WESCO Navy

Quality at sea

Washing machine / Waschmaschine

WMA203E

Tel.: +49 40 600 094 680 E-Mail.: info@wesco-navy.de

Washing machine WMA203E

Total capacity.....12,75 KW

==========

Marine Execution

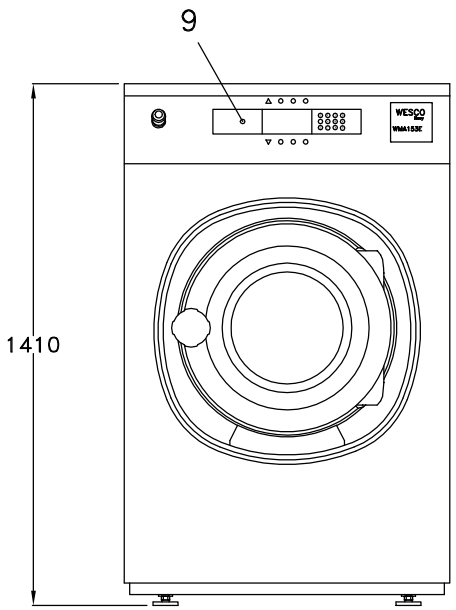
Heating	: 12 kW
Capacity	: 20 Kg (dry linen/charge)
Drum volume	: 200 Litres
Water consume	: 240 Litres (max.)
Extraction	: Up to 490 r.p.m.
Motor	: 0,75 kW
Noise level	: <65 db
Drain system	**: Gravidity Drain**

- Inner- and outer drum as well as top and front panel of stainless steel.
- Operating instructions on the front as international signs.
- Fully automatic operation with spin dryer.
- Solid A-frame construction, minimizing vibrations and maximizing stability.
- Fully electronic control.
- Big door opening.
- "Heavy Duty" industrial bearing house.
- Simple maintenance.
- Hoses for water inlet and drain delivered.
- **Installation:**
  Please follow our instructions very well.
  The foundation must be free of vibrations.

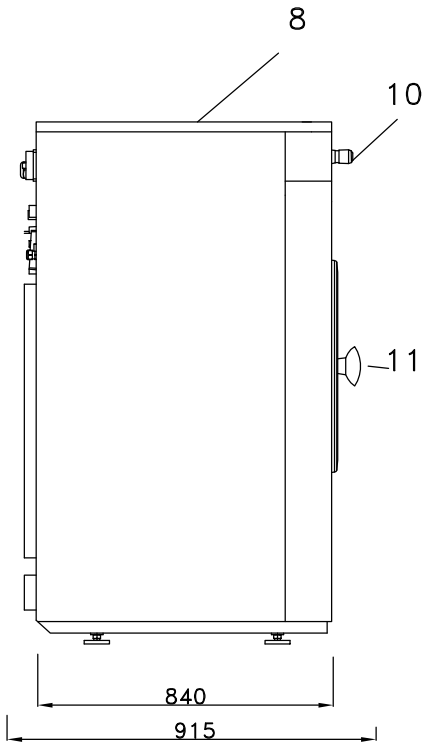
1 Electrical connection
2 Hot water
3 Cold water hard
5 Main switch
7 Drain
8 Soap dispenser
9 Control panel
10 Button CENTRALSTOP
11 Door opening
12 Fuses

Point 4 and 6 are not exisiting on this machine.

