

FLOORCOAT

FC FLOORSANDER 4X



FC Floorsander 4X





DECLARATION OF CONFORMITY

Name and address of the manufacturer:

HYPERGRINDER s.r.l. Via Ragazzi del '99, 7 - 65123 Pescara - Italy
Phone +39 085 921 8160 - Phone/WhatsApp +39 324 8282674
www.hypergrinder.com - info@hypergrinder.com

Name and address of the company authorized to create the technical file:

HYPERGRINDER s.r.l. Via Ragazzi del '99, 7 - 65123 Pescara - Italy
Phone +39 085 921 8160 - Phone/WhatsApp +39 324 8282674
www.hypergrinder.com - info@hypergrinder.com

Declares under its own responsibility that the new machine

Model

Serial N.

Year of construction

Conforms to the following Directive:

Machine Directive 2006/42/EC and subsequent amendments

Low Voltage Directive 2014/35/EU and subsequent amendments

Electromagnetic Compatibility Directive 2014/30/EU and subsequent amendments

RoHS II Directive 2011/65/EC and subsequent amendments

And moreover, it is built in accordance with the following norms:

UNI EN ISO 12100: 2010;

UNI ISO/TR 14121-2;

CEI EN 60204-1: 2018;

CEI EN 61000-6-3

Pescara, _____

Chief Executive Officer



HG HYPER GRINDER s.r.l.
Sede legale: Via Ragazzi del '99, 7
65123 Pescara (PE)
Sede Operativa: Via E. Mattei, 20
66100 CHIETI (CH) - P.Iva 02223280682
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OPERATOR SAFETY INSTRUCTIONS



This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your machine could result in injury and could be dangerous to you or other people. Damage to your machine or other property could occur. You must receive training in the operation of this machine before operating it. If you or your operator(s) cannot read English have this manual explained very well before attempting to use the machine. All directions given in this book are as seen from the operator's position at the rear of the machine.

DO NOT USE this machine without reading this manual. This manual has important information for the use and safe operation of this machine. Failure to read and observe all DANGER and/or WARNING statements could result in severe injury or death. Read and observe all WARNING statements found in your OWNER'S MANUAL and on your machine.

DANGER: Failure to read and observe all WARNING statements could result in injury to you or to other personnel. Property damage could occur as well. Read and observe all WARNING statements found in your OWNER'S MANUAL and on your machine.

DANGER: Failure to read and observe all WARNING statements could result in damage to the machine or to other property. Read and observe all WARNING statements found in your OWNER'S MANUAL.

DANGER: Operating with a machine that is not completely or fully assembled could result in injury or property damage. DO NOT USE this machine until it is completely assembled. Inspect the machine carefully before operating it. Use only as described in this manual. Use only recommended attachments.

DANGER: Operating a machine without all labels, decals etc, could result in injury or damage. READ all machine labels before attempting to operate the machine.

DANGER: Electrical machines can cause an explosion when operating near inflammable materials and vapours. DO NOT USE this machine with or near fuels, grain dust, solvent, thinners or other inflammable materials.

DANGER: Using machines with a damaged power cable could result in an electrocution. DO NOT USE the machine with a damaged power cable.

DO NOT run the machine over the power cable during operation.

DO NOT use the electrical cord to move the machine.

KEEP cord away from heated surfaces.

DO NOT lift or pull the machine by any of the operating triggers. Use the main handle.

DANGER: DO NOT unplug the machine by pulling on the cord.

Grasp the plug not the cord. Electrocution could occur if you handle the plug or appliance with wet hands.

DO NOT handle the plug or appliance with wet hands.

DANGER: DO NOT attempt machine maintenance or cleaning unless the plug has been removed from the

electric supply outlet.

DANGER: Electrical components may 'short-out' if exposed to water or moisture. KEEP the electrical components of the machine dry. Always store the machine in a dry place.

WARNING: Use of this machine to move other objects or to climb on could result in injury to the operator or damage to the machine. DO NOT use the machine as a step or furniture. DO NOT allow it to be used as a toy. Pay extremely close attention if it is necessary to use the machine near children. Keep the machine out of reach of children and/or animals.

WARNING: Moving parts of this machine can cause injury and/or damage. KEEP hands, feet, loose clothing, hair, fingers, and all parts of the body away from machine openings and moving parts.

DANGER: The machine may 'short-out' or '-burn-out' if openings and/or cooling vents are blocked. DO NOT put any object into the openings. DO NOT use with wet hands. DO NOT handle plug or appliance with wet hands.

ATTENTION: In case of danger immediately press the emergency button.

WARNING: Damage could occur to the machine if openings are blocked. DO NOT use the machine with any openings blocked. KEEP FREE from dust, lint, hair and anything that may reduce air flow. DO NOT insert any foreign objects into any machine openings.

WARNING: use only original tools or specifically approved by the manufacturer. The use of other tools may cause detachments and cause damage to persons and/or things.

WARNING: make sure that the tools are correctly inserted and fully tightened or well screwed. The incorrect tool mount can cause damage to persons and/or things.

WARNING: Injury could occur to the operator and/or damage to the machine could occur when cleaning stairs, unless extra caution is used. Use extra caution when cleaning stairs or difficult areas.

WARNING: DO NOT use the machine upside down. The dust or the water could go inside the machine and cause electrocution.

WARNING: If the machine has dust bag and/or filter, injury could occur to the operator or the machine if used without dust bag and/or filters. DO NOT use the machine without its proper dust bag and/or filters in place.

WARNING: make sure that there are no protrusions or sharp metal discontinuities, heterogeneous material on the surface. In this case remove before working with the machine, in order to avoid that the machine jumps causing injury to the operator, other people or things.

Work at a safe distance from iron pillar stands or any other rough edges.

WARNING: If you observe functional abnormalities and unusual noises stop and put the machine in safety?? requiring the intervention of a qualified technician.

WARNING: DO NOT use the machine as a massager for your or any other person's body. It is extremely dangerous.

WARNING:

DO NOT clean by spraying water.

DO NOT immerse into water or moisture.

KEEP your machine clean.

KEEP your brushes or any accessories in good condition.
REPLACE any worn or damaged parts immediately.
ENSURE that the working area is clear of obstructions and/or people.
ENSURE that the working area is sufficiently illuminated to work well.
DANGER: Components used in packaging (ie, plastic bags) can be dangerous. KEEP away from children and animals.
THE MANUFACTURER CANNOT BE HELD RESPONSIBLE for any damage/injury caused to persons or property, because of the incorrect use of the machine or due to procedures being used which are not specified in this instruction manual.
SERVICE AND REPAIRS MUST BE carried out by qualified personnel only. Replacement and or spare parts for the machine must be from the original manufacturer only.
DANGER: Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the power supply before attempting any maintenance or service.
THE USE OF THE MACHINE for anything not specified in this manual may be dangerous and must be avoided.

The manufacturer is not liable to any responsibility if the machine is used for purposes other than those specified in this manual.
TUBES AND ACCESSORIES should be kept away from the body, especially delicate areas such as the eyes, ears and mouth.
DANGER: If the machine has paper and/or fabric filters, do not use the machine without these filters properly installed. In proper use and lack of filters may result in injury to the operator or damage to the machine and property.
DO NOT LEAVE the equipment unattended whilst in use.
DANGER: the machine is intended for professional use and must only be used by trained personnel.
SHOULD EXTENSION CABLE be used, ensure that the cable rating is suitable for use with the equipment.
DANGER: When using the equipment always ensure that all necessary precautions are taken to guarantee the safety of the operator and any other person who may be affected. When necessary:

- use protective clothing such as safety glasses, gloves, non-slip footwear, respiratory mask when working in dusty and/or unventilated areas, ear protection.

PRELIMINARY PROCEEDINGS

Operator can control the single disc machine from right to left and the other way around.

REMEMBER: the machine turns left lowering the handle, turns right pulling up the handle. Do not suddenly lower or pull up the handle, use gentle movements.

HOW TO CONNECT POWER SOCKET

Make sure you have the right frequency and voltage before putting the plug in the power socket. Check instructions showed on the machine identification plate. This machine has an approved three-wire electric cable. Yellow wire (or yellow-green) is the grounding. This machine must be connected to a regular power socket with grounding.

WARNING: Power socket must have grounding.

WARNING: If any of the above or following instructions are ignored, the manufacturer assumes none of the responsibility. Any user of this machine must make sure all provisions of the law and/or permits regarding the use will be observed. Operator must also check safety conditions like: a) Sufficient power system b) Absence of explosives, inflammable or corrosive powders in the vicinity of use.

WARNING: Do not cut the plug. Do not use adaptors. Only a qualified electrician can replace the plug if needed. Only a qualified operator can replace burned, cut or damaged electric cables.

WARNING: Only qualified staff can replace a burned, cut or damaged electric cable or plug.

LABELS AND SYMBOLS

IDENTIFICATION PLATE

This machine holds an Identification Plate. Make sure the machine has an identification plate, otherwise inform the manufacturer and/or the dealer immediately. Machines without plates must not be used and the manufacturer declines all responsibility for them. Any product without an identification plate must be considered anonymous and potentially dangerous.

HG HYPER GRINDER srl Via Chieti, 6 - 65121 Pescara (PE) Italy Tel.: +39 085 921 8160 www.hypergrinder.com - info@hypergrinder.com			
Modello/Model: levigatrice/grinding and polishing machine			
Tipo/type: HRC 601 T5 5,5Hp VS 380/400V			
Code: 166HRC601VST5			
Serial N:		Anno/Year: 2022	
Motor	Input		
kW: 4	V: 400 ± (10%)	Hz: 50/60	
	Fasi/Phases: 3	A: 10	
MOT321		IP: 54	



IT Leggere attentamente il manuale dell'operatore prima di far funzionare la macchina. Osservare le norme e le istruzioni di sicurezza durante il funzionamento.

FR Lire soigneusement le livret d'entretien et les règles de sécurité avant la mise en marche et en tenir compte pendant le fonctionnement.

EN Carefully read operator's Manual before handling the machine. Observe instructions and safety rules when operating.

