

Model J250
Multi blade wood cutting machine

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MACHINE IDENTIFICATION

MANUFACTURER:

CML Srl

Viale delle Industrie, 28/B 1 - 20040 CAMBIAGO (MI)

Tel.: ##39 2 95 30 80 16 Fax: ##39 2 95 30 80 03

CE (standard marking)

DENOMINATION:

J250

SERIAL NUMBER:

101097

CERTIFICATE CE EXAM TYPE:

Nº 0476 13 060 12 96

ADMINISTRATIVE REPORT:

CERMET

Via Aldo Molo 22

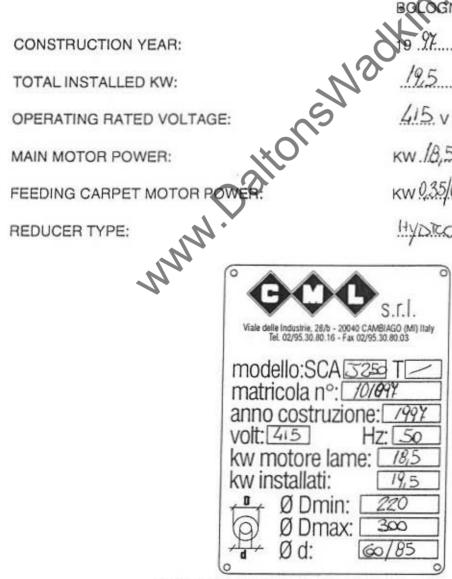
I - 40068 S. LAZZERO DI SAVENA

BOLOGNA

KW 18,5 TYPE UEH

KW 0.35/075TYPE UEH

Hyprohec



- technical and/or dimensional modifications without notice -

WARRANTY

The machine is covered by a six-month warranty, starting from the date of delivery. All parts that show defects in materials or in workmanship during this period will be repaired or replaced free of charge.

This warranty does not cover breakdowns due to transportation, or caused by electrical miswiring, breakage of blades, breakdowns due to operator's misusage or resulting from repairs performed by unauthorized personnel.

Forwarding charges of parts replaced during the warranty period are to be charged to the client.

TECHNICAL SPECIFICATIONS J250

Max cutting thickness	80mm
Distance between blades	220mm
Blades max diameter	300mm
Blades min diameter	220mm
Blade holder bore size	60mm
Blade shaft speed	3500rpm
Feeding carpet width	250mm
Working plank min length	500mm
Optional min length	280mm
Feeding carpet speed	12+24m/min
Plank max width	520mm
Work surface height from ground	750mm
Blades motor power	15, 18.5, kW
Feeding truck motor power	0,75kW
Suction mouth bore size	250mm
Dimensions	135x114x138cm
Weight	1120kg

Available on request:

- · blade position laser indicator
- · max passage boards width 620

Please contact our offices for availability, delivery terms, etc.

Phonometric survey

The phonometric survey was performed on a machine equipped with soundproofing materials in respect ISO 7960.

For survey data, see attached.

- Acoustic equivalent pondered pressure PA 95 db (A)
- .Instant sound power 100 db (A)
- · Ambient correction factor K 1,9 db

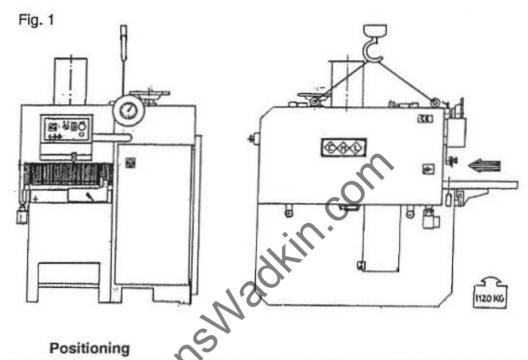
NOTE: the noise values shown must be regarded as edmission levels; therefore, they do not necessarily represent safe operating levels.

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INSTALLATION

Lifting

The machine body is provided with hooks that must be used for hoisting. Care must be taken to avoid bumps to the machine during this operation.



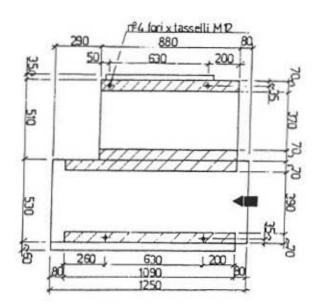
The machine must be positioned on a solid cement base, adequately levelled and capable of handling the weight.

Thus, proceed with the levelling of the machine by means of a precision level tool, layed on the working surface.

Clamping the machine is not necessary, as the weight of the machine itself is enough to hold the machine perfectly steady without clamping.

For a better working condition it's needer antivibration supports put between the concrete and the machines basement.

Fig. 2



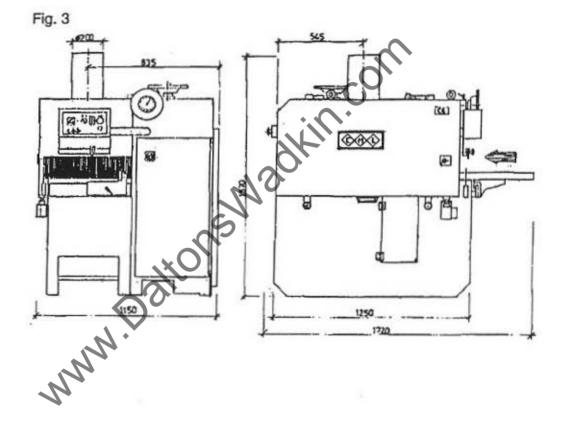
Vacuum system

The machine must be connected to an efficient suction system by means of the proper suction mouth (Ø200mm), respectively located on the front part of the machine.

The 200mm suction mouth must always be used during the normal operation of the machine.

The end of the tube which connects the suction aspirating mouth must be flexible about 1,5 Mt. to allow to open properly the blades head cover.

The required suction flow is of about 3400m3/hour, at a flow speed of 30m/s.



Electrical wiring

The electrical wiring should be done by professionals:

all the needed plans for electrical wiring are attached to the present manual.

