

Users guide

Ceetec[®] A-250

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1. Introduction

1.1 Introduction

The Ceetec Automatic A250 (type 901) is built to treat wood with water and oil based wood protection products. It is suitable for rough, planed and shaped wood. Key factors of the Ceetec A250 250x100 (type 901) are ease and safety of operation and maintenance.

The lids are hinged and the machine stops when a lid is opened. When the side panel, housing the controls and lower protection caps are removed, it is easy to access the transmissions.

The machine is on rubber wheels making it easy to move around.

Optional extras include a roller conveyor, 100L liquid container and short piece guide for short items. Item numbers in brackets, in the following, refer either to accompanying pictures or to pictures located on the final pages of this manual.

2. Safety Instructions

Important:

The following safety instructions must be adhered to for reasons of personal safety.

All users must be familiar with these user instructions. Read thoroughly before use to know the machine functions entirely.

BEFORE the machine is used, the safety guard delivered with the machine must be mounted in the inlet. See pictures. Affix the safety guard with the bolts supplied. Failure to mount the safety guard or the removal during operation may result in personal injury.



Mount the safety guard in the inlet.

2.1 Use of machine

The machine is only to be used for treating wood with water and oil based wood protection products. The machine is not intended as washing- or cleaning machine, using chemicals for degreasing, removal of paint etc.

Do not use the machine with particular dangerous, unhealthy or flammable liquids.

Do always comply with the instructions given in the supplier directions of the used substances.

Misuse may lead to strangling, unconsciousness, brain damage, fire or explosion followed by combustion etc.

The machine is not constructed to be used in ATEX zone classified areas, and must **NOT** be used in zone classified surroundings.

2.2 Clothing

Avoid loose fitting clothing and loose, dangling hair when operating the machine.

2.3 Personal protective equipment

Use rubber gloves and eye protection when adjusting and cleaning the machine.

The operator that receives treated items from the machine must wear rubber gloves.

Choice of protective equipment should follow the recommendations from the supplier directions of the used paint.

The noise level of the machine during normal use is not over 70 dB. Therefore earplugs are not required during normal use.

2.4 Fluids:

The following fluids are suitable for use with this machine:

The used fluids – paints or cleaning products – must have a flash point at min. 10° C. above the surrounding temperature. Do not use liquids with a flash point lower than 40° C due to the risk of fire.

Attention:

Use eye protectors and gloves when operating the machine. In accidents the operator is to act according to the supplier directions of the used paint.

It is therefore important that this product information is available and is known and scrutinized.

2.4.1 Water based wood protection:

E.g.: Tintex Tinova VX, Ready V40, produced by Akzo Nobel. Gori 11, Gori 356, Gori 410, Gori 411, Gori 413, Gori 417, Gori 892, Gori 894 all produced by Dyrup A/S.

2.4.2 Oil based paint

E.g.: Gori 22 wood primer, Gori 44 wood protection, Gori 88 semi-/full coverage wood protection, Gori wood oil, Gori outdoor wood treatment, Gori 400, Gori 541, all produced by Dyrup A/S.

Fluids with a flash point lower than 40° C may not be used due to the risk of fire.

2.5 Room temperature

When using oil based products, room temperature must not exceed 29° C, and it must stay minimum 10° C below the flashpoint of the used fluids/paints due to the risk of fire.

Note: Oil based products do not bind optimally when applied at a room temperature exceeding 25° C.

2.6 Ventilation

The machine should only be used in well-ventilated rooms or outdoors if convenient. Moreover attention about ventilation should be paid to the supplier recommendations of the used paints/fluids.

Treated items should be placed for drying in a ventilated place to avoid any obnoxious effects from the solvents.

2.7 Risks during use

Keep hands, etc., away from the machine inlet when the machine is running to avoid the risk of crushing.

2.8 Moving the machine

The machine can be moved around on the mounted rubber-wheels or by fork-lift. Before moving the machine it must be checked that all fluids are drained off.

When moving by fork lift: Be aware that the fork lift lifts under the contrived lifting marks.



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When moving manually: Be aware that all needless gear has been taken out of the machine, and the machine is in god balance. Never try moving the machine manually on hilly ground.

