

Booklet of maintenance and warranty **CHRONO MP3**



Date of put in order : _____

Serial number from cleaner : _____

Information

Brand / modèle	Hexagone / Chrono MP3	REFERENCE
Manufactured on the	/ /20__	
Cleaner serial number	CM____-____	XCMP3N____
Pump serial number	_____	P00012
Right engine serial number	_____	M00020
Left engine serial number	_____	M00020
Captor serial number	____-____	EF00__
Cable serial number	CM_____	C2MA__
box serial number	____-____	E00034
Electronic card serial number	____-____	EC0031
Remote control serial number	____-____	EG0015
Sound card serial number	____-____	EC0032

Information

Supplying voltage	110 à 240 V AC +/-10%
Frequency (Hz)	50 à 60 +/-2%
Length of electrical sector cable (m)	2.5
Power (W)	500W
Supplying voltage (cleaner alone)	24V

Weight and dimension

Size of cleaner alone Lxlxh (cm)	49x59x42
Size cleaner+trolley Lxlxh (cm)	69x64x110
Weight of cleaner alone (Kg)	20,5
Weight of cleaner and cable (Kg)	35
Weight of complete appliance (Kg)	49
Filtration capacity (cm ³)	1* 8560

Characteristics

Vacuum power (W)	1* 250
Flow (m ³ /h)	40
Mechanical power (W)	2* 25
Motor rotating speed (t/min)	110
Length of standard cable (m)	25
Filtration meshing (μ)	105

All these technical data are for information for M model. We reserve the right to carry out modifications or development to any of the described products or program through this booklet. We would not have to keep you aware of this.



Dear Customer,

Congratulations on your purchase of a HEXAGONE robotic pool cleaner and we trust you will enjoy the benefits of your new state of the art robotic cleaner.

The cleaner range has been designed, manufactured and checked with the utmost care so that you will be completely satisfied with it.

Please take the time to read this Operation Manual before you use your new robotic pool cleaner.

This manual contains all the necessary information required to ensure the optimum and safe operation of your cleaner.

For any other additional information, contact your dealer (as shown below) in relation to the utilization and maintenance of your cleaner.

Their service technicians are available for any questions, support or training necessary to ensure the correct operation of your robot.

Yoann Chouraqui
Directeur Général Hexagone

INFOS useful

Adresse :

HEXAGONE
1-5 rue Michel Carré
95104 – Argenteuil - FRANCE
Tél. +33 (0)1 34 34 11 55
Fax. +33 (0)1 34 34 11 50

Web site:

www.myhexagone.com

email contact:

- Général: info@myhexagone.com
- Service après vente: sav@myhexagone.com
- Service clientèle: ob@myhexagone.com
- Service commercial: commercial@myhexagone.com

Tél.+33 1 34 34 11 55

www.myhexagone.com / info@myhexagone.com

Safety

- ⚠ • Keep the robot out of the reach of children
- ⚠ • Place the trolley so that the cleaner can reach the farthest corner of the pool leaving the trolley at minimum 3.5m from pool edge.
- ⚠ • Never let anybody going in swimming pool during pool cleaning
- ⚠ • Never put the trolley in water, just the robot has to go in water
- ⚠ • Only connect the Control Box to a power outlet with an earth connection and protected by a residual current circuit-breaker of 30mA maximum.
- ⚠ • Avoid work direct under the sun, place the electric box in the shadow.
- ⚠ • To avoid any electrical risk, never open the box yourself. Ask for a qualified person.
- ⚠ • Never try to repair the electrical sector cable. Contact your retailer to organize replacement of parts and prevent from any risk.
- ⚠ • Never pull on the cable.
- ⚠ • Cleaner for an industrial purpose. It has to be handled by qualified person
- ⚠ • Operator have to keep hands away from driving belt system while cleaner is connected
- ⚠ • Operator have to keep hands away from pump turbine while cleaner is connected
- ⚠ • When lifting the robot out of the pool, take care from back injury. Possibility of hoist trolley, contact your retailer.



Destruction – Environment protection

Respectful of directive DEEE - 2002/96/CE, worn electronic and electric products have to be destroyed apart from usual wastes to promote its reuse, recycling or any other way of savings. And this will also lead to limit quantity of wastes. When you get rid of this product you have to follow local advices. Do not throw in nature but put it back to a specialized center or take contact with your retailer who will inform you during buying a new product.

Index

1. Cleaning and consumables	6
A – Cleaning to perform	6
B – Consumables	6
2. Mechanical maintenance - procedure	7
3. Your safety	9
A – Conditions	9
B – Purpose of the warranty	9
C – Transport damage	9
D – Compliance	9
4. – Exploded View And Parts List	10
A – Cleaner	10
B – Trolley	12
C – Electronic box	16
D – Remote control	17
5. Maintenance planning	18
6. Note	20
7. Maintenance contract	21

1. Cleaning and consumables

A – Cleaning to perform

A regular cleaning has to be made to maintain your cleaner efficiency :

- ❖ Daily : visual check of global status. Check that belts, straps are in place and do the cleaning of filtration.
- ❖ Weekly : check of the inside, to verify if any foreign product is in. Wash teh robot with clear water (do not wash teh electronic box, neither the cable plug from floatin cable). This cable must be done daily in case of aggresiv water like salt water for exemple. Unwind cable in case of twisting to remove every round.
- ❖ Monthly : Check state of roll brace, cleaning of pump turbine (shut down the cleaner and disconnect it during this operation) and redressor, control teh battery level of remote control, check the filtration quality.
- ❖ Annually : revision of motors and pump *performed by Hexagone*

B – Consumables

REFERENCE	QTY	part	Hours of work
DB0002	4	Belt	500
DB0010	2	Caterpillar strap	1500
DC0006	44	PVC brushes	750
DC0017	4	PVA foam (long)	1500
DC0026	4	PVA foam (short)	1500
DF0033	2	Roll axis	2250
D00039	4	Roll	2250
F00021	1	Filter	750
JA0054/58/61	01/01/2001	Join of filtration	3000
P00012REVF	1	Revision of pump	1000
M00020REVF	2	Revision of motor	1600

This tablïod indicates lifetime of consumables and time between revision for the pump and motors developped for your kind or cleaner.