Before connection to a power line make sure that the line voltage is the same for the motors equipped on the machine (see plate attached to the machine body).

R-S-T connecting terminals and the GND connecting terminal are located in the panel #8016 (see page 14).

The power supply wire must be properly fixed by hold fast for hooking the electrical sets, and protected by means of a strong wiring cable.

The electrical connection can be made by means of aerial or underground wires: in both cases make sure that the wires are properly fixed.

The body of the machine must be connected to the ground.

The wires section must be able to handle the installed power; see the following table:

Blades	380V-50Hz			220V-50Hz		
motor power (HP)	Blades motor current (A)	Motor supply wires section (mm²)	Autoswitch setting (A)	Blades motor current (A)	Motor supply wires section (mm²)	Autoswitch setting (A)
20	28.5	6x6+T	33	49.5	6x6	57
25	34	6x6+T	39	58.9	6x6	68

The ammeter shows the motor power consumption; the above table shows the maximum values according to the supply voltage and to the total installed power.

The consumption values should not be exceeded while the machine is working: in that case the feeding truck speed must be reduced.

After the electrical connection control that the rotation direction of all motors is correct, pressing: I rst the B button and after awaiting for 10 seconds turn the selector on position. A if the track runs in the direction shown on the sketch underneath the wiring it's been done corectly.

On the contrary, put the main swich on position O, cut off the electrical power of the line connected to the machine and change position of the power of the power supply wires.

Electrical wiring

The electrical wiring should be done by professionals:

all the needed plans for electrical wiring are attached to the present manual.

Before connection to a power line make sure that the line voltage is the same for the motors equipped on the machine (see plate attached to the machine body).

L1-L2-L3 connecting terminals and the GND connecting terminal PE are located in the panel #8016 (see page 14).

The power supply wire must be properly fixed by hold fast for hooking the electrical sets, and protected by means of a strong wiring cable.

The electrical connection can be made by means of aerial or underground wires: in both cases make sure that the wires are properly fixed.

The body of the machine must be connected to the ground.

The wires section must be able to handle the installed power; see the following table:

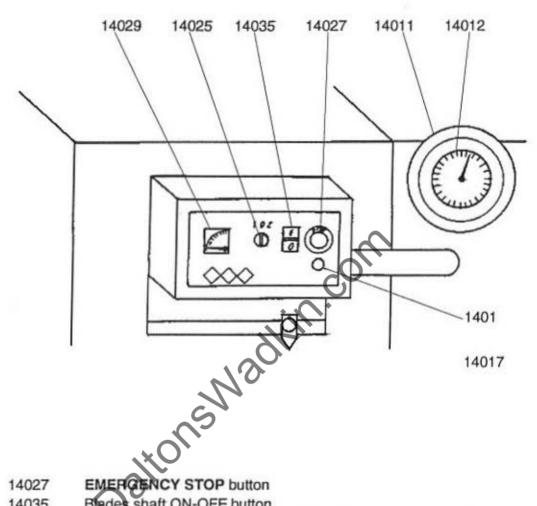
Blades		380V-50Hz		0	220V-50Hz	
motor power (Kw)	Blades motor current (A)	Motor supply wires section (mm²)	Autoswitch setting	Blades motor current (A)	Motor supply wires section (mm²)	Autoswitch setting (A)
15	28.5	6x6+T	33	49.5	6x6	57
18,5	34	6x6+T	39	58.9	6x6	68

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Control panel



14027	EMERGENCY STOP button
14035	EMERGENCY STOP button Blades shaft ON-OFF button

14025 Selector 1-0-2: feeding carpet START/STOP: the carpet will not start

if the blades shaft is stopped.

Position: 0 stop

1 feeding speed

2 fast feeding speed

14029	Ammeter
1401	Blades door timer blinking light indicator
14011	Hand-wheel for lowering-uppering group rollers pressure
14012	Pressing group height millimitered scale
14017	Index first sawblade

WARNING:

The machine will not start under one of the following conditions:

- EMERGENCY STOP button pressed
- · Blades access door or feeding carpet access door opened

INSTRUCTIONS

When the operations explained in the 'Installation' chapter have been made, the machine is ready for working.

Following are listed - in the right order - all the operations that must be made to operate the machine.

Select the needed blade diameter. The following table shows the maximum cutting thicknesses according to the blade diameter:

Blade diameter	Max cutting thickness with fixed blades	Device for short pieces
Ø220mm	40mm	
Ø250mm	55mm	30
Ø300mm	80mm	55

With the main switch set on the position 1 push the EMERGENCY STOP button and wait until the blades access door timer unlocks the blades access door itself (the blinking indicator shows that the door is unlocked).

- Open the blades access door No. 1407
- Make sure that the wood boards are locked in their places, and lined up with the
 pressing group. It is important that the wood boards are made according to the
 attached drawing (see attached; 'Wood boards'), and made of undeformable wood.
- Assemble the blades ass'y and its spacers only on the spindle, after having carefully cleaned the blades and spacer with a dry cloth.
- •When the blades ass y is assembled, lock the threaded locking ring 2 only by means of the specific tool supplied with the machine.
- According to the diameter of the mounted blades, lift the main shaft operating on the manual wheel 14031 (see page 14) to allow the assembly of the saw on its shaft.
 Warning never use hammers or similar tools to facilitate this operation, as it is supposed to be performed as gently as possible.

Furthermore, the shaft must be carefully cleaned using rags: avoid blowing them with compressed air that would raise dust that anyway falls back. When the saw have been positioned on the shaft, lock it by means of the special ring nut which has been previously cleaned.

Check, operating on the disposal #8005 by means of the 55mm wrench supplied with the machine, the correct functioning of the splinter proof security disposals, that - due to their own weight - should always fall perpendicularly to the feeding truck.

Furthermore, check that the splinter proofs located on the working surface can easily slide according to their function.

Close the blades access door No. 1407.

