8	DMT.714
28	1	Swivel holder	DMT.715
29	1	vacuum hose connection	DMT.716
30	1	Vacuum relief valve	DMT.717
31	1	Swivel	DMT.719
32	1	Flange for mounting manifold - swivel	DMT.720
33	1	Backup ring	DMT.721
34	1	Assembly omniwheel shaft	DMT.723-B
35	4	Bearing protection cap	DMT.724
36	2	Bearing 17x40x12	DMT.725
37	2	Spacer omniwheel shaft	DMT.726
38	2	Omniwheels	DMT.728
39	1	Bellow	DMT.729
40	1	Assembly Wear seal Blastcan	DMT.730
41	2	Bracket Blastcan 1	DMT.732
42	2	Bracket Blastcan 2	DMT.733

43	2	Locking pin Blastcan	DMT.734
44	1	Reinforcement shaft for omniwheels	DMT.735
45	1	Weld assembly support ring	DMT.736
46	1	Suction plate	DMT.740
47	1	Manifold for M10x1.5 nozzles	DMT.780 (standard)
	1	Manifold for 3/8" -24 UNF LH nozzles	DMT.780-38 (optional)
48	1	Reducing bushing 4" - 3"	FW.6670106
49	1	KAMLOK 733 A ADAPTOR - FEMALE 4" NPT	FW.115191100
50	16	Hexagon Socket Button Head Screw	ISO7380.M5x6-A4
51	24	Hexagon Socket Button Head Screw	ISO7380.M6x20-A4
52	2	Hexagon Socket Button Head Screw	ISO7380.M6x30-A4
53	2	Hexagon Socket Button Head Screw	ISO7380.M8x16-A4
54	1	Typeplate 90x45	TP-DMT.3000.BLASTCAN

4.4 DMT.2.3000.BLASTCAN – Blastcan Curved



Part list DMT.2.3000.BLASTCAN

Pos No.	Qty	Description	Part number
1	4	Plain washer	DIN125.M8-A4
2	4	Plain washer	DIN125.M12-A4
3	3	Int. hex. socket head bolt	DIN912.M6x20-A4
4	4	Int. hex. socket head bolt	DIN912.M8x16-A4
5	6	Int. hex. socket head bolt	DIN912.M8x50-A4
6	4	Int. hex. socket head bolt	DIN912.M8x60-A4
7	4	Int. hex. socket head bolt	DIN912.M10x45-A4
8	4	Int. hex. socket head bolt class 80	DIN912.M12x50-A4-80
9	4	Hex. lock nut	DIN985.M8-A4
10	4	Hex. lock nut	DIN985.M10-A4
11	4	Hex. lock nut	DIN985.M12-A4
12	4	Int. hex. countersunk head bolt	DIN7991.M6x16-A4
13	1	Base plate Blastcan	DMT.2.701
14	2	Mounting bracket 1	DMT.2.705
15	2	Gas spring 10-23 stroke 150 - 500N	DMT.2.713
16	1	vacuum hose connection 4"	DMT.2.716
17	8	Bearing 16x40x12	DMT.2.725
18	2	Bracket Blastcan 2	DMT.2.732
19	4	Reinforcement shaft for omniwheels	DMT.794
20	1	Weld assembly support ring (30mm)	DMT.2.736
21	2	Bracket Blastcan 3	DMT.2.737
22	4	Bearing hinge	DMT.706
23	4	Bearing hinge cap	DMT.707
24	2	Handle left	DMT.708
25	2	Handle right	DMT.709
26	2	Spacer 27 mm	DMT.710
27	4	Spacer 6,5 mm	DMT.711
28	4	Spacer 7,5 mm	DMT.712
29	4	Rod eye M8	DMT.714
30	1	Swivel holder	DMT.715
31	1	Vacuum relief valve	DMT.717
32	1	Swivel	DMT.719
33	1	Flange for mounting manifold - swivel	DMT.720
34	2	Backup ring	DMT.721
35	8	Bearing protection cap	DMT.724
36	8	Spacer omniwheel shaft	DMT.726
37	4	Omniwheels	DMT.728
38	1	Bellow	DMT.729
39	1	Assembly Wear seal Blastcan	DMT.730
40	2	Locking pin Blastcan	DMT.734
41	1	Suction plate	DMT.740

42	1	Manifold for M10x1.5 nozzles	DMT.780 (standard)
	1	Manifold for 3/8" -24 UNF LH nozzles	DMT.780-38 (optional)
43	4	Slide bearing pivot point	DMT.790
44	4	Omni wheel shaft	DMT.792
45	2	Bracket omni wheels	DMT.793
46	1	KAMLOK 733 A ADAPTOR - FEMALE 4" NPT	FW.115191100
47	32	Hexagon Socket Button Head Screw	ISO7380.M5x6-A4
48	42	Hexagon Socket Button Head Screw	ISO7380.M6x20-A4
49	1	Seallens	DMT.722

4.5 DMT.3000.CTRL.XXX

The components in this chapter are required in order to use the Derc MAGTRACK. The part number may vary depending on the voltage selected and ATEX or non ATEX version. See different part numbers below:

- ✓ DMT.3000.CTRL.110 - Control Box 110VAC (Non ATEX) + remote (non ATEX)
- ✓ DMT.3000.CTRL.230 - Control Box 230VAC (Non ATEX) + remote (non ATEX)
- ✓ DMT.3000.CTRL.110EX - Control Box 110VAC (ATEX) + remote (ATEX)
- ✓ DMT.3000.CTRL.230EX - Control Box 230VAC (ATEX) + remote (ATEX)



Figure 8 Non-ATEX control box



Figure 9 ATEX control box

4.5.1 *Optional wired connection*

The system is standard equipped with wireless control; optionally, it is possible to connect the remote directly to the control box.



The control box needs to be fitted with the optional wired option in the control box.



Use the wired connection in environments where the wireless signal is disrupted.



Figure 10 DMT.3000.wired-EXT-50m – cable for wired connection (optional)

4.5.2 Remote System

DMT.RC - Magtrack remote system (non-atex)



Spareparts Remote system:

DMT.JAY.BELT



DMT.JAY.CHARGER



DMT.JAY.BATTERY



DMT.RC-ATEX – ATEX Magtrack remote system



Spareparts ATEX remote system:

DMT.JAY.BELT.ATEX



DMT.JAY.CHARGER



DMT.JAY.BATTERY.ATEX



4.5.3 Extension cable

DMT.3000.CABLE-50M – Extension cable



Spareparts Extension cable:

DMT.187F.4	DMT.187M.4	DMT.187.5	HG.CARABINE HOOK
Female connector cover	Male connector cover	Locking lever	Carabine hook for strain relief
			

4.6 DMT.800 – Transport plate



4.7 DMT.3000.FALL-B – Fall Arrestors (optional)

This fall arrestor is suitable for use with the Magtrack. Always use 2 fall arrestors. Fall arrestors do not come standard with a Magtrack.



Fall arrestors must be inspected annually!



Refer to §6.3.2 and §6.4.2 for instructions on how to use the fall arrestors with the various tools.



Figure 11 Fall arrestor

4.8 DMT.3000.LIGHT (optional)

Atex LED lights can be used in combination with the Blastcan to navigate well in dark environments.



Figure 12 lights

4.9 DMT.3000.SAFE1 – Wall contact switch (optional)

This sensor detects whether the Magtrack is attached to the wall. If this is not detected, the high pressure will be switched off.



Please note that this only works when the high-pressure system is controlled from the Magtrack control box.



Figure 13 Wall contact switch

5. SAFETY DEVICES

5.1.1 Control unit (atex)

- ✓ The atex control unit is protected by overpressure to prevent the entry of explosive gases. As soon as the overpressure in the control unit drops below the set value, it will disconnect the main electric power from the unit.
- ✓ Overpressure safety device, a pressure relief valve is fitted to prevent the unit from being exposed to excess pressure.
- ✓ Emergency stop on the door of the cabinet

5.1.2 Carrier

- ✓ The MAGTRACK stops if the connection to the wireless control panel is broken.
- ✓ The MAGTRACK should always be used in combination with 2 fall protections. If the MAGTRACK becomes detached from the wall it will be caught by the fall protection.
- ✓ Refer to the supplier's manual to verify that the fall protection systems applied are suitable for the specific situation. In addition, check the manual of the fall protection systems used for guidelines on proper use, maintenance and required inspections.
- ✓ A wall contact sensor is optional. If this loses contact with the steel surface, both the MAGTRACK and the high pressure pump will be switched off.

5.1.3 Swing arm

- ✓ The swing arm is equipped with sensors that limit the stroke of the arm.

5.1.4 Blastcan

- ✓ A vacuum valve ensures that the vacuum pressure is limited.

5.1.5 Other accessories

- ✓ The MAGTRACK must be transported at all times on the specially designed transport plate. This reduces the magnetic force so that the MAGTRACK can, for example, be passed through a manhole. The MAGTRACK can also be safely mounted with this on the wall and then removed.
- ✓ The cables are equipped with strain reliefs to prevent the plug connections from being pulled. This strain relief must be properly fitted on both sides at all times.

6. SETTING UP AND INSTALLING

6.1 Positioning the carrier against the wall

The carrier is on a transport plate. Gently place this plate including carrier against the steel surface.



CAUTION! Use the handles designed for this purpose, otherwise there is a risk of entrapment. The carrier stays secured to the steel surface by the magnets.

6.2 Connecting the MAGTRACK



Disconnect the power from the control unit



If there is power on the control unit, an ignition source can occur when connecting or disconnecting plugs!

1. Connect the socket of the control unit to the cable.
2. Attach the strain relief for the cable to the control box frame.
3. Connect the plug of the cable to the socket of the MAGTRACK.
4. Attach the strain relief for the cable to the MAGTRACK. As can be seen in Figure 15



Always use the strain relief and locking lever with a plug connection! If this is missing, you may not work with the machine. This only applies in an atex zone.



Figure 14 MAGTRACK on a vertical surface

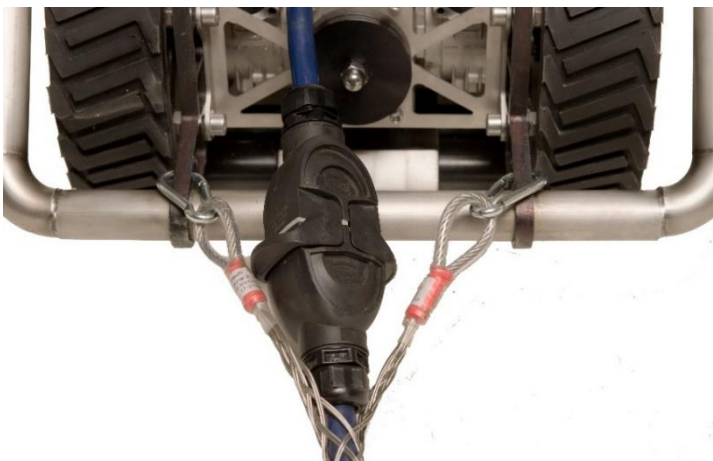


Figure 15 Pull relief

5. Connect the earth to the earth terminal at the back of the control unit, See Figure 16



The grounding of the control box, HD unit and any other connected machines must be connected to the same ground point to prevent a potential difference.



Apply step 5 t/m 9 only when an atex certified control unit is used.

6. Connect the compressed air to the connection on the side of the control unit, See Figure 17



Figure 17 Earth terminal

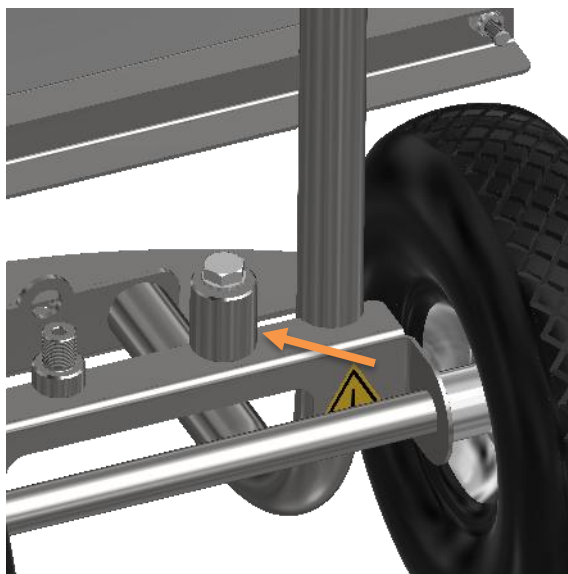


Figure 16 Control unit



The control unit is not allowed to be used if the earth is not connected.

7. Connect the compressed air supply to the control unit.
8. Connect the control unit to the power source
9. Switch on the compressed air supply.



The compressed air must be at least 2 bar/29 psi and max 3 bar/43 psi, the pressure-reducing valve on the side of the unit ensures that the correct air pressure is allowed into the control box.

10. The system will now flush the control box with air. After 3 minutes and 35 seconds the power on the cabinet will switch on. Power LED will light up on the control box door.