Any going beyond of these times during the period of under guarantee cancels the validity of this one.

2. Mechanical maintenance - procedure



Before any maintenance on a clenaer you must be sure taht no power supply is connected to prevent from any injury.

A - Change of consumable: motricity - drive

- To put the caterpillar in position to leave it (part without barb at the entry of throat of the plastic shoe)
- To draw on the caterpillar towards outside and to make turn owe the hand the roller to completely leave the caterpillar from the plastic shoe
- To make leave the caterpillar of the throat of the roller while drawing above.
- To make leave each belt the throat pulley engine. To facilitate this operation: to use a screwdriver and to make turn handly the roller taken by the belt.
- To leave the axis roller while drawing towards outside and to exploit the flexibility of the frame to leave the axis on a side. To leave the other side then
- To withdraw the rollers of the axis
- To dismount the plastic shoe on outside and to exploit the flexibility of the frame to make pass the caterpillar
You can now change the whole or part of consumable necessary.

To follow the procedure in the other direction for the reassembly. Made attention with controlling the presence of the ring, that the belts do not cross with the reassembly.

In the event of change of belts a 30 minutes grinding in water in radio control is necessary before launching the automatic.

B - Change of consumable: brushes - foam

To follow the previous procedure to reach the rollers.

To withdraw the brushes PVC or foam PVA presents while cutting them to the cutter or while leaving them the roller (extensible parts)

To position back the new handset of brush PVC - foam PVA.

For brushes PVC, it is necessary to stick the first and the last on the roller with glue type cyanoacrylate (to review 4 gluing spot with 90°)

For foams PVA, it is necessary to drill: (4 rivets for DC0033 and 2 for DC0034)

- To drill foam in reverse turn then to drill the roller with a drill of diameter 6.5mm (if roller not bored yet)
- To insert the rivets forces some by taking guard to hear well the positioning of the rivets (click)
- To finish the installation of the rivet by exerting a pressure using a tool like the handle of a large screwdriver.

C - Revision of pump

The revision pump consists in carrying out a standard exchange of your pump by another provided by Hexagone or one of its approved distributors.

In no case, a revision exerted by your care could be regarded as a revision of manufacturer and will cancel in fact all warrabnty of your appliance.

- To withdraw the ring of closing of hood
- To remove the hood and the plate of filtration
- To unhook the pump on the level of the spring placed on the intermediate flange of the pump.
- To withdraw the pump of its housing and to unscrew the plug located at the back of the pump (manual operation)



- To strongly give in position the new pump **by tightening the connector to the hand**. To mark the serial numbers old/new pumps in the notebook of maintenance
- To position the spring while controlling that the spring is well taken on the 3 claws
- Where necessary, to tighten the ends of the spring with a plastic collar to make sure that this one remains in place.
- To close again the appliance

D - Revision of motor

The revision engine consists in carrying out a standard exchange of your engine by another provided by Hexagone or one of its approved distributor.

In no case, a revision exerted by your care could be regarded as a revision of manufacturer and will cancel in fact all warranty of your appliance.

To follow the procedure n°1 to exit of the belts included and then:

- To unhook the spring of engine to release the engine and to be able to withdraw it by maintaining the caterpillar placed upwards to authorize the passage of the engine
 - To unscrew the M12 plug manually (located at the back of the engine)
 - To take the new engine and to screw up the new engine connector **by tightening the connector to the hand** (a locating pin prevents a bad connection). It is necessary to tighten the ring correctly by holding the head of connector coming from the cable.
 - To give the new engine places from there while taking guard that the fork at the back of the engine is caught on the slide envisaged for this purpose. To mark the serial numbers old/new engines in the notebook maintenance
 - To position the spring while controlling that the spring is well taken on the 2 claws
- You can go up the drive

E - Change of filters

- To open the hood
- To withdraw the complete plate of filtration.
- Using a large flat screwdriver, to make lever on the central column of the plate of filtration for remove the ring of the filter. Not to draw on the ring under penalty of breaking the column, which could not be taken under warranty.
- To install the new filter
- Put back the ring with the hand by taking care of good positioning of 2 notches so that the third can be set up.

F - Change of filtration join

The various joints of filtration make it possible to guarantee a minimum rate of sealing of the appliance for allowing an efficient aspiration. The joints are stuck with a little adhesive cyanoacrylate which you can order on our retailer.

All these joints are to be removed then to clean surfaces of contact by removing the residues of adhesive and old joints.

To fix the joints while sticking them with at least 8 points of adhesive. Wait minimum of 20 minutes before putting robot back to water

G - Changement des piles de la radiocommande

- Using a rather fine screwdriver, to unscrew the 2 screws placed at the back of the case of the remote control.
- Change 3 piles AAA
- Check that the joint of the compartment of pile is well in place and to close again the lid with the 2 screws previously removed while tightening with the screwdriver.