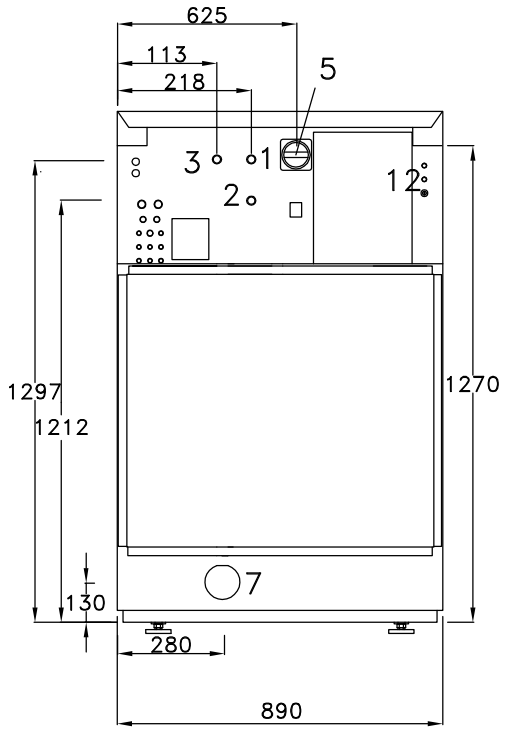
Front

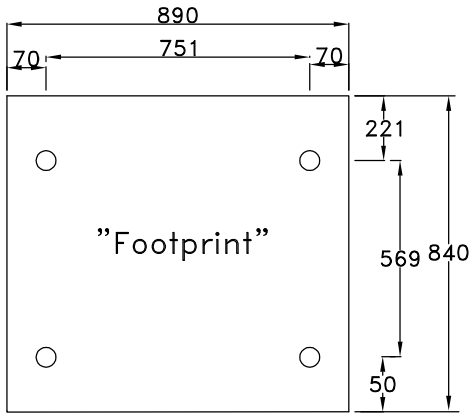


Side



Back





Front

Included in scope of supply:

- Drain pipe
- 2 water inlet hoses, each 150 cm long

PLOT OUT OF SCALE

ITEM:			DRAW.	AW	08.10.14
Washing machine / Waschmaschine WMA203E		THIS DRAWING REMAINS THE PROPERTY OF WESCO Navy	REV.	–	–

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WESCO Navy
Hamburg

Rigid-mount machines

Transportation and unpacking – rigid-mount machines

⚠ WARNING!
ALWAYS CONSULT THE STATIC REQUIREMENTS WITH A STATIC ENGINEER IN ORDER TO MEET THE REQUIREMENTS OF PERMISSIBLE LOADS, VIBRATIONS AND NOISE LEVEL IN THE BUILDING!
THE MANUFACTURER DOES NOT RECOMMEND INSTALLING THE WASHING MACHINE IN A ROOM WITH A CELLAR UNDERNEATH OR ON A FLOOR HAVING ROOMS UNDERNEATH.
IT IS OF UTMOST IMPORTANCE THAT THE MACHINE IS PLACED IN LEVEL, FROM SIDE TO SIDE AS WELL AS FRONT TO REAR. IF THE MACHINE IS NOT PROPERLY LEVELED, IT MAY RESULT IN OUT-OF-BALANCE WITHOUT A REAL OUT OF BALANCE IN THE DRUM.
NEVER INSTALL THE MACHINE ON SURFACE CONSISTING OF VINYL!

- The machine is delivered bolted onto the transport pallet and packed in a shrink-wrap foil or box.
  - Remove packing from the machine.
  - Remove front and rear panel. Remove the bolts between the machine and pallet.
  - When the machine is lifted off the pallet: Make sure that the machine does not come down on the floor with either of the rear corners first. The side panel of the machine can be damaged.
- Two self-adhesive rubber stop-blocks are supplied with the machine. They might be applied as paint protection when opening the door.

Siting – rigid-mount machines

- Install the machine close to a floor drain or open drain.
- In order to make installation and servicing the machine easier the following clearances are recommended, see figure 9.
  - At least 500 mm between the machine and the wall behind.
  - And min. 20 mm on both sides of the machine whether installed next to the wall or other machines.

