

GRINDING MACHINES



USER INSTRUCTIONS

MOD.135SH

112 455 000 - 230 Volt
112 455 600 - 120 Volt

MOD.145SH

112 560 000 - 230 Volt
112 560 600 - 120 Volt

MOD.155 S

112 750 000 - 230 Volt
112 750 600 - 120 Volt



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Machines & Tools
Work Clothing

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janser

Manufacturer of machines & tools for the flooring industry

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1 RULES FOR SAFE OPERATION

Non observance of the symbols, which you can see in the instruction manual or on the machine, may result in serious injury or death for the user and other persons. Read, understand and follow all the clues / hints, which are situated in the machine or in the instruction manual.



Commandment



**Warning /
Caution**



**Hint /
Clue**



**Forbiddance /
Prohibition**

1.1 Electric Connection



Always disconnect power plug before servicing.

Maintenance, replacement or adjustment of hydraulic fluid or other parts can cause serious injury or death to the user or other persons, if the machine is connected to the power supply system.



Keep the cable away from the blade to avoid damage of the cable.

Das Run over or damage of the cable can cause an electric shock.



The machine is constructed for inside-usage only.

Danger of electric shock. Do not expose the machine to water or rain.



Connection: power supply system – machine

Only to the given ranges on the type plate.
Check before usage.



Connection: cable – machine only with authorized cable.

Europe, Cable – Type: HAR HO5VV-3x2,5 mm² , Connector / Plug – Type: 2P+T16A-250v
Using cables with too little average or excessive length can cause damage to persons and objects.



Electrical equipments like cables or plugs must be controlled / renewed by an authorized electrician. Risk of injuries or fatalities by wrong electrical connection



Never operate with a damaged cable or connector.

Replacement of worn or damaged cables or connectors has to be effected by a specialist or a similar qualified person.



Improperly connecting the grounding wire can result in risk of electric shock.

Check with a qualified electrician if your in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the cord or plug is damaged. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.



Do not use machine when cable is damage. Don't move the machine by dragging the cable. Utilization with a damaged cable can cause an electric shock.

1 RULES FOR SAFE OPERATION

1.2 Staff



The operator has to be instructed to the use of the machine before operating.

Non observance of the instruction manual before commissioning, adjustment or maintenance could cause serious injury to personal or objects.



Read unexceptionally all security statements. Be sure that type plate, security symbols as commandments, warnings, precautions and the directives are mounted / fixed to the machine. Non observance of the directives inside this manual may cause serious injury or damage.



Always wear eye-protection, protective suit, dust-mouthguard / dust respirator and ear-protection during the usage of the machine. The noise that appears while removing flooring can be so intense that at long term use it may cause injury of the auditory tube. Working without appropriate security equipment, as for instance a protective suit, can injure eyes and body. Arising airborne dust may be inhaled when wearing no mouthguard.



Keep arms, feet and clothes away from the operating machine parts. Moving parts of the machine can cause serious injury or damage.

1.3 Usage



Use only the recommended accessories ensure its function before starting. Spare parts and accessories are manufactured especially for the COLUMBUS.

We explicitly point out that other parts must not be used. Thereby the safety of the machine can be negatively affected, especially the blade. Janser GmbH cannot be held responsible for the performance of any damage arising from the use of machines in which genuine spare parts have not been used.



Work Safety

The grinding machine COLUMBUS is designed to the highest technical standards.

Nevertheless the usage may cause dangers for life, body and objects. Use this machine only as instructed in this operation manual and with the machine in perfect working order. Disturbances that could impair safety, have to be eliminated immediately.



Restrictions of Use

The grinding machine COLUMBUS is exclusively for use in dry rooms for grinding, cleaning and sanding of subfloors. It should not be used for any other materials.

Janser GmbH cannot be held responsible for any damage or loss caused by incorrect use. Correct use also includes to take care of all directions from the operation manual and the execution of maintenance and service.

2 PRODUCT INFORMATION

2.1 Technical Description

Columbus

Removes decisively all that unwanted material adhered to your subfloor !

This machine will mill, grind and sand your floor surface while creating a minimum of dust - thus helping to maintain a healthier working environment.

All types of plaster, screed, asphalt and adhesive along with small surface irregularities can be removed from the subfloor with ease.

On parquet floors the Columbus is ideal for sanding immediately before and between sealing and varnishing coats. It can then be used for surface cleaning, polishing and the applying of sealing wax.

With a wide range of working plate options to suit all types of floor surfaces, the machine is unsurpassed in saving you time and effort.

The robust design and construction of the Columbus ensures a long life and good reliability. The 3-gear planetary transmission designed to cope with the toughest tasks.

With the appropriate accessories the machine is also used for shampooing carpets. Working plates can be changed in seconds.



2.2 Restrictions of Use - Range of Application

Finish sanding of parquet	←	MOD.135	MOD.145 MOD.155
Intermediate grinding	←		
Grinding of cork floors	←		
Waxing	←		
Incorporating of flooring materials	←		
Shampooing of carpets	←		
Grinding of wash floors and fillers	←	MOD.155	
Removing all residues	←		

2.3 Technical Data

MODEL	135 SH	145SH	155S
Power supply	230V or 110 V	230V or 110 V	230V or 110 V
Motor power	1200 Watt (1,5 HP)	1500 Watt (2 HP)	2000 Watt (2,5HP)
Working Width	Ø 375 mm (14 3/4")	Ø 375 mm (14 3/4")	Ø 375 mm (14 3/4")
Speed	140 rpm	140 rpm	140 rpm
Weight	42 kg (93 lbs)	42 kg (93 lbs)	50 kg (110lbs)
Order-No. 110 V	112 455 600	112 560 600	112 750 600
Order-No. 230 V	112 455 000	112 560 000	112 750 000

2 PRODUCT INFORMATION

2.4 Accessory units

Dust Extraction Ring MULTI-VAC

For connection to the JANVAC Vacuum Cleaner. Fits on Columbus Machines

This vacuum-system was developed with the latest "2-Channel Suction System".