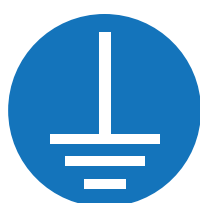
DE Vor Inbetriebnahme die Betriebsanleitung und Sicherheitshinweise lesen und beachten.

CAUTION

CONNECT

GROUND WIRE

BEFORE USING



TAGLIANDO DI CONTROLLO

Questo prodotto è severamente controllato per garantire la qualità dei materiali, il perfetto funzionamento e la quantità. In caso di reclamo rispedire questo tagliando.

TESTING COUPON

this product is carefully controlled to guarantee materials quality, pefect working and quantity. For any claim please returs this coupon.

Il verificatore / The inspector _____

HANDLE REGULATION

Pulling the handle height lever (1) handle height can be adjusted according to the operator's height. Make sure the handle is in a comfortable position before starting up.



STARTING UP

MACHINE STARTING UP: Switch the machine on using the switch only, never pulling in or out the plug. Never pull the electric cable to switch or cut the power off. Hold the cable from the head to plug it into the electric socket, do not plug the cable in from the wire.

SAFETY SWITCH: A safety switch is placed at the back of the handle to avoid accidental starting up. Always press this safety switch (2) to switch the machine on and then push and hold the control levers (3) to start up.

IMPORTANT: If any problem occurs during the work, let go of all the levers immediately and the machine will stop automatically. Do not try to start the machine if the handle is up or it is not in a comfortable position for the operator. It could be dangerous for the machine and the operator.

BACK



FRONT



ONLY FOR VARIABLE SPEED SERIES

REGULATION KNOB: Speed rotation can be adjusted by moving the knob indicated with n. 4.



TOOLS ASSEMBLY

QUICK LOCK TOOLS:

The tool holder (9) consists of a disc with 3 seats (10) which transfer the drive to all types of tools which can be fitted onto the appliance:

- Position the tool ensuring that the pin (11) is aligned with the seat (10) on the tool holder.
- Slide the tool into the seat from the centre outwards (12) until it locks.
-

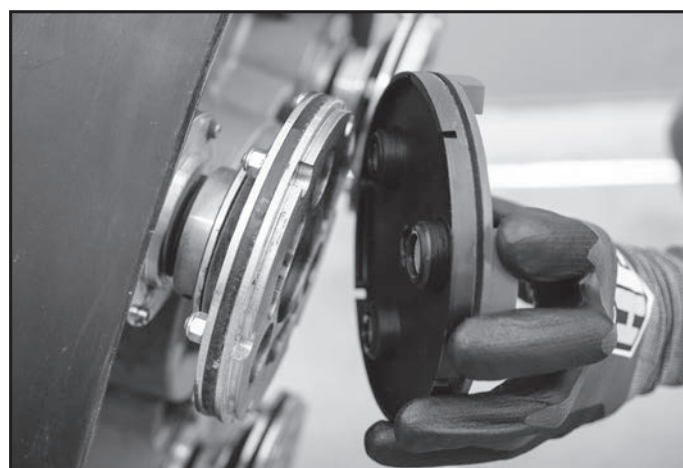
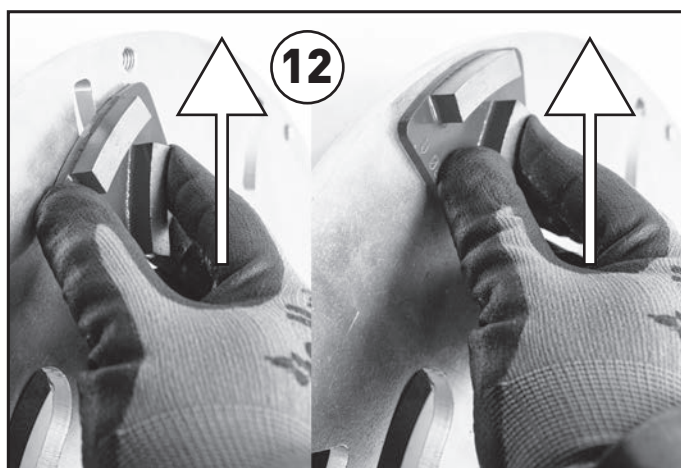
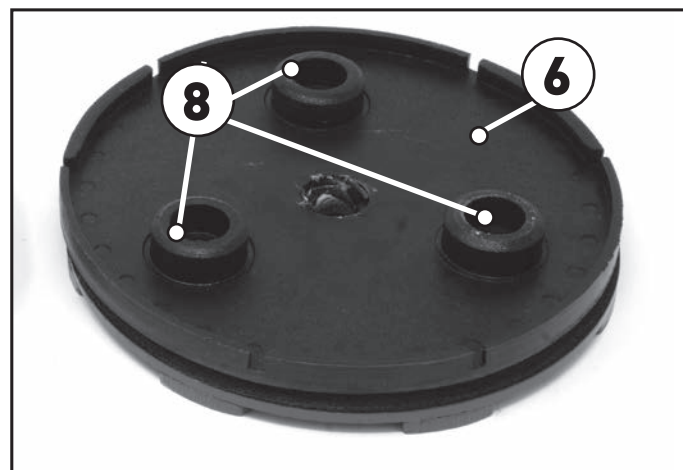
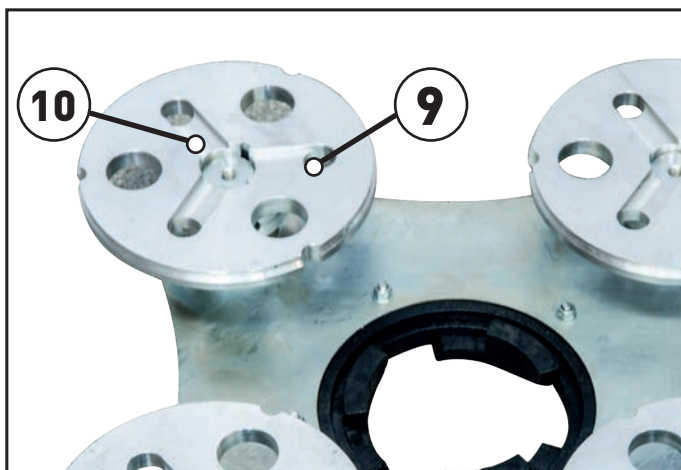
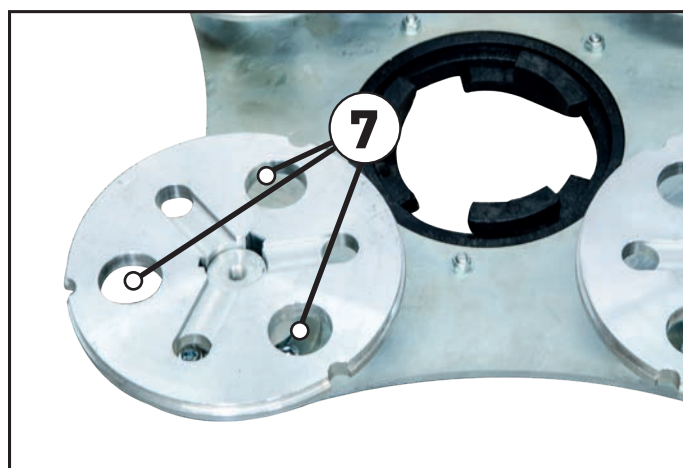
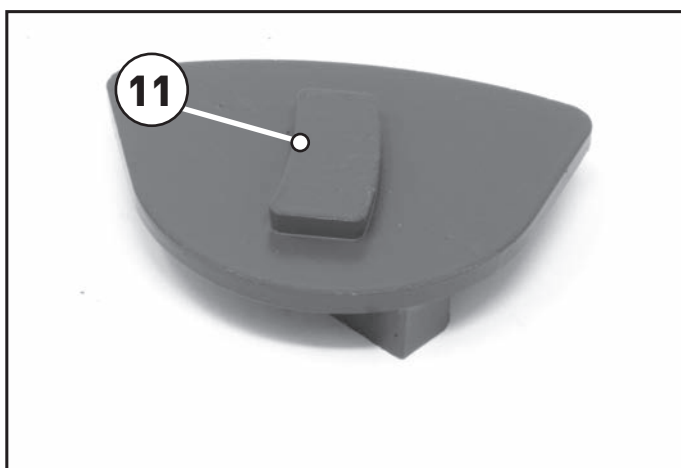
Repeat the operation for all the tools.

AS TOOLS:

Carefully insert the abrasive tools to the tool holder. If it is difficult to push you may use a rubber hammer.

- Position the tool (6) ensuring that the 3 pins (8) are aligned with the 3 seats (7) on the tool holder.

With time and use the tools may become loose, there are screws available to tighten the abrasive tools.



WARRANTY

This machine is guaranteed for two (2) year or 600 working hours, from the date of purchase, from all defects in materials and workmanship under normal use and proper maintenance. The guarantee is valid only if the machine is operated and maintained according to the HYPER GRINDER Maintenance and Operating Instructions.

The warranty is void if aftermarket alterations, changes, or modifications have been made to the equipment or if non-original or non-approved tooling is used. This guarantee is extended only to the original purchaser for use of the product. It does not cover normal wear-and-tear parts such as electrical cables, rubber parts, hoses and motor brushes.

If any difficulties develop with the machine you should:

1. CONTACT HYPER GRINDER CUSTOMER ASSISTANCE DEPARTMENT:
Via Ragazzi del '99, 7 - 65123 Pescara - Italy
Phone +39 085 921 8160
Phone/WhatsApp +39 324 8282674
www.hypergrinder.com
info@hypergrinder.com

2. Return the product to the HYPER GRINDER customer assistance department, make sure that the plate with the serial number is present on the machine. Transportation charges from and to the our head office must be prepaid by the purchaser. Warranty-related services will only be provided if the machine's serial number is present. Absence of the serial number on the machine will void any warranty coverage.
3. HYPER GRINDER will repair the machine and or replace any defective parts under warranty within a reasonable time after receiving the machine.

HYPER GRINDER'S liability under this warranty is limited only to repairing the product and/or replacement of parts.

There are no specific warranties other than those specified herein. There are no guarantees which extend beyond this description. No warranties, including but not limited to warranty of merchantability, shall be implied. In case of a malfunction or defect, the producer is not responsible for any eventual uncompleted work by the customer.