- Set the reference guide No. 14019 at the feeding side of the machine, operating on the handle No. 14022 and referring to the specific millimitered ruler.
- Re-press the EMERGENCY STOP button.
- Start blades rotation pressing the button No. 14035 (see attached 'Control panel').
- Set the pressing rollers height operating the hand wheel No. 14011 (see on the attached 'Control panel) according to the nominal thickness of the boards to be worked: the specific scale No. 14012 shows the height position of the rollers.

Should the short boards disposal be assembled in the machine, the height setting of the pressing rollers must absolutely not exceed the values shown in the table, in order to avoid possible damages.

It is important that the working boards are not supposed to exceed the nominal thickness for more than ±10mm, both in thickness and difformity. On the contrary, the machine can get damaged, and unsafety for the operator.

•Unlock the handle No. 14036, then start lowering the blades shaft, operating on the hand wheel L No. 14031, controlling at the same time the scale shown by the arrow indicator No. 14037 located near the wheel, until the corresponding size diameter of the blades assembled into the machine is reached.

Then lock again the handle No. 14036.

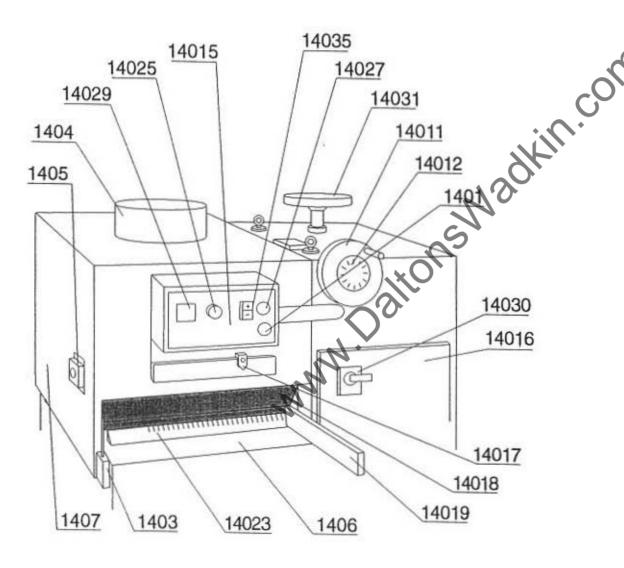
- Start the feeding carpet pressing the button No. 14025 (see on attached 'Control
 panel'); the feeding speed will be set by means of the selection: on position 1 (slow
 speed) and if the working condition ablows to work with a faster speed put on position
 2 (fast speed).
- •Start the cutting, setting the boards into the machine, paying attention to the linearity with the reference guide, because once they are cought by the feeding truck, they cannot be set differently.

Never feed boards laid one on top the other, and never exceed the blades operating limits; not observating these rules drastically reduces the working quality, and may cause damages to the machine.

The ammeter is specifically provided on the 'Control panel' to constantly display the power consumption of the motor that operates blades.

The maximum estimate values are shown in the table on page 8.

The limiting width device located at the feeding side of the machine is provided with a microswitch Fc5 (see attached 'Position microswitches and emergencies') that stops the machine when put into action.



1401 Blinking light
1403 Security device
1404 Aspirating mouth
1405 Upper anti-kick back device
1406 Working surface
1407 Head carter
14011 Handwheel for uppering and
lowering pressing rollers group
14012 Handwheel cutting thickness
14015 Panel control board