If used in combination with a strong vacuum cleaner like the JANVAC, grinding or sanding can be done in one dust free process with vacuum so that hardly any dust will be left.

CONTENTS:
Dust Ring with closure-ring,
velco straps, 2 suction hoses
and T-Adapter

Order-No. 113 700 000

Spare Parts

Velcro Strap 113 700 100

Special Equipment

for older Columbus-Models
(with small wheels & foot-
rest)

Clutch Adaptor 112 336 100



Dust Extractors JANVAC

- Built for construction materials such as concrete, plaster, grout and stone.
- Safe when working with insanitary dust.
- Easy to transport.
- Delivered complete with cleaning equipment.

With a 1200 Watt motor and the Teflon-coated filter areas, the airflow is so great that vacuuming from hand tools and the removal of other dust is performed without difficulty.

The Teflon-coated channel filter has a self-cleaning effect because the filter material is stretched over springs which move automatically when in operation.



Modell 1600

STANDARD ACCESSORIES:
- 4 m (13 1/8') suction hose
Ø 38 mm (1 1/2")
- Rolling floor nozzle 45 cm (1 1/2") -
Suction pipe

TECHNICAL SPECIFICATION

Power Supply 230V or 120 V
Motor Power 1200 Watt (1,6 HP)
Filter Area 8000 cm² (8,6 sq')
Weight 15 kg (33 lbs)

230 V 115 095 000

120 V 115 095 500



Modell 2400

STANDARD ACCESSORIES:
- 4 m (13 1/8') suction hose
Ø 38 mm (1 1/2")
- Rolling floor nozzle 45 cm (1 1/2") -
Suction pipe

TECHNICAL SPECIFICATION

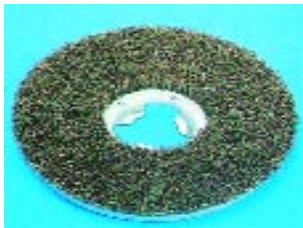
Power Supply 230V or 120 V
Motor Power 1200 Watt (1,6 HP)
Filter Area 14000 cm² (15,1sq')
Weight 30 kg (66 lbs)

230 V 115 096 000

120 V 115 096 500

2 PRODUCT INFORMATION

2.6 Accessories driving discs/brushes/plates



Polishing Brush

Order-No.:

for Mod.135/145/155 112 320 000



Scrubbing Brush

For cleaning hard surfaces

Order-No.:

for Mod.135/145/155 783 000 012



Shampooing Brush

For cleaning of rugs and carpets

Order-No.:

for Mod.135/145/155 783 000 011



Tank

Capacity 15 l

Order-No.:

for Mod.135/145/155 783 000 010



**Grinding Plate
with Felt**

For holding sandpaper discs and also suitable for compressing adhesive on PVC/linoleum type floor coverings.

Order-No.:

for Mod.135/145/155 112 300 001

Felt Plate

Ø 375 mm (14 3/4") 112 300 002

Ø 430 mm (17") 112 801 002



Universal Plate

For accepting sandpaper discs, sanding gauze discs and abrasive pads.

Order-No.:

for Mod.135/145/155 112 334 000

Rubber-coconut-disc

Ø 375 mm (14 3/4") 112 334 001

Ø 410 mm (16") 112 809 001

2 PRODUCT INFORMATION

2.4 Accessories driving discs/brushes/plates



Sandpaper double sided

pack of 25

Ø 375 mm (14³/₄"")
for Mod.135/145/155

Grit 12	112 309 000
Grit 16	112 311 000
Grit 24	112 312 000
Grit 30	112 313 000
Grit 40	112 314 000
Grit 60	112 315 000
Grit 80	112 316 000
Grit 100	112 317 000
Grit 120	112 318 000



Sandpaper - full plastic -red double sided

pack of 25

Ø 375 mm (14³/₄"")
for Mod.135/145/155

Grit 12	112 324 000
Grit 16	112 310 000
Grit 24	112 325 000
Grit 30	112 326 000
Grit 40	112 327 000
Grit 60	112 328 000



Pad Mounting Plate

For mounting of sanding mats and pads to take grinding gauze.

Order-No.:

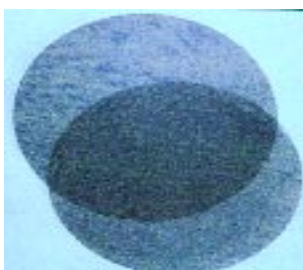
for Mod.135/145/155 783 000 040

Black Pad
for fixing grinding gauze

for Mod.135/145/155 783 000 015

Velcro Top

for Mod.135/145/155 783 000 041



Grinding Gauze Ø 410 (16")

pack of 10 pcs

Order-No.:

for Mod.135/145/155

Grit 60	783 000 045
Grit 80	783 000 047
Grit 100	783 000 050
Grit 120	783 000 055
Grit 150	783 000 057
Grit 180	783 000 060

Sanding Mats

Gr. 40 coarse for smoothing off wood
Gr. 80 medium for in-between smoothing
Gr.280 fine for cutting sealed floor surfaces

for Mod.135/145/155

Grit 40	783 000 140
Grit 80	783 000 180
Grit 280	783 000 280

Polyester Pads

brown for stubborn dirt
red for normal dirt
white for polishing

for Mod.135/145/155

brown	783 000 023
red	783 000 025
white	783 000 026

Regular Pads

for Mod.135/145/155

brown	783 000 017
green	783 000 016

2 PRODUCT INFORMATION

2.4 Accessories driving discs/brushes/plates



Steel Brush
Wire length 45 mm (1¾")

For removal of foam backing, adhered residual underlay and carpet backing for industrial floor cleaning.

Order-No.:
for Mod.145+155 **112 319 000**



Stone Disc
Grit 30

For grinding of plaster and levelling compound.