3. Technical data

Type:	901
Dimensions:	Height: 1.090 mm Length: 2.130 mm Width: 800 mm
Product number:	9010-20000
Motors, power connection Wattage, forward drive: Wattage, brushes: Wattage, Mono pumps:	3x380 V + J - IP classification: 54 0.55 kW 0.55kW 0.37 kW Revs.400
Forward drive speed:	approx. 16-42 m/min
Pumps:	approx. 20-25 L/min
Weight:	approx. 300 kg
Max. item dimensions:	Breadth: 250 mm x Height: 100 mm
Min. item length:	800 mm

4. Preparing the machine for use

Place the machine on a flat, firm surface. Lower the four support Legs so that the machine stands stable.

The control panel is placed under the machine during transportation to protect it from impact. The control panel is mounted on the side of the machine using 4 screws.

The machine must NOT be used before the safety tunnels are mounted. The safety tunnels are placed under the machine during transport to protect them. Mount the tunnels at each end of the machine, using 4 screws on each tunnel.



Mount the safety guard in the inlet.

Screw the adapter for the filter bag (item 519) onto the outlet pipe and hang the filter bag (item 517) on it. Put the bucket with paint/fluid underneath the filter bag. Remember to stir the fluid. Place the suction and excess pressure hose (items 587 and 585) in the bucket.

Connect the machine to the power source as prescribed.

The machine is attached to the power station following the local regulations. If it turns out to be necessary changing the plug, the directions from the supplier must be followed. This job is only to be done by a competent electrical specialist.

Emergency stop

Normally the machine is operated by a person on each end. The machine can be stopped by activating the emergency stops, which are placed by the operator on both ends.

When an emergency stop is activated the forward drive is stopped. The pump continues pumping.

After activating the emergency stop, the machine can only be restarted by unlocking the emergency stop and activating the start button again. NB: Before starting the machine again be sure that the incident has come to an end, and that the reason for activating the emergency stop is known.

Stop

During normal use the machine is stopped by the buttons "Pump" and "Forward drive" put in stop position.

When the machine is stopped in order to be moved, repaired e.g. the main switch on the control panel must be turned to position "0". (Power is off.)

5. Adjusting the machine

The main switch on the control panel must be in position "O". (The machine is disconnected from all power.)

NB: Use rubber gloves and goggles during the process. Check product information from the supplier of the used paint for further requirements regarding protection equipment.

1. The lid on the machine is opened

Make sure it is in locked position.

Set the feeder guide, guide, nozzles, back pressure roller and brushes to the outer position. Feed the item into the machine.

2. Feeder guide and the guide in the middle of the machine

The feeder guides (item L) guides the item sideways and the roller in front of the machine guides the item horizontally. Adjust the guides by loosening the wing screws and moving them towards the item. There must be a 2-3 mm gap on both sides.

3. Guides and back pressure roller

The guides (item M) guide the item sideways through the machine. Adjust the guides by loosening the wing screws and moving them toward the item. There must be a 2-3 mm gap on both sides.

The back pressure rollers (item 594) prevent the lower horizontal brushes lifting thin items (up to 20 mm) up. Adjust the rollers by loosening the wing screws and moving them towards the item. There must be a 2-3 mm gap between the item and the rollers.

Set the brush covers at 10-12 mm from the item.

4. Nozzles

Place the nozzles (item 645) approx. 50 mm from the item.

5. Brushes and screens/shields

Rotating brushes apply fluids evenly and brush off excess fluid.

The brushes are identical and made from hard-wearing nylon.

The brushes are mounted and removed by screwing off a single star handle.

The brushes can be set tightly or loosely against the item, depending on treatment and the shape of the item.

Adjust the horizontal brushes by putting the lever (item 595) into the square pipe on the brushes module.

Adjust the vertical brushes by putting the square pipe, and the lever (item 595) as handle, over the square pipe on the brushes module.



The screens stop spray coming from the brushes and dripping from the finished surface. They must therefore always be in place before starting the machine.

Adjust the screens so that there is approx. 10 mm gap between the item and the front edge.

6. Forward drive

The forward drive propels the item through the machine. Adjust the back pressure roller (item 450) by turning the spindle (item 455) using the handle placed at the front by the nozzle valves (item 455)

Turning clockwise: the back pressure roller is moved upwards

Turning anti-clockwise: the back pressure roller is moved downwards

Bring the back pressure roller into contact with the item and tighten up approx. 1 turn, depending on how hard the item is.

7. Test run and flow rate

1) Pull the item out.

Check that the bucket containing wood protection is underneath the outlet pipe, and that the suction and excess pressure hose are placed in the bucket. Close the lid on forward drive and brushes.