14016 Electrical box door 14017 First blade index 14018 Steel fingers

14019 Fence

14023 Lower anti-kick back

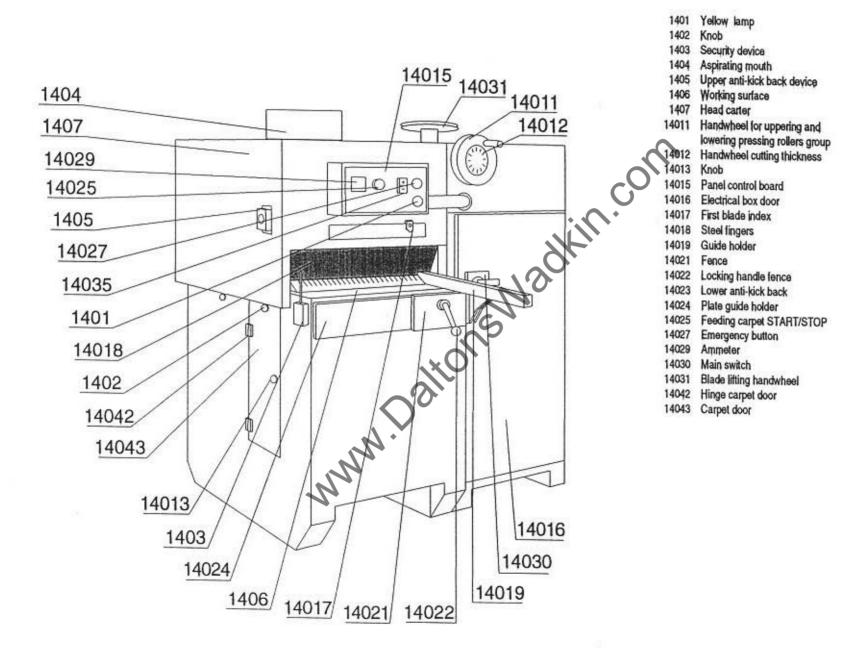
14025 Feeding carpet START/STOP

14029 Ammeter 14030 Main switch

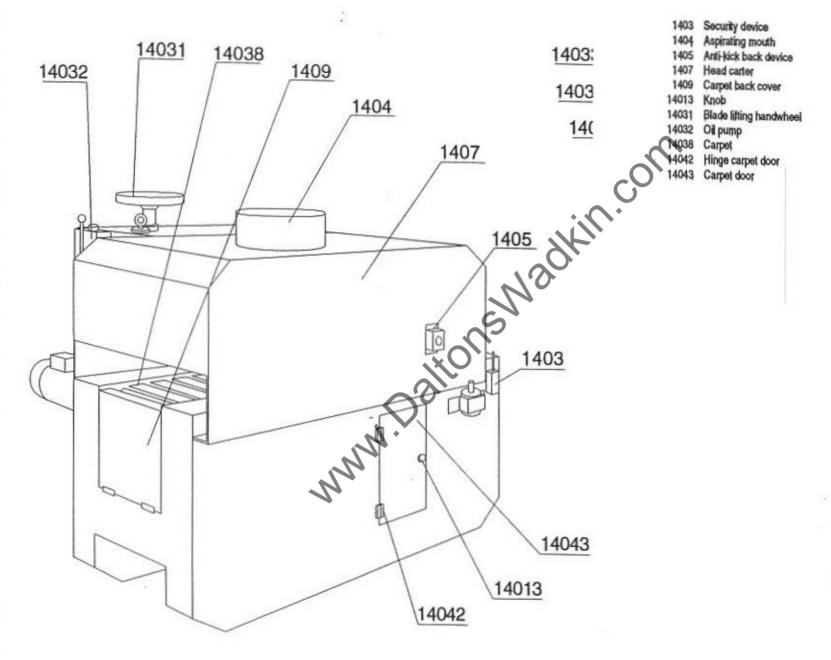
14031 Blade lifting handwheel

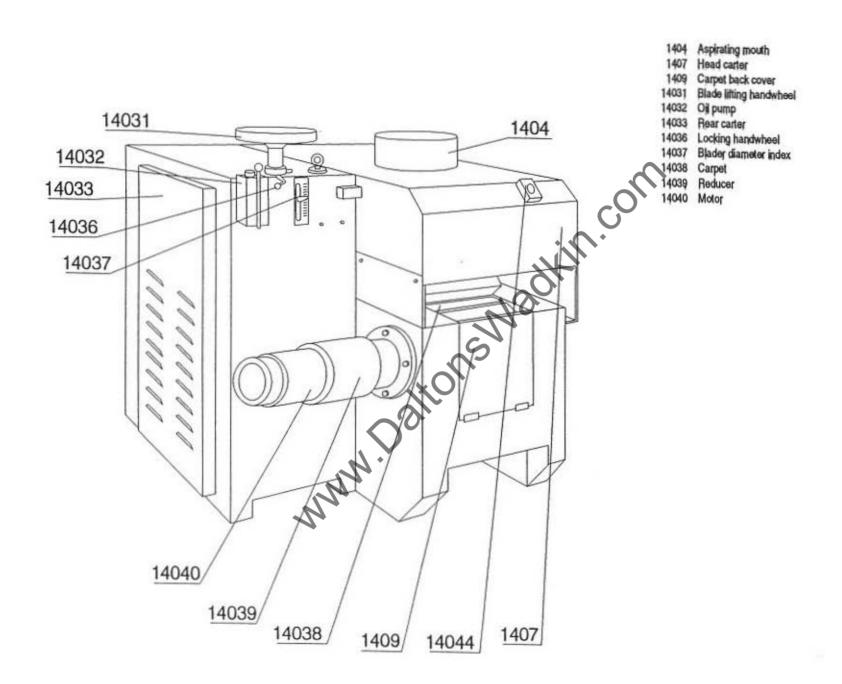
14035 Blades starting button

INSTRUCTION MANUAL

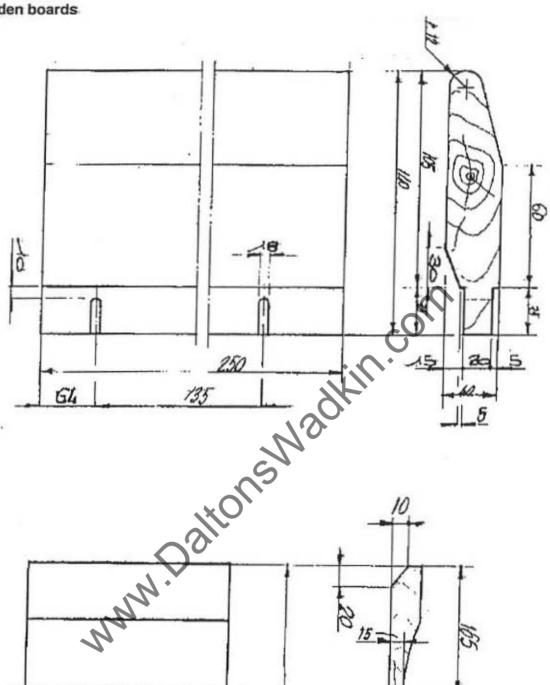


INSTRUCTION MANUAL



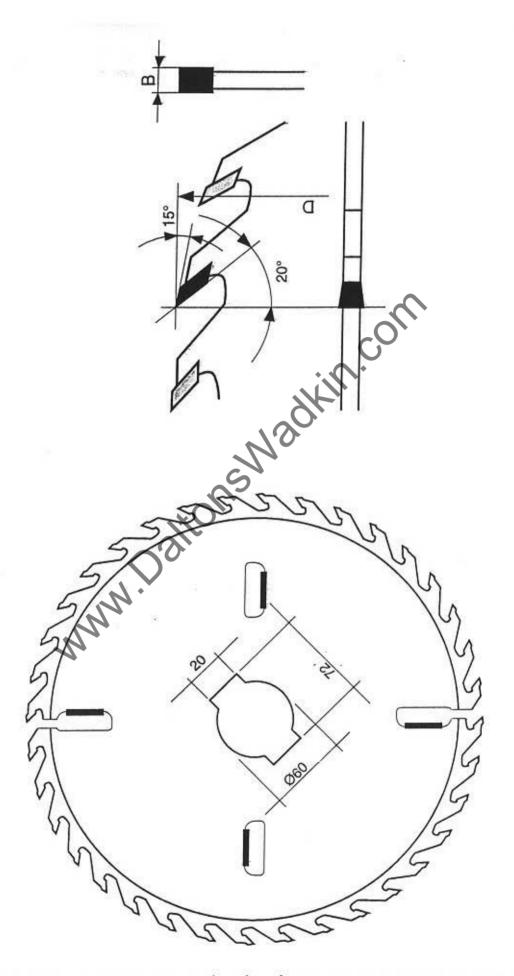


Wooden boards



Multi blade wood cutting machine

Blade



SAFETY MEASURES

The machine is provided with a specific terminal for ground connection.