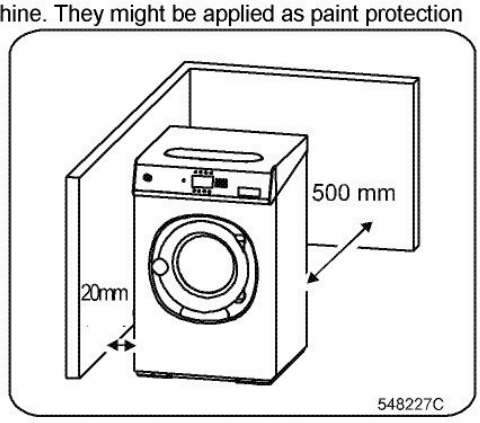

Figure 9 – Rigid-mount machines

Location of anchor bolts – rigid-mount machines

- Use spacing washers in order to install the machine in a level and stable manner in all its corners. See figure 16, 17.
- " " – drilling points for anchoring bolts, or chemical anchor bolts, ○ see figure 10, 11.

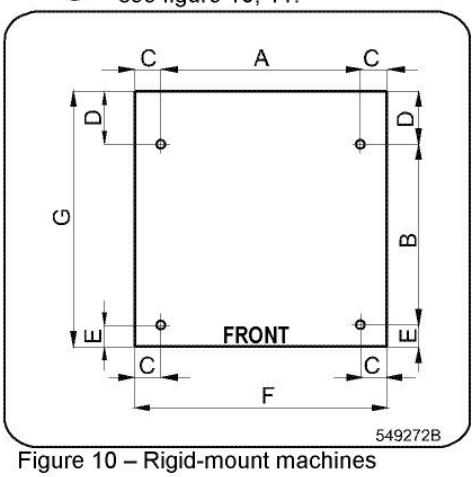

Figure 10 – Rigid-mount machines
7 - 8 - 10 - 12 - 15 - 20 - 25 - 30 kg

Capacities

WMA73 : 7 kg
WMA83 : 8 kg
WMA103 :10 kg
WMA123 :12 kg
WMA153 :15 kg
WMA203 :20 kg
WMA253 :25 kg
WAM303 :30 kg

Rigid-mount machines							
MACHINE	A	B	C	D	E	F	G
WMA73 WMA83	522	474	69	139	57.5	660	670.5
WMA103 WMA123	615	474	67.5	139	57.5	750	670.5
WMA153	615	574	67.5	154	57.5	750	785.5
WMA203	751	569	69.5	220,5	50	890	838.5
WMA253	751	714	69.5	220,5	50	890	984.5
WMA303	751	789	69.5	220.5	50	890	1059.5

Table 22 – Rigid-mount machines, (dimensions stated in mm)

Capacities

WMA73 : 7 kg
WMA83 : 8 kg
WMA103 :10 kg
WMA123 :12 kg
WMA153 :15 kg
WMA203 :20 kg
WMA253 :25 kg
WAM303 :30 kg

Providing elevated concrete pad – rigid-mount machines

- This method comes into consideration in case that the existing floor is thinner than 120mm / 4.72”or in case that the machine should be positioned above the existing floor level.
  The height of the elevated pad could be 150-200 mm / 5.9-7.87”, see figure 12.

Procedure:

- Break and remove the existing floor down to the depth of approx 75mm / 2.95", see figure 13. The longest dimensions of the lower part of the hole must be by 120 mm / 4.72" longer than the dimensions of the upper part of the hole.
  G and F dimensions - see table 22.

- Wet the complete hole and spread over with cement.

- In order to increase the load-bearing capacity and reduce the concrete deformations, we recommend inserting an armature into the base of the pad. In order to achieve adequate connection of the new pad with the existing floor, insert a reinforcing bar or reinforcing bars.
  - **NOTE:** When inserting the reinforcing elements, take into consideration the locations (and space requirements) for drilling holes which will be used for the chemical anchor bolts.

- Pour concrete into the prepared base. Level the surface carefully into a horizontal plane.

- Let the concrete harden for at least one week before installation of the machine.