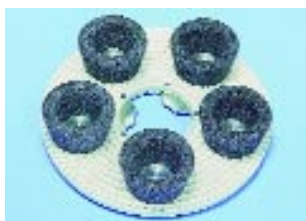
Order-No.:
for Mod.145+155 **112 350 050**
Spare Parts
Stone Disc Grit 30 **112 341 041**
Special Glue **112 350 000**



Grinding Plate
Grit 20 with 6 Rectangular Grinding Stones, replaceable 75 x 90 mm (3 x 3½")

For grinding of plaster and levelling compound, removal of residual paint and gypsum, smoothing of slight unevenness.

Order-No.:
for Mod.145/155 **112 332 000**
Replacement Stone Grit 20
with tapped hole
for Mod.145/155 **161 515 003**



Grinding Plate
Grit 16 with 5 truncated, conical stones,

For grinding of screed and hard plaster, asphalt and concrete. Good grinding rate due to high total edge measurement of hollow conical stones. Removes unevenness, soft spots, coatings and residual filling plaster.

Order-No.:
for Mod.145+155 **112 346 000**
Replacement Parts
Grinding Stone, Grit 16 **112 346 001**



Abrasive Disc
metal Grit 14

A thin steel disc with randomly scattered hard-metal fragments welded to the surface. For roughing the surface of anhydrite and screed. Also suitable for levelling off surface irregularities.

Order-No.:
Ø 375 mm (14¾")
for Mod.145+155 **112 308 000**



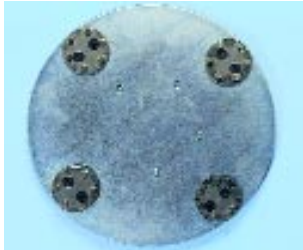
Plate with 6 Pot Brushes

For removal of the metallic layer that builds up between anhydrite and magnesite screed materials. Also for the removal of residual foam-backing, plaster splatter, residual paint coatings etc. and the removal of adhered underlay.

Order-No.:
for Mod.145+155 **112 322 000**
Replacement Parts
Pot Brushes **112 321 003**

2 PRODUCT INFORMATION

2.4 Accessories driving discs/brushes/plates



Surface Roughener with Fully Hardened Metal Spikes, replaceable

For removal of paint and synthetic sealants, removal of adhered underlay, cork tiling and adhesive residue for roughening industrial floors for the removal of adhered felt board.

Order-No.:

for Mod.145+155	112 344 000
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Replacement Parts

Spare Fully Hardened Spikes	112 344 001
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Roughening Plate with 4 hard metal flats, very coarse Grit 10

For removal of residual adhesive (Dampening with water assists cooling without reducing abrasiveness). For removal of paint, paint-on coatings and insulating screeds.

Roughening of industrial floors. The grinding smooth of hardened anhydrite screeds.

Order-No.:

for Mod.145+155	112 336 000
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Replacement Parts

Hardmetal Flats, set of 4	112 336 010
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Grinding Plate with 8 Hardmetal Titanium - coated Insets

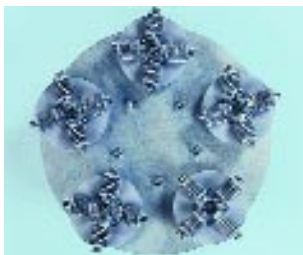
Each inset is useable on 4 sides. For removal of residual adhesive (also bitumen) or other adhered surface covering material. The hardmetal inserts can be redated to make use of all 4 cutting edges in turn.

Order-No.:

for Mod.145+155	112 343 000
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Replacement Parts

Hardmetal Inset, set of 8	112 343 001
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Star-Wheel Grinding Plate with 5 redating Heads of 20 wheels each

For the effective scraping, peeling and removal of adhesive and various coatings as well as thin set and mastic.

Order-No.:

for Mod.145+155	112 339 000
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Replacement Parts

Grinding Head, complete	112 339
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Set of 20 Grinding Wheels	112 339 110
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Hexa-Plate with 12 Carbide-Hexpins

designed with a replaceable, four-sided, abrasion resistant, carbide insert to be used for scraping and removal of coatings and paints from concrete surfaces.

Order-No.:

for Mod.145 SH+155S	112 355 000
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Replacement Parts

Carbide Hexpin	112 355 020
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Carbide Insert	112 355 050
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2 PRODUCT INFORMATION

2.4 Accessories driving discs/brushes/plates



Hexa-Plate with 6 Diamond-Segments

Grinding of hard surfaces such as concrete or levelling compounds seems to be more effective as by using other diamond plates due to the larger area covered. It also proves more effective when grinding plaster and anhydrite screed.

Order-No.:

for Mod.145SH+155S 112 353 000

**Diamond Segment compl
with input unit**

1 pcs 112 353 020

set of 6 pcs 112 353 200

Replacement Diamond Segment

1 pcs 112 353 010

set of 6 pcs 112 353 100



Abrazor Diamond Plate with 5 Diamond Cups on Ball Bearings

For superior grinding, sanding and bevelling on hard surfaces like concrete and coated levelling compounds. The 5 Diamond Cups are stabilized in a way that they work in unity. The use of a strong Sander is recommended. (min. 1500 Watt /2 HP + 3-gear planetary)

Order-No.:

for Mod.145 SH/155 S 112 357 000

Replacement Parts

Diamond Cup (1pcs) 112 357 100



Multi-Disc-Shuttle® with 5 Satellites to hold 5 Sanding- or Grinding Plates.

The particular rotation of the five satellites guarantees consistency and stability to the machine also during the hardest tasks.