A pre-set timer prevents the opening of the blades access door, but when the blades have come to a complete stop.

The timer is pre-set on 60 seconds, and this time cannot be changed.

Other security sensors are foreseen as follows:

- a) closed door confirming sensor SQ1 (see 'Microswitches and emergency)
- b) positive sensor that prevents the machine starting if the blades access door is opened SQ2 (see 'Microswitches and emergency')
- c) microswitch of the plank passage limiting disposal Fc5 (see "Microswitches and emergency")

The feeding truck can be exclusively started after the automatic switching 'star-delta' of the motor that moves the blades shaft.

The height setting of pressing rollers while working should be avoided.

In case of electric overload, a relay stops the magnine: it is not recommended to increase the 'thermic' in order to avoid blades blocking inside wood.

After a black-out due to any possible cause, or after an emergency stop caused by one of the security sensors, the machine can only be re-started with an intentional action of the user.

The electrical panel door can only be opened when the main switch is set on the position O.

USER SECURITY AND RESIDUAL RISKS

- never set overlap boards
- steady supports (like trestles or similar) should be used at the feeding and at the output side of the machine in case of working of very long planks.
- never exceed the ±10mm tolerance on the nominal thickness shown by the G indicator.
- .never use unbalance or worn-out blades.
- every turn-over of work check that the anti-kick back fall in their proper position under their weight effect.
- while operating the machine always wear safety shoes and a leather vest.
 Always use safety gloves and proper protection while assembling or changing blades.

 during any kind of preparation work or maintenance the main switch must be set on the position O.

If the machine is not being used, or if it is stopped due to a breakdown or for maintenance, it is advisable to lock it and to provide a sign indicating the reason for which the machine cannot be started.

POSSIBLE ANOMALIES: IDENTIFICATION AND ADVICES

	door could be not properly losed	Check all doors and close them. Check all emergency buttons on the control panel and on the back of the machine
The machine has stopped E	xcessive power consumption	Check all the magnetothermic switches on the electric board: they must be all set on the posi- tion 1. Reset ON any eventual switch set OFF
on		be defective
	mergency-stop actuated, or curity sensor opened	Check all emergency buttons and security sensors, then eliminate the eventual cause

IN CASE OF BLADES BLOCKED INSIDE WOOD

Should blades block inside wood follow these instructions:

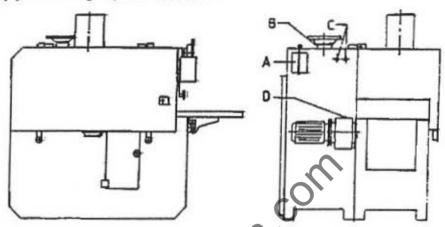
- a) press the Emergency stop button
- b) lift the blades shaft until blades are unhooked
- c) lift the pressing rollers group
- d) wait until it is possible to open the blades access door
- e) lift the anti-kick back disposal by means of the proper tool supplied with the machine: at the same time slip the board out of the machine, pulling it backwards
- f) press the Emergency stop button
- g) reset the machine as required, but reduce the feeding speed

For breakdowns not foreseen by the present manual contact the supplier.

Professional Assistance personnel will intervene to evaluate the anomaly and for proper solutions.

MAINTENANCE

- · every week: general cleaning, check oil level in the lubrication pump.
- every two weeks: apply grease on the shaft bearings through the C lubrication points.
- · every month: check the correct function of every lubrication point.
- · every year: change speed reducer oil.



Periodically check the suction disposal: its correct function is a necessary for the machine to work properly.

LUBRICATION

- · use low viscosity oil
- every 40 hours of work the blades holder bearings must be lubricated rotating for half a turn the two 'stautfer' C.

Use grease type:

ESSO INVARIOU EP68, or ESSO NUTO H100, or corresponding.

- · every 80 hours of work apply standard grease at the B location.
- perodically check the oil level of the feeding truck variator box, adding oil at the D location when necessary.

Use oil type:

AGIP - BLASIA 220 ESSO SPARTALI EP 220 BP ENERGOL GR-XP 220 MOBIL MOBIL GEAR 630 SHELL OHALA 220 or corresponding

Motors and all feeding truck supports do not require lubrification, as they are provided with bearings made of self-lubricating materials.

The lubrication of the truck, gearing chains, screws, feeding guides is manually done by the oil pump.

Periodically check oil level of the cup A and add oil when necessary.

List of components 20HP 380V 50Hz multiblade E. S.

QTY.	DESCRIPTION	CODE	SETTING	REF.	MANUFACTURER
1	DISCONN. SWITCH + BP	3KA5330-1EEOO	3 x 160 A	Q1	SIEMENS
1	AUTOSWITCH	3VF 1231-1DK11	45 : 63A	Q5	SIEMENS
1	COUNT. AUX	3VF9122-1GD40	1L+1R	Q5	SIEMENS
1	AMMETER TRANSF.	T30	100/5A	TA1	SIPIE
1	TRANSFORMER	0-220-380/0-110-132-220 V	200 VA	T1	ELCA
1	AUTOSWITCH	5SQ2270-0KA01	2X1 A	Q2	SIEMENS
1	AUTOSWITCH	5SQ2170-0KA02	1X2 A	Q3	SIEMENS
1	AUTOSWITCH	5SQ2170-0KA05	1X0.5 A	Q4	SIEMENS
1	AUTOSWITCH 1R+1L	3VU1300-1MK00	4:6A	Q6	SIEMENS
1	AUTOSWITCH 1R+1L	3VU1300-1MH00	1.6:2.4 A	Q7	SIEMENS
1	AUTOSWITCH 1R+1L	3VU1300-1MD00	0.24:0/4 A	Q8	SIEMENS
1	TIMER	7PU6020-7NJ20	"2(20)""	t1	SIEMENS
1	RELAY SWITCH (L)	3TF 4422-0AFO	15KW	K1	SIEMENS
1	RELAY SWITCH (D)	3TF 4422-0AFO	15KW	K2	SIEMENS
1	RELAY SWITCH (Y)	3TF 4211-0AFO	7,5KW	Кз	SIEMENS
1	RELAY SWITCH	3TF3010-0AFO	4 KW	K4	SIEMENS
1	RELAY SWITCH	3TF3001-0AFQ	4 KW	K5	SIEMENS
1	RELAY SWITCH	3TF3001-0AFO	4 KW	K6	SIEMENS
1	RELAY SWITCH	3TF3001-0APO	4 KW	K7	SIEMENS
1	RELAY SWITCH	STFS001-DAFO	4 KW	К8	SIEMENS
1	RELAY AUX	371130 22-0AFO	2L+2R	d1	SIEMENS
1	RELAY AUX	3TH30 22-0AFO	2L+2R	dx	SIEMENS
1	RELAY AUX	3TH30 22-0AFO	2L+2R	dy	SIEMENS
1	RELAY AUX	3TH30 22-0AFO	2L+2R	dz	SIEMENS
1	TIMER	7PU40 20-3AJ20	"0:100"""	t2	SIEMENS
1	TIMER	7PU40 20-3AJ20	"0:100"""	t3	SIEMENS
1	TIMER	7PU40 20-3AJ20	"0:100 ^{"""}	14	SIEMENS
1	AMMETER	4960	100/5A	P1	SIPIE
2	ON/OFF BUTTON	P2/V O-I	D=22	S2-3/S4-5	ERSCE
2	SLOW/FAST BUTTON	P2/V +-	D=22	S6-7/S8-9	ERSCE
1	BLINKER	RM600 + L91	110V D=22	h1	BRETER
1	EMERGENCY BUTTON	PFB2V	D=22	S1	ERSCE