3 – Your warranty

7 years from date of purchase - Stainless steel chassis excluding damage due to sulphur content in water or misuse as deemed by your retailer. Stainless steel trolley – 1 year excluding misuse.

2 years from date of purchase – except Drive and pump motors and only applies to correct method of operation and product not having been misused. Drive and pump motors require revision

1 year from date of purchase - Electrical componentry in electrical box only if correct operating procedure is carried out and product not having been misused.

1 year from date of purchase - Electrical floating cable. Warranty is void when machine is pulled out of the swimming pool water by cable and remote control not used.

All warranty is based on delivery back to your official retailer. A service call fee will be charged for all warranty claims if retailer or its recognised distributors have to come on site. This is at the discretion of your supplier of the product. After initial warranty expires, new electrical componentry parts then have a 1 year warranty after installation

Manufacturers Conditions

A - Conditions

We guarantee that all materials are technically sound and free of defects of materials and manufacture and that they are consistent with the state of the art and techniques at the time of marketing. Subsequent technological modifications applied to our products due to technological progress cannot give rise to any intervention on our part. The warranty is limited to the repair or replacement of the equipment if a compliance defect is recognised. The choice of the solution is at our discretion given that any application of the warranty could not exceed the resulting direct prejudice suffered and cannot lead to unreasonable costs to the dealer or the manufacturer. The warranty is cancelled as of right if the equipment has been worked upon by a third party who does not belong to our workshop or by a repairer not certified by us or if modifications have been applied without our written consent. The warranty is also cancelled as of right if the operation and maintenance does not comply with the operation manual supplied with the equipment at purchase time.

All legal warranties as described in section 1641 of the Civil Code are applicable. Any text that could become Law after the printing of the present guarantee and whose terms would be in the order of public interest would automatically apply even if they are different from the present conditions.

The following are excluded from the warranty:

- ❖ The replacement of components liable to wear and tear such as Tracks, Brushes, Belts, Filter Bags.
- ❖ Electrical faults caused by storm or bad electrical connections.
- ❖ Damage due to impact.
- ❖ Any breakdown related or non-related to replacement with non-genuine parts.
- ❖ Problems arising as a result of non-compliance to the instructions of the operation manual.

Under no circumstances can the repair or replacement done under guarantee result in the extension or renewal of the duration of the guarantee of the equipment.

B – Purpose Of The Warranty

The warranty period is limited by 2 years or 1200 hours of work (first period achieved stop the warranty). To ensure good working conditions we advice you to ask for an overhaul every 1000 hours for the pump and every 2000 hours for the driving motors. Every pump without any overhaul after 1000 hours of work will not be covered by the warranty anymore by he manufacturer. During the warranty period defined above, any component that is recognized to be faulty will be repaired or replaced by a new component or one that is in good operating condition. The transport and labor costs will be the responsibility of the user. In the case of a return to our workshop, the two-way transport costs will be the responsibility of the user and the labor costs will be the responsibility of the manufacturer. The immobilization and lost operation time of the equipment due to repairs cannot give rise to any benefit. In any case, the legal warranty of the seller continues to apply under section 4 of Decree n° 78-464 of the 24th of March 1978.

C – Transport Damage

The equipment is transported at the risk of the consignee. The latter is responsible for verifying that the equipment is in perfect condition before accepting delivery. We cannot be held responsible in this matter.

D - Compliance

This equipment has been designed and manufactured according to the following standards:

- NF C15-100 - Very low power supply for security
- NF EN 50 081-1 and NF EN50 082-1st June 1992 Electromagnetic compatibility – Generic standard for emission / immunity - Part I : residential, commercial and light industry
- NF EN 50 082-1st June 1992

Additional information relative to CE certification: the swimming pool cleaning Robot is certified CE according to the following guidelines:

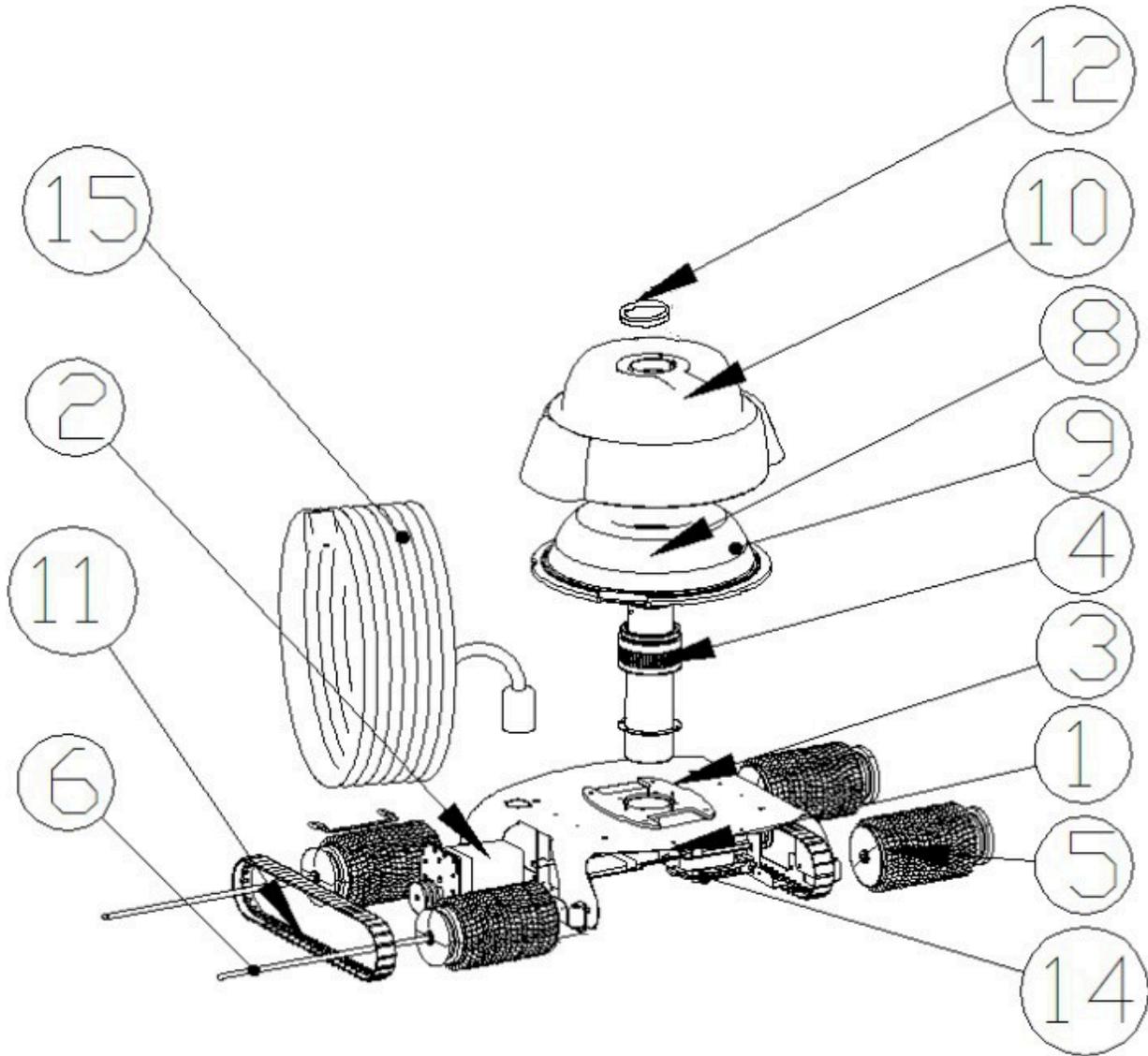
- C.E.M. 89/336/CEE and 92/31/CEE
- Low voltage 73/23/CEE with which the equipment is compliant.

Tél.+33 1 34 34 11 55

www.myhexagone.com / info@myhexagone.com

4. – Exploded View And Parts List

A - Cleaner



No.ARTICLE	QUANTITÉ	No.PIÈCE
1	1	AA0104 PLATE Chrono M
2	2	M00020 MOTOR BOX
3	1	FB0092 FILTRATION CENTERING
4	1	P00012 PUMP CHRONO
5	4	D00037 ROLL FOR CHRONO M
6	2	DF0031 AXIS M / DF0032 CHRONO L / DF0033 CHRONO XL
7	1	EF0052N--- CAPTOR 2 SENSORS
8	1	FB0090 FILTRATION PLATE
9	1	F00021 FILTER CHRONO , 105 micron
	1	F00024 FILTER CHRONO , 20 micron
	1	F00027 FILTER CHRONO , 200 micron
10	1	H00007 HOOD CHRONO
11	2	DB0010 CATERPILLAR CHRONO 450
12	1	QP0025 CLOSING HANDLE
14	1	QP0004 PULLING HANDLE
15	1	C2MA25 CABLE 25m / C2MA32=32MC2MA40=40M / C2MA50=50M
16	4	VR0004 RING PLASTIC
17	4	DB0002 BELT D8

For information, different models of cover existing :

Reference - designation	Number of DC0006N200	Number of PVA and type
D00037 - roll CHRONO M PVC-PVA	11	DC0026N200
D00042 - roll CHRONO M PVA	6	2*DC0026N200
D00045 - roll CHRONO M PVC	16	none

Reference - designation	Number of DC0006N200	Number of PVA and type
D00038 - roll CHRONO L PVC-PVA	11	DC0026N200
D00043 - roll CHRONO L PVA	6	2*DC0026N200
D00046 - roll CHRONO L PVC	16	none

Reference - designation	Number of DC0006N200	Number of PVA and type
D00039 - roll CHRONO XL PVC-PVA	11	DC0026N200
D00044 - roll CHRONO XL PVA	6	2*DC0026N200
D00047 - roll CHRONO XL PVC	16	none