ATTENTION: THE CAPACITORS ARE NOT UNDER WARRANTY

The grinding and polishing mono-phase machines, since they have monophase motors, they have a limit of power and are equipped of working capacitor and starting capacitor.

EXTRA WEIGHT: DO NOT TO USE the extra weights being while working on tender and/or abrasive floors. The motor could strain and the capacitor could burn or burst.

CABLE EXTENSION: Use a cable of double section then the supplied cable. A cable too long or not suitable may not be able to supply enough power to the machine and the capacitors could burn or burst. DO NOT CONNECT more than one machine with the same cable: the power may be not enough for both of them.

ADJUSTABLE WHEEL TROLLEY: Working on tender and/or abrasive floors, the tools make more friction and the machine needs more strength and it could strain overheating. Lowering the wheels the pressure on the floor reduces and the tools work with less friction and the machine does not strain.

THE STARTING CAPACITOR and THE WORKING CAPACITOR are not under warranty because their breakdown depend always on a not correct use of the machine.

Please use the machine correctly.

SPARE PARTS

FC Floorsander 4X Base



N	Code	Description	Qty
1	HG164502	FC Floorsander 4X folding handle kit	1
2	HG174803	Carter Kit 17" FC Floorsander 4X with sliding wheels	1
3	HG1186802	Suction tube support FC Floorsander 4X	1
4	MOTHG1013	Gear motor 1:11 1F 230V 50Hz 2.2kW machined reinforced flange (4Hp Max)	1
5	CEG014	Running Capacitor 50 microFarad Meco 450Vac 50–60 Hz HxD 94x50	1
6	CEG056	Start Capacitor 145–174 microFarad 330Vac 50–60 Hz Ducati HxD 105x52	1
7	HG185201	Contactor box 7.5 kW 230V 50/60 Hz (SIEM 3RT20251AL20)	1
9		Socket head cap screw M8x18 UNI5931	1
10		Nut UNI 5588 M8	1
11		Socket head cap screw UNI5931 M8x20	8

FC Floorsander 4X Base Wirbel Coupling Cesana Reducer

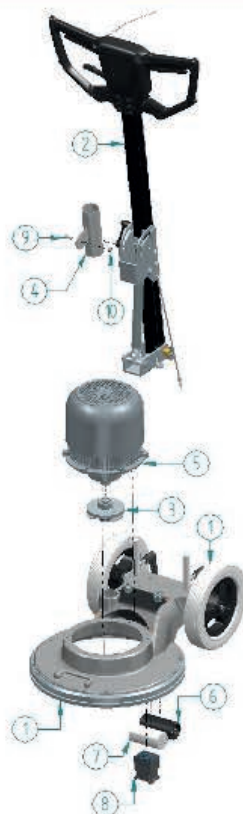


N	Code	Description	Qty.
1	HG164502	Folding handle kit FC Floorsander 4X	1
2	HG176201	17" FC Floorsander 4X Carter Kit with Wirbel Coupling, Cesana Reducer, and Sliding Wheels	1
3	HG1186802	Suction tube support FC Floorsander 4X	1
4	*	Motor	1
5	**	Reducer	1
6	***	Start capacitor	1
7	****	Running capacitor	1 (2 for 110V/50Hz Motor)
9	*****	Contactor	1
10		Socket head cap screw M8x18 UNI5931	1
11		Hex nut UNI 5588 M8	1

V/Hz	*Motor Code	**Reducer Code	*** Start Capacitor	**** Running Capacitor
110 V/50 Hz	MOTHG1109 _ 4 pole 1,5 kW (2,5 hp Max)	HG171001 <i>i</i> = 1:14,2	CEGHG038 (233-280 μ F / 280V)	N°2 CEGHG037 (60 μ F + 60 μ F / 450V)
110 V/60 Hz	MOT392 _ 4 pole 1,5 kW (2,5 hp Max)	HG171001 <i>i</i> = 1:14,2	CEG232 (230-280 μ F / 280V)	CEG315 (80 μ F / 400V)
220 V/60 Hz	MOT381 _ 4 pole 2,2 kW (4 hp Max) (Electronic circuit breaker MOTHG1130)	RD010501 <i>i</i> = 1:12	CEG265 (189-227 μ F / 330V)	CEG014 (50 μ F / 450V)

V/Hz	***** Contactor Box	
220 V/60 Hz	HG185201	Contactor box 7.5 kW 230V 50/60 Hz (SIEM 3RT20251AL20)
110 V-50/60 Hz	HG185301	Contactor box 7.5 kW 110V 50/60 Hz (SNRLC1D32F7)

FC Floorsander 4X Base Attachment Wirbell Motor-Reducer HIQ

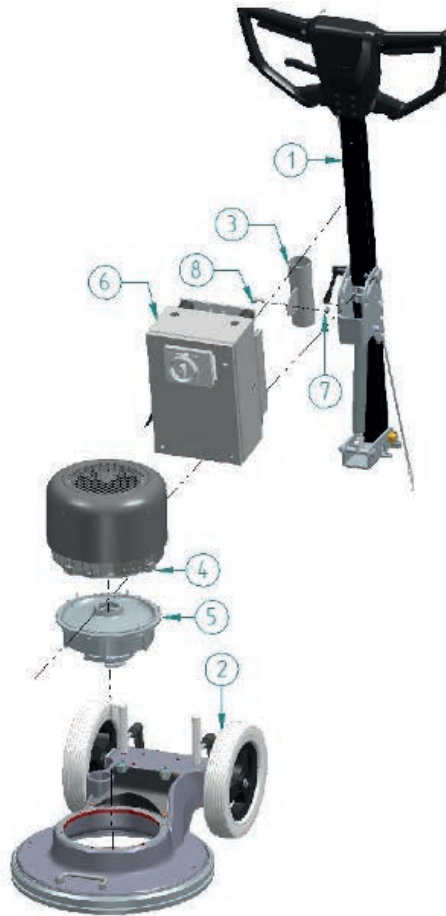


N	Code	Description	Qty.
1	HG174803	Carter Kit 17" FC Floorsander 4X with Translating Wheels	1
2	HG164502	Foldable Handle Kit FC Floorsander 4X	1
3	HG116201	M30x2 Left-Hand Flange Attachment	1
4	HG1186802	Suction Tube Support FC Floorsander 4X	1
5	*	Gear Motor	1
6	**	Start Capacitor	1
7	***	Running Capacitor	1
8	****	Contactor	1
9		Socket Head Cap Screw M8x18 UNI5931	1
10		Nut UNI 5588 M8	1

V/Hz	*Motor Code	** Start Capacitor	*** Running Capacitor
220 V/50 Hz	MOTHG1042 Gear Motor PG1M 2100w 230VAC 50HZ4P140RPM	CEGHG038 (233-280 μ F / 280V)	CEGHG037 (60 μ F / 450V)

V/Hz	****Contactor
220 V/50 Hz	SIEM 3RT2016-1AP01 (Siemens 3 Pole Contactor - 9 A, 230 V ac Coil, SIRIUS Innovation, 3NO, 4 kW)

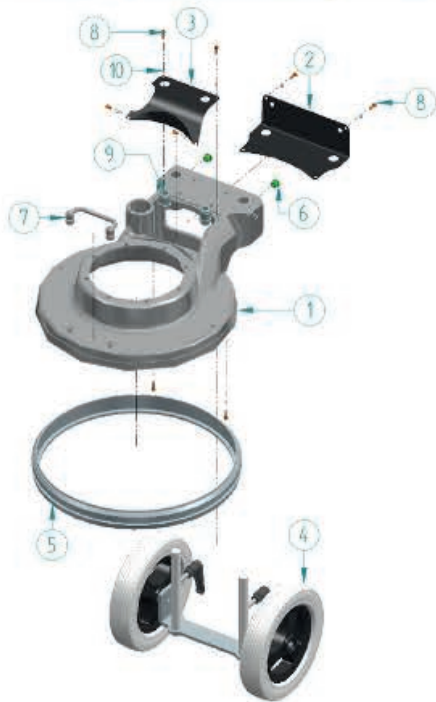
FC Floorsander 4X Base Attachment Wirbell Reducer Cesana VS



N	Code	Description	Qty.
1	HG183401	Foldable Handle Kit FC Floorsander 4X VS	1
2	HG176201	17" Carter FC Floorsander 4X Wirbell Attachment with Cesana Reducer and Translating Wheels	1
3	HG1186802	Suction Tube Support FC Floorsander 4X	1
4	MOT393	4-Pole Motor 3 kW 230V 50/60 Hz	1
5	RD010501	Gear Reducer 1:12	1
6	HG115401	VS Drive 4 HP 220V 50/60 Hz	1
7		Nut UNI 5588 M8	1
8		Socket Head Cap Screw M8x18 UNI 5931	1

Carter Kit 17" FC Floorsander 4X with Translating Wheels

Cod. HG174803



N	Code	Description	Qty.
1	HG1150603	Housing FC Floorsander 4X 17"	1
2	HG1158801	Cover	1
3	HG1158901	Lid	1
4	HG164901	Translating Wheels Kit FC Floorsander 4X	1
5	HG1168201	Bumper Rubber for Carter FC Floorsander 4X	1
6	HG1168301	Reduction Bushing 14 - M10	2
7	MANHG030	Foldable Handle L 100	1
8		Socket Head Cap Screw M5x15 UNI 5931	8
9		PG 20	2
10		Spring Washer M5	8

Carter Kit 17" FC Floorsander 4X with Wirbell Attachment, Cesana Reducer, and Translating Wheels