List of components 25HP 380V 50Hz multiblade E. S.

QTY.	DESCRIPTION	CODE	SETTING	REF.	MANUFACTURER
1	DISCONN. SWITCH + BP	3KA5330-1EEOO	3 x 160 A	Q1	SIEMENS
1	AUTOSWITCH	3VF3111-1BQ41	63 : 80A	Q5	SIEMENS
1	COUNT. AUX	3VF9322-1GB20	1L+1R	Q5	SIEMENS
1	AMMETER TRANSF.	T30	150/5A	TA1	SIPIE
1	TRANSFORMER	0-220-380/0-110-132-220 V	200 VA	T1	ELCA
1	AUTOSWITCH	5SQ2270-0KA01	2X1 A	Q2	SIEMENS
1	AUTOSWITCH	5SQ2170-0KA02	1X2 A	Q3	SIEMENS
1	AUTOSWITCH	5SQ2170-0KA05	1X0.5 A	Q4	SIEMENS
1	AUTOSWITCH 1R+1L	3VU1300-1MK00	4:6A	Q6	SIEMENS
1	AUTOSWITCH 1R+1L	3VU1300-1MH00	1.6:2.4 A	Q7	SIEMENS
1	AUTOSWITCH 1R+1L	3VU1300-1MD00	0.24:0.4 A	Q8	SIEMENS
1	TIMER	7PU6020-7NJ20	"2:20	t1	SIEMENS
1	RELAY SWITCH (L)	3TF 4622-0AFO	22KW	K1	SIEMENS
1	RELAY SWITCH (D)	3TF 4622-0AFO	22KW	K2	SIEMENS
1	RELAY SWITCH (Y)	3TF 4422-0AFO	15KW	Кз	SIEMENS
1	RELAY SWITCH	3TF3010-0AFO	4 KW	K4	SIEMENS
1	RELAY SWITCH	3TF3001-0AFO	4 KW	K5	SIEMENS
1	RELAY SWITCH	3TF3001-0AF0	4 KW	K6	SIEMENS
1	RELAY SWITCH	3TF3001-0AFO	4 KW	K7	SIEMENS
1	RELAY SWITCH	3TF3001-0AFO	4 KW	К8	SIEMENS
1	RELAY AUX	3TH80 22-0AFO	2L+2R	d1	SIEMENS
1	RELAY AUX	31H30 22-0AFO	2L+2R	dx	SIEMENS
1	RELAY AUX	3TH30 22-0AFO.	2L+2R	dy	SIEMENS
1	RELAY AUX	3TH30 22-0AFO	2L+2R	dz	SIEMENS
1	TIMER	7PU40 20-3AJ20	"0:100"""	t2	SIEMENS
1	TIMER	7PU40 20-3AJ20	"0:100"""	t3	SIEMENS
1	TIMER	7PU40 20-3AJ20	"0:100"""	t4	SIEMENS
1	AMMETER	4960	150/5A	P1	SIPIE
2	ON/OFF BUTTON	P2/V O-I	D=22	S2-3/S4-5	ERSCE
2	SLOW/FAST BUTTON	P2/V +-	D=22	S6-7/S8-9	ERSCE
1	BLINKER	RM600 + L91	110V D=22	h1	BRETER
1	EMERGENCY BUTTON	PFB2V	D=22	S1	ERSCE

SPARE PARTS LIST

Blades shaft Amperometer Reference guide Door block V.110

Blade holder key Motorkey

Cast iron shaft quill Track chain (one couple)

Quill key Head lifting shell

Belts 3V600 (one series) Belts 3V630 (one series)

Shaft bearing Free wheel bearing Sprocket bearing. Pulley bearing

Pressing rollers bearing Blade screw bearing Head screw bearing Quill bearing spacer

Blade locking threaded ring

Coupling

Tempered steel guide (one couple)

Blade diameter index

First blade indicator Main switch HP. 20

Jaccard handle Jaccard handle

Knob

Micro switch

Blade access door microswitch

Gas spring

Spring for board and rollers

Track motor HP, 1

Spring for rollers Spring for board Complete control panel

Pad mat Axe free wheel Axe sprocket

Chain guide feeding side plate, 2 pcs

Pos. 13, see attached 14A5001 Pos. 14029 control board panel

Pos. 14019

Pos. SQ 8 see attached

stroke-end and sensors location Pos. 21, see attached 14A5001 Pos. 57, see attached 14A5002 Pos. 14, see attached 14A5001 Pos. 56, see attached 14A5003 Pos. 5, see attached 14A5001