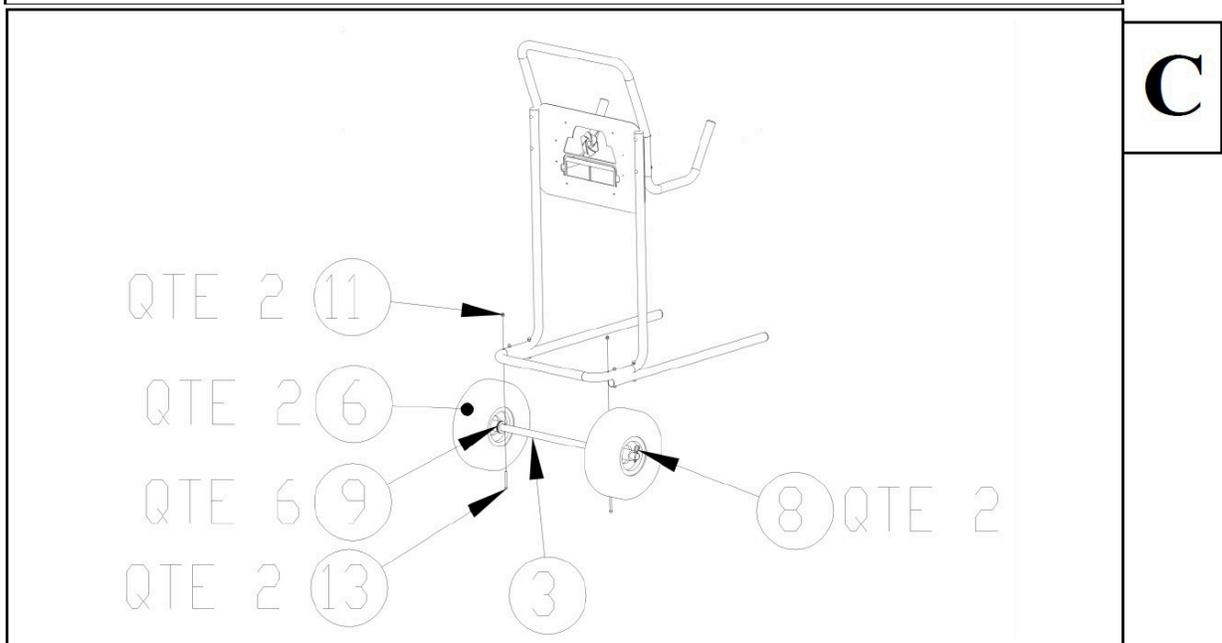
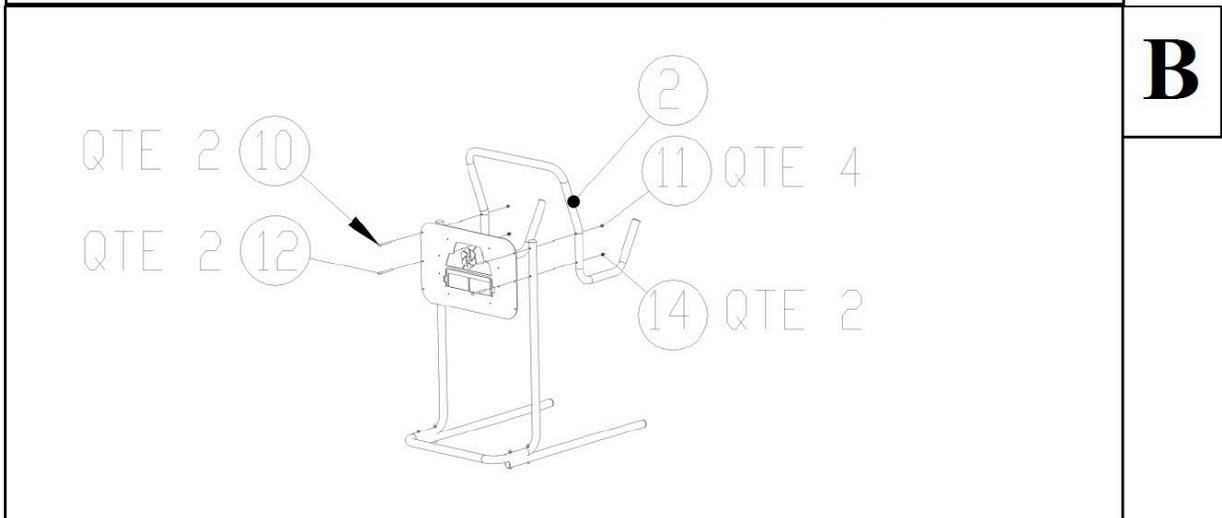
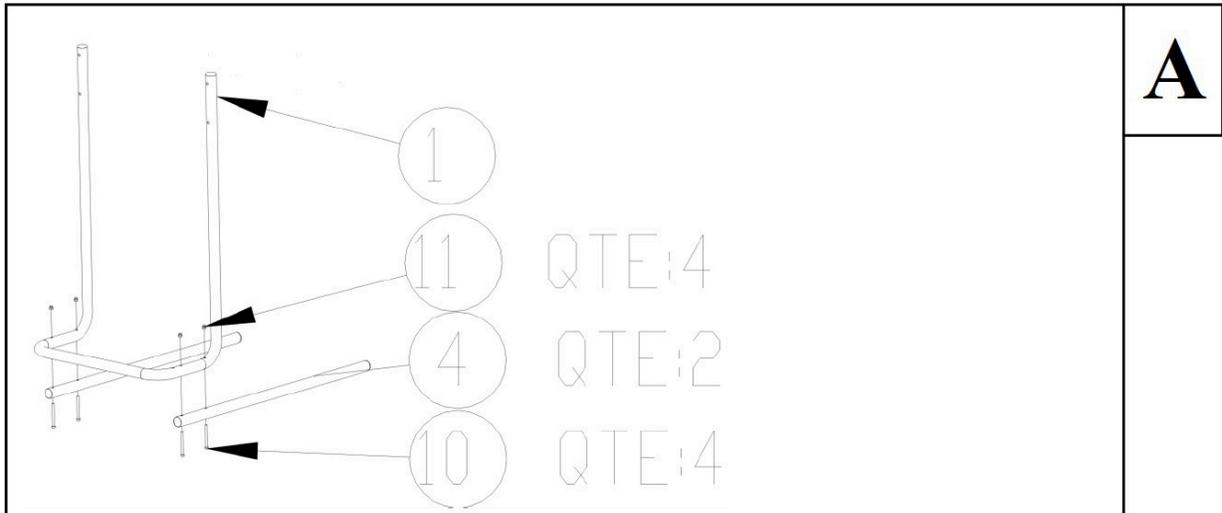
B – Le chariot
mounting information on trolley