Order-No. 112 359 000

Multi-Disc-Satelites®

5 same Satellites per Shuttle needed

Satellite MULTI-PAD

for holding velcro sanding discs

Order-No. 112 359 100

Velcro Sanding Paper

Ø115 mm (4½") pack of 25

Grit 40 112 359 110

Grit 60 112 359 111

Grit 80 112 359 112

Grit 100 112 359 113

Grit 120 112 359 114

Velcro Screen Pad

Ø105 mm (4 1/8") pack of 25

Grit 80 112 359 120

Grit 100 112 359 121

Grit 120 112 359 122

Grit 150 112 359 123

MULTI-TITAN

with hard metal fragments for grinding of hard surfaces

Order-No. 112 359 200

MULTI-DIAMOND

with diamond segments for sanding and roughening on hard floors

Order-No. 112 359 300

MULTI-STONE

ideal accessory to sand cement foundations. Eliminates brush marks and surplus materials.

Order-No. 112 359 400

MULTI-SCRAPER

created to remove glue underneath carpets or levelling products.

Order-No. 112 359 500

Replacement Parts

HM-Inserts 112 359 510

3 IMPORTANT SECURITY INSTRUCTIONS

3.1 DETERMINED APPLICATION



All columbus single disc floor cleaning machines may only be used indoors for scrubbing, polishing, shampooing of floor coverings. Certain models - see range of applications - may also be used indoors for grinding, roughing and milling all kind of subsoils.

3.2 ELECTRIC SUPPLY



Before usage it has to be taken care that the connected load corresponds to the marking on the rating plate.



Unplug machine before carrying out maintenance or repair works or changing accessories



The main cable may not be damaged by passing over, pinching, wrenching, chafing or similar. Machines may only be used with perfect cables.



When replacing cables, plugs, couplings, fuses or sockets take care the same comply with the the specifications stated by the manufacturer and genuine spare parts are being used. Only splash-proof couplings may be used for the main cable or extension cords.

3.3 MEASURES OF PRECAUTION



The machines may never be transported with the guide bar in its upright position



When transporting in elevators the relevant user instructions and safety measures especially the carrying capacity have to be kept in.



The machine is only suitable to be used on plain areas with a maximum gradient up to 2% Drive carefully over sills and steps to avoid damages at the edges respectively brushes or pads



After stoppage the machine has immediately to be switched off to avoid damages on floors.

3.4 ACCIDENT CONTROL MEASURES



Never switch on machine when in upright position only when tilting back to working position.



Take care not to cross the cable. The working field must be always behind the machine at the guide bar.



IN CASE OF EMERGENCY - UNPLUG MACHINE

3.5 Emissions



The equivalent A-weighted continuous sound level of these machines without suction unit lies under 70 dB (A) and with suction unit under 81 dB (A).

4 INSTRUCTIONS

4.1 Initial Operation

Assembling the guide bar

- a. First of all the guide bar has to be fitted to the body with the four fixing nuts which have to be tightened with a 13 mm fork wrench.
- b. Then plug the cable of the guide bar on to the machine body.
- c. Unlock the guide bar by pulling the lower lever on the right, tilt the machine slightly forward into the upright position until it locks.
- d. With a tipping chassis tilt the machine slightly forward and step on the wheel frame until it locks.

4.2 Installing and changing accessories

Manual

- a. Unplug the machine.
- b. Tilt the machine back until the guide bar lies on the floor.
- c. Install the accessory with a slight left-hand movement to the fixing device.
- d. To remove it turn the same jerkily to the right.

by machine

- a. Connect the main cable.
- b. Put the accessory on the floor in front of the machine.
- c. Tilt the guide bar into the convenient working position by pulling the lower lever on the right and lock it.
- d. Tilt the machine slightly back and move it over the accessory.
- e. With a tipping chassis push the pedal of the wheel frame to move it up.
- f. Switch on the machine shortly and the accessory locks in.

4 INSTRUCTIONS

4.3 Starting the machine

- a. Connect main cable.



WHEN PLUGGING THE MACHINE AND WORKING WITH THE SAME HOLD THE GUIDE BAR WITH BOTH HANDS FIRM AND SAFE AND NOT CLENCHED!

- b. By pulling the lower lever on the right tilt the guide bar back into the convenient working position and lock it. Release lever.
- c. Push the key button on the back of the switch box. Manipulate switch lever. (Security against unintended turn-on)
- d. Release key button, machine is turned on.
- e. Release of switch levers turns off machine.
- f. For switching on and working with the machine it is sufficient to manipulate one of the two switch levers.

4.4 Operation

- a. The grinding machines are self-runners, that is to say by slightly pushing or pulling the guide bar the machines move to the left or right.



movement to the left -> pushing guide bar slightly !
movement to the right -> pulling guide bar slightly !



TO AVOID CROSSING THE CABLE WHEN WORKING PUT THE SAME OVER THE SHOULDER !

4.5 Transport

- a. For transporting the machine tip the same slightly back and move the guide bar into the upright position.
- b. Then the machine can easily be tilted backwards and being transported without problems.

5 MAINTENANCE



Machines and appliances have to be kept dry and to be protected against frost and heat.



Motor and gear of the machines are maintenance-free, only the dirt residues under the motor cover have to be removed regularly thus guaranteeing a good cooling of the motor.



Machines and appliances may only be cleaned with a dry or with a gentle detergent slightly moistured cloth. No wet cleaning otherwise endangering the electrical safety.



When the suction efficiency is decreasing the cloth filter cartridge in the suction unit GK has to be cleaned. The filter cap has only to be batted. If necessary the filter plate beneath (fleece) has to be replaced.



When extremely soiled dust bag and motor filter may be washed in lukewarm water with gentle washing-powder. However both may only be fitted again after complete drying.



Maintenance inspection and repair work (including change of the main cable and carbon brushes of the motor) may only be carried out by authorized service centers or qualified trained personnel.