Position the main switch on the control panel to "I" (power is connected). Activate the button "PUMPS" and the pumps will begin to pump. Spraying may occur

Ensure that all valves are closed. Adjust the nozzles to the desired position. Adjust the fluid amount using the nozzle valves.

Always open the upper nozzle first. The machine can treat 1-2-3 or 4 sides of the item at the same time. Only open fluid nozzles for those sides that are to be treated. Opening the vertical nozzles is only necessary if the item is more than 20mm high or if there is a groove or similar that needs treating.

2) Activate the "FORWARD DRIVE" button and adjust the forward drive to the desired speed with the adjusting knob.

3) Activate the "BRUSHES" button and adjust the speed of the brushes to the desired brush speed with the adjusting knob.

Feed the item into the inlet and check that the forward drive is running evenly.

If forward drive is not running evenly, adjust the back pressure roller.

The item can stop moving if it hits the feeder guide, guide, nozzles or brushes. In that case they should be re-adjusted.

The flow rate and brushes are continuously variable and are adjusted with the adjusting knob on the power box.

Turning clockwise: Slower speed

Turning anti-clockwise: Faster speed

Test drive with a new item

Operation is hereafter normal, but should be continuously checked.

8. Opening the lid

NOTE THAT THE PUMPS CAN BE ACTIVATED EVEN WHEN THE LID IS OPEN.

Attention: The lid on the forward drive and brushes is hinged and can be opened. The lid is connected to a switch which stops the forward drive, if the lid is open. The pump however, is not connected to this switch and will therefore not stop when the lid is opened.

To start the forward drive the lid must be closed. If the lid is opened while the machine is activated the forward drive stops immediately. To restart the machine the lid must be closed and a new start command must be given on the start button.

6. Cleaning

6.1 After use of water based products

After daily use or when changing colour, it is **important** that the machine is thoroughly cleaned.

Due to safety it is important that signs and handles are kept clean and free of paint.

NB: Rubber gloves and eye protection must be used during the cleaning of the machine. Please follow the directions from the supplier of the cleaning products.

All loose parts

Wash down the brush screens, brushes, carrying rollers, shade and guide with water, preferably hot water.

More thorough cleaning of loose parts *before* re-using or when changing colour

First clean the loose parts are described above.

Soak the parts in a mixture of 50% cleaning solution and 50% water. The brushes, and the brushes alone, can be kept in 100% cleaning solution. (Gori's cleaning solution no. 90910-00400 can, for example, be used).

It is important that the brushes are always stacked on "hub" of the brush to prevent the hairs being bent out of shape.

Rinse the parts thoroughly in water before re-use.

The machine

Take the suction pipe out of the bucket of wood protection.

Start the pump. Open the nozzle valves (remember to always open the upper nozzles first). Remove the end plugs from the nozzles and the last of the fluid will be pumped into the machine and return to the bucket. Close the nozzle valves after approx. 2 min.

The nozzle system is empty when air is pushed out of the excess pressure valve (seen as air bubbles in the bucket).

Remount the end plugs onto the nozzle tubes. Replace the bucket with one bucket of 10 l. (approximately 2,5 gal.) of clean water and one empty bucket. Place the suction tube into the bucket of water and the excess pressure hose into the empty bucket underneath the drain.

Start the pump and open the nozzle valves (remember to always open the upper nozzles first).

Close the nozzle valves when clean water starts coming out of the nozzles.

Rinse the machine with clean water and a brush, if necessary.

Finally, clean the filter bag, suction filter and excess pressure valve.

More thorough cleaning of the machine before reuse or when changing colour

First clean the machine as described above.

Replace the buckets with a bucket of cleaning solution. Place the suction and excess pressure hoses into the bucket. Start the pump. Wash down the machine with the built in washing hose and a brush, if necessary.

IMPORTANT: Wash the machine for 5-10 minutes so that the cleaning solution has time to work.

Repeat the treatment if necessary. The cleaning solution can be re-used several times.

Dry the exterior of the machine with a damp cloth – dampened with cleaning solution.

Empty the machine of cleaning solution and rinse through with water.

IMPORTANT: All traces of cleaning solution must be rinsed from the machine as cleaning solution dissolves varnish.

Finally clean the filter bag, suction filter and excess pressure valve.

6.2 After using oil based products

After daily use or when changing colour, it is important that the machine is thoroughly cleaned.

Due to safety it is important that signs and handles are kept clean and free of paint.

NB: Rubber gloves and eye protection must be used during the cleaning of the machine. Please follow the directions from the supplier of the cleaning products.