the plate with electronic box is not represented to ease the presentation

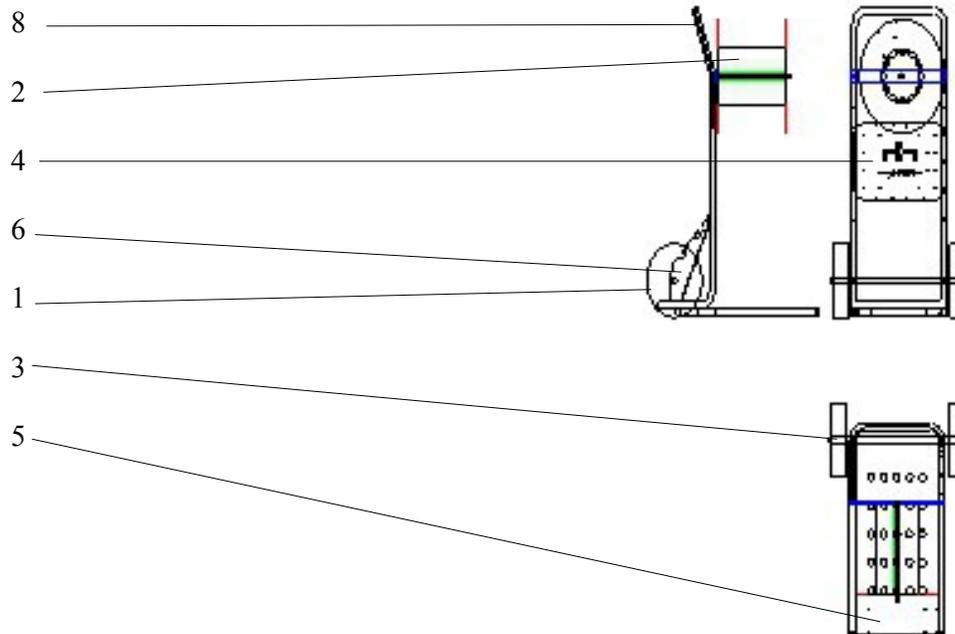
Liste de pièces :

réf	QUANTITÉ	Référence et désignation constructeur	Note
1	1	KA0116 MAIN TUBE	
2	1	KA0115 HANDLE OF TROLLEY CHRONO	
3	1	KA0118 WHEEL AXIS	
4	2	KA0117 TUBE TO CARRY ROBOT	
5	1	KA0120 ELECTRONIC BOX PLATE	
6	2	DD0030 WHEEL	PUT ON KA0118
7	6	QX0016 PLASTIC TUBE ENDING	PUT ON KA0116 ; KA0114 AND KA0117
8	2	QY0004 CLOSER	MPUT ON KA0118
9	6	VR0004 RING FOR TUBES	PUT ON KA0118
10	6	VH555 SCREW M5 L55	
11	10	VEB5 NUT M5	
12	2	VH560 SCREW M5 L60	
13	2	VH550 SCREW e M5 L50	PUT ON KA0118
14	2	VEBA5 THIN NUT M5	

Please follow instruction from A to C

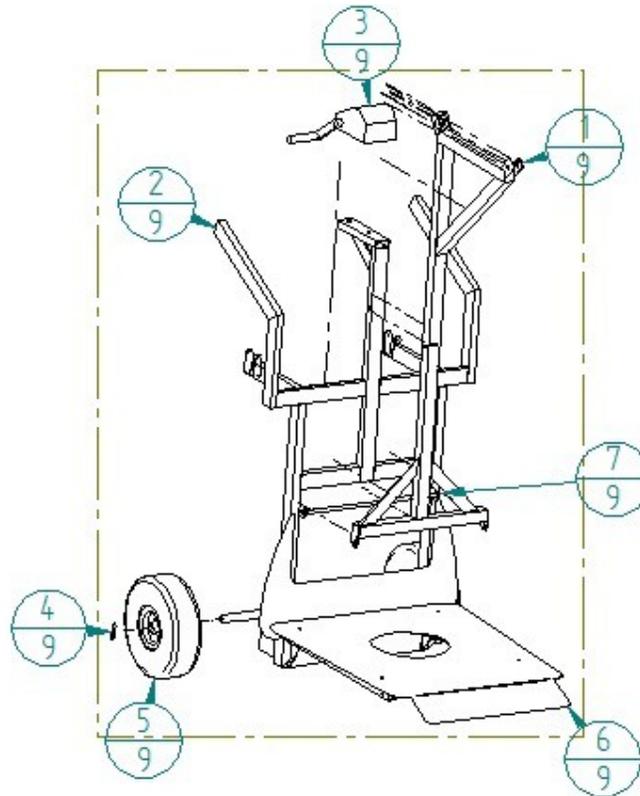


OPTION with drum



REPERE	QUANTITY	REFERENCE ET DESIGNATION
1	2	DD0030 WHEEL
2	1	EA0068 DRUM FOR 32M
3	1	KA0178 WHEEL AXIS
4	1	KA0180 BOX BRACKET
5	1	KA0192 ROBOT BRACKET
6	1	KA0190 RIGTH STRENGTHENER
7	1	KA0191 GLEFT STRENGTHENER
8	1	KA0189 HANDLE FOR TROLLEY