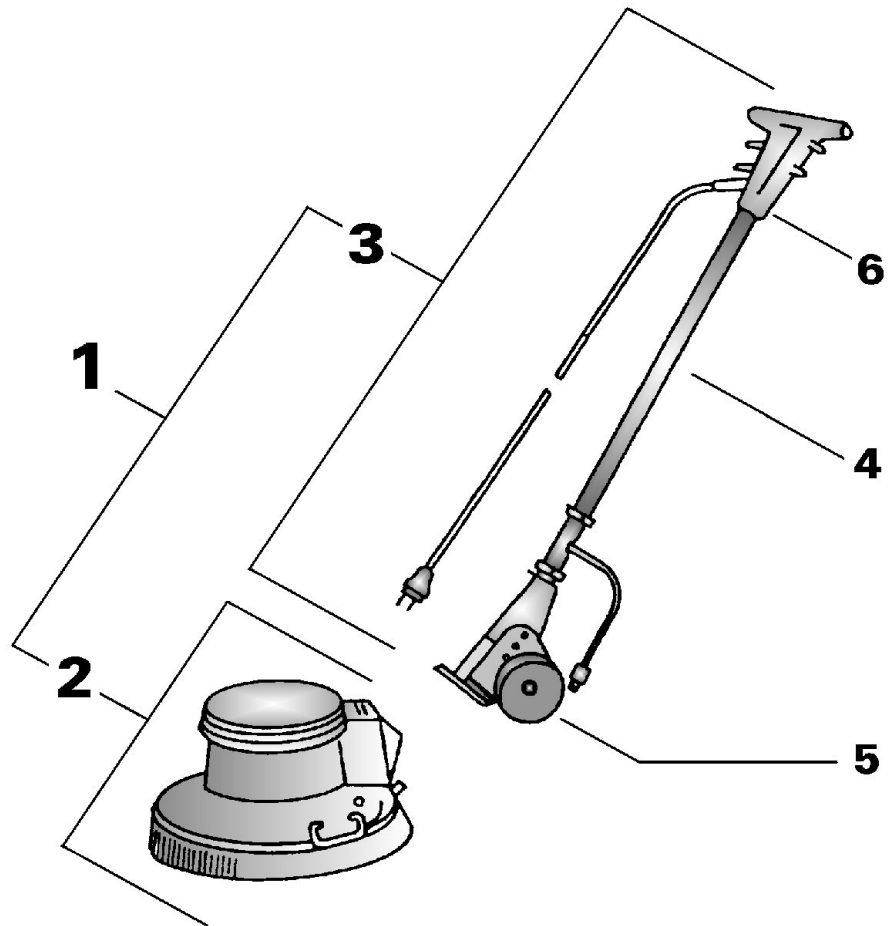
After approximately 600 working hours the carbon brushes of the motor have to be replaced.



When using extension cords or replacing main cables it has to be taken care that the same comply with our specifications PVC sheated cables H05W-F in accordance with DIN 57281/VDE 0281. The plugs have to be # of rubber or PVC and the outlet direction of the cable has to correspond with the direction of the plug pins. When changing the main cable the under chapter 4 stated relevant safety regulations have to be kept to.

6 SPARE PARTS

4.3 Subassembly Survey



MODELS	135S	145SH	155S
1 grinding machine complete	112 455 000	112 560 000	112 750 000
2 machine body	112 455 001	112 560 001	112 750 001
3 guide bar complete	112 750 100	112 750 100	112 750 100
4 guide tube complete	112 750 150	112 750 150	112 750 150
5 frame with wheels co.	112 750 160	112 750 160	112 750 160
6 switch box complete	112 750 110	112 750 110	112 750 110