If the power LED does not light up after 3 minutes and 35 seconds, check whether the compressed air pressure is correct and the power source is correctly connected.

11. Start up the wireless console.



For use of the wireless console, see chapter 7.1 Operation of wireless console

12. Secure the fall protections.



Refer to §Fout! Verwijzingsbron niet gevonden. and §6.4.2 for instructions on how to use the fall arrestors with the various tools.

13. Gently drive the MAGTRACK off the transport plate.



CAUTION! The transporter plate is not magnetic. It will therefore fall off the wall as soon as the carrier drives off.

6.3 Set up Swing arm

6.3.1 Mounting the Swingarm on the Carrier



Disconnect the powersupply of the control unit before connecting the Swingarm



When there is power to the control box, an ignition source can be created when connecting or disconnecting plugs!



Position the MAGTRACK upside down or horizontally on the wall to make mounting easier

1. Remove the protection bar with the four M12 bolts as shown in Figure 19
2. Place the swing arm brackets on the rear frame of the carrier as shown in Figure 18

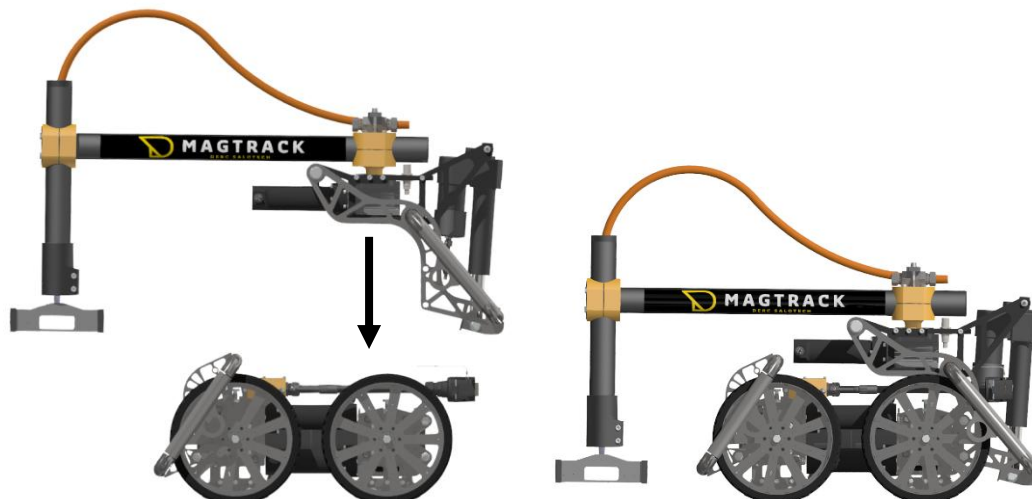


Figure 18 Swing arm installation on carrier

3. Mount the swing arm onto the carrier using the four bolts as shown in Figure 19

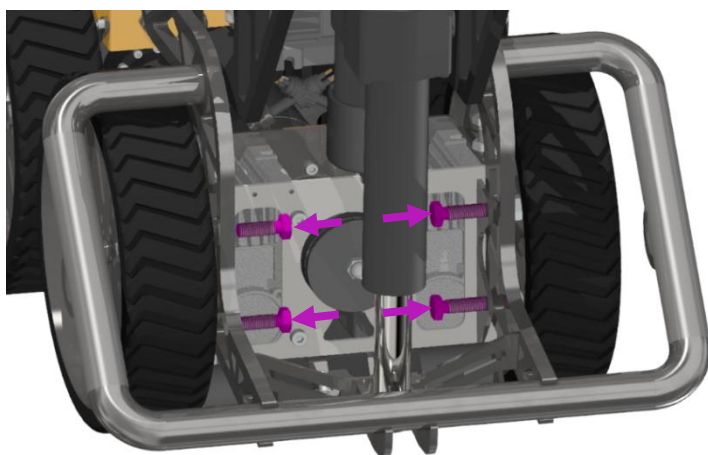


Figure 19 Bolt connection swing arm

4. Connect the sensor cables, swing drive and actuator cable.



The cables are equipped with color markings to indicate which cables should be connected to each other.



Ensure that the two sensor cables and the actuator cable are positioned next to the worm gear housing to prevent the cables from getting pinched between the moving parts. See Figure 20.

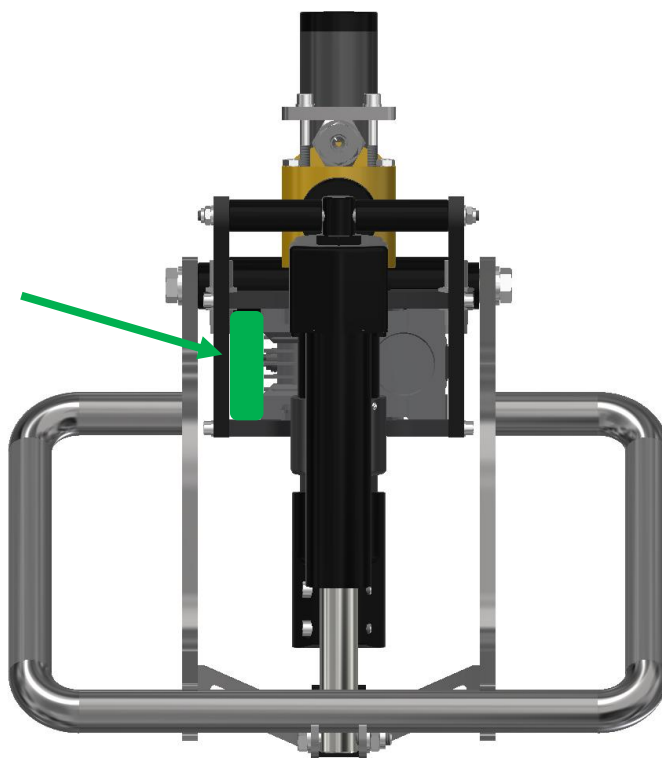


Figure 20 Pass-through location for actuator and sensor cables

6.3.2 Use of fall arrestor with Swingarm

Fall Arrestor Placement and Positioning

The correct installation and placement of a fall arrestor is essential for safety and to prevent damage to the machine in case it detaches from a steel surface.

 Incorrect use can result in highly dangerous situations for both the operator and bystanders.

 The position of the fall protection devices in relation to the Magtrack must meet the following requirements:

- ✓ The Magtrack must be positioned **between** the fall protection devices, with one on the left side and one on the right side.
- ✓ The Magtrack must be located **below** the fall protection devices.
- ✓ The fall protection lines must remain **straight** at all times!
- ✓ Attach the fall arrestor as **close to the surface** as possible to minimize any swaying movements.

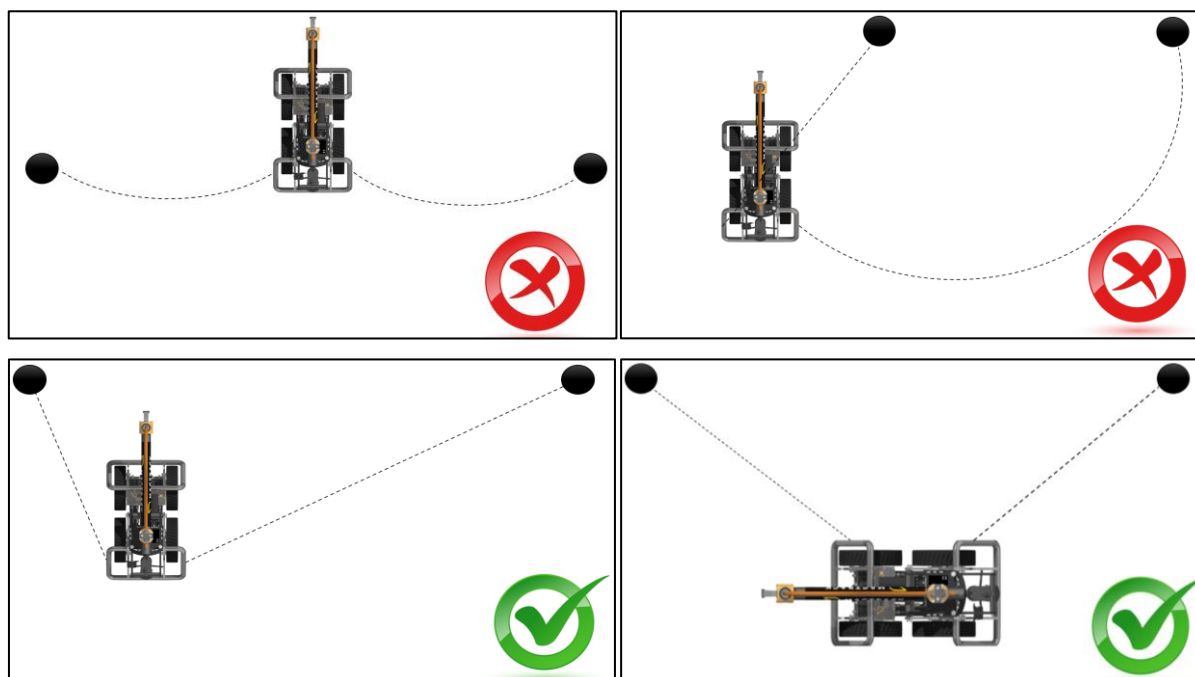


Figure 21 Fall arrestor placement

-  Ensure that both the mountingpoints and the fall arrest system comply with the requirements of the specific fall arrest system being used. For detailed information, refer to the supplier's manual.
-  Verify that the fall arrest system meets the required specifications and has been properly inspected.
-  In the event of an activation of the fall arrest system, the fall arrestor needs to be inspected by the supplier before further use.

6.3.3 Fall protection mounting on the Magtrack



The fall arrestors may only be connected at the specified mounting points.



When installing the fall arrestors, ensure that the swing arm cannot come into contact with the fall arrestor, as this could cause damage to both the swing arm and the fall arrestors.

Horizontal Cleaning

For horizontal cleaning, it is important to attach the fall protection at the designated points on the front and rear sides of the bullbar. Refer to Figure 22, where these points are indicated with red arrows.

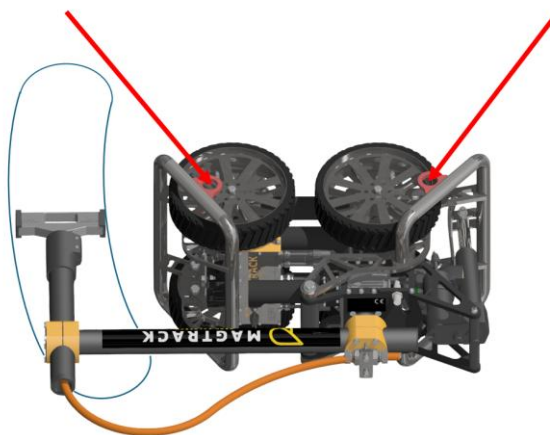


Figure 22 Horizontal fall protection

Vertical Cleaning

For vertical cleaning, the fall arrestors must be attached on the rear side of the Magtrack. The mounting points are indicated with red arrows in Figure 23.

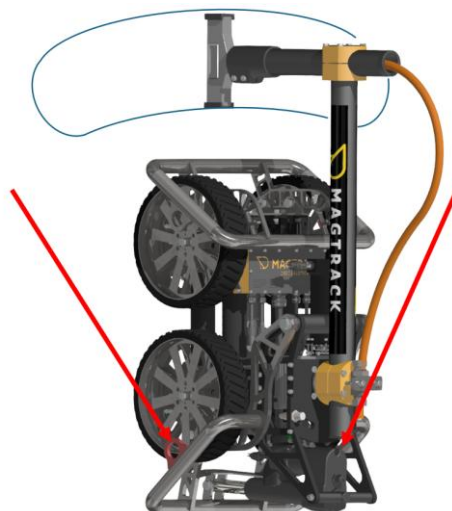


Figure 23 Vertical fall protection

6.3.4 Connecting high pressure water

1. Flush the high-pressure hose before it is connected.
2. Check the quality of the screw threads. They must be undamaged and burr-free.
3. Fit the high-pressure hose to the MAGTRACK connector.



When fitting, always use assembly paste on the male thread.

Always use a hose whip check! (See example in Figure 24).



Figure 24 Hose whip check

4. Use a hose whip check that is not made of metal. This could affect the swing arm sensors.

6.3.5 Changing nozzles

1. Switch off the high-pressure unit.



Always place nozzles of the same type and with the same bore in the spray arm to avoid imbalance of the cleaning tool.

2. Remove the nozzle, clean the thread in the manifold.
3. Fit the new nozzle with anti-seize paste. The permissible torque is 25Nm/18.5 lb-ft.



If the nozzles are not correctly placed, this may result in damage to the cleaning tool.

6.3.6 Nozzle selection

8 nozzles can be placed in the swing arm manifold. Two of these are responsible for the rotation. The remaining 6 nozzles are purely used for cleaning. The determination of the ratio depends on the type of work and the specifications of the high-pressure unit.