Cod. HG176201



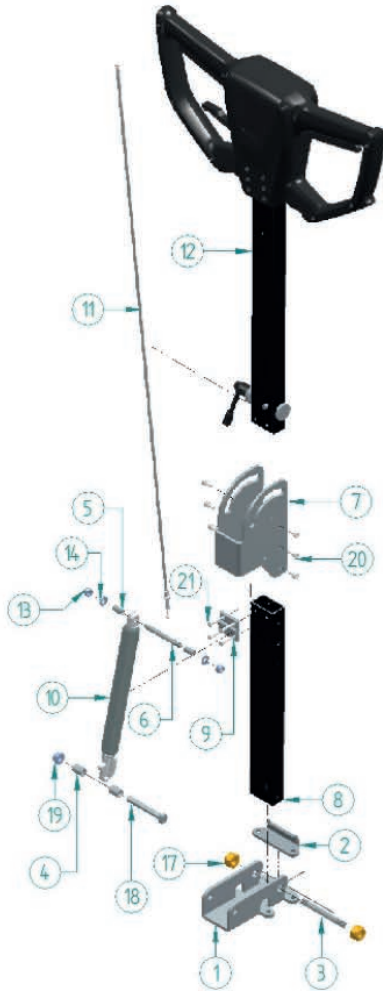
N	Code	Description	Qty.
1	HG1196301	Housing FC Floorsander 4X 17" with Cesana Reducer	1
2	HG1158801	Cover	1
3	HG1158901	Lid	1
4	HG164901	Translating Wheels Kit I FC Floorsander 4X	1
5	HG1168201	Bumper Rubber for Housing FC Floorsander 4X	1
6	HG1168301	Reduction Bushing 14 - M10	2
7	MANHG030	Foldable Handle L 100	1
8		Socket Head Cap Screw M5x15 UNI 5931	8
9		PG 20	2
10		Spring Washer M5	8

Carter Kit 17" FC Floorsander 4X with Fixed Wheels	Cod. HG164602			
	N	Code	Description	Qty.
	1	HG1150602	Housing FC Floorsander 4X 17"	1
	2	HG1158801	Cover	1
	3	HG1158901	Lid	1
	4	HG1197401	Reduction Bushing with Collar 14 - M10	2
	5	HG1168201	Bumper Rubber for FC Floorsander 4X Housing	1
	6	MANHG030	Foldable Handle L 100	1
	7	RTO075	High-Quality Wheel	2
	8		Nut DIN 936 M12	2
	9		Hex Bolt M12x75 UNI 5739	2
	10		Spring Washer M5	8
	11		Socket Head Cap Screw M5x15 UNI 5931	8

Translating Wheels Kit FC Floorsander 4X	Cod. HG164902			
	N	Code	Description	Qty.
	1	HG1169202	Translating Wheels Frame FC Floorsander 4X	1
	2	HG1169301	Translating Wheels Axle	2
	3	RTO075	Wheel	2
	4	MANHG031	Retractable Handle ERX.78 p-M10x35-C5	2
	5		Socket Head Cap Screw M8x25 UNI 5931	2
	6		Anello seger 12 UNI 7435	2
	7		Rosetta Spaccata M8 UNI 1751 B	2

FC Floorsander 4X Folding Handle Kit

Cod. HG164502



N	Code	Description	Qty.
1	HG1022301	Rod base for gas spring	1
2	HG1064201	Gas spring safety lock	1
3	HG1022802	Drawbar pin	1
4	HG1023102	Lower connection tube	2
5	HG1167801	Upper spacer for machine control	2
6	HG1167901	Upper hinge pin – machine control	1
7	HG1168001	Joint plate for machine control	1
8	HG1168101	Lower half-rod – machine control	1
9	MANHG029	Stainless steel comb hinge CMM.SST-40-SH-5	1
10	HG1022901	Gas spring	1
11	HG1023201	Bansbach Bowden cable release 20BZ1000TAAKP	1
12	HG164402	Upper articulated handle control FC Floorsander 4X	1
13		M8 Nut DIN 985	2
14		M8 Washer UNI 6592	2
17		M14 Self-locking Nut – DIN 985	2
18		M10x75 Screw – UNI 5737	1
19		M10 Self-locking Nut – DIN 985	1
20		M6x12 Socket Head Cap Screw – UNI 5931	6
21		M5x35 Countersunk Head Screw – UNI 5933	4

Upper Articulated Machine Control – FC Floorsander 4X

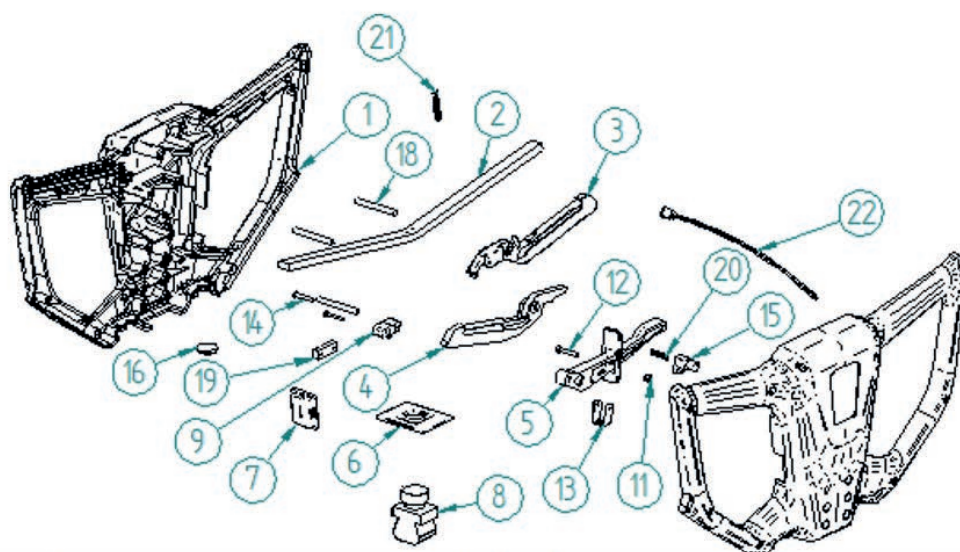
Cod. HG164402



N	Code	Description	Qty.
1	HG1167402	Upper Half-Rod – Machine Control	1
2	HG1167501	Rotation Locking Pin	1
3	HG1167601	Rotation Lock Washer	1
4	HG109902	Fairing Kit Complete with Handle – Single-Brush Machine	1
5	MANHG028	Retractable Lever Handle GN 212.4-21-M8-32-E	1
6		M5x35 Hex Socket Head Cap Screw – UNI 5931	1
7		Hex Nut M5 – UNI 5588	1

Fairing Kit Complete with Handle

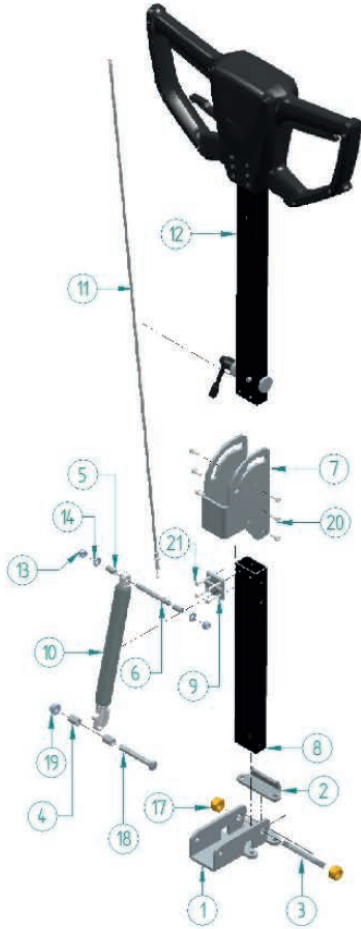
Cod. HG109902



N	Code	Description	Qty.	N	Code	Description	Qty.
1	HG1016302	HG Single-Brush Machine Housing	2	12		M4x25 Hex Socket Head Cap Screw – UNI 5931	1
2	HG1016701	Metal Reinforcement	1	13	HG1074901	Cable Tie	1
3	HG1016501	Right Start Lever	1	14		4x20 Self-Tapping Screw with Cross Recess – UNI 9709	2
4	HG1016601	Left Start Lever	1	15	HG1135601	Push Button	1
5	HG1016402	Release Lever	1	16	HG1135701	Cap	1
6	HG1029101	Switch Support	1	18	HG0655	Pin, Ø6 mm x 55 mm length	3
7	HG1029203	Side Cap	1	19	HG1135402	Cable Clamp	1
8	CEGHG001	Drawbar Switch	1	20	HG1171201	Switch Spring	1
9	HG1074801	Cable Base Block	1	21	HG1171301	Lever Spring	2
11		M4 Self-Locking Nut – DIN 985	1	22	MANHG034	Indicator Light	1