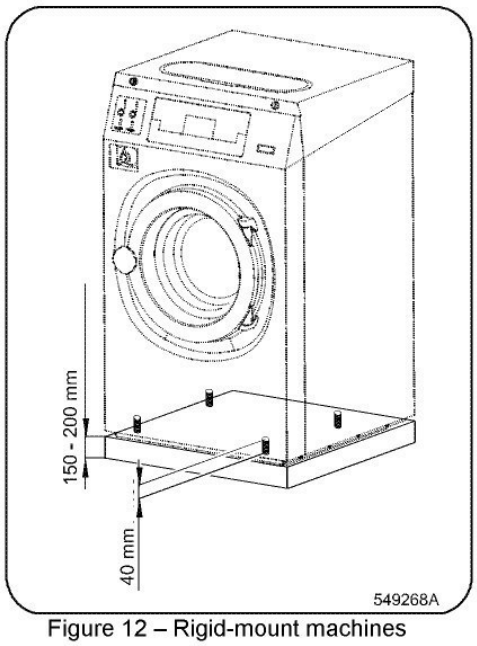

Figure 12 – Rigid-mount machines

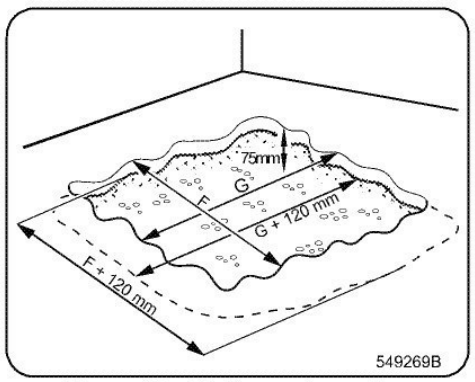

Figure 13 – Rigid-mount machines, G, F – see table 22

Installation

Installation on floor or steel base – rigid-mount machines

- The drum of rigid-mount machines is fixed to the frame. The floor and steel base (if used) underneath the machine **MUST** be stable enough to be able to absorb the dynamic loads which are created during the spinning sequence, see the values for each machine specified in table 1, 2.
  Therefore, M16 anchor bolts - pos.4 – see figure 14 and 15 and washers ø60 / ø16.5 x 6mm - pos.2 and M16 self locking nuts - pos.1 must be used so that the machine, the steel base (if used) and floor form one integral unit – see figures 14 and 15.

- The anchor bolts are not supplied with the machine. The washers and nuts are supplied with the machine. The torque is 100Nm.

- The existing concrete floor must be at least 120mm / 4.72" thick. Dimensions for anchoring – see figures 10, 11 and table 22.

- Check that the machine is installed in a level and stable manner in all its corners. If necessary, level it up by means of stainless or galvanised spacing washers, see figures 14, 15, 16, 17, pos.3 (washers are not supplied with the machine) inserted in between the machine frame and the floor – see figures 16, 17. The dimensions of the spacers must be the same as the dimension of the machine frame in the place where the anchor bolts are located – 80x80mm.
- Fit a washer and self locking nut on the anchor bolt and tighten it with a torque wrench to a torque of **100Nm**.
  It is advisable to recheck the torque after a short period of the machine operation.

- The bottom frame of the machine shall be used for the purpose of lifting the whole machine.
- Place the machine over the four drilled holes.
- Check that the machine is seated in a perfectly level manner.
- The anchoring of the machine or the steel base can be carried out by means of mechanical or chemical anchor bolts which must be able to form one integral unit with the floor (they are not supplied with the machine).