Figure 25 Red= rotation; green= cleaning

The correct nozzle configuration can be selected using the tables below and verified using the following criteria:

- ✓ The drive nozzles have a diameter that is **0.1 mm** larger than the cleaning nozzles.
- ✓ The combined reaction force of the drive nozzles is less than **160N**.
- ✓ The total reaction force is less than or equal to **500N**.



Outlet ports are allowed to be blocked off. But ensure that this is done in pairs to avoid imbalance.



Always place nozzles of the same type and with the same bore in the spray arm to avoid imbalance of the cleaning tool.



If the nozzles are not correctly placed, this may result in damage to the cleaning tool.



Oversized drive nozzles generate excessive reaction forces, leading to a too high rotationspeed of the manifold. This increased rotational speed results to more wear of the swivel.

4. The total flow rate of the nozzle configuration can be determined using the table below. The flow rate depends on both the nozzle size and the operating pressure.

For example: A nozzle with a diameter of 0,4 mm at a pressure of 3000 bar results in a flow rate of 3.9 l/min.

ART. NO.	NOZZLE ØD (mm)	Flow (l/min)							
		psi	psi	psi	psi	psi	psi	psi	psi
		7250	10875	14500	21750	29000	36250	40000	43500
		bar	bar	bar	bar	bar	bar	bar	bar
		500	750	1000	1500	2000	2500	2750	3000
965.000	0,00	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
965.020	0,20	0,4	0,5	0,6	0,7	0,8	0,9	0,9	0,9
965.025	0,25	0,6	0,8	0,9	1,1	1,2	1,4	1,4	1,5
965.030	0,30	0,9	1,1	1,3	1,5	1,8	2,0	2,0	2,1
965.035	0,35	1,3	1,5	1,8	2,2	2,5	2,7	2,9	3,0
965.040	0,40	1,7	2,0	2,3	2,8	3,2	3,6	3,7	3,9
965.045	0,45	2,1	2,6	2,9	3,6	4,1	4,5	4,7	4,9
965.050	0,50	2,6	3,1	3,6	4,4	5,0	5,6	5,8	6,1
965.055	0,55	3,1	3,8	4,4	5,3	6,1	6,8	7,1	7,4
965.060	0,60	3,7	4,5	5,2	6,3	7,3	8,1	8,4	8,8
965.065	0,65	4,4	5,3	6,1	7,4	8,5	9,5	9,9	10,3
965.070	0,70	5,1	6,2	7,1	8,6	9,9	11,0	11,5	11,9
965.075	0,75	5,8	7,1	8,1	9,9	11,3	12,6	13,1	13,7
965.080	0,80	6,7	8,2	9,4	11,4	13,1	14,5	15,2	15,8
965.085	0,85	7,6	9,2	10,6	12,9	14,8	16,4	17,1	17,9
965.090	0,90	8,5	10,3	11,9	14,5	16,6	18,4	19,2	20,0
965.095	0,95	9,6	11,7	13,4	16,3	18,7	20,8	21,7	22,6
965.100	1,00	10,6	13,0	14,9	18,1	20,7	23,0	24,0	25,1

Table 1 Nozzle flow

5. The total reaction force of the nozzle configuration can be determined using the table below. The reaction force depends on both the nozzle size and the operating pressure.

For example: A nozzle with a diameter of 0.4mm at a pressure of 3000bar results in a reaction force of 50.3N.

ART. NO.	NOZZLE Ød mm	Reaction Force (N)							
		psi	psi	psi	psi	psi	psi	psi	psi
		7250	10875	14500	21750	29000	36250	40000	43500
		bar	bar	bar	bar	bar	bar	bar	bar
		500	750	1000	1500	2000	2500	2750	3000
965.000	0,00	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
965.020	0,20	2,1	3,2	4,2	6,2	8,3	10,3	11,2	12,2
965.025	0,25	3,3	4,9	6,6	9,7	12,9	16,0	17,5	19,1
965.030	0,30	4,8	7,1	9,4	14,0	18,6	23,1	25,3	27,5
965.035	0,35	6,7	10,0	13,2	19,7	26,0	32,3	35,4	38,5
965.040	0,40	8,7	13,0	17,3	25,7	34,0	42,2	46,2	50,3
965.045	0,45	11,0	16,5	21,9	32,5	43,0	53,4	58,5	63,7
965.050	0,50	13,6	20,3	27,0	40,2	53,1	65,9	72,2	78,6
965.055	0,55	16,5	24,6	32,6	48,6	64,3	79,8	87,4	95,1
965.060	0,60	19,6	29,3	38,9	57,8	76,5	95,0	104,0	113,2
965.065	0,65	23,0	34,3	45,6	67,9	89,8	111,5	122,1	132,9
965.070	0,70	26,7	39,8	52,9	78,7	104,2	129,3	141,6	154,1
965.075	0,75	30,6	45,7	60,7	90,3	119,6	148,4	162,5	176,9
965.080	0,80	35,3	52,8	70,1	104,3	138,0	171,2	187,5	204,1
965.085	0,85	39,9	59,6	79,1	117,7	155,8	193,3	211,7	230,4
965.090	0,90	44,7	66,8	88,7	132,0	174,6	216,7	237,3	258,4
965.095	0,95	50,5	75,5	100,2	149,1	197,3	244,9	268,2	291,9
965.100	1,00	56,0	83,6	111,0	165,2	218,6	271,4	297,1	323,4

Table 2 Nozzle reaction force

6.3.7 *Adjusting swing arm angle*

The stroke of the swing arm can be adjusted using the sensors. You can see how to adjust these sensors in Figure 26. Make sure that the distance between sensor and arm is between 2 mm(5/64") and 4 mm(5/32") this is shown in Figure 27.

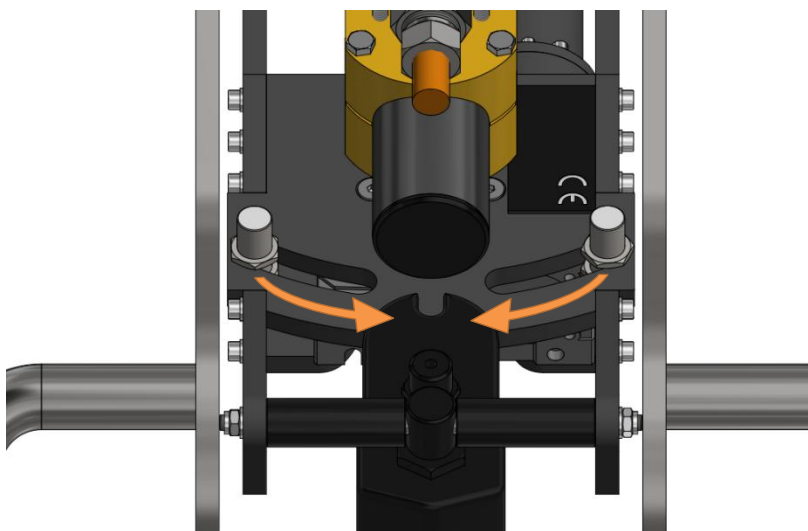


Figure 26 Adjusting sensors

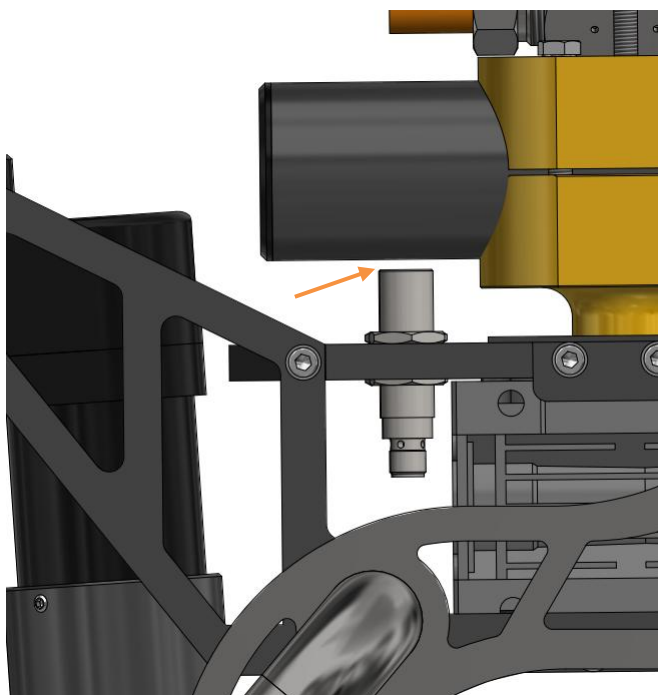


Figure 27 Sensor distance

6.3.8 *Adjusting nozzle distance Swingarm*

The required distance between the manifold and the surface may vary depending on the nature of the task. For example, when removing a coating, it is desirable to work closer to the surface. However, for tasks such as cleaning a tank wall with high welds, it is advisable to allow more space for the manifold to avoid potential collisions.

1. Turn off the high-pressure unit.
2. Loosen the four M8 bolts at the front of the arm a few turns to allow the vertical arm to move.
3. Set the desired height and secure the arm by tightening the four bolts.
6. For coating removal, a distance of **10 – 15 mm** between the nozzle and the surface is recommended.

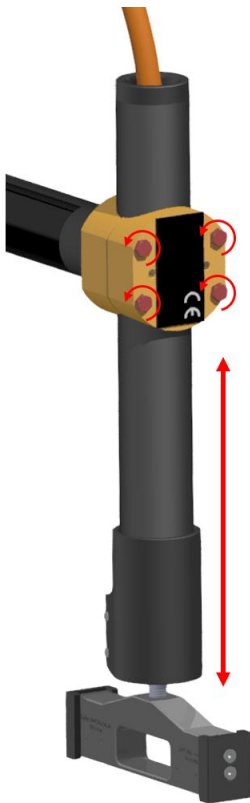


Figure 28 Height adjustment Swingarm

6.4 Setting up Blastcan & Curved Blastcan

6.4.1 Mounting the Blastcan on the Carrier

In this chapter, the assembly of the Blastcan and the curved Blastcan is described. The steps to be followed for assembling these two types of blast cans are identical.

1. Disassemble the front guard bracket by removing the four M12 bolts, as shown in Figure 29

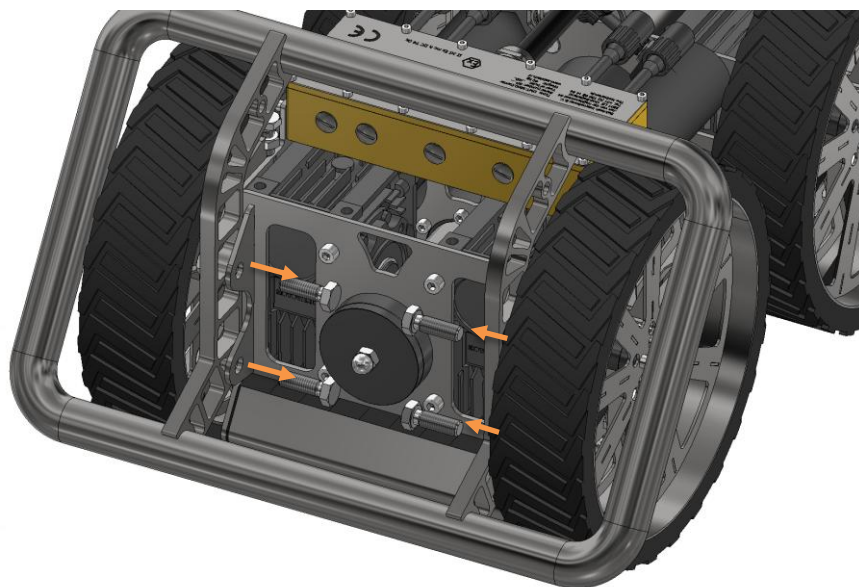


Figure 29 Protection bracket removal

2. Detach the gas springs by removing the pins (indicated by the red arrows) as shown in the image below.

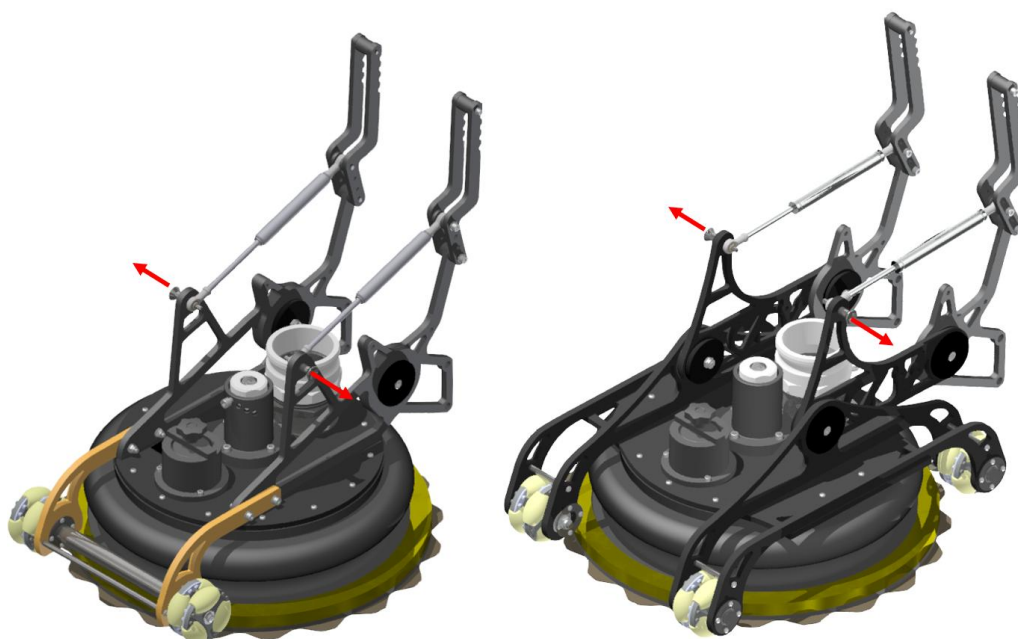


Figure 30 Disassembly of gas springs

3. Mount the Blastcan in the position of the guard bracket using the same screws, and secure the gas spring to the Blastcan by mounting the locking pins.