FC Floorsander 4X VS Folding Handle Kit

Cod. HG183401

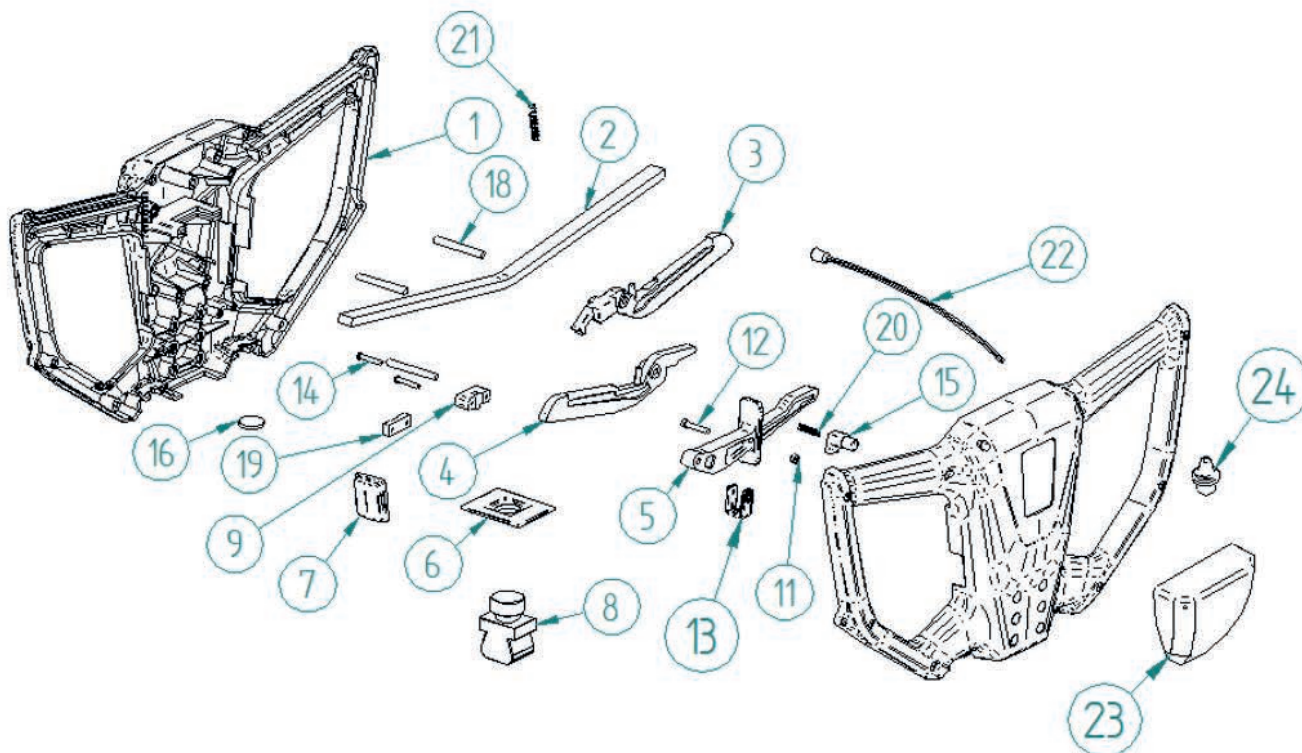


N	Code	Description	Qty.
1	HG1022301	Rod Base for Gas Spring	1
2	HG1064201	Gas Spring Safety Lock	1
3	HG1022802	Drawbar Pin	1
4	HG1023102	Lower Connection Tube	2
5	HG1167801	Upper Spacer for Machine Control	2
6	HG1167901	Upper Hinge Pin – Machine Control	1
7	HG1168001	Joint Plate – Machine Control	1
8	HG1168101	Lower Half-Rod – Machine Control	1
9	MANHG029	Stainless Steel Comb Hinge CMM.SST-40-SH-5	1
10	HG1022901	Gas Spring	1
11	HG1023201	Bansbach Bowden Cable Release 20BZ1000TAAKP	1
12	HG183501	Upper Articulated Handle Control – FC Floorsander 4X VS	1
13		M8 Self-Locking Nut – DIN 985	2
14		M8 Washer – UNI 6592	2
17		M14 Self-Locking Nut – DIN 985	2
18		M10x75 Hex Socket Head Cap Screw – UNI 5737	1
19		M10 Self-Locking Nut – DIN 985	1
20		M6x12 Hex Socket Head Cap Screw – UNI 5931	6
21		M5x35 Countersunk Head Screw – UNI 5933	4

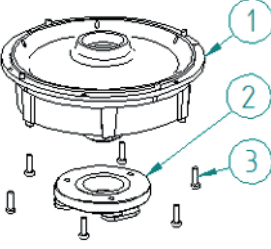
Upper Articulated Machine Control – FC Floorsander 4X VS		Cod. HG183501			
		N	Code	Description	Qty.
		1	HG1167402	Upper Half-Rod – Machine Control	1
		2	HG1167501	Rotation Locking Pin	1
		3	HG1167601	Rotation Lock Washer	1
		4	HG182201	Complete Fairing and Handle Kit – Single-Brush Machine VS	1
		5	MANHG028	Retractable Handle GN 212.4-21-M8-32-E	1
		6		M5x35 Hex Socket Head Cap Screw – UNI 5931	1
		7		M5 Hex Nut – UNI 5588	1

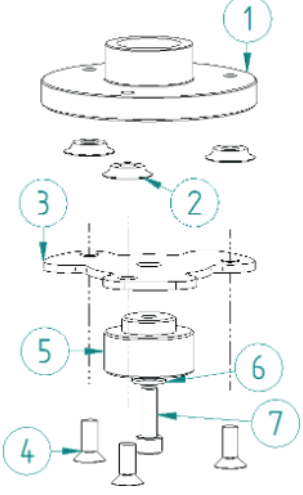
Complete Fairing and Handle Kit – VS Single Brush Machine

Cod. HG182201

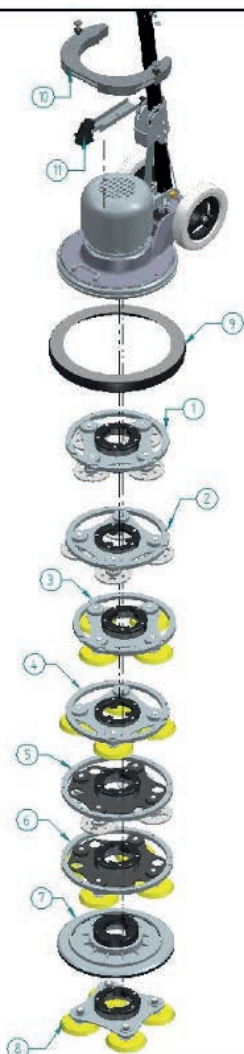


N	Code	Description	Qty.	N	Code	Description	Qty.
1	HG1016302	HG Single-Brush Machine Housing	2	12		M4x25 Hex Socket Head Cap Screw – UNI 5931	1
2	HG1016701	Metal Reinforcement	1	13	HG1074901	Cable Tie	1
3	HG1016503	Right Start Lever	1	14		4x20 Self-Tapping Screw with Cross Recess – UNI 9709	2
4	HG1016602	Left Start Lever	1	15	HG1135602	Push Button	1
5	HG1016403	Release Lever	1	16	HG1135701	Cap	1
6	HG1029103	Switch Support	1	18	HG0655	Pin, Ø6 mm x 55 mm length	3
7	HG1029202	Side Cap	1	19	HG1135401	Cable Clamp	1
8	CEGHG001	Drawbar Switch	1	20	HG1171201	Switch Spring	1
9	HG1074802	Cable Base Block	1	21	HG1171301	Lever Spring	2
11		M4 Self-Locking Nut – DIN 985	1	22	MANHG034	Indicator Light	1
				23	HG1026201	Rubber Keypad	1
				24	PLS022	Potentiometer	1

1:14.2 Yellow Gear Reducer with W Flange	Cod. HG171001			
	N	Code	Description	Qty.
	1	HG171201	1:14.2 Yellow Gear Reducer	1
	2	HG171101	W Flange for Gear Reducer	1
	3		M6x20 Low Head Socket Cap Screw – DIN 7984	6

M30x2 Left-Hand Thread Flange Connection	Cod. HG116201 (for HIQ Motor)			
	N	Code	Description	Qty.
	1	HG1169201	FC Floorsander 4X Shifting Wheel Frame	1
	2	HG1169301	Shifting Wheel Shaft	2
	3	RTO075	Wheel	2
	4	MANHG031	Retractable Handle ERX.78 p-M10x35-C5	2
	5		M8 x 25 Hex Socket Head Cap Screw – UNI 5931	2
	6		Snap Ring 12 – UNI 7435	2
	7		M8 Split Washer – UNI 1751 B	2

Accessories



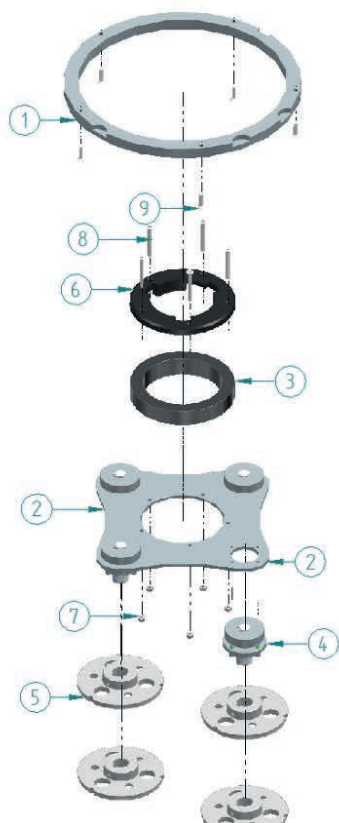
N	Code	Description	Qty.
1	HG165402	FC Floorsander 4X Planetary Gear	1
2	HG1213602	FC Floorsander 4X Planetary Gear Wirbell Connection Reducer Cesana	1
3	HG164705	FC Floorsander 4X 150 B Planetary Gear	1
4	HG176302	FC Floorsander 4X 150 B Planetary Gear Wirbell Connection Reducer Cesana	1
5	HG165501	FC Floorsander 4X Planetary Gear Kit with HD AS Crown	1
6	HG165601	FC Floorsander 4X Planetary Gear Kit with HD 150 B Crown	1
7		17-Inch Drag Kit	1
8	HG187601	A4 Multidisc HD Free Spin Planetary AS	1
9	HG1169401	Elastic Dust Shield Hood FC Floorsander 4X	1
10	HG165001	Weight Kit	1
11	HG165101	Spotlight Kit	1

FC Floorsander 4X Planetary Gear

Cod. HG165402

Portasat = Reducer

Satellite = Portasat x 4.65



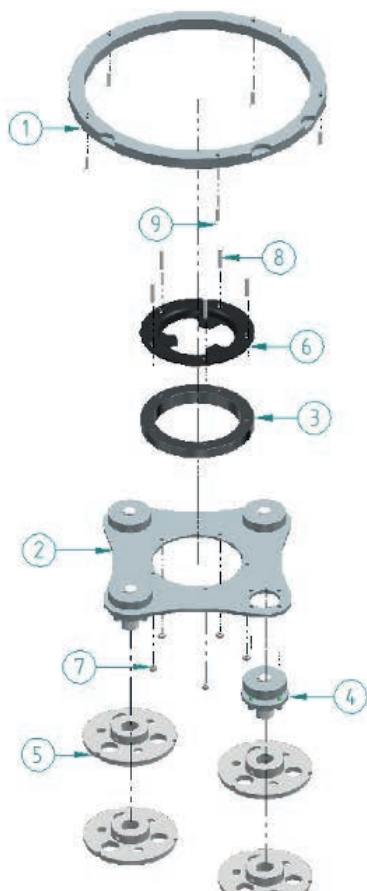
N	Code	Description	Qty.
1	HG1168402	Crown Z 130 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG1169801	Interface Spacer FC Floorsander 4X	1
4	HG165202	FC Floorsander 4X Satellite Kit for Platter AS	4
5	HG1051103	Diamond Holder D140 AS/Ready Look	4
6	SPCLARKE	100 Hole Flange	1
7		M6 Self-Locking Nut DIN 985	5
8		M6x55 Countersunk Head Screw UNI 5933	5
9		M6x25 Countersunk Head Socket Screw - UNI 5933	5