All loose parts

Remove and clean the brushes, back pressure roller and guide with, if necessary, cleaning solution (for example Gori's cleaning solution 90900-00200).

Where the same colour is to be used the following day, soaking the brushes in cleaning solution is sufficient.

It is important that the brushes are always stacked on "hub" of the brush to prevent the hairs being bent out of shape.

The machine

Take the suction pipe out of the bucket of wood protection.

Start the pump. Open the nozzle valves (remember to always open the upper nozzles first). Remove the end plugs from the nozzles and the last of the fluid will be pumped into the machine and return to the bucket. Close the nozzle valves after approx. 2 min.

The nozzle system is empty when air is pushed out of the excess pressure valve (seen as air bubbles in the bucket).

Remount the end plugs onto the nozzle tubes. Replace the bucket with 1 bucket of cleaning solution.



Never use cellulose thinners, toluene or strong solvents as these can dissolve paint and synthetic parts

Place the suction tube into the bucket

Start the pump and open the nozzle valves (remember to always open the side nozzles first).

Close the nozzle valves when they are clean.

Rinse the machine with the inbuilt washing hose and a brush, if necessary.

Finally, clean the filter bag, suction filter and excess pressure valve.

Repeat the treatment if necessary.

The cleaning solution can be re-used several times. Remember to rinse with clean cleaning solution afterwards.

Dry the exterior of the machine with a damp cloth – dampened with cleaning solution.

Empty the machine of cleaning solution.

Finally clean the filter bag, suction filter and excess pressure valve.

Where water based products are to be used following cleaning, the machine must be rinsed through with water.

7. Maintenance

Switch the main switch to "0" and unplug before commencing maintenance work.

All adjustable mechanical parts are easily accessed by removing the side panel and/or the lower protective caps.

When the adjustments are done, assembling is done in reverse order. Do NOT start the machine before all safety guards are put back into place.

7.1 V-belts, belts and toothed belts

Tighten the v-belts and chains after approx. 14 days of use (excluding those in the brush arrangements).

All grease nipples on the side of the machine and the brush arrangements must be regularly greased with a grease gun.

The v-belts and toothed belts are supplied with tension rollers and must be checked at least once a year or after 1700 hours of operation.

7.2 Motor v-belt – intermediate shaft I (item 575)

Tighten by loosening the motor (item 563) and moving it.

7.3 Intermediate shaft I v-belt – vertical brushes (item 523)

Tighten by loosening the intermediate shaft I (item P) and moving it.

The motor belt – intermediate shaft I will then need tightening (item 575)

7.4 V-belts for vertical brushes (item 524)

Tighten by loosening the screw and moving the tension roller (item 540)

7.5 Forward drive toothed belt (item 526)

Loosen the screws on the motor plate and tighten until the belt is taut.

7.6 Chain to horizontal brushes (item 555)

Tighten by loosening the screw (pos R) and changing position of sprocket wheel (tem 559)

7.7 Resetting the brush arms

If the brush axle (item 510-513) has moved its setting or if the turn plate is leaking, it must be tightened. The turn plate is bolted with 3 self-locking nuts. These must be tightened. If the turn plate is still leaking after the executive of the above, replace the O-ring (item 591 or 592)

7.8 Belts in the brushes arrangement

Tighten by loosening the screws so that they are a little tight, permitting the bearing housing to be tightened with a screw clamp/plastic hammer.

7.9 Pumps (Item 720)

There are two types of electric pumps, (Mono) or Ceetec membrane pumps. The oil in the gear motor of each type of pump must be changed for the first time after 700 hours, and then after every 8000 hours.

8. Replacing spare parts

Switch the main switch to "0" and unplug before replacing any parts.

All replaceable parts can be easily accessed by removing the side panel, shield on the rear and/or the removing the lower protection cap.

When the adjustments are done, assembling is done in reverse order. Do NOT start the machine before all safety guards are put back into place.

Motor v-belt – intermediate shaft I (item 575)

Loosen the motor (item 563) and move it.

V-belt – vertical brushes (item 524)

Loosen the screw (item R), move the belt pulley (item 559) and remove the belt (item 555).

Tilt the v-belt out of the tension roller (item 541). They can now be removed.

V-belts for vertical brushes (item 524)

Tighten by loosening the screw and remove the tension roller (item 540)

Intermediate shaft I – vertical brushes (item 523)

first remove the v-belt for the vertical brushes (item 524) Loosen the rear bearing clock (item 0) and remove the v-belt.