Pos. 28, see attached 14A5002 Pos. 49, see attached 14A5002 Pos. 49, see attached 14A5002

3212, Pos. 14 See attached 14A5001 6207-2RS, Ros. 82, see attached 14A5003 6210-2RS Pos. 76, see attached 14A5003

NU408 Pos. 16, see attached 14A5001 6204-2RS, Pos. 84 see attached 14A5003 51106 NAZ., Pos. 20, see attached 14A5002

51107 NAZ. Pos. 8, see attached 14A5002

Pos. 7, see attached 14A5001 Pos. 1, see attached 14A5001 Pos. 72, see attached 14A5003 Pos. 54, see attached 14A5003

Pos. 14037

Control panel 14017

Pos. 14030 Pos. 14022 Pos. 14036 Pos. 1402 Pos. 14043

Pos. SQ1, SQ2, SQ3, SQ5 see attached

stroke-end and sensors location

SQ1-SQ2, see attached

stroke-end and sensors location Pos. 2, see attached 14A5003 Pos. 87, see attached 14A5003

M2, see attached motors

location

Pos. 85, see attached 14A5003 Pos. 20, see attached 14A5003

Pos. 8015

Pos. 46, see attached 7AS1 Pos. 69, see attached 7AS1 Pos. 60, see attached 7AS1 Pos. 67, see attached 14A5003 Chain guide outlet side plate, 2 pcs

Chain guide central plate, 2 pcs

Free wheel (2 pcs) Manual oil pump

Proximity

3V belts saw quill pulley 3V belts motor pulley

Emergency button A

Reducer

Blades ON/OFF button Truck ON/OFF button

Electrical box Multirip roller

Lower row anti-kick back nr. 72 pcs

Seeger | 72

Wrenches set nr. 11 pcs

Guide holder

Sprocket support

Track complete of chain pads, chains, guides central plate

Short wooden tablet

Long wooden tablet:

Transformer 110V Head lifting screw

Blades hand wheel

Handwheel for pressure rolle group

Blade lifting handwheel MMM Dali Pos. 68, see attached 14A5003

Pos. 35, see attached 14A5003

Pos. 14032

Pos. 14027 "Control panel"

Pos. 14039

Pos. 14035 "Control panel"

Pos. 14025 "Control panel"