**FC Floorsander 4X Planetary
Gear Wirbell Connection
Reducer Cesana**

Cod. HG1213602

Portasat. = Reducer

Satellite = Portasat x 4.65



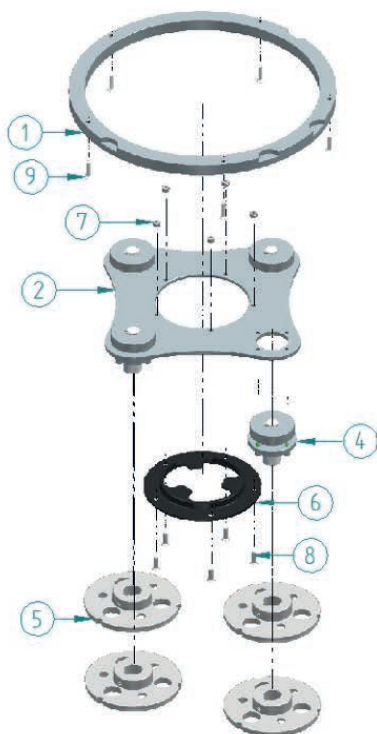
N	Code	Description	Qty.
1	HG1168402	Crown Z 130 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG1196401	FC Floorsander 4X Interface Spacer Wirbell	1
4	HG165202	FC Floorsander 4X Satellite Kit for Platter AS	4
5	HG1051103	Diamond Holder D140 AS/Ready Look	4
6	01017	W Flange	1
7		M6 Self-Locking Nut – DIN 985	5
8		M6x35 Countersunk Head Socket Screw UNI 5933	5
9		M6x25 Countersunk Head Socket Screw – UNI 5933	5

**FC Floorsander 4X Planetary
Gear Wirbell Connection
HIQ Motor**

Cod. HG183302

Portasat. = Reducer

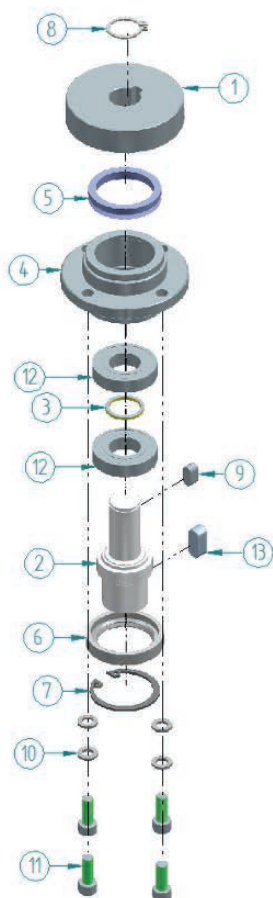
Satellite = Portasat x 4.65



N	Code	Description	Qty.
1	HG1168402	Crown Z 130 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
4	HG165202	FC Floorsander 4X Satellite Kit for Platter AS	4
5	HG1051103	Diamond Holder D140 AS/Ready Look	4
6	01017	W Flange	1
7		M6 Self-Locking Nut DIN 985	5
8		M6x20 Countersunk Head Socket Screw UNI 5933	5
9		M6x25 Countersunk Head Socket Screw UNI5933	5

FC Floorsander 4X Satellite Kit for Platter AS

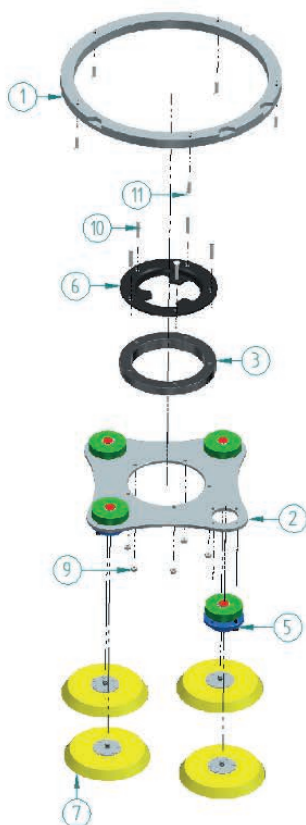
Cod. HG165202



N	Code	Description	Qty.
1	HG1168801	Satellite Z 23 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1170001	Satellite Pin	1
3	HG1169001	Spacer	1
4	HG1169103	Satellite Support - Tilted Collar	1
5	GUAHG017	V-Ring 30 VA	1
6	GUA143	Lip Seal 30x42x7	1
7		Seeger Ring D37	1
8		Seeger Shaft Ring D17	1
9		6x6x12 Key – UNI 6604-A	1
10		M6 Washer – UNI 6592	4
11		M6 x 16 Hex Socket Head Cap Screw – UNI 5931	4
12		16003-2Z Bearing	2
13		8x7x18 Key – UNI 6604 - A	1

**FC Floorsander 4X 150 B
Planetary Gear Wirbell
Connection Reducer Cesana**

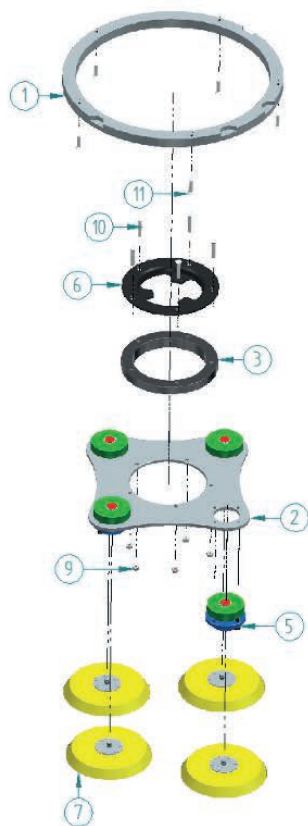
Cod. HG176302



N	Code	Description	Qty.
1	HG1168402	Crown Z 130 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG1196401	FC Floorsander 4X Interface Spacer Wirbell	1
5	HG164804	FC Floorsander 4X Satellite Kit - M8	4
6	01017	W Flange	1
7	167/k	150 mm Platter M8	4
9		M6 Self-Locking Nut DIN 985	5
10		M6x35 Countersunk Head Socket Screw UNI 5933	5
11		M6x25 Countersunk Head Socket Screw - UNI 5933	5

**FC Floorsander 4X 150 B
Planetary Gear Wirbell
Connection Reducer Cesana**

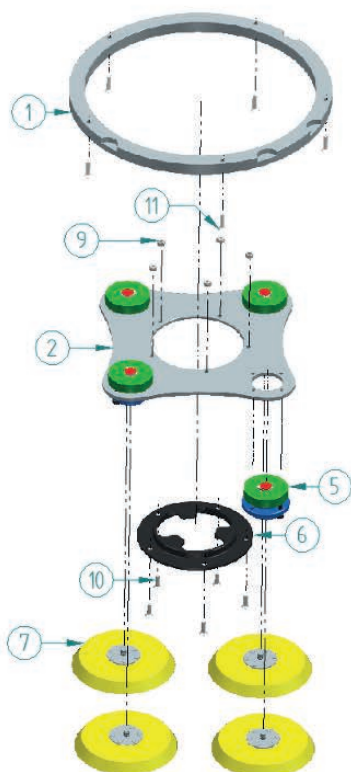
Cod. HG176302



N	Code	Description	Qty.
1	HG1168402	Crown Z 130 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG1196401	FC Floorsander 4X Interface Spacer Wirbell	1
5	HG164804	FC Floorsander 4X Satellite Kit - M8	4
6	01017	W Flange	1
7	167/k	150 mm Platter M8	4
9		M6 Self-Locking Nut DIN 985	5
10		M6x35 Countersunk Head Socket Screw UNI 5933	5
11		M6x25 Countersunk Head Socket Screw - UNI 5933	5

**FC Floorsander 4X 150 B
Planetary Gear Connection
HIQ Motor**

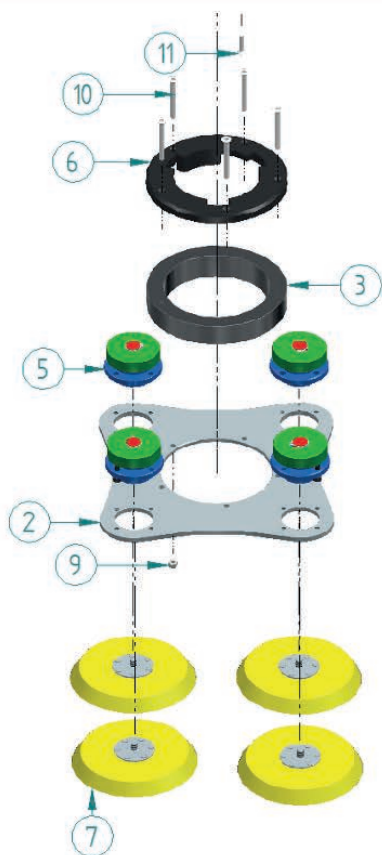
Cod. HG178203



N	Code	Description	Qty.
1	HG1168402	Crown Z 130 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
5	HG164804	FC Floorsander 4X Satellite Kit - M8	4
6	01017	W Flange	1
7	167/k	150 mm Platter M8	4
9		M6 Self-Locking Nut – DIN 985	5
10		M6x20 Countersunk Head Socket Screw – UNI 5933	5
11		M6x25 Countersunk Head Socket Screw – UNI 5933	5