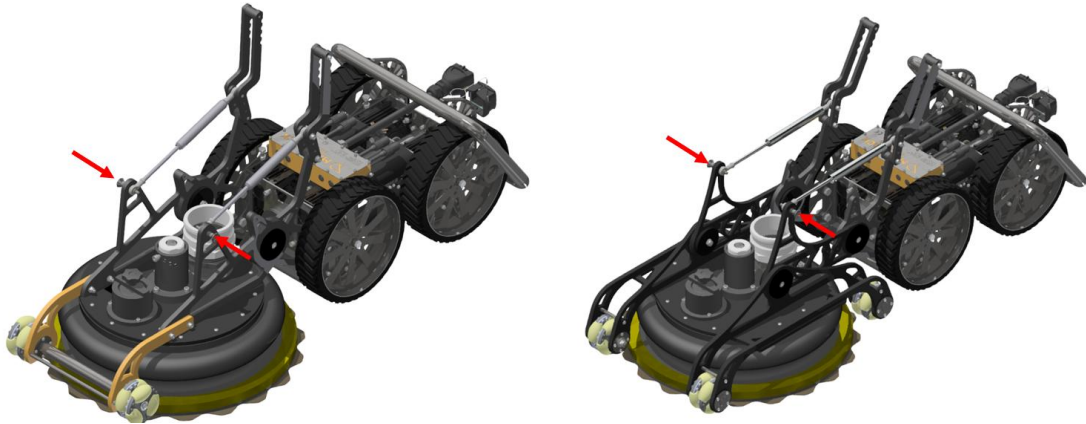


Figure 31 Blastcan gaspring connection

4. Push the Blastcan against the surface by pressing the two handles towards the gas spring. This will put the gas spring under tension.

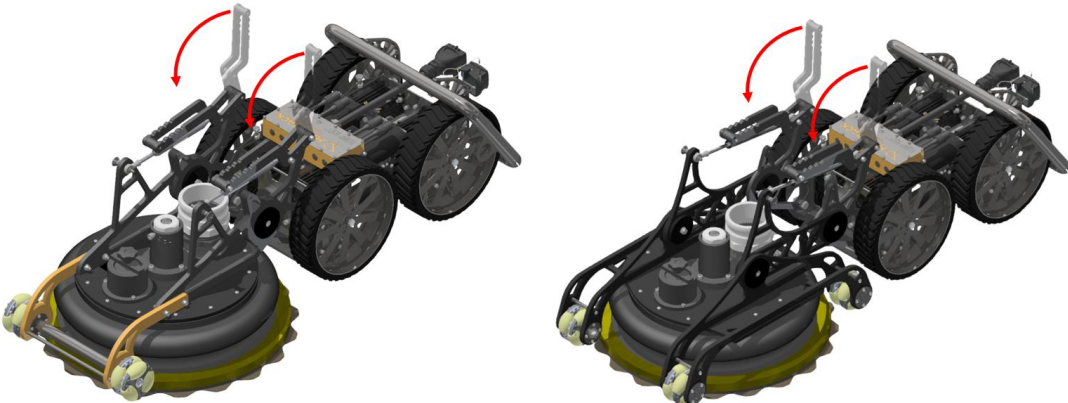


Figure 32 Blastcan tensioning

5. Attach the suction hose to the Blastcan



Mount the vacuum hose to the rear of the Magtrack to reduce load on the blast can

6. Install the ground cable from the carrier to the Blastcan

6.4.2 Use of fall arrestor with Blastcan

Fall arrestor placement and positioning

The correct installation and placement of a fall arrestor is essential for safety and to prevent damage to the machine in case it detaches from a steel surface.

 Incorrect use can result in highly dangerous situations for both the operator and bystanders.

 The position of the fall protection devices in relation to the Magtrack must meet the following requirements:

- ✓ The Magtrack must be positioned **between** the fall protection devices, with one on the left side and one on the right side.
- ✓ The Magtrack must be located **below** the fall protection devices.
- ✓ The fall protection lines must remain **straight** at all times!
- ✓ Attach the fall arrestor as **close to the surface** as possible to minimize any swaying movements.

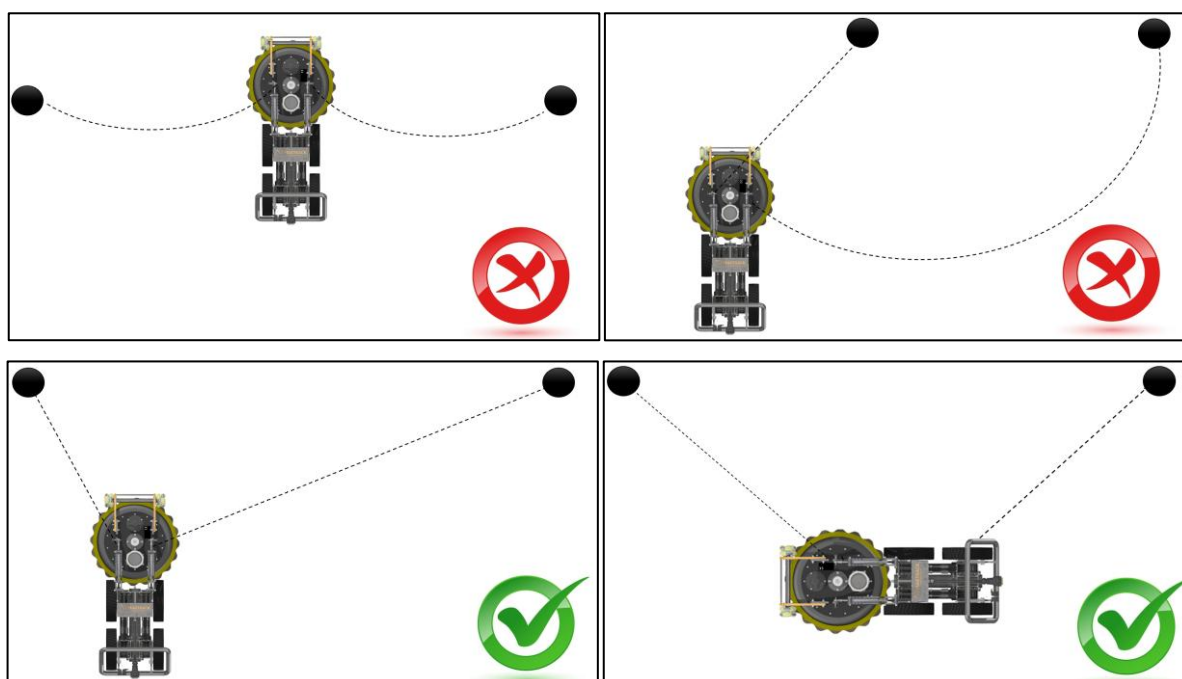


Figure 33 Fall arrestor placement

-  Ensure that both the mounting points and the fall arrest system comply with the requirements of the specific fall arrest system being used. For detailed information, refer to the supplier's manual.
-  Verify that the fall arrest system meets the required specifications and has been properly inspected.
-  In the event of an activation of the fall arrest system, the fall arrestor needs to be inspected by the supplier before further use.

Fall protection mounting on the Magtrack

Mount the two fall protection devices as described in 6.4.2. Attach the two fall arrestors at the designated location on the Blastcan for vertical work (see the left side of the image). For horizontal work, one fall protection device must be mounted on the carrier and one on the blast can, as shown below.

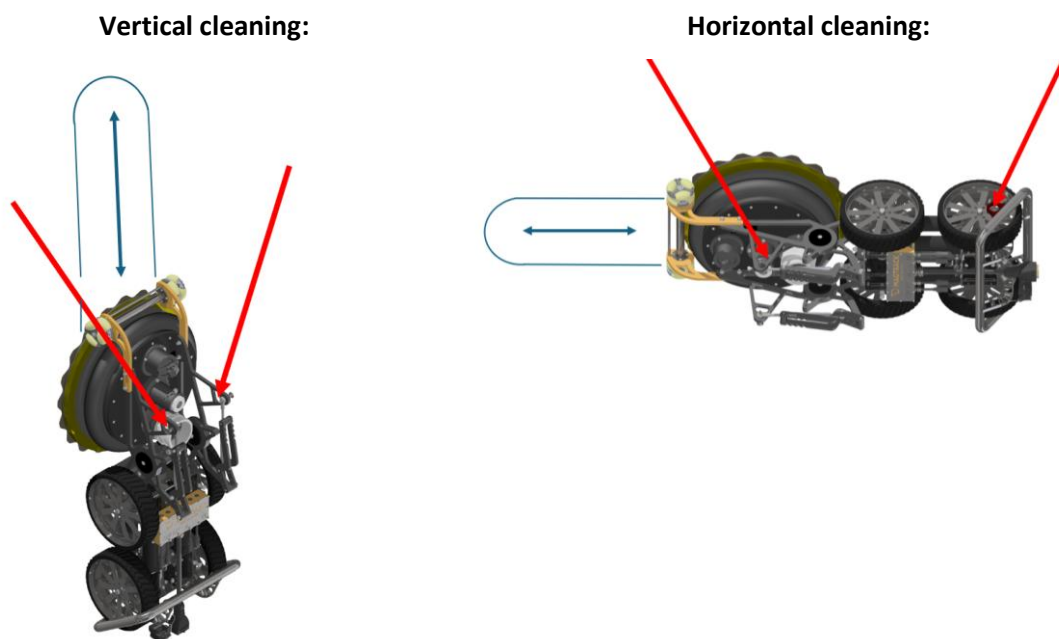


Figure 34 Fall arrestor placement based on driving direction

6.4.3 Connecting high pressure water

1. Flush the high-pressure hose before it is connected.
2. Check the quality of the screw threads. They must be undamaged and burr-free.
3. Fit the high-pressure hose to the MAGTRACK connector.



When fitting, always use assembly paste on the male thread.

Always use a hose whip check! (See example in Figure 35).



Figure 35 Hose whip check

6.4.4 Changing nozzles

1. Switch off the high-pressure unit.
2. Remove the locking pin from the gas spring and rotate the Blastcan upwards. Then, secure the Blastcan using the same pins, as shown in the image below.



3. Remove the nozzle, clean the thread in the manifold.
4. Fit the new nozzle with anti-seize paste. The permissible torque is 25Nm/18.5 lb-ft.

6.4.5 Nozzle selection

20 nozzles can be placed in the Blastcan manifold. Four of these are responsible for the rotation (red). The remaining 16 nozzles are purely used for cleaning (green).

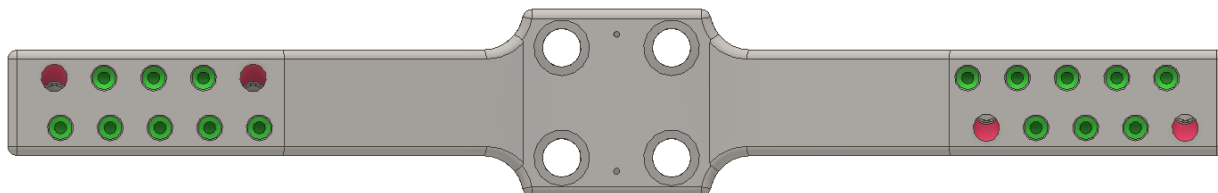


Figure 36 Red= rotation; green= cleaning

The correct nozzle configuration can be selected using the tables below and verified using the following criteria:

- ✓ The drive nozzles have a diameter that is **0.1 mm** larger than the cleaning nozzles.
- ✓ The combined reaction force of the drive nozzles is less than **320N**.
- ✓ The total reaction force is less than or equal to **500N**.



Outlet ports are allowed to be blocked off. But ensure that this is done in pairs to avoid imbalance.