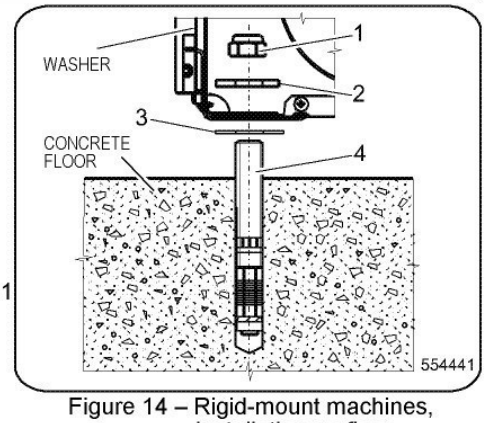

Figure 14 – Rigid-mount machines, Installation on floor

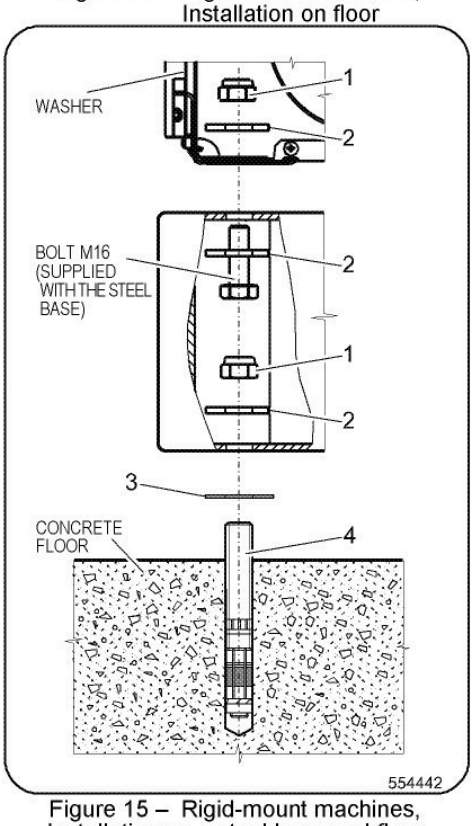

Figure 15 – Rigid-mount machines, Installation on a steel base and floor

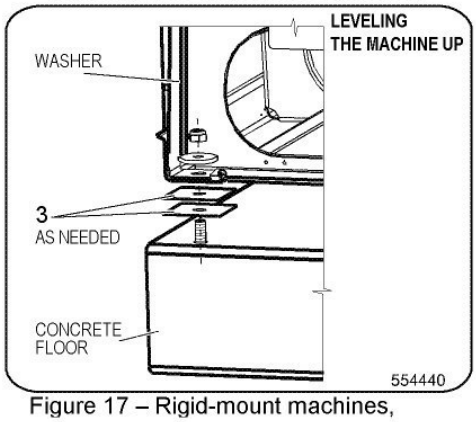

Figure 17 – Rigid-mount machines,
7 - 8 - 10 - 12 - 15 - 20 - 25 - 30 kg

Capacities

WMA73 : 7 kg
WMA83 : 8 kg
WMA103 :10 kg
WMA123 :12 kg
WMA153 :15 kg
WMA203 :20 kg
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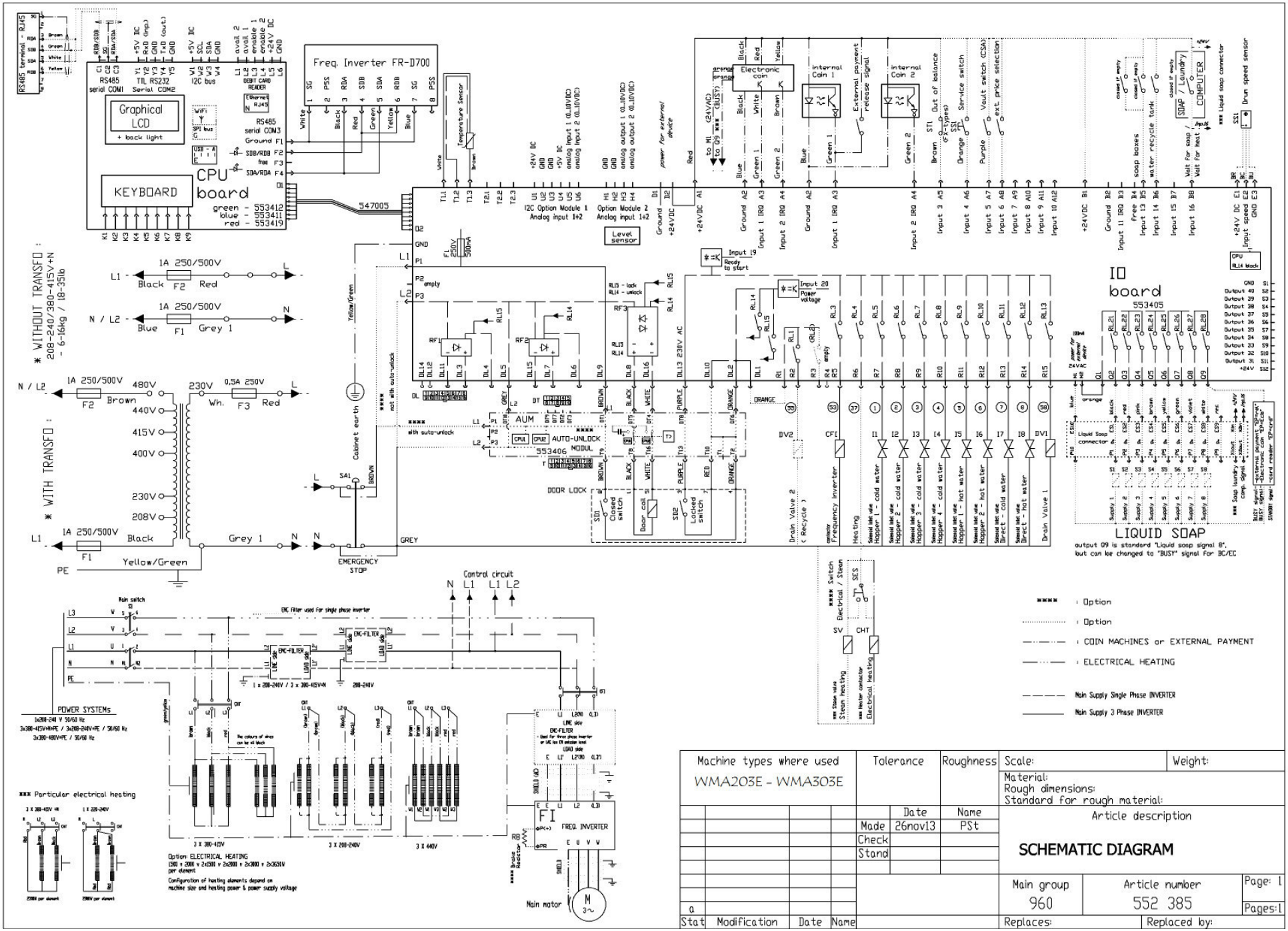
WAM303 :30 kg



Machine types where used	Tolerance	Roughness	Scale:	Weight:
WMA203E - WMA303E			Material: Rough dimensions: Standard for rough material:	

	Date	Name
Made	26nov13	PSt
Check		
Stand		

Article description

SCHEMATIC DIAGRAM

Main group	Article number	Page: 1
960	552 385	Pages:1

Stat	Modification	Date	Name	Replaces:	Replaced by:
a					

Instructions for installation on ships

CAUTION:
Be sure that the washing machines are installed on a level deck with sufficient strength.
The recommended clearances for inspection and maintenance must be provided.
Never allow the inspection and maintenance space to be blocked.

IPORTANT:
1.
The washing machines must be securely fastened on a flat metal base.

2.
The fixing has to be done on the 4 provided places on each washing machine.
Each corner has a prepared hole.
(See the seperate mounting bolt hole locations).