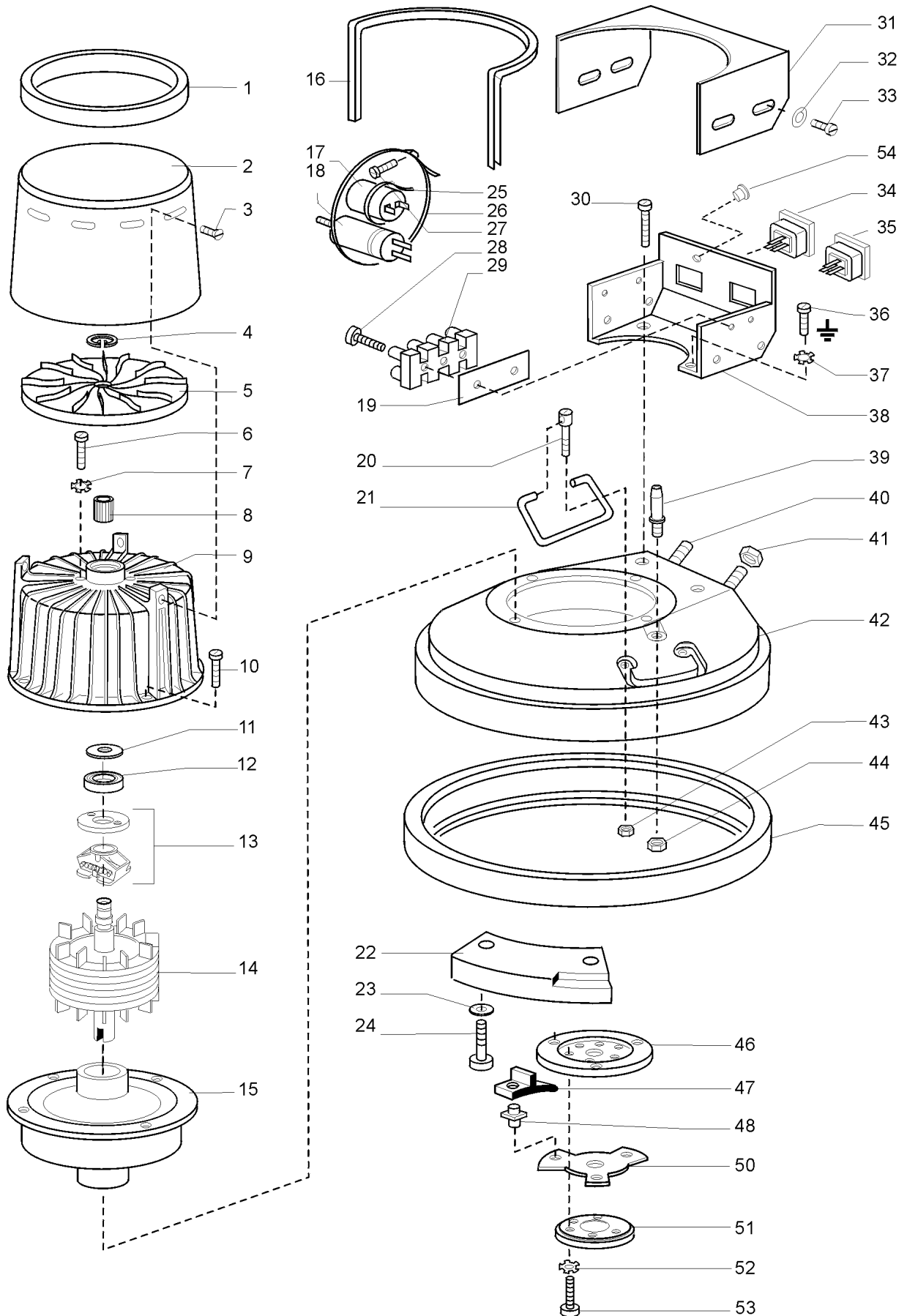
Columbus Model 145 SH

230 Volt - 112 560 000
120 Volt - 112 560 600



2 Machine body

230 Volt - 112 560 001
120 Volt - 112 560 601



Columbus

Model 145 SH

230 Volt - 112 560 000
120 Volt - 112 560 600



2 Machine body

230 Volt - 112 560 001
120 Volt - 112 560 601

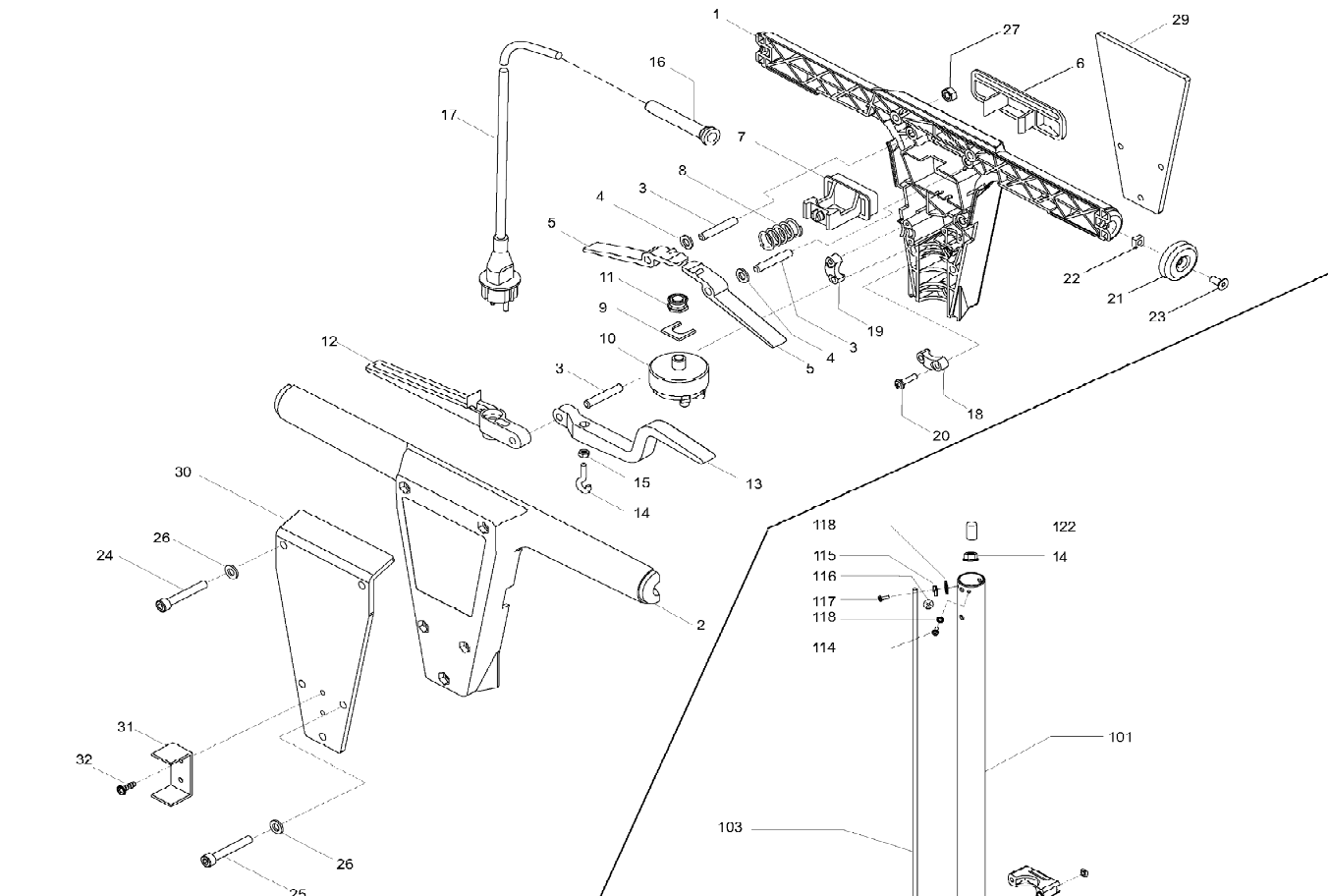
Pos	Order-No	Description	Pcs
1	112 400 001	Safety ring	1
2	112 560 004	Safety cover, silver	1
3	006 805 010	Screw M5x10	3
4	017 000 101	Safety ring I 10x1	1
5	112 550 151	Cooling fan	1
6	000 304 016	Screw M4x16	2
7	017 410 004	Lock washer J4,3	2
8	112 550 062	Ring BN12x12	1
9		Motor housing with stator	1
	112 560 060	230V/50Hz	
	112 560 660	120V/60Hz	
10	000 305 035	Screw M5x35	4
11	112 400 140	Washer	1
12	050 204 008	Bearing 6001 2RS	1
13	112 700 008	Centrifugal switch	1
14	112 550 061	Rotor	1
15	112 560 050	Planetary gear 3PL	1
16	112 750 017	Gasket	1
17		Capacitor	1
	112 700 020	230V/50Hz - 30 μ F	
	112 500 607	120V/60Hz - 100 μ F	
18		Starting condenser	1
	112 500 030	230V/50Hz - 120 μ F	
	112 500 700	120V/60Hz - 500 μ F	
19	112 750 016	Terminal isolation	1
20	112 400 065	Bolt for handle	2
21	112 400 064	Carrying handle	2
22	112 400 133	Counterweight	1
23	014 600 061	Washer A 6,4	2
24	004 006 025	Screw M6x25	2
25	112 700 013	Cable strip	1
26	112 750 022	Strip	1
27	006 804 008	Screw M4x8	1
28	006 803 016	Screw M3x16	2
29	112 500 013	Terminal 4-pol	1
30	006 805 010	Screw CM5x10	2
31	112 750 005	Switch box, upper part, blue	1
32	014 600 041	Washer A 4,3	4
33	006 804 008	Screw M4x8	4
34	112 550 004	Socket 10A	1
35	112 550 012	Plug	1
36	006 804 006	Screw M4x6	1
37	017 410 004	Lock washer J4,3	1
38	112 750 006	Switch box, lower part, blue	1
39	112 400 067	Hose sleeve	1
40	004 608 050	Screw M8x50	2
41	013 700 008	Hex. nut M8	2
42	112 400 056	Housing	1
43	012 300 006	Hex. nut M6 STOPP	4
44	112 400 068	Hex. nut M12x1	1
45	112 400 030	Bumper	1
46	112 400 046	Intermediate ring	1
47	112 300 021	Rubber piece	3
48	112 400 069	Catch bolt	3
50	112 200 014	Segment ring	1
51	112 300 022	Centring ring	1
52	017 410 006	Lock washer J6,4	3
53	006 706 020	Screw M6x20	3
54	112 500 011	Closure	1