Always place nozzles of the same type and with the same bore in the spray arm to avoid imbalance of the cleaning tool.



If the nozzles are not correctly placed, this may result in damage to the cleaning tool.



Oversized drive nozzles generate excessive reaction forces, leading to a too high rotationspeed of the manifold. This increased rotational speed results in in more wear of the swivel

5. The total flow rate of the nozzle configuration can be determined using the table below. The flow rate depends on both the nozzle size and the operating pressure.

For example: A nozzle with a diameter of 0,4 mm at a pressure of 3000 bar results in a flow rate of 3.9 l/min.

ART. NO.	NOZZLE ØD (mm)	Flow (l/min)							
		psi	psi	psi	psi	psi	psi	psi	psi
		7250	10875	14500	21750	29000	36250	40000	43500
		bar	bar	bar	bar	bar	bar	bar	bar
		500	750	1000	1500	2000	2500	2750	3000
965.000	0,00	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
965.020	0,20	0,4	0,5	0,6	0,7	0,8	0,9	0,9	0,9
965.025	0,25	0,6	0,8	0,9	1,1	1,2	1,4	1,4	1,5
965.030	0,30	0,9	1,1	1,3	1,5	1,8	2,0	2,0	2,1
965.035	0,35	1,3	1,5	1,8	2,2	2,5	2,7	2,9	3,0
965.040	0,40	1,7	2,0	2,3	2,8	3,2	3,6	3,7	3,9
965.045	0,45	2,1	2,6	2,9	3,6	4,1	4,5	4,7	4,9
965.050	0,50	2,6	3,1	3,6	4,4	5,0	5,6	5,8	6,1
965.055	0,55	3,1	3,8	4,4	5,3	6,1	6,8	7,1	7,4
965.060	0,60	3,7	4,5	5,2	6,3	7,3	8,1	8,4	8,8
965.065	0,65	4,4	5,3	6,1	7,4	8,5	9,5	9,9	10,3
965.070	0,70	5,1	6,2	7,1	8,6	9,9	11,0	11,5	11,9
965.075	0,75	5,8	7,1	8,1	9,9	11,3	12,6	13,1	13,7
965.080	0,80	6,7	8,2	9,4	11,4	13,1	14,5	15,2	15,8
965.085	0,85	7,6	9,2	10,6	12,9	14,8	16,4	17,1	17,9
965.090	0,90	8,5	10,3	11,9	14,5	16,6	18,4	19,2	20,0
965.095	0,95	9,6	11,7	13,4	16,3	18,7	20,8	21,7	22,6
965.100	1,00	10,6	13,0	14,9	18,1	20,7	23,0	24,0	25,1

Table 3 Nozzle flow

6. The total reaction force of the nozzle configuration can be determined using the table below. The reaction force depends on both the nozzle size and the operating pressure.

For example: A nozzle with a diameter of 0.4mm at a pressure of 3000bar results in a reaction force of 50.3N.

ART. NO.	NOZZLE Ød mm	Reaction Force (N)							
		psi	psi	psi	psi	psi	psi	psi	psi
		7250	10875	14500	21750	29000	36250	40000	43500
		bar	bar	bar	bar	bar	bar	bar	bar
		500	750	1000	1500	2000	2500	2750	3000
965.000	0,00	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
965.020	0,20	2,1	3,2	4,2	6,2	8,3	10,3	11,2	12,2
965.025	0,25	3,3	4,9	6,6	9,7	12,9	16,0	17,5	19,1
965.030	0,30	4,8	7,1	9,4	14,0	18,6	23,1	25,3	27,5
965.035	0,35	6,7	10,0	13,2	19,7	26,0	32,3	35,4	38,5
965.040	0,40	8,7	13,0	17,3	25,7	34,0	42,2	46,2	50,3
965.045	0,45	11,0	16,5	21,9	32,5	43,0	53,4	58,5	63,7
965.050	0,50	13,6	20,3	27,0	40,2	53,1	65,9	72,2	78,6
965.055	0,55	16,5	24,6	32,6	48,6	64,3	79,8	87,4	95,1
965.060	0,60	19,6	29,3	38,9	57,8	76,5	95,0	104,0	113,2
965.065	0,65	23,0	34,3	45,6	67,9	89,8	111,5	122,1	132,9
965.070	0,70	26,7	39,8	52,9	78,7	104,2	129,3	141,6	154,1
965.075	0,75	30,6	45,7	60,7	90,3	119,6	148,4	162,5	176,9
965.080	0,80	35,3	52,8	70,1	104,3	138,0	171,2	187,5	204,1
965.085	0,85	39,9	59,6	79,1	117,7	155,8	193,3	211,7	230,4
965.090	0,90	44,7	66,8	88,7	132,0	174,6	216,7	237,3	258,4
965.095	0,95	50,5	75,5	100,2	149,1	197,3	244,9	268,2	291,9
965.100	1,00	56,0	83,6	111,0	165,2	218,6	271,4	297,1	323,4

Table 4 Nozzle reaction force

6.4.6 *Adjusting nozzle distance Blastcan*

The distance required between the manifold and the surface may vary depending on the nature of the task. For example, when removing coating, it is desirable to work closer to the surface. However, for tasks such as cleaning a tank wall with high welds, it is advisable to give the manifold more space to avoid possible collisions. The following describes how to adjust the distance.

1. Turn off the high-pressure unit.
2. Tilt the Blastcan away from the surface so that it is at 90° to the surface, see §6.4.4
3. Loosen the bolt and slide the manifold to the desired distance.
4. Tighten the bolt again.



Make sure that the bolt is secured in the cone of the swivel!

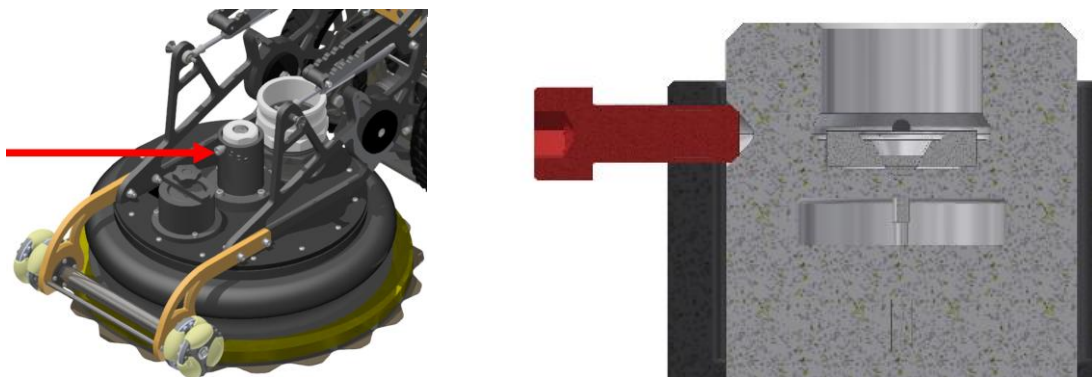


Figure 37 adjusting the nozzle distance

6.4.7 *Adjustment of vacuum valve*

To increase the vacuum pressure in the Blastcan, the star knob on the vacuum valve (indicated in purple) must be turned clockwise. To decrease the pressure the valve must be turned counter clockwise.



More vacuum flow improves the extraction,



Excessive vacuum pressure(>0,4 bar) increases the load on the carrier, making it more difficult to maneuver the Blastcan.

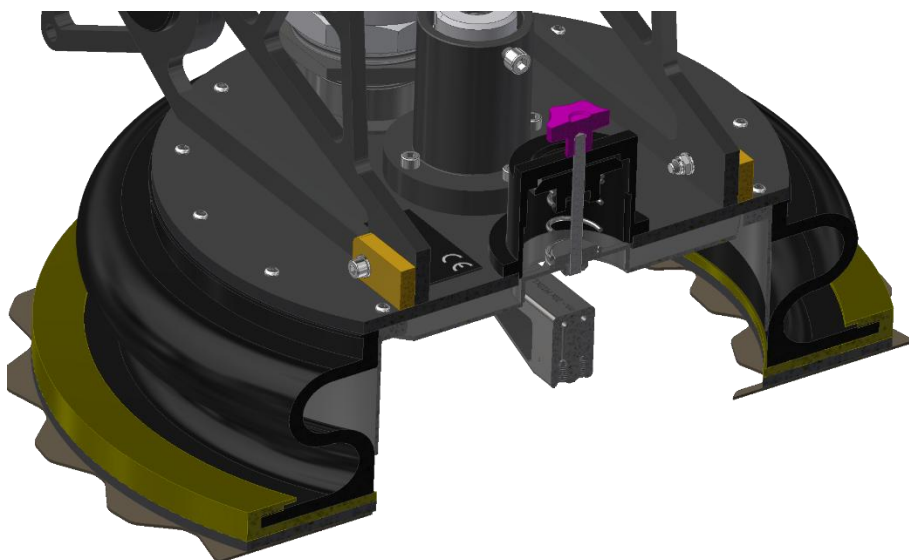


Figure 38 Vacuum pressure adjustment

7. OPERATING INSTRUCTION

Partition off the spray site with warning signs and barrier tape or chains at least 6 metres away from the spray site. The warning signs must be in yellow/black and are available from your supplier (see Figure 39). Only operating personnel are allowed to be inside the partitioned-off area. One operator is to operate the high-pressure unit.



Figure 39

-  The system is not allowed to be connected without the control panel.
-  The plug is not allowed to be connected or disconnected when the power supply is connected to the control unit.
-  **Caution!** magnetism can affect the functioning of a pacemaker.
-  Setting-up and installing the DERC MAGTRACK should be done in accordance with this user manual.
-  You are not allowed to stand under the Magtrack. This is because of the fall hazard and water and dirt coming down. During use, the 2 fall protections must be fitted at all times.
-  The connector between the MAGTRACK and the cable is important – it must be secured sufficiently to prevent it coming loose. You are not allowed to use the MAGTRACK in the absence of this protection.
-  Avoid obstacles as collisions may lead to metal coming into contact with metal and give rise to friction (heat development). This is hazardous in an ATEX zone.
-  When using the Blastcan, turn on the vacuum before activating the high pressure
-  Make sure that the hoses and cable are long enough and sufficiently free to move when the DERC MAGTRACK is put into use.
-  Make sure all four wheels are on the surface to be cleaned. The magnetic operation is optimal when the space between the magnets and the steel surface is 7 mm(9/32"). If this is not the case, the magnets can be adjusted in accordance with chapter 7.2.1.
-  **CAUTION!** For steel surfaces that are thinner than 6 mm(¼") , the magnetic force will decrease significantly.
-  Do not install more than 200 kg(440 lbs) of equipment on the carrier. Also take into account the reaction force of the cleaning tools.

7.1 Operation of wireless console

7.1.1 Remote functions



Figure 40 Lay out Jay remote

Controle	Functie
M	"on" button
1	Display
2	Emergency stop/standby button
N1	Navigation button " Tab "
N2	"Up" push button; Navigation button for switching between modes
F1	Function button 1
F2	Function button 2
F3	Function button 3
F4	Function button 4
J1	Joystick: to be used for driving the Magtrack.
Jb	Push-button joystick: In case of step program: as long as the push button is operated, the arm will rotate in the opposite direction. The sensors will be overridden. When the button is released, the program will resume In case of stationary Swingarm: press the button and move the joystick left or right. This allows the arm to be positioned manually. The sensors are then bypassed. Note that the arm must be positioned between the sensors before enabling the step program In case of tilt swing arm: Press the button and move the joystick up and down. This allows you to manually move the arm up-down

A3	Option: This switch is only applicable when using a tilt swing arm. During the step program, it is possible to move the arm up and down.
A4	Swingspeed: Speed of the Swingarm
A5	Step mode: Time of driving during step program
A6	Swing arm: When executed, the arm is activated and the automatic swing arm program is started. If stepping is not desired, set the step time to 0%. To cancel the automatic step program, move the joystick forwards or backwards.
A7	Automatic drive: This function is intended for use with a Blastcan. Use it in combination with "speed" A12 and "Steering trim" A11 for best results. To cancel automatic drive, move the joystick forwards or backwards.
A8	High pressure: This is for switching the high-pressure pump on and off. It must be connected to the control box
A11	Steering trim: The trim function can be used to ensure that a straight line is created. For example, when there is traction difference between left wheels and right wheels. Notice the normal position of this knob is the centre position.
A12	Speed: this determines the speed of driving during the automatic step program and auto drive function
C2	Connector to be hardwired.

Table 5 Remote system

7.1.2 Association

Each receiver has its own channel on which it transmits. When using a remote for the first time or after an update, the remote may need to be paired with the receiver. To do this, the following steps should be taken.

1. Switch on the control box and wait 20 seconds before proceeding to the next step.



1. Pull out the emergency stop on the right side of the remote.



2. Press the green " On " push button



The remote must be in close proximity to the receiver for pairing to take place.