**FC Floorsander 4X HD
Planetary Gear 150VEL M8
Without Crown**

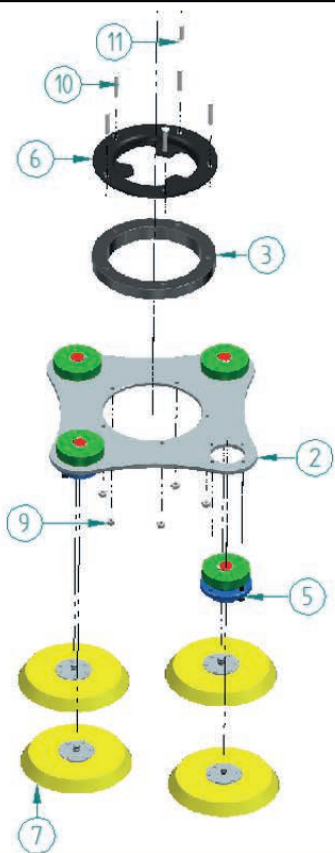
Cod. HG184102



N	Code	Description	Qty.
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG1169801	FC Floorsander 4X Interface Spacer	1
5	HG164804	FC Floorsander 4X Satellite Kit - M8	4
6	SPCLARKE	100 Hole Flange	1
7	167/k	150 mm Platter M8	4
9		M6 Self-Locking Nut – DIN 985	1
10		M6x55 Countersunk Head Socket Screw – UNI 5933	5
11		M6x25 Countersunk Head Socket Screw – UNI 5933	5

**FC Floorsander 4X 150VEL
Planetary Gear M8 Wirbell
Connection Reducer Cesana
Without Crown**

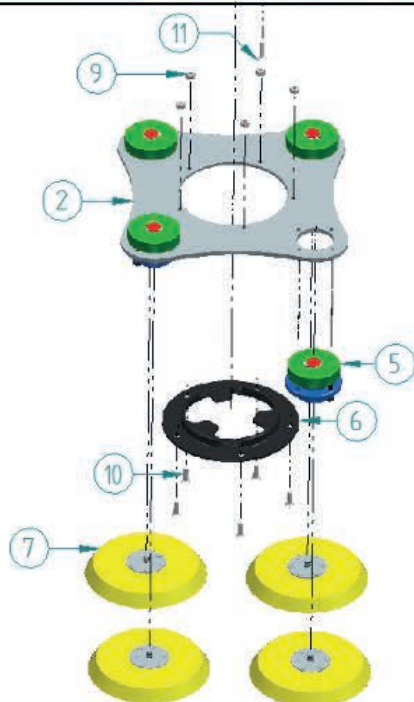
Cod. HG184202



N	Code	Description	Qty.
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG1196401	FC Floorsander 4X Interface Spacer Wirbell	1
5	HG164804	FC Floorsander 4X Satellite Kit - M8	4
6	01017	W Flange	1
7	167/k	150 mm Platter M8	4
9		M6 Self-Locking Nut – DIN 985	5
10		M6x35 Countersunk Head Socket Screw – UNI 5933	5
11		M6x25 Countersunk Head Socket Screw – UNI 5933	5

**FC Floorsander 4X 150VEL
Planetary Gear M8 Wirbell
Connection HIQ Motor
Without Crown**

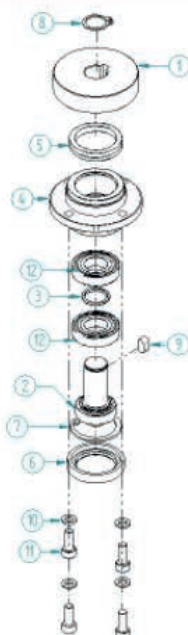
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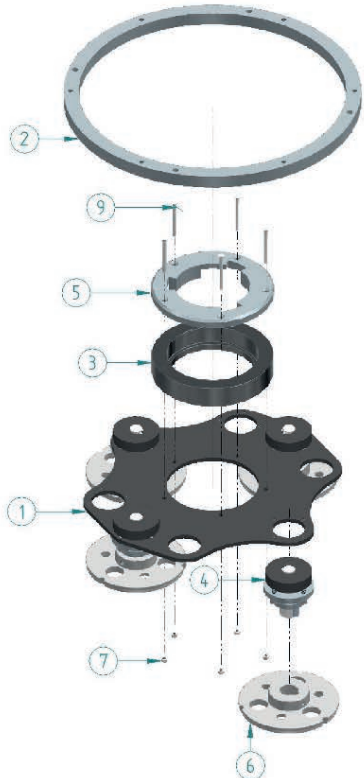
N	Code	Description	Qty.
2	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
5	HG164804	FC Floorsander 4X Satellite Kit - M8	4
6	01017	W Flange	1
7	167/k	150 mm Platter M8	4
9		M6 Self-Locking Nut – DIN 985	5
10		M6x20 Countersunk Head Socket Screw – UNI 5933	5
11		M6x25 Countersunk Head Socket Screw – UNI 5933	5

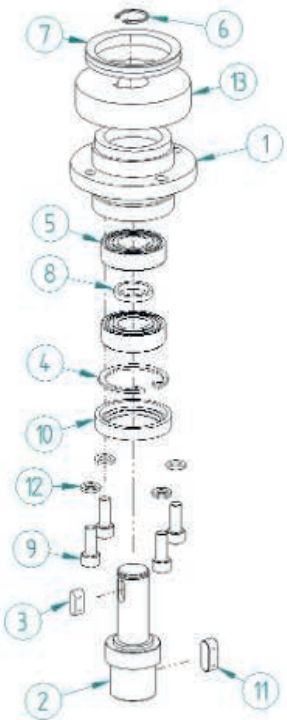
FC Floorsander 4X Satellite Kit M8

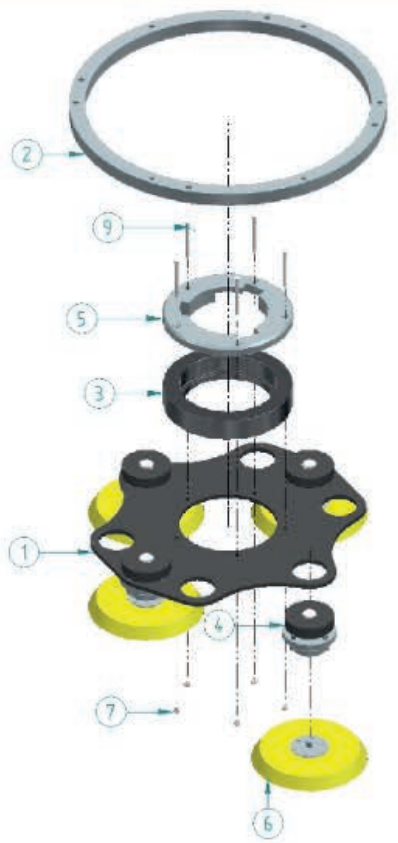
Cod. HG164804

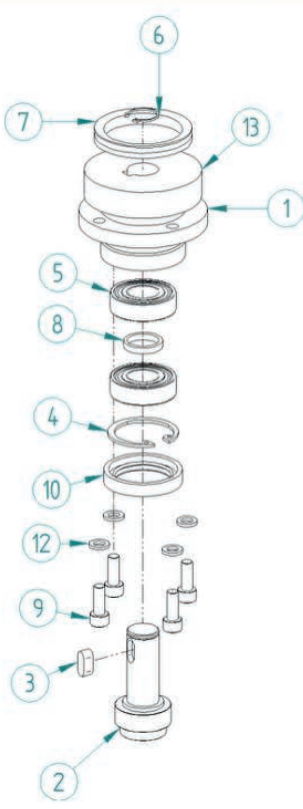


N	Code	Description	Qty.
1	HG1168801	Satellite Z 23 Mn 2.5 - Propeller Angle Inclination 12 Degrees	1
2	HG1168901	M8 Satellite Pin	1
3	HG1169001	Spacer	1
4	HG1169103	Satellite Support - Tilted Collar	1
5	GUAHG017	V-Ring 30 VA	1
6	GUA143	Lip Seal 30x42x7	1
7		Seeger Ring D37	1
8		Seeger Shaft Ring D17	1
9		6x6x12 Key – UNI 6604 - A	1
10		M6 Washer – UNI 6592	4
11		M6 x 16 Hex Socket Head Cap Screw – UNI 5931	4
12		16003-2Z Bearing	2

FC Floorsander 4X HD Planetary Gear - AS	Cod. HG165501			
	Portasat. = Reducer		Vsatellite = Vportasat x 4.22	
	N°	Code	Description	Qty.
	1	HG1052102	HD Planetary Satellite Holder Disc	1
	2	HG1054903	HD Planetary Sun Gear Exterior	1
	3	HG1170201	FC Floorsander 4X HD Planetary Interface Spacer	1
	4	HG128001	Satellite Group	4
	5	SPCLARKE	100 Hole Flange	1
	6	HG1051103	Diamond Holder D140 AS/Ready Look	4
	7		M5 Self-Locking Nut – DIN 985	5
	9		M5x55 Countersunk Head Socket Screw – UNI 5933	5

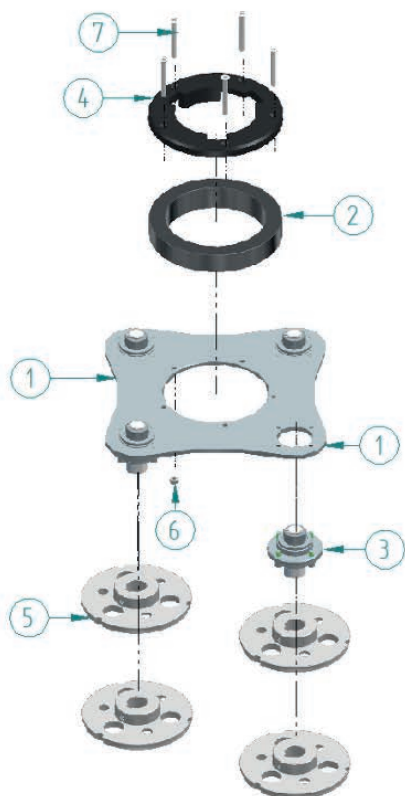
Satellite Group	Cod. HG128001			
	N°	Code	Description	Qty.
	1	HG1127901	Planetary Satellite Holder	1
	2	HG1065601	Leone HD Planetary Satellite Shaft	1
	3		6x6x14 Key – UNI 6604-A	1
	4		Seeger Ring D35	1
	5		6003-Z Bearing	2
	6*		Ring UNI 7435-17	1
	7		V-Ring D42	1
	8	HG1127801	Satellite Holder Spacer	1
	9		M6x16 Countersunk Head Socket Screw – UNI 5931	4
	10	GUA143	30x42x7 Sealing Ring	1
	11		8x7x18 Key – UNI 6604 - A	1
	12		M6 Washer – UNI 6592	4
	13	HG1052301	Leone HD Planetary Satellite Wheel	1