Forward drive toothed belt (item 526)

Loosen the motor plate and remove the v-belt.

V-belt for speed-changer (pos.525)

First the chain for engine-countershaft I (pos.575) and the v-belt for feed (pos.526) are dismantled. Afterwards the speed-changer wheel is screwed down (the grip is turned anticlockwise). The stem is loosened from the adjustable arm (pos.440) and the screw on the adjustable arm is dismantled. After this the v-belt can be dismantled.

Replacement of the pumps diaphragms

The bottom threaded hose couplings are loosened.

The bolts (item D) are loosened.

The straps (item G) as well as the pump caps (pos.721) are dismantled.

The bolts (item E) are loosened and the diaphragms can now be replaced.

When dismantling its important to seal the screws (item E) (Teflon tape can be used) and to make sure that the diaphragms and caps are placed in the recess (the middle)

NB. A set of diaphragms consists of 2 black and 1 yellow diaphragms. The yellow diaphragm must be turned towards the pumps middle.

9. Trouble shooting

Fault	Possible cause	Action
A. Pumps/forward drive/brushes will not start	<p>The machine is not connected to the power source</p> <p>The main switch is turned off</p> <p>There has been a thermal cut-out</p>	<p>Connect the power</p> <p>Switch the main switch to position "I"</p> <p>Check the frequency converter in the electrics cabinet</p>
B. Forward drive roller and brushes are not rotating	<p>The power supply to the motor for the forward drive is interrupted</p> <p>The V-belts/toothed belts are too loose or damaged</p> <p>A belt is broken</p> <p>The forward drive roller, V-belt/pulley is not fastened to the axel</p>	<p>See "A"</p> <p>Tighten/replace the belt (-s)</p> <p>Replace the belts</p> <p>Fasten them to the axel</p>
C. No, or too little, liquid is coming out of the nozzles	<p>The power supply to the motor for the pumps is interrupted</p> <p>The nozzle valves are shut</p> <p>Grime in the suction filter</p> <p>The nozzles are blocked</p> <p>The springs in the excess pressure valve may be too loose</p>	<p>See "A"</p> <p>Open the nozzle valves</p> <p>Unscrew the filter strainer and clean. If necessary, blow clean pressurised air through it</p> <p>Remove and clean the flow nozzles and end plugs. Clean the nozzle hoses Check all the hoses for dirt Ensure that the hose couplings are tightened and sealed so that the pump does not suck in "false" air.</p> <p>Open all the nozzle valves Take the excess pressure valve out of the bucket. If lots of fluid comes out, the spring needs tightening (lengthening)</p>
D. The motor for the pumps cuts out	<p>The motor is overloaded because the excess pressure valve is blocked</p>	<p>Clean the excess pressure valve and hoses. When assembling the excess pressure valve, the grey gauge block must face in towards the valve. Wait approx. 10 minutes and then reset the pump motor.</p>
E. The motor for forward drive/brushes cuts out	<p>The motor is overloaded because the back pressure roller, brushes and/or guide is too tightly adjusted up to the item.</p>	<p>Adjust the setting. Wait approx. 10 minutes and then reset the forward drive motor.</p>

10. Spare parts lists

Number guide:

The last 3 numbers refer to the item numbers on the detail pictures placed in the back of this folder.

E.g. filter bag 600 (order number 9011-20517 = item 517)

Item no.	Piece	Description	Picture
9011-20440	1	Adjustable arm for the speed-changer	B
9011-20450	1	Back pressure roller with bearings/axle	A
9011-20451	1	Axle for the back pressure roller	
9011-20455	1	Screw spindle for back pressure roller	A
9011-20456	1	Spring + collar	A
9011-20465	1	Feed roller	A
9011-20470	1	Axle for feed roller with collar	A
9011-20471	1	Bearing housing for feed without bearings	A
9011-20489	1	Suction filter DN 50 for suction pipe	
9011-20510	1	Brush axle- top horizontal	A
9011-20511	1	Brush axle- bottom horizontal	A
9011-20512	1	Brush axle – vertical in front	A
9011-20513	1	Brush axle- vertical at the back	A
9011-20515	1	Leg	A
9011-20516	1	Filter bag 1000 um	
9011-20517	1	Filter bag 600 um (standard)	B
9011-20518	1	Filter bag 800 um	
9011-20519	1	Adapter head for filter	B
9011-20522	1	V-belt- horizontal brushes Z91	B
9011-20523	1	V-belt – countershaft I/vertical brushes Z42	C
9011-20524	1	V-belt-vertical brushes Z27	C
9011-20525	1	V-belt- speed-changer Roflex / Vari 22H0950 D9 403	B
9011-20526	1	V-belt- feed A37	B
9011-20527		1 set of v-belts = 8 pieces	
9011-20528	1	Speed-changer	B
9011-20533	1	V-belt pulley S56 double with 6 small holes	B
9011-20534	1	V-belt pulley S56 double with 3 small holes	B,C
9011-20535	1	V-belt pulley S56, single, countershaft I	C
9011-20536	1	V-belt pulley S56 double with ø20 hole	B
9011-20537	1	V-belt pulley A210 speed-changer contra disc	B
9011-20538	1	V-belt pulley A50 feed	B
9011-20539	1	V-belt A250 feed	B
9011-20540	1	Tightening roller S50 with bearings to v-belt-vertical brushes	C