3. Select the " Association " menu on the home screen and press the green " On " push button



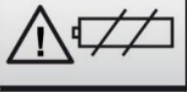
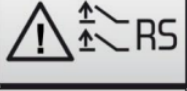
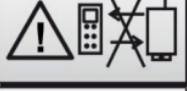
To change things in the "association" and "configuration" menu, a Pin code is required. In this case, consult DERC for the correct PIN code.

4. After entering a Pin code, you will be asked to select a Baudrate. Select Baudrate 1. The remote will now go through all channels one by one.
5. Ensure there are no sources of interference, such as walkie-talkies, mobile phones or other remote controls, between the remote control and the receiver.
6. When the receiver is found by the remote, "select" should be selected.

7.1.3 Alarm screen

There are a number of pre-programmed alarm screens. See below the overview of these alarms and their meaning. This is from the manufacturer's manual

List of messages:

Message or pictogram	Description	Display time
	The standby function is going to be activated since the transmitter has not been used over a certain period of time.	Momentary. This message appears for 30 seconds before automatic shutdown of the transmitter
	The battery level is low. The battery must be recharged or replaced.	Momentary. This message appears several times before shutdown of the transmitter (battery discharged).
	The Receiver is in « safety » mode. The safety relays have been deactivated.	Permanent, up to reactivation of the Receiver (by pressing the « On » button on the transmitter).
	A change of parameter could not be synchronised with the Receiver (not acknowledged).	Momentary.
	Low radio link level between transmitter and receiver	Momentary
	A fault has been detected on actuation of a control component	Each time the concerned control component is actuated
	Dead man function Pre-alarm: This message indicates that the system will be put into "safety" mode if no control component is activated (or previously defined Dead man button)	Momentary (adjustable with iDialog software)
	The transmitter parameters saved in the Receiver memory differ from those saved in the transmitter memory.	Permanent, when starting the transmitter (the application's data must be reprogrammed into the memory of the receiver and / or the transmitter)
	Changing the mode is not possible because a control component is activated (button pressed, joystick handled etc ...)	As long as a control component remains activated

Note 1: All of the alarm messages can be cleared by pressing the « On » button  on the transmitter.

Note 2: 8 alert messages are available for the application. They can be configured with the **iDialog** programming software.

Figure 41 alarm messages

7.1.4 Start-up

1. Switch on the control box and wait 20 seconds before proceeding to the next step.

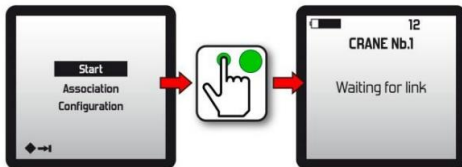


2. Pull out the emergency stop on the right side of the remote.



3. press the green " On " push button.

4. Select the " Start " menu on the home screen and press the green " On " push button



5. Press green again until current control turns on. This is indicated by the white LED on the control box.
6. Does current control not switch on after pressing the green button. Then check the emergency stop on the control box door
7. The remote is now ready for use. To switch off the remote control, press the emergency stop button.

7.1.5 Blastcan

When operating the blast can, it is recommended to drive in straight lines and move to the next lane after a certain distance. To simplify this process, an auto-drive function is available. The following steps explain how auto drive function works:

1. Follow the start-up procedure as explained in paragraph 7.1.4
2. Press button N2 on the remote to select the Blastcan mode on the remote. By selecting the correct screen, the relevant information is displayed.
3. Use the joystick to align the Magtrack for the first lane.
4. Press toggle switch A7 forward for 1 second to activate auto drive function forward. Do the opposite for driving backward
5. The driving speed can be adjusted using the potentiometer labelled "SPEED" (A12). Set the speed to achieve the desired cleaning result.
6. The potentiometer labelled "Steering Trim" (A11) can be used to correct any deviation in the lane, ensuring minimal overlap. 0-50% is steering to the left. 50-100% is steering to the right.



Note that the Magtrack will continue make adjustments as long as the steering trim is not set to 50%. This also applies when driving with the joystick.

7. To cancel the auto-drive function, the joystick can be pushed briefly forward or backward. Alternatively, you can push toggle switch “A7” forward again.

7.1.6 Swingarm

With the swing arm, the arm will swing from left to right, and then the carrier will take a step forward for the next swing. To simplify this process, a step program is available. The following steps explain how the step function works:

1. Follow the start-up procedure as explained in §7.1.4
2. Press button “N2” on the remote to select the Swingarm mode on the remote. By selecting the correct screen, the relevant information is displayed.

Step program

3. Use the joystick to align the Magtrack for the first lane.
4. Check on the display what the swing speed and step time is.
5. When starting first on the job start with step time on 0% and swing speed on 10% to make sure that the arm is moving between the sensors and to check the stroke the arm makes.
6. Press toggle switch “A6” forward for 1 second to Step program function forward. Do the opposite for driving backward
7. Adjust the swing speed with toggle “A4” to ensure the cleaning result is optimal.
8. The length and speed of the step can then be adjusted to create minimal overlap and maximize efficiency. This can be achieved by fine-tuning the step speed “A12” and duration “A5”.
9. Incase the Swingarm has a tilt function the arm can be moved up and down with toggle switch “A3”
10. To cancel the step program, the joystick can be pushed briefly forward or backward. Or push the toggle switch again in the selected direction.

Manual operation with the joystick

When cleaning hard-to-reach areas, you can manually control the arm using the joystick.

1. Make sure the step program is deactivated before controlling the arm manually
2. To move the arm left or right, press and hold button “JB” on the joystick and move the joystick in the desired direction.
3. To move the arm up or down, press and hold button “JB” on the joystick and move the joystick in the desired direction.



When the arm is manually operated, the sensors will be bypassed. If the arm is rotated too far, it may cause damage to cables or other obstacles.

7.2 Adjustments MAGTRACK

7.2.1 Magnet adjustment

⚠ Caution: magnetism! Pacemakers can be affected by magnetism

The wheel profile will gradually wear down with use, reducing the distance between the magnets and the surface. If this distance becomes less than 4mm, the magnets must be adjusted.

Adjust the magnets as follows:

1. Loosen the in Figure 42 indicated (4x) bolts 1 or 2 turns with an extended socket 13 mm. Do not disassemble them completely!
 - a. When they can't be reached all 4 at the same time. Turn the wheel with the remote until they are reachable.
2. Repeat step 1 for the other side.

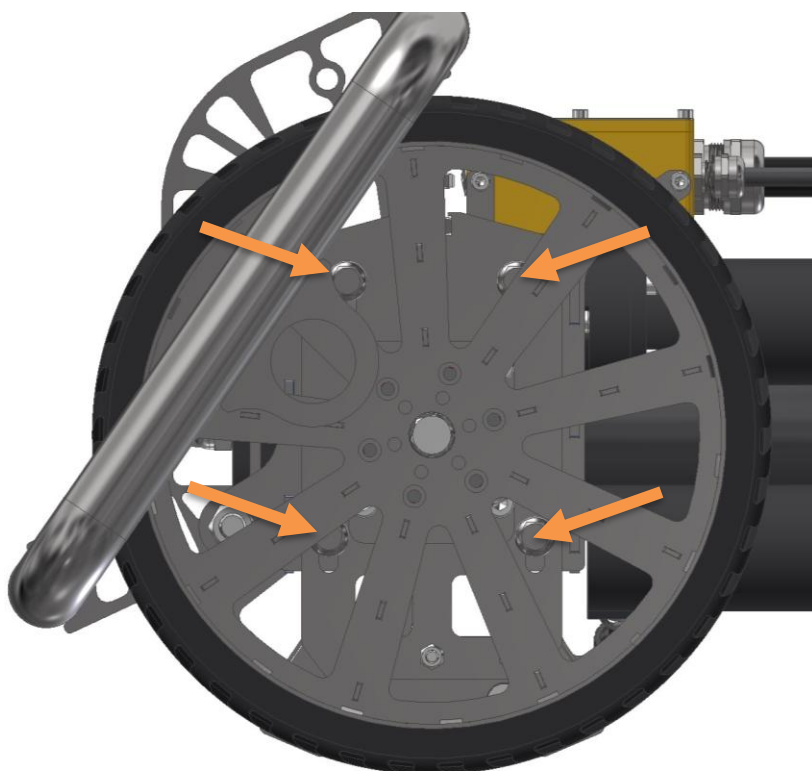


Figure 42 Loosen up 4 bolts

3. To adjust the magnet, use the indicated bolts Figure 43. Clockwise to move the magnet away from the wall. Counter clockwise to move the magnets to the wall.



Ensure that the magnet remains parallel to the surface after adjustment.

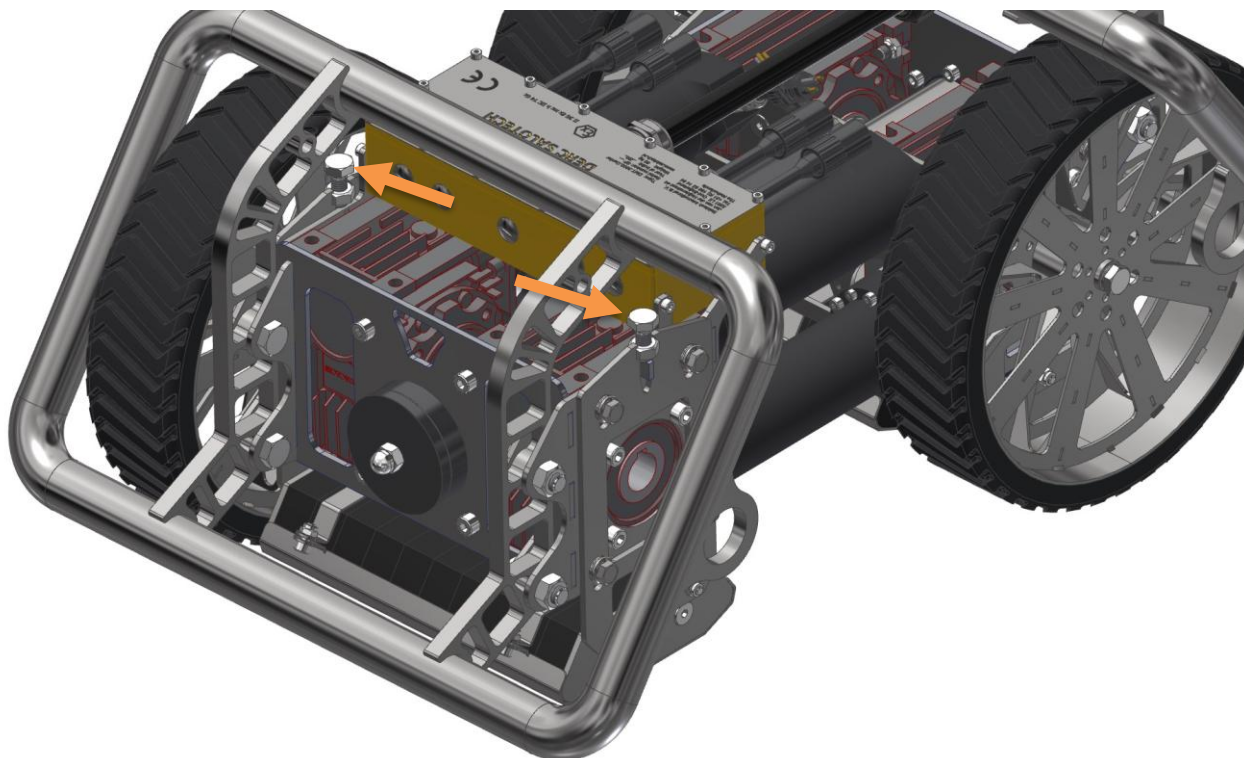


Figure 43 Height adjustment magnets

4. Do not make the gap between the magnet and wall less than 3mm(1/8") to prevent damage to the magnets.
5. When magnets are the correct distance tighten the bolts from step 1 (both sides). Do this with a torque of 30 Nm(22.1 ft-lbs).
6. The rear magnet package can be adjusted the same way.

8. TRANSPORT



Transport of the machine and its components must be carried out in accordance with the relevant legislation and regulations (EU roads and traffic law).



Check that all loose and movable components are properly secured.



Check that the machine is properly secured on the vehicle.



Check that the machine has no unacceptable effects on the way in which the vehicle concerned drives, for example due to a centre of gravity that is too high.

8.1 Transport on site

The carrier can easily be transported using the transport plate designed for that purpose. When moving the carrier, the strength of the magnets should be taken into account.



Never move the carrier with your hands under the transport plate

It is recommended to keep equipment and tools that are sensitive to magnetism, such as phones, pacemakers, cameras, steel open-ended wrenches, etc. at least 50 cm(20") away from the magnets

8.2 Transport by road or air

When transporting the Derc MAGTRACK, additional safety measures have to be taken because of the high magnetic force.

Always insert the carrier in the middle of the transport crate. Place a steel plate that is at least 5 mm(13/64") in thickness under the magnet to reduce the radiation intensity of the magnets.

The magnets are placed in the Halbach configuration and therefore the highest magnetic force is underneath.