MOD. 135SH 145SH 155S

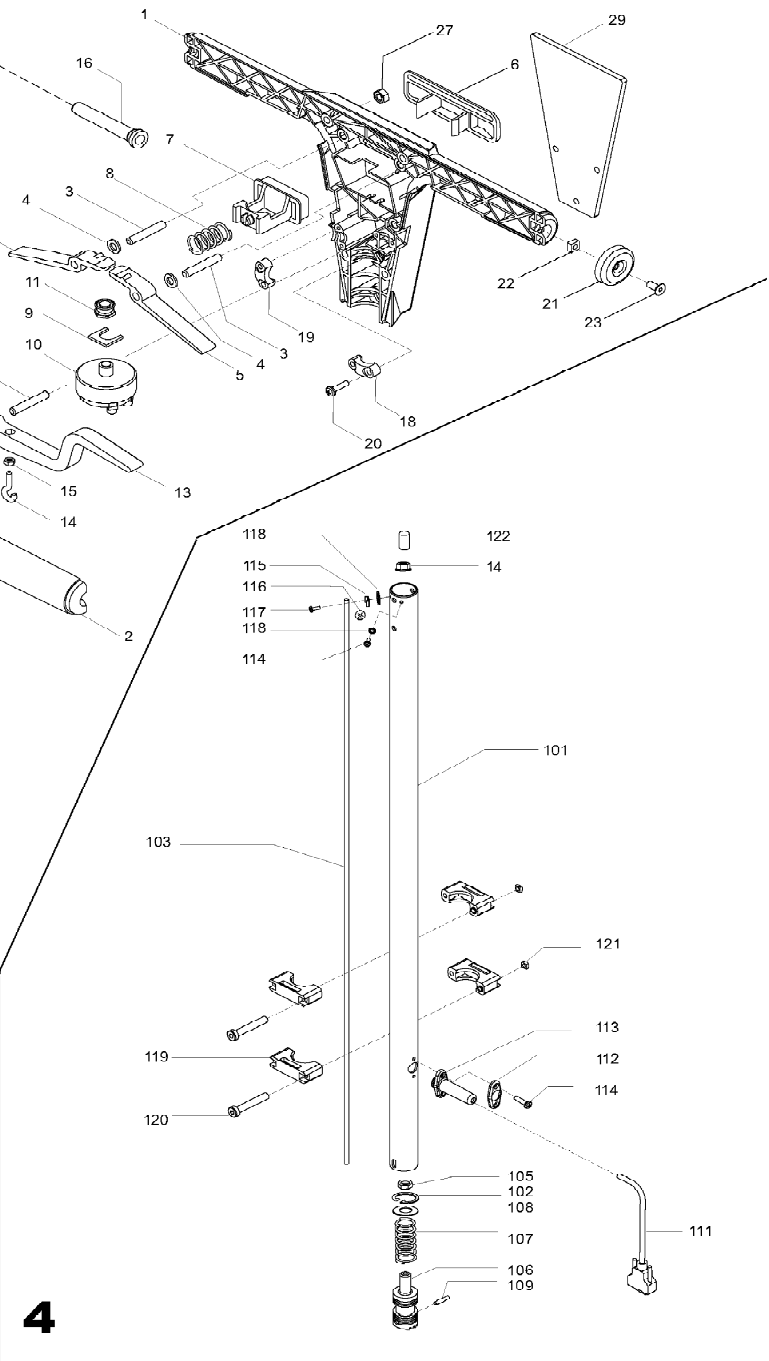
Art.-Nr. 112 455 000 112 560 000 112 750 000
 up Manr 104284 104880 12316