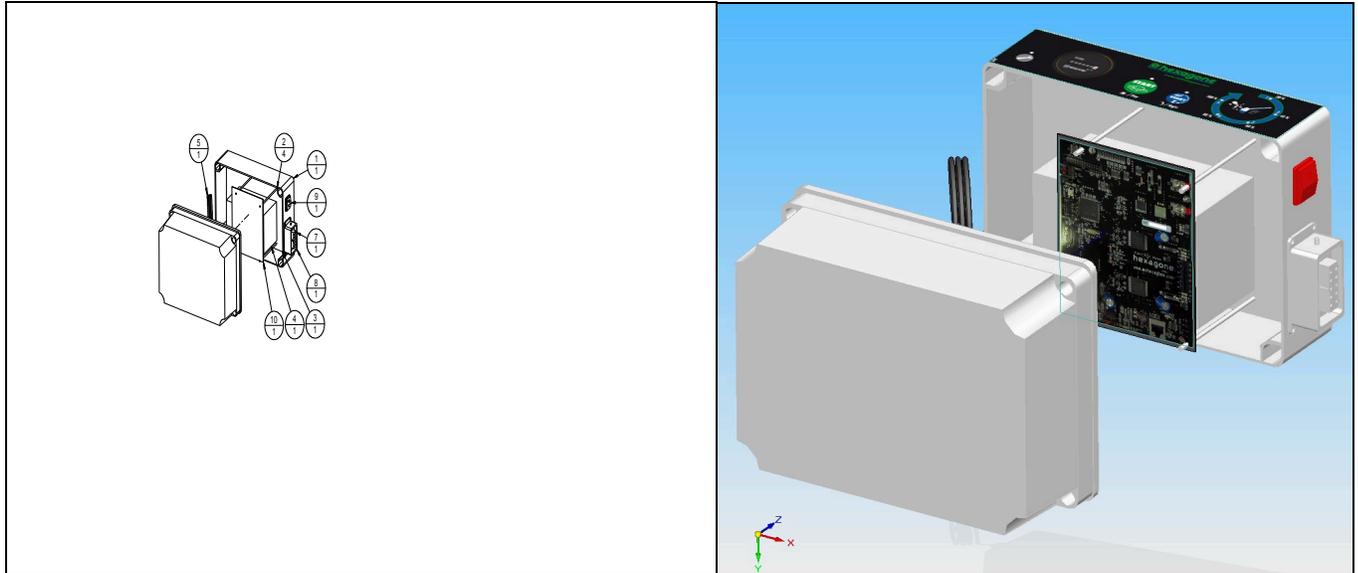
OPTION HOIST



KA0037 Plateau chariot potence expert

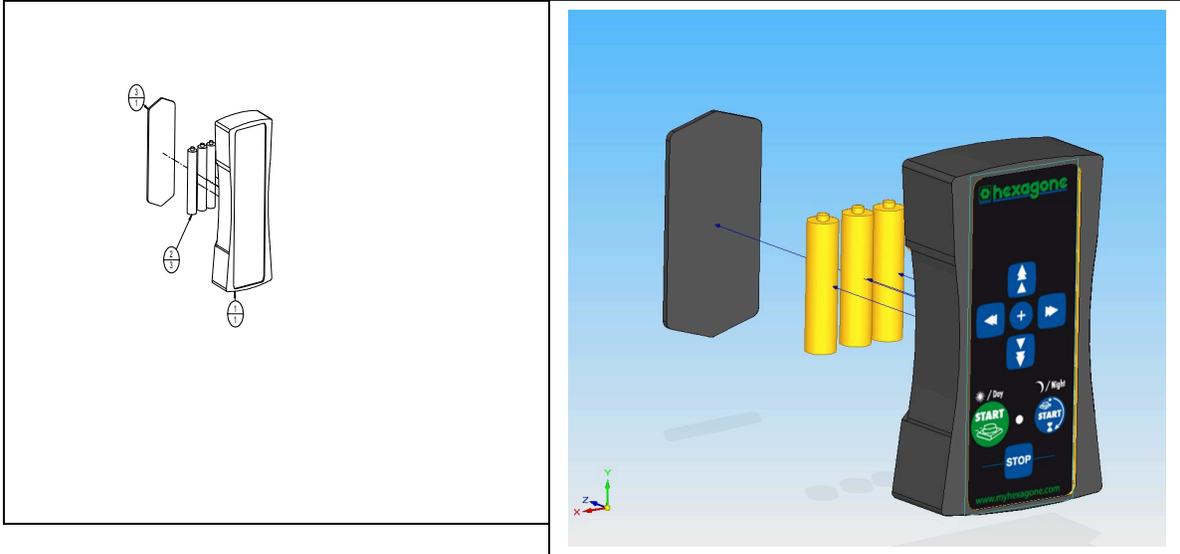
REPÈRE	QUANTITY	REFERENCE ET DESIGNATION
1	1	KA0034 HOIST
2	1	KA0020 TROLLEY BODY
3	1	KB0001 WINCH
4	2	QY0004 CLOSER
5	2	DD0030 WHEEL
6	1	KA0037 PLATE OF TROLLEY
7	1	KA0035 HOIST AXIS

C – Electronic box



No.ARTICLE	QUANTITY	PART e00034
1	1	QW0010 electrical box - empty
2	4	VTF4L120
3	1	EEI149 rear power supply plate
4	1	EEG010 power supply
5	1	CA0016 electrical cable
6	1	JB0014 PG9
7	1	CA0014 the 10 pins male plug
8	1	EEI015 basis for teh 10 pins plug
9	1	EEF018 red switch
10	1	EC0031 Card Magellan HP + EC0032 Carte sound