Before transporting, check the relevant transport company's regulations for the transport of permanent magnets. If necessary, perform measurements using a certified Gauss meter. Do this on all sides of the transport crate.

9. MAINTENANCE



Inspection and maintenance tasks must be carried out in accordance with the scheduled maintenance and inspection tasks as described in this manual. In addition to the above-mentioned safety instructions, the safety instructions in force locally should also be observed.



When replacing or repairing machine parts, only use authorized spare parts and repair methods.



Only personnel that have had training are permitted to carry out these tasks. This applies to both maintenance and operational tasks. It is the responsibility of the machine's owner to keep a record of the details of this training. Only well-trained and experienced personnel may operate the machine. Operating personnel should be aware of all the circumstances that could occur in order to act quickly and suitably in the event of an emergency situation.



Only authorised personnel may perform maintenance tasks. Respect the safety regulations as mentioned in paragraphs 1.2 and 1.6



After maintenance has been carried out, the machine must be tested to ensure that it can be used safely again.



For maintenance of the swivel, see the manual supplied with it.



For specific maintenance, see the documentation provided by the supplier.

9.1 General



If you need to check certain parts, this may mean lubricating and performing a visual check for play, wear, defects, tightness, leakage, etc.



Before maintenance is carried out, the high pressure water and the power supply of the machine must first be removed.



After the first 50 hours of operation, the machine must be completely checked.

- ✓ Clean the outside of the DERC MAGTRACK (remove dirt, dust, etc.).
- ✓ Check that all information and pictograms are clean and legible.
- ✓ Check the quality of the screw threads.
- ✓ Secure connections properly with appropriate wrenches and use at least 4 turns of the screw thread.
- ✓ Check the machine for unusual noises.

9.2 Preventive daily maintenance

In determining the maintenance requirements for the machine, normal operating conditions and normal ambient temperatures are assumed. If the machine is used under heavy operating conditions or under extreme conditions (in consultation with the manufacturer) the frequency of maintenance tasks should be adjusted accordingly.



Periodic maintenance is necessary to ensure minimal outage time and safe operation of the machine in the future.

- ✓ Visually check that there are no contaminants present to affect the operation.
- ✓ Before each use, check the high-pressure hose and connections for leakage.



A leaky fitting can result in a high-pressure liquid jet! Always check that there is no leakage before starting work.

9.3 Preventive weekly maintenance

- ✓ Check the high-pressure hose for damage.
- ✓ Check the extension cable and connectors, from control box to Magtrack, for damage or defects.
- ✓ Check the swivel, see included manual
- ✓ When using the Blastcan, check that the rubber seal is nice and clean.
- ✓ Make sure the nozzles are still working properly.
- ✓ ATEX-inspection in accordance with EN-IEC 60079-17:2014
- ✓ Check the wheels for wear and tear.

9.4 Preventive half-yearly maintenance

- ✓ Check all moving parts of the DERC MAGTRACK. Readjust these, if necessary.
- ✓ ATEX-inspection volgens EN-IEC 60079-17:2014



When working in an extremely polluted or hot environment, this check should be carried out more frequently.

9.5 Preventive annual maintenance

- ✓ Check the DERC MAGTRACK for defects.
- ✓ Inspect and perform maintenance on the wireless console according to the supplied manual.
- ✓ Check the wheels for wear and tear.
- ✓ HD inspection of the cleaning tool
- ✓ ATEX-inspection in accordance with EN-IEC 60079-17:2014
- ✓ Inspection of fall arrestor systems according to the manufacturer's requirements

9.6 Recommended tools

To make adjustments to the Magtrack during use, a set of non-magnetic tools is required. Below is an overview of what is recommended to be kept as standard with a Magtrack.

- ✓ Hex key set with metric sizes
- ✓ Combination ratchet wrench or combination wrench in the following sizes: 13 mm, 17 mm, 19 mm.
- ✓ Ratchet with extension and socket 13 mm
- ✓ Set of feeler gauges for accurate adjustment of magnets
- ✓ Torque wrench

9.7 Spare parts

Spare parts for the DERC MAGTRACK are available through the DERC Salotech Office Sales Department.
DERC Salotech

Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
The Netherlands
T: +31 186 62 14 84
Internet: www.dercsalotech.nl
E-mail: info@salotech.nl

10. FAULTS AND REPAIRS

This chapter describes most common faults of the machine. The cause and solution for each fault is stated. There are faults that are easy to resolve and faults that require a certain level of technical knowledge. A distinction is made in this regard.



Only qualified and trained personnel may perform tasks on the machine.



Switch off power to the machine correctly before resolving any faults.



After the fault has been resolved, test the machine to ensure that it can be used safely again.



Technical faults may only be resolved by technically skilled personnel. Possible solutions are indicated by the letter 'T'. If a fault may be resolved by an operator, this will be indicated by the letter 'O'.



If the fault cannot be resolved or there are any questions, please contact the Technical Service of DERC Salotech.

10.1 Faults DERC MAGTRACK

The table below provides a summary of possible faults.

Malfunction		Possible cause		Possible solution		
A.	No power (no green led on control box)	1.	No stable power supply	1.	Try another power source	O
		2.	Main switch deactivated	2.	Open the control box and check if main switch is activated	T
		3.	Only for Atex controlbox: No compressed air	3.	Check the check if the air pressure is > 2 bar	O
B.	No current control (no white light on control box)	1.	E-stop activated	1.	Check and deactivate all E-stops	O
C.	No radio link See §7.1.3	1.	No power	1.	Check if the green power led is on, see A	O
		2.	Not associated	2.	Associate the remote by following the steps in §7.1.2	O
		3.	Receiver has no power	3.	Check the status light on the receiver. Contact Derc Salotech for more support	T
		4.	Too many obstacles between the control box and remote	4.	Move the control box to another location Connect the remote hardwired with the control box	O
		5.	Too much noise/disruption on the channel/same frequency	5.	Switch to another channel	O
D.	1 wheel doesn't rotate	1.	Fuse	1.	See §10.2.3 for replacing the fuse	O
		2.	Mechanically blocked	2.	Check visually	O

		3.	Broken motor or gearbox	3.	To check if the motor failed: Switch the cables of the drive that does not rotate with a drive that is working. If the defect wheel rotates see D2. If wheel still doesn't rotate check §10.2.2 for motor replacement.	T
		4.	Wiring	4.	Check with a multimeter the wiring. See Electrical diagram which is inside the control box	T
E.	2 wheels on 1 side don't work	1.	Fuses	1.	See §10.2.3 for replacing the fuses	T
		2.	Mechanically blocked	2.	Check visually	O
		3.	Failed motors	3.	To check if the motor failed: switch the connectors of the failed motor with a motor which is still working. If the defect wheel rotates see D3. If wheel still doesn't rotate check §10.2.2 for motor replacement	T
		4.	Wiring	4.	Check with a multimeter the wiring. See Electrical diagram which is inside the control box	T
		5.	Failed motor controller	5.	Check with a multimeter if there is output voltage on the motor controller. Keep in mind that function of the motor controller is activated with the remote while measuring. Contact Derc Salotech for support	T
F.	No traction	1.	Too low magnet force	1.	Set magnets between 6-8 mm as described in §7.2.1	O
		2.	Payload too high	2.	Reduce payload by using lightweight hoses. Place the hoses in a support to reduce load on the Magtrack.	O
		3.	Too much vacuum pressure on Blastcan	3.	Re-adjust vacuum valve see §6.4.7	O
		4.	Dirty wheels	4.	Clean the wheels and don't drive over dirty surfaces	O
		5.	Wall thickness too thin	5.	A wall thickness below 6 mm can be critical for the magnet force. It's not possible to use the Magtrack.	
G.	Carrier detaches from the wall	1.	Too low magnet force	1.	Set magnets between 6-8 mm as described in §7.2.1	O
		2.	Reaction force too high	2.	Lower the flow or pressure.	O
		3.	Payload too high	3.	Reduce payload by using lightweight hoses. Place the hoses in a support to reduce load on the Magtrack.	O

H.	Manifold doesn't rotate	1.	Incorrect ratio between drive nozzle and cleaning nozzle	1.	Check §6.3.6 or 6.4.5 on how to place the nozzles	O
		2.	Nozzles in the manifold are not equal on both sides	2.	Check §6.3.6 or 6.4.5 on how to place the nozzles	O
		3.	Defective swivel	3.	Check the manual of the swivel on how to repair and maintain the swivel	T
I.	Swingarm goes over sensor	1.	Sensor cables are swapped	1.	Try to swap the sensor cables between left and right	O
		2.	Other metal objects	2.	Check if no other metal objects pass by the sensor.	O
		3.	Defective sensor (This can be confirmed if the light on the sensor lights up when a metal object is held above it)	3.	Replace the sensor. (part nr. DMT.630)	T
		4.	Wiring problem	4.	Check the wiring with a multimeter. See Electrical diagram which is inside the control box	T
J.	Blastcan leakage	1.	No or insufficient extraction	1.	Use a 4" lightweight vacuum hose. Make sure the minimal specifications of the vacuum pump are: 1300m ³ /h with -0.2 bar	
		2.	Worn-out wear seal	2.	Replace wear plate (part nr DMT.730)	O
		3.	Not enough vacuum pressure/flow	3.	Re-adjust vacuum valve see §6.4.7	O

10.2 Repairs to the DERC MAGTRACK

- ✓ Replacing wheels
- ✓ Replacing a drive
- ✓ Replace a fuse

10.2.1 Replacing wheels

The wheels of the carrier must be replaced when the polyurethane layer around the wheels is worn. The polyurethane layer also ensures the correct distance of the magnets in relation to the steel wall.

1. Place the carrier on a clean, empty and non-magnetic workbench

 Use non-magnetic tools!

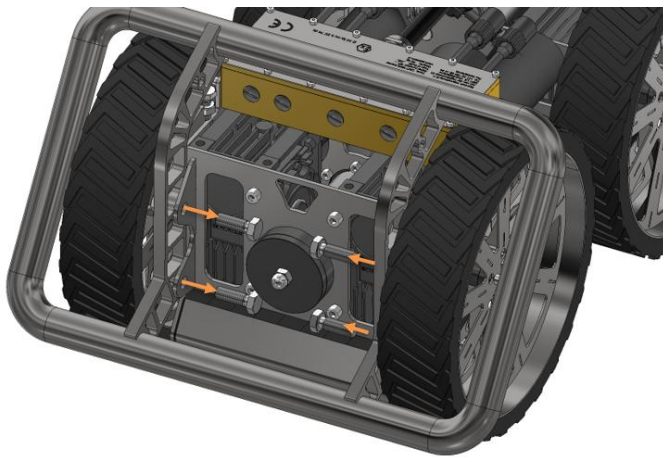


Figure 44 Detaching guard bracket

2. Remove the guard bracket by unscrewing the four bolts. As shown in Figure 44.
3. Remove the bolt and take the wheel including axle out of the gear box. This can be seen in Figure 45.

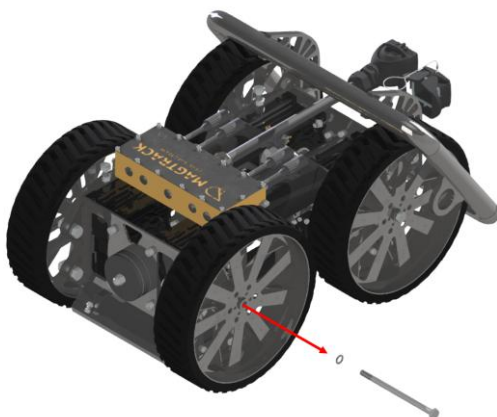


Figure 45 Wheel removal

Make sure the key does not fall out of the axle.

4. Fit the new wheel in reverse order. Fasten the bolt with a torque of 30Nm(22.1 ft-lbs)

10.2.2 Replacing a drive

 Working with powerful permanent magnets is very dangerous and should be done carefully! Therefore make sure a loose magnet is never in the vicinity of another magnet or magnetic surfaces.

 **Caution!** magnetism can affect the functioning of a pacemaker

 Use non-magnetic tools!

1. Disconnect the connectors from the motors
2. Turn the carrier with the magnets pointing upwards and place the wooden guard block on one of the magnet set.



Figure 46 Remove domed nut

3. Remove the nut and end cap as shown in Figure 46.
4. Pull both sides apart and place one side on a clean and non-magnetic surface which is at least 2 m(6ft) away from the workbench!