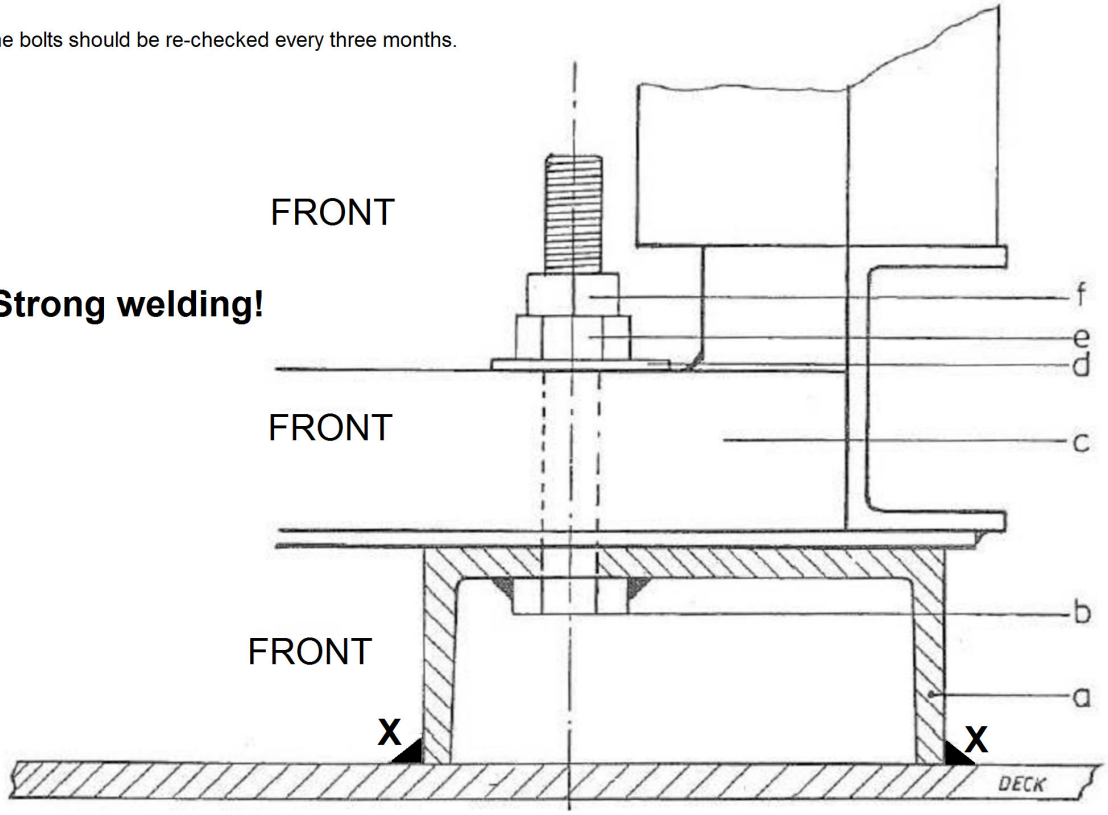
3.
The washing machines must be fastened on a strong metal base which is securely welded to ship's deck.

4.
The base must be free of vibrations when washing machines are extracting.

5.
Vibrations due to a weak metal base will damage the washing machines.

6.
Machine bolts should be re-checked every three months.

X: Strong welding!



	a. Foundation	b. Fastening	c. Machine	d. Washer	e. Nut	f. Counter Nut
WMA73E	3" U-iron	M12 x 60		40 x 17 x 4	M 12	M 12
WMA83E	3" U-iron	M12 x 60		40 x 17 x 4	M 12	M 12
WMA103E	3" U-iron	M16 x 60		40 x 17 x 4	M 16	M 16
WMA123E	4" U-iron	M16 x 60		40 x 17 x 4	M 16	M 16
WMA153E	4" U-iron	M16 x 60		40 x 17 x 4	M 16	M 16
WMA203E	4" U-iron	M16 x 60		40 x 17 x 4	M 16	M 16
WMA253E	5" U-iron	M16 x 60		40 x 17 x 4	M 16	M 16
WMA303E	5" U-iron	M24 x 60		40 x 17 x 4	M 24	M 24