FC Floorsander 4X HD Planetary Gear – 150 B	Cod. HG165601			
	N°	Code	Description	Qty.
	1	HG1052102	HD Planetary Satellite Holder Disc	1
	2	HG1054903	HD Planetary Sun Gear Exterior	1
	3	HG1170201	FC Floorsander 4X HD Planetary Interface Spacer	1
	4	HG165701	Satellite Group	4
	5	SPCLARKE	100 Hole Flange	1
	6	HG1192401	Soft Yellow Platter Diameter 150	4
	7		M5 Self-Locking Nut – DIN 985	5
	9		M5x55 Countersunk Head Socket Screw – UNI 5933	5

Satellite Group	Cod. HG165701			
	N°	Code	Description	Qty.
	1	HG1127901	Satellite Holder	1
	2	HG1165001	M8 Threaded Shaft Satellite	1
	3		6x6x14 Key – UNI 6604-A	1
	4		Seeger Ring D35	1
	5		6003-Z Bearing	2
	6		Ring UNI 7435-17	1
	7		V-Ring D42	1
	8	HG1127801	Satellite Holder Spacer	1
	9		M6x16 Countersunk Head Socket Screw – UNI 5931	4
	10	GUA143	30x42x7 Sealing Ring	1
	12		M6 Washer – UNI 6592	4
	13	HG1052301	Leone HD Planetary Satellite Wheel	1

A4 Multidisc HD Free Spin Planetary AS

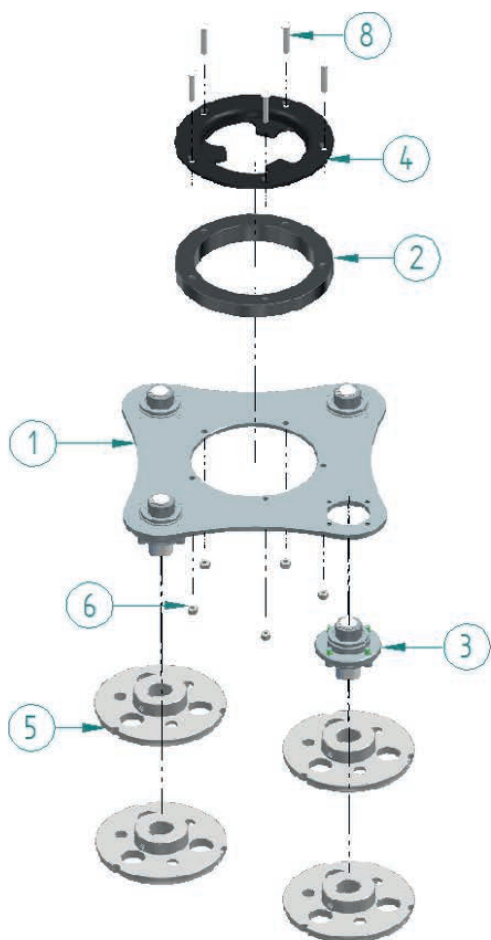
Cod. HG187601



N	Code	Description	Qty.
1	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
2	HG1169801	FC Floorsander 4X Interface Spacer	1
3	HG187701	Satellite Kit for Multidisk Free Spin AS	4
4	SPCLARKE	100 Hole Flange	1
5	HG1051103	Diamond Holder D140 AS/Ready Look	4
6		M6 Self-Locking Nut – DIN 985	5
7		M6x55 Countersunk Head Socket Screw – UNI 5933	5

A4 Multidisc HD Free Spin Planetary AS Wirbell Connection Reducer Cesana

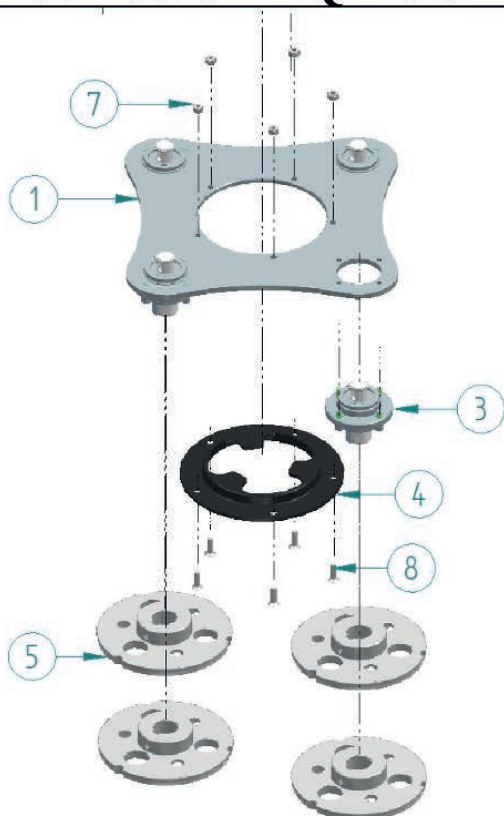
Cod. HG187801



N	Code	Description	Qty.
1	HG1169902	HG1169902 FC Floorsander 4X Planetary Plate, Unique Spacer	1
2	HG1196401	FC Floorsander 4X Interface Spacer Wirbell	1
3	HG187701	Satellite Kit for Multidisk Free Spin AS	4
4	01017	W Flange	1
5	HG1051103	Diamond Holder D140 AS/Ready Look	4
6		M6 Self-Locking Nut – DIN 985	5
8		M6x35 Countersunk Head Socket Screw – UNI 5933	5

A4 Multidisc HD Free Spin Planetary AS Wirbell Connection HIQ Motor

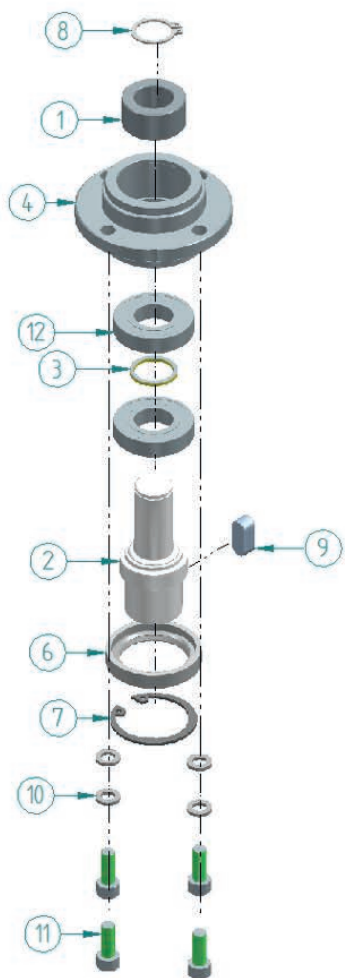
Cod. HG187901



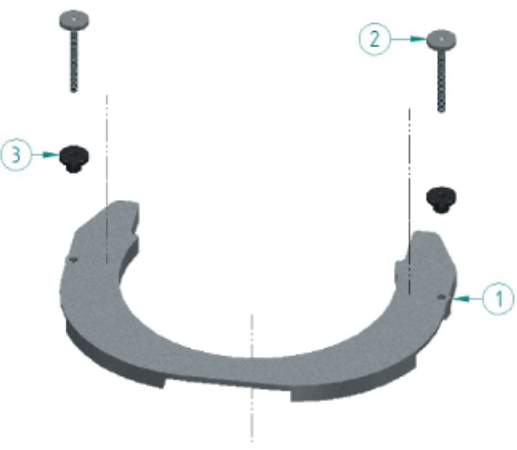
N	Code	Description	Qty.
1	HG1169902	FC Floorsander 4X Planetary Plate, Unique Spacer	1
3	HG187701	Satellite Kit for Multidisc Free Spin AS	4
4	01017	W Flange	1
5	HG1051103	Diamond Holder D140 AS/Ready Look	4
7		M6 Self-Locking Nut – DIN 985	5
8		M6x20 Countersunk Head Socket Screw – UNI 5933	5

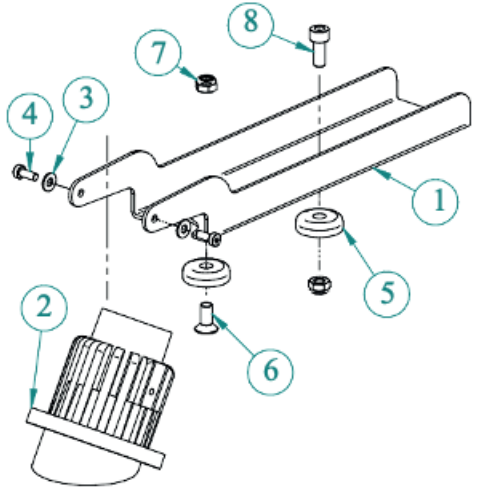
Satellite Kit for Multidisc Free Spin AS

Cod. HG187701



N	Code	Description	Qty.
1	HG1194701	17x28x14 Spacer	1
2	HG1170001	Satellite Pin	1
3	HG1169001	Spacer	1
4	HG1169103	Satellite Support - Tilted Collar	1
6	GUA143	30x42x7 Lip Seal	1
7		Seeger Ring D37	1
8		Seeger Shaft Ring D17	1
9		8x7x18 Key – UNI 6604-A	1
10		M6 Washer – UNI 6592	4
11		M6 x 16 Hex Socket Head Cap Screw – UNI 5931	4
12		16003-2Z Bearing	2

Weights Kit		Cod. HG165001																	
		<table border="1"> <thead> <tr> <th>N°</th><th>Code</th><th>Description</th><th>Qty.</th></tr> </thead> <tbody> <tr> <td>1</td><td>HG1169501</td><td>Weight</td><td>1</td></tr> <tr> <td>2</td><td>HG1169701</td><td>Weight Locking Screw</td><td>2</td></tr> <tr> <td>3</td><td></td><td>M8 Nut – DIN 466</td><td>2</td></tr> </tbody> </table>		N°	Code	Description	Qty.	1	HG1169501	Weight	1	2	HG1169701	Weight Locking Screw	2	3		M8 Nut – DIN 466	2
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Spotlight Kit (OPTIONAL)		Cod. HG165101																																					
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