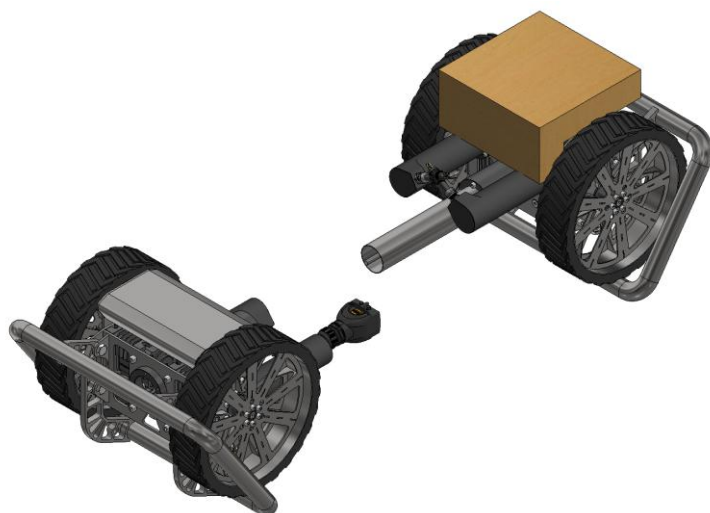


Figure 47 Split the machine

5. Disassemble the 6 socket heads screws and pull the motor out of the gearbox.

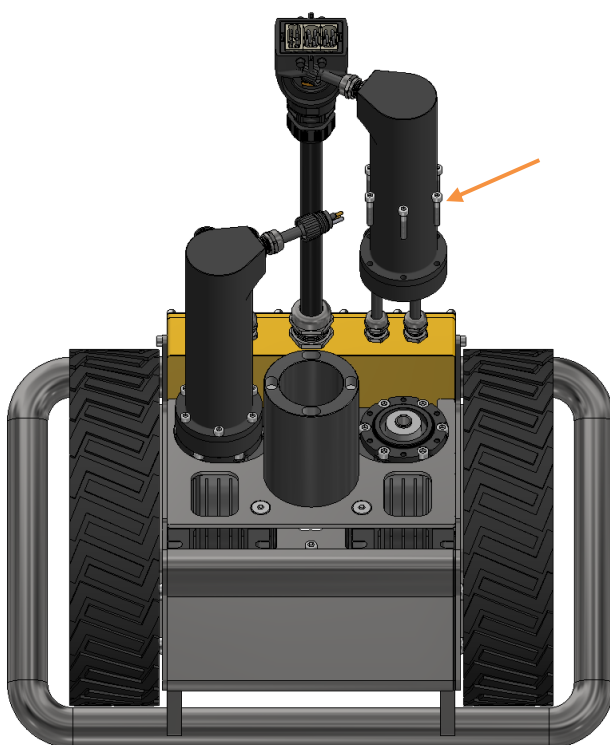


Figure 48 Remove the drive

6. To assemble a new motor follow the previous steps in reverse order.

10.2.3 Replace fuse

The fuses of the drives are located at the bottom of the control panel. These are the fuses numbered

11 = drive left front = Ceramic 10A 20x5 T

13 = drive left back = Ceramic 10A 20x5 T

15 = drive right front = Ceramic 10A 20x5 T

17 = drive right back = Ceramic 10A 20x5 T

19 = drive Swingarm = Ceramic 6,3A 20x5 T

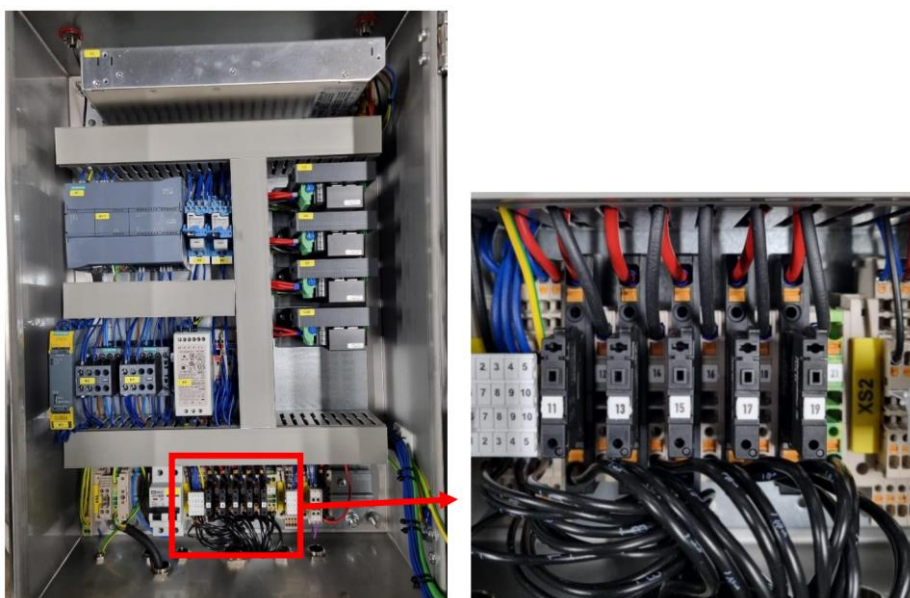
Fuses can be ordered with the following part numbers

DMT.FUSE-10A – box of 10 pieces Ceramic 10A 20x5 T

DMT.FUSE-6,3A – box of 10 pieces Ceramic 6,3A 20x5 T

Follow the next steps to replace a fuse:

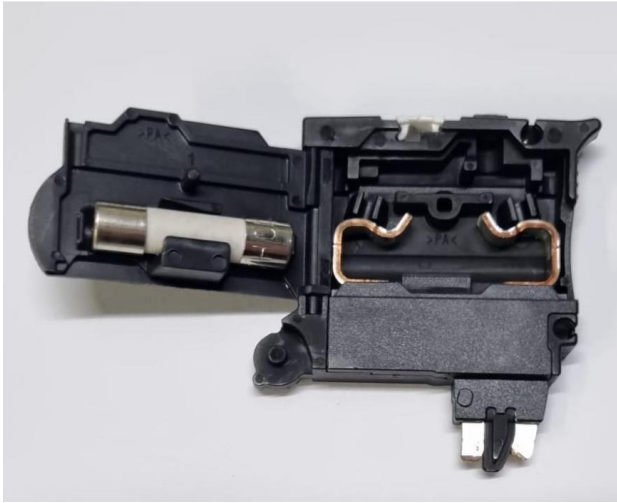
1. Ensure that the control panel is de-energized, and the power is disconnected.



2. Remove the fuse holder from the terminal strip by tilting it downward and then pulling it backward.



3. Open the fuse holder and replace the fuse.



4. Reinstall the fuse holder into the terminal strip

11. DISASSEMBLY AND DISPOSAL

When parts are replaced, all the old parts, materials and (liquid) substances must be disposed of in accordance with applicable environmental regulation.

EU Declaration of conformity

Salotech International B.V.
Jan van der Heijdenstraat 44
3261 LE Oud-Beijerland
Nederland
Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.3000.CARRIER

to which this declaration relates is in accordance with the provision of the following directives and standards:

Machinery directive	(2006/42/EG)
ATEX directive	(2014/34/EU)
EMC directive	(2014/30/EU)

And is conformity with the following standards or other normative documents:

EN-IEC 60204-1:2018
EN-IEC 60079-18
EN-ISO 80079-36
EN 61000-6-4:2019
EN-ISO 12100:2010
EN-ISO 60079-0:2018/AC:2020
EN-ISO 13854:2019
EN 61000-6-2:2016-RL

DMT.3000.CARRIER will have the following ATEX code

CE  **II 3G Ex mc h IIC T4 Gc**

Signature:

A handwritten signature in black ink, appearing to be 'D. van der Wielen', written over a horizontal line.

Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland

EU Declaration of conformity

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Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.2.3000.SWING

to which this declaration relates is in accordance with the provision of the following directives and standards:

Machinery directive	(2006/42/EG)
ATEX directive	(2014/34/EU)
EMC directive	(2014/30/EU)

And is conformity with the following standards or other normative documents:

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EN-ISO 80079-36
EN 61000-6-4:2019
EN-ISO 12100:2010
EN-ISO 60079-0:2018/AC:2020
EN-ISO 13854:2019
EN 61000-6-2:2016-RL

DMT.2.3000.SWING will have the following ATEX codes

DMT.2.610:

CE  **II 3G Ex ec h IIC T4 Gc**

DMT.2.620-UHP:

CE  **II 3G Ex h IIC T4 Gc**

Signature:



Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland

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Declare under sole responsibility that the product:

DMT.2.3000.ABRASIVE

to which this declaration relates is in accordance with the provision of the following directives and standards:

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ATEX directive	(2014/34/EU)
EMC directive	(2014/30/EU)

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EN-ISO 80079-36
EN 61000-6-4:2019
EN-ISO 12100:2010
EN-ISO 60079-0:2018/AC:2020
EN-ISO 13854:2019
EN 61000-6-2:2016-RL

DMT.2.3000.ABRASIVE will have the following ATEX codes

DMT.2.610:

CE  **II 3G Ex ec h IIC T4 Gc**

DMT.2.620-ABRASIVE:

CE

Signature:

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Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.2.3000.SWING-TILT

to which this declaration relates is in accordance with the provision of the following directives and standards:

Machinery directive	(2006/42/EG)
ATEX directive	(2014/34/EU)
EMC directive	(2014/30/EU)

And is conformity with the following standards or other normative documents:

EN-IEC 60204-1:2018
EN-IEC 60079-18
EN-ISO 80079-36
EN 61000-6-4:2019
EN-ISO 12100:2010
EN-ISO 60079-0:2018/AC:2020
EN-ISO 13854:2019
EN 61000-6-2:2016-RL

DMT.2.3000.SWING-TILT will have the following ATEX codes

DMT.2.610-TILT:

CE  **II 3G Ex ec mc h IIC T4 Gc**

DMT.2.620-UHP:

CE  **II 3G Ex h IIC T4 Gc**

Signature:



Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland

EU Declaration of conformity

Salotech International B.V.
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Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.2.3000.ABRASIVE-TILT

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EMC directive	(2014/30/EU)

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EN-IEC 60079-18
EN-ISO 80079-36
EN 61000-6-4:2019
EN-ISO 12100:2010
EN-ISO 60079-0:2018/AC:2020
EN-ISO 13854:2019
EN 61000-6-2:2016-RL

DMT.2.3000.ABRASIVE -TILT will have the following ATEX codes

DMT.2.610-TILT:

CE  **II 3G Ex ec mc h IIC T4 Gc**

DMT.2.620-ABRASIVE:

CE

Signature:

A handwritten signature in black ink, appearing to be 'D. van der Wielen', written over a horizontal line.

Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland

EU Declaration of conformity

Salotech International B.V.
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Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.3000.BLASTCAN & DMT.2.3000.BLASTCAN

to which this declaration relates is in accordance with the provision of the following directives and standards:

Machinery directive	(2006/42/EG)
ATEX directive	(2014/34/EU)

And is conformity with the following standards or other normative documents:

EN-IEC 60204-1:2018
EN-ISO 12100:2010
EN-ISO 60079-0:2018/AC:2020
EN-ISO 13854:2019

DMT.3000.BLASTCAN & DMT.2.3000.BLASTCAN will have the following ATEX code

CE  II 3G Ex h IIC T4 Gc

Signature:

A handwritten signature in black ink, appearing to be 'D. van der Wielen', written over a horizontal line.

Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland

EU Declaration of conformity

Salotech International B.V.
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Nederland
Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.3000.CTRL.110 & DMT.3000.CTRL.230

to which this declaration relates is in accordance with the provision of the following directives and standards:

Machinery directive	(2006/42/EG)
EMC directive	(2014/30/EU)
Radio Equipment Directive	(2014/53/EU)

And is conformity with the following standards or other normative documents:

EN-IEC 60204-1:2018
EN-IEC 60079-14:2014
EN-IEC 60079-2:2015
EN 62311:2020
EN 62368-1:2014+A11:2017
EN 301 489-1 V2.2.3
EN 301 489-3 V2.1.1
EN 300 220-1 V3.1.1
EN 300 220-2 V3.1.1

Signature:

A handwritten signature in black ink, appearing to be 'D. van der Wielen', written over a horizontal line.

Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland

EU Declaration of conformity

Salotech International B.V.
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3261 LE Oud-Beijerland
Nederland
Tel: +31 186 62 14 84

Declare under sole responsibility that the product:

DMT.3000.CTRL.110EX & DMT.3000.CTRL.230EX

to which this declaration relates is in accordance with the provision of the following directives and standards:

Machinery directive	(2006/42/EG)
ATEX directive	(2014/34/EU)
EMC directive	(2014/30/EU)
Radio Equipment Directive	(2014/53/EU)

And is conformity with the following standards or other normative documents:

EN-IEC 60204-1:2018
EN-IEC 60079-14:2014
EN-IEC 60079-2:2015
EN-IEC 60079-18
EN 62311:2020
EN 62368-1:2014+A11:2017
EN 301 489-1 V2.2.3
EN 301 489-3 V2.1.1
EN 300 220-1 V3.1.1
EN 300 220-2 V3.1.1

DMT.3000.CTRL.110EX & DMT.3000.CTRL.230EX will have the following ATEX code

CE  **II 3G Ex mb pzc IIC T4 Gc**

Signature:



Date:

25-02-2025

Name: D. van der Wielen
(Manager Development & Engineering)

Place: Oud-Beijerland, Nederland