D – Remote control



No.ARTICLE	QUANTITY	PART
1	1	EG0015 Remote control Magellan
2	3	EEA122 Battery AAA
3	1	batterie cover

5 – Maintenance planning

REVISION 1000H Hour meter : _____ h		Date : __/__/20__		REVISION 1000H Hour meter : _____ h		Date : __/__/20__	
If revision by pool technician : number of retailer delivery note				If revision by pool technician : number of retailer delivery note			
If revision by retailer, number of intervention note				If revision by retailer, number of intervention note			
Reference or part	Old serial number / new			Reference or part	Old serial number / new		
	/				/		
	/				/		
	/				/		
	/				/		
	/				/		
Information or remarks				Information or remarks			
REVISION 1000H Hour meter : _____ h		Date : __/__/20__		REVISION 1000H Hour meter : _____ h		Date : __/__/20__	
If revision by pool technician : number of retailer delivery note				If revision by pool technician : number of retailer delivery note			
If revision by retailer, number of intervention note				If revision by retailer, number of intervention note			
Reference or part	Old serial number / new			Reference or part	Old serial number / new		
	/				/		
	/				/		
	/				/		
	/				/		
	/				/		
Information or remarks				Information or remarks			
REVISION 1000H Hour meter : _____ h		Date : __/__/20__		REVISION 1000H Hour meter : _____ h		Date : __/__/20__	
If revision by pool technician : number of retailer delivery note				If revision by pool technician : number of retailer delivery note			
If revision by retailer, number of intervention note				If revision by retailer, number of intervention note			
Reference or part	Old serial number / new			Reference or part	Old serial number / new		
	/				/		
	/				/		
	/				/		
	/				/		
	/				/		
Information or remarks				Information or remarks			



REVISION 1000H Hour meter : _____ h		Date : __/__/20__		REVISION 1000H Hour meter : _____ h		Date : __/__/20__	
If revision by pool technician : number of retailer delivery note				If revision by pool technician : number of retailer delivery note			
If revision by retailer, number of intervention note				If revision by retailer, number of intervention note			
Reference or part		Old serial number / new		Reference or part		Old serial number / new	
		/				/	
		/				/	
		/				/	
		/				/	
		/				/	
Information or remarks				Information or remarks			
REVISION 1000H Hour meter : _____ h		Date : __/__/20__		REVISION 1000H Hour meter : _____ h		Date : __/__/20__	
If revision by pool technician : number of retailer delivery note				If revision by pool technician : number of retailer delivery note			
If revision by retailer, number of intervention note				If revision by retailer, number of intervention note			
Reference or part		Old serial number / new		Reference or part		Old serial number / new	
		/				/	
		/				/	
		/				/	
		/				/	
		/				/	
Information or remarks				Information or remarks			
REVISION 1000H Hour meter : _____ h		Date : __/__/20__		REVISION 1000H Hour meter : _____ h		Date : __/__/20__	
If revision by pool technician : number of retailer delivery note				If revision by pool technician : number of retailer delivery note			
If revision by retailer, number of intervention note				If revision by retailer, number of intervention note			
Reference or part		Old serial number / new		Reference or part		Old serial number / new	
		/				/	
		/				/	
		/				/	
		/				/	
		/				/	
Information or remarks				Information or remarks			



6 – Notes



7 – Maintenance contract

A robot always available and powerful, it is our engagement with the maintenance contracts.

- For a maximum availability, we deal with the complete maintenance of your robot, preventive follow-up following a program of maintenance pre-established, replacement of the worn parts and complete control of all the elements.
- OUR STRONG POINT: you to allow to manage the costs of maintenance of your robot, for a controlled and anticipated budget.
- OUR ENGAGEMENT: you to guarantee the start-up of your robot within a definite time and, if necessary, to lend a material of replacement to you.

With our maintenance contracts, you lay out a complete assistance and an availability guaranteed for a controlled budget.

ALL the Hexagone robots can benefit from our maintenance contracts.

OUR SERVICE CONTRACTS

Our contracts always contain in addition some service: the continuing education of the personnel and advice about daily maintenance

CONTRACT SERVICE

- Labour included
- Displacement included
- Time of intervention 48/72 H working days
- Visit technicien/year Minimum: 2

We ensure 2 preventive visits of maintenance per year whose travelling costs and hours of labour are included in the contract.

Advantages for you: You assure the good state of operation of your Hexagone material by a regular maintenance.

TOTAL CONTRACT

- Labour included
- Displacement included
- Spare parts included
- Time of intervention: 48/72 H - working days
- Visit technicien/year Minimum: 3
- Robot of loan dealt with

We ensure the maintenance of your Hexagone robot at a cost fixes (* consumable and additional parts is not included (see contracts))

Advantages for you: you know your annual operational budget and will not have a bad surprise.

CONTACT SAV ROBOTS HEXAGONE :
1/5 rue Michel Carré FR-95104 ARGENTEUIL

Tel : 01 34 34 11 55

Fax : 01 34 34 11 50

@ : sav@myhexagone.com

Site : www.myhexagone.com

Your retailer contact:

Name _____

Address _____

Tel : _____

Fax : _____

@ : _____

Site : _____

Tél.+33 1 34 34 11 55

www.myhexagone.com / info@myhexagone.com