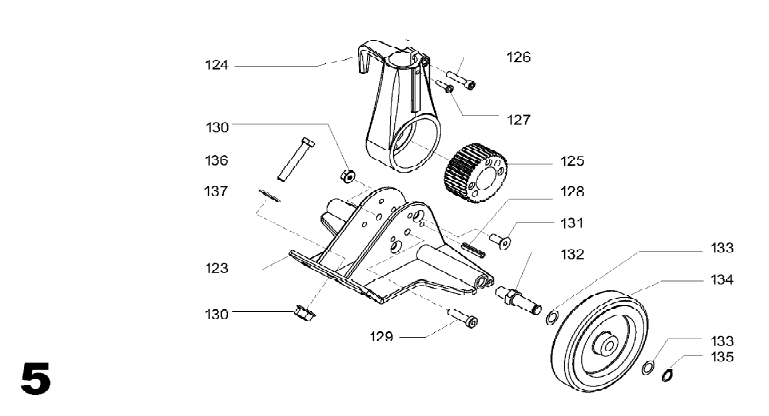
3 Handle with support compl. 112 750 100



6



4



5

MOD. 135SH 145SH 155SArt.-Nr. 112 455 000 112 560 000 112 750 000
up Manr 104284 104880 12316**3 Handle with support compl.****112 750 100**

Pos	Order-No	Description	pcs
001	112750111	handle lower, blue	1
002	112750112	handle upper, blue	1
003	020106036	parallel pin 6m6x36	3
004	014600061	washer A 6,4	2
005	112750113	connection lever	2
006	112750114	pression plate, blue	1
007	112750115	push button, blue	1
008	112400121	tension spring	1
009	112750116	fixing	1
010	112750117	switch	1
011	112400120	rubber cap	1
012	112750118	position lever	1
013	112750119	water lever	1
014	002304015	lifting eye bolt M4x15	1
015	011700004	hexagon nut M 4	1
016	112400057	Cable sleeve	1
017	112400038	Cable with plug	1
018	112400148	clamp, big	1
019	112700032	clamp, small	1
020	006405005	round-head tapping screw M 4,2*16	4
021	112750120	cover lid	2
022	010800005	square nut M 5	2
023	005505012	countersunk-head screw M5*12	2
024	006706070	cylinder-head screw M6*70	3
025	006706055	cylinder-head screw M6*55	3
026	112400008	electrical safety ring	6
027	011500006	hexagon nut M 6	6
029	112750121	tin plate, lower	1
030	112750122	tin plate, upper	1
031	112750123	tool holder	1
032	008412305	special screw EJOT Kb 30*6	2
101	112750151	tube	1
102	017000261	retaining ring D=26*1,2	1
103	112400101	tension bar	1
104	012300005	hexagon nut, self locking	1
105	011500005	hexagon nut M 5	1
106	112700028	catch	1
107	112200018	tension spring	1
108	112400104	washer 15x25x1 (F)	1
109	022004020	spring type pin D= 4*20	1
110	004006025	cylinder-head screw M6*25	1
111	112700124	Connection with plug (F)	1
112	112200039	flange	1
113	112400058	cable sleeve with flange	1
114	006804010	raised-head screw M4*10	6
115	112400108	gripping bow	1
116	112700029	earth sign	1
117	006804010	raised-head screw M4*10	2
118	017410004	antiturn washer J 4,	1
119	112400040	tank holder	4
120	004005045	cylinder-head screw M5*45	4
121	010800005	square nut M 5	6
122	112750152	silicone tube L=15 mm	1

MOD. 135SH 145SH 155SArt.-Nr. 112 455 000 112 560 000 112 750 000
up Manr 104284 104880 12316**3 Handle with support compl.****112 750 100**

Pos	Order-No	Description	pcs
123	112750153	support	1
124	112750161	catch	1
125	112400091	gearwheel	1
126	004006030	cylinder-head screw M6*30	1
127	008111609	special screw M5x12	1
128	022006036	Clamp sleeve D = 6*36	3
129	006708055	cylinder-head screw M8*55	1
130	013700008	hexagon nut M 8	2
131	007208025	countersunk-head screw	2
132	112400088	bolt for roller wheel	2
133	015501204	shim ring 12*18*0,5	4
134	112700105	wheel D=125mm for Columbus	2
135	016900121	retaining ring D=12*1,0	2
136	004008025	cylinder-head screw M8*25	2
137	017410008	antiturn washer J 8,	2

subassembly survey

4	112 750 150	guide tube complete	1
5	112 750 160	wheel attachment complete	1
6	112 750 110	switch box complete	1

EC DECLARATION OF CONFORMITY

73/23CEE, 89/392/CEE, 91/368/CEE
89/336/CEE, 92/31/CEE, 93/44/CEE
93/68/CEE

We

Janser GmbH
Maschinen- und Gerätebau
Böblinger Straße 91
71139 Ehningen
GERMANY

declare under our responsibility that the product

**Grinding Maschine COLUMBUS
MOD 135 / 145 / 155**

to which this declaration relates is in conformity with the following standards or other normative document(s):

Safety of machinery
Basic concepts, general principles for design
Basic terminology, methodology EN 292 Part 1. September 1991

Basic concepts, general principles for design -
Technical principles and specification EN 292 Part 2. September 1991

Electrical equipment of machines -
Part 1 : General requirements EN 60204-1 - October 1992

Safety of household and electrical appliances -
General requirements
EN 60335-1 - June 1988 + Modification 2, 5, 6, A51, A52, A53, A54, A55

Limits and methods of measurements of radio disturbance characteristics of electrical motor-operated and thermal appliances for households and similar purposes, electric tools and similar electric apparatus
- EN 55014 - Edit. 1987 + modification A2 (1990)

General emission standard -
Residential, commercial and light industry EN 50082-1 Edit. 1992