Pos. 14016

Pos. 44, see attached 14A5003

Pos. 28, see attached 14A5003

Pos. 81, see attached 14A5003

Pos. 14021

Pos. 46, see attached 14A5003

See attached short board

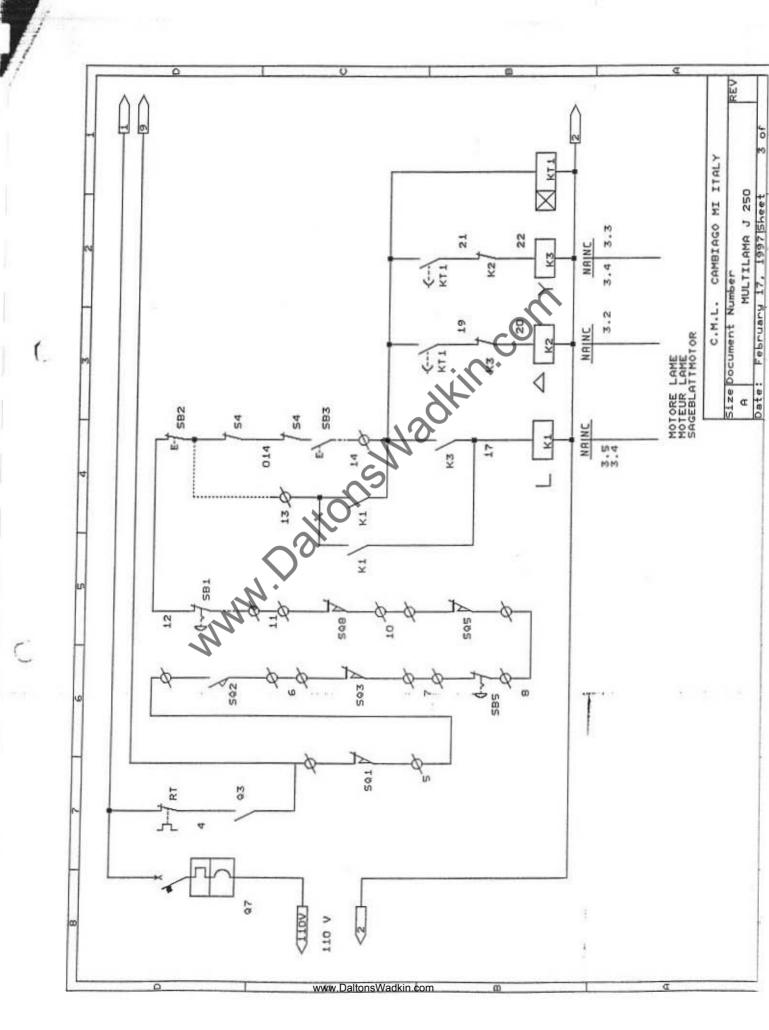
See attached long board

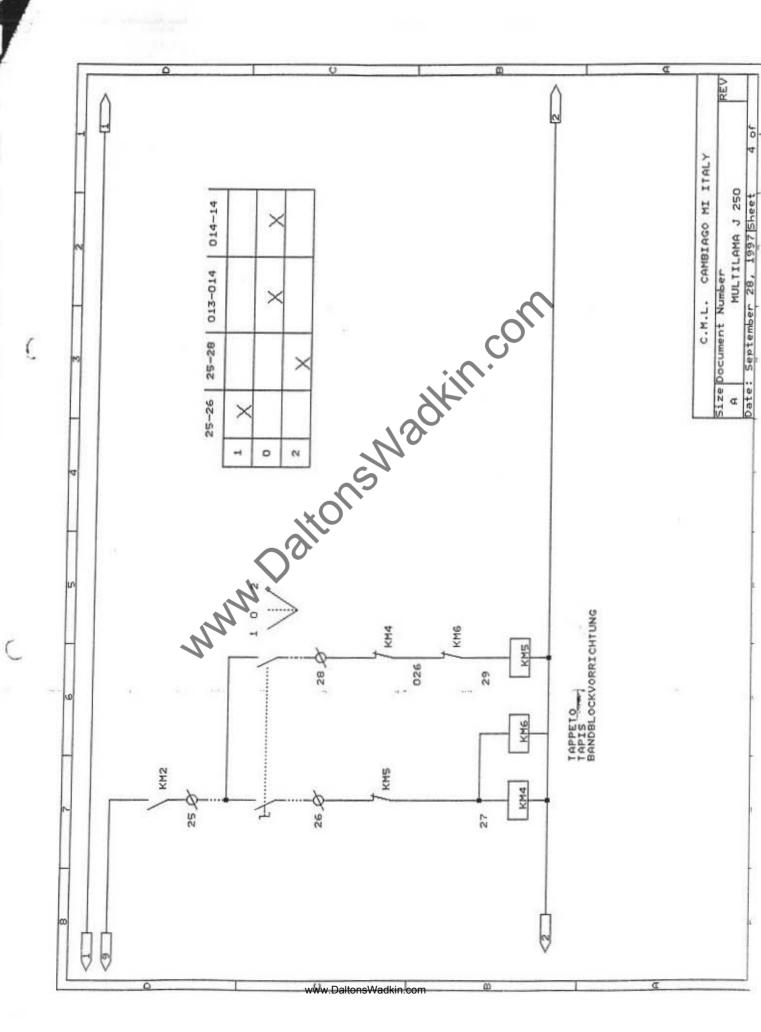
Pos. 29, see attached 14A5002

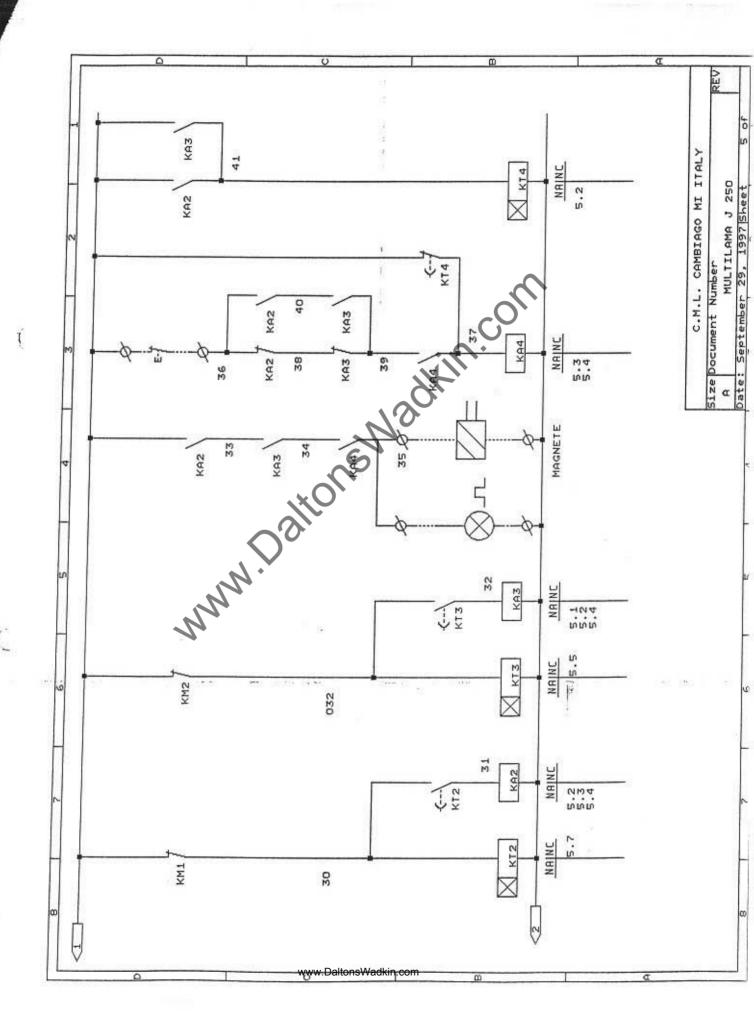
Pos. 19, see attached 14A5002

Pos. 14011

Pos. 14031







	-	5	4	3 2 1	
91	SEZIONATORE SOTTO CARICO	TECNOELETRIC	TK 3X80A		
92	PROTEZIONE MOTORE	TELEMECANTOUR	GK3 EF40		
TA	TRASFORM. AMPEROMETRICO -	FC MISHRE	TAB 1 60/5		Ь
93	SALVAMOTORE TAPPETO :	TELEMECANIQUE	GV2 M08	coll.	
Q5 Q6	PROTEZIONE TRASFORMATORI	MERLIN GERIN	24263 1 A		Н
97	PROTEZIONE TRASFOR TR	MERLIN GERIN	24236 0,5 A	A.	
Q8	PROTEZIONE TRASFOR TRI	MERLIN GERIN	24236 0;5 A	= /11 ac ac ac	
K1 K2	TELERUTTORI	TELEMECANIQUE	LC1 D2510	H +44	c
кз	TELERUTTORE	TELEMECANIQUE	LC1210	- 50 - 50	-
KTI	TEMPORIZZATORE	FIBER .	EN F10	** The Paris 19 10 10 10 10 10 10 10 10 10 10 10 10 10	7+
KT2 KT3	TEMPORIZZATPRI	FIBER	£21 F26/30-60"		Н
ктз	TEMPORIZZATORE	FIBER	E21 F26/15/3"		
K4 K5 K6	TELERUTTORE	TELEMECANIQUE	LC1K0601	(A)	
A2 KA3 A4	RELE DISCORDANZA :	RENDER	6013		B
RT1	RELE TERMICO LAME	TELEMECANIQUE	LR2DD13		
TR	TRASFORM AUSILIARI	DUE E	ETM4 -3-30		Card C PROCESS NO.
TR1	TRASFORM LASER	DUE E	ETM4 -3-40	STATE OF A	П
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