Item no.	Piece	Description	Picture
9011-20541	1	Tightening roller for v-belt- horizontal brushes	B
9011-20542	1	Pressure control valve	B
9011-20543	1	Spring to pressure control valve	B
9011-20545	1	Curtain , rubber	A
9011-205456	1	Grip, feed/speed changer	A
9011-20457	1	Lock to split pin	A
9011-20548	1	Bolt M8x83 for sprocket wheel on engine	B
9011-20550	1	Ball bearing	D
9011-20551	1	Ball bearing	C
9011-20552	1	Ball bearing	B,C
9011-20553	1	Ball bearing	A,B
9011-20554	1	Ball bearing AS PP204, countershaft I	C
9011-20555	1	Chain to horizontal brushes	B
9011-20556	1	Chain connector	B
9011-20557	1	Sprocket wheel 20 T countershaft I	B
9011-20558	1	Sprocket wheel 20 T for horizontal brushes	B
9011-20559	1	Sprocket wheel 15 T with 2 bearings	B
9011-20560	1	Cogwheel with 3 small holes	B
9011-20561	1	Cogwheel with slot	B
9011-20562	1	Running wheel	B
9011-20563	1	Feeding engine	B
9011-20564	1	Pump engine	B
9011-20567	1	Module brush	A
9011-20575	1	Chain to engine / countershaft I	B
9011-20576a	1	Sprocket wheel 20 T on engine	B
9011-20577	1	Sprocket wheel 36 T on countershaft I	B
9011-20578		A complete set of hoses	
9011-20579		1 set of hoses	
9011-20580		1 set of nozzle ½" with collar bands	A
9011-20582	1	Flush hose ½" x 1150 mm with valves	A
9011-20585	1	Over-compression hose ¾" x 2080 mm without valve	B
9011-20587	1	Suction hose 1" x 2220 mm without filter	B
9011-20588	1	Pressure hose 1" x 410 mm with collar bands	B
9011-20590	1	Complete suction filter	B
9011-20591	1	Gasket for horizontal and vertical top brushes	A
9011-20592	1	Gasket for horizontal bottom brushes	A
9011-20593	1	Nozzle valve	A
9011-20594	1	Back pressure roller	A
9011-20595	1	Grip for setting of brushes	A



Item no.	Piece	Description	Picture
9011-20596	1	Lock not for turn plate	B
9011-20597	1	Spring for tightening roller for horizontal brushes	B
9011-20645	1	Nozzle 3 mm	A
9011-20660	1	Splashguard over the nozzles	A
9011-20662	1	Star knob 50-M10-15 GN 6336 4-st	
9011-20686	1	Smooth supporting roller for guide rail	
9011-20687	1	Supporting roller with discs guide rail	
9011-20720	1	Mechanical diaphragm pump	B, C
9011-20721	2	Pump cap with stop valve	D
9011-20722	2	Set of diaphragm	D
9011-20723	4	Stainless stop valve	D
9011-20724	1	Plunger	D
9011-20727	1	Ball bearing 6008 LU	D
9011-20728	1	Ball bearing 6200 LU	D
9011-20729	1	Eccentric with bearings for diaphragm pump pos I Ø24	
9011-20825	1	Supporting roller	A

11. Accessories

The following accessories are available for the Ceetec A-250

9011-20503	1	1 set carrying roller à 2m	
9011-20504	1	Carrying roller with smooth rollers (front)	
9011-20505	1	Carrying roller with pulley roller (rear)	

12. Production address

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