INSTRUCTION MANUAL

BS-300/60 AFI-E Automatic Hitch Feed Metal Cutting Band Saw (415V) 300 x 180mm (W x H) Rectangle



B100



USER'S INSTRUCTIONS

Automatic, hydraulic bandsaw BS300/60 AFI-E





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INSTRUCTIONS FOR USE

We recommend to read carefully the information here included in order to install, use and maintain correctly and safely this machine.

Please refer always to this instruction manual in case of assistance service need and keep it carefully for all the machine life.

A consequence of the continuous improvement of the product is that some images/descriptions here included could not correspond to the improved features of the machines.

Your kind collaboration would help us in intevening asap.

In the enclosed Compliance Declaration you will find the Safety and Reference Norms applied during the planning and construction of this machine.

The choice and the use of the parts have been made by considering the conditions of use and the long machine life.

The identification plate, with the serial number, is fixed on the front right angle of the base or on a side of control box.



1.1 - ATTACHED DOCUMENT FOR E.M.C. (INDUSTRIAL ENVIRONMENT)

The user is responsible for installation and use of this machine in compliance with the manifacturer's instructions shown in this manual. This plant meets the protection requirements in accordance with the Directives 89/336/EEC,

92/31/EEC e 93/68/EEC as for electromagnetic compatibility (EMC).

In particular, it follow the technical instructions of the Rules EN55011, EN50082-2 and it has been realized for industrial and not for household use.

In the event that should be electromagnetic interferences the user is responsible for solving the problem together with the technical assistance of the manifacturer.

Before installing the machine the user must take into account possible electromagnetic problems of the working area. In particular, we suggest installing the plant away from:

-signalling, control and telephone cables; -radiotelevision transmitters and receivers;

-computers or controlling and measuring instrument; -safety and protection devices.

The electric supply cable must be kept as short as possible, well right and without wires.

The covers, the door and the frame must be suitably closed when the plant is operating. Under no circumstances the plant must be modified except for adjusting and changing established by the manifacturer. Follow the maintenance schedule.

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	DECLARATION OF CONFOR	RMITY	
accol	rding to the law that transposes the M THE MANUFACTURER : IME		
	Località Tre Fontane		
	24034 - CISANO BERGAMASCO -	-BG- ITALIA	
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INSTRUCTIONS FOR USE



3 - MACHINE NOISE

The decibel pointed out in the workplace in the conditions under described is appointed to the simoultaneous working of some machine parts in motion (it depends on the detailed cycle) added to that one of the tool when is cutting the workpiece.

In several moments the decibel are pointed out to note the different using conditions.

The phon-meter is placed at about 1 meter near the machine and at about 1,60 m from the floor. The results of each test is in dBA and they mean the average of 3 tests made from the: left side, opposite side, right side.

For any machines the using conditions are the following :

When running at the highest blade speed without cutting: dBA 63

When cutting a steel solid (St12=~C20 diameter 100mm) at a suited blade speed: dBA 75

(the measuring is = + - 2dB).

In the standard production the test is made by a same machine of above mentioned one, in compliance with E.C. safety norms 89/392/CEE and 86/188/CEE.

The use of the machine in bad conditions or the use of the wrong tools cause also sensitive alterations of these tests and it is prejudicial for the health of the staff and for the good results of the work .

Most of all the noice depends on the cutting material, on its sizes and on the locking system.

By expecting that above mentioned decibels could be exceeded, we recommend the operator the using of the personal means of protection (head phones, plugs etc.) in case of working a long time at highest levelspositioning/clamping in the vice, taking into account other possible machinery running nearby and the characteristics of the working place

3.1 - ADDITIONAL HEALTH AND SAFETY REQUIREMENTS

This type of machine, manually controlled during some working operations, must respond to further health and safety requirements as specified by article 2.2 of the Annexed I of the European Directive 89/392 and following.

In particular, the level of vibrations emitted by the machine while in use must be clearly specified in the instructions.

This machine does not emit vibrations of a level higher than 2,5 m/s 2

The measurement procedure used conforms to the general norms applied to this type of machine.

As in the preceding paragraph, using the machine in unsuitable conditions or using the wrong tools can cause changes affecting this value, endangering the health of the work force as well as the quality of production.

Vibrations emitted during cutting may be amplified by the material, by its dimensions and its positioning/clamping in the vice.

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INSTRUCTIONS FOR USE



4 - GUARANTEE NORMS

I.ME.T. offers a wide range of sawing machines and accessories, destined to who buys/uses them as part of a commercial or professional activity.

The manufacturer grants that this product has been strongly controlled and that there are no defects in the used and working materials for <u>a period of 12 months</u> from the date of the delivery note.

The italian law D.L. n°24 issued on 02/02/2002 and valid since 23/03/2002 (which carries out the European Directive 1999/44/CE) indicates different terms only for convenience products for private use.

If the user points out some defects to the manufacturer during the warranty time, the manufacturer will replace the components that are considered defected.

In case of reparation of the machine during the warranty time the shipment will be accepted only if the delivery is Free Destiny (that is the freight costs are supported by the owner of the machine), and the return of the machine to the customer is considered EX WORKS.

If the manufaturer is not able to remplace a component within an acceptable time, both companies (manufacturer and user) will reach an agreement for satisfying completely the needs of the user.

The a.m. warranty is not valid in case of accidental damages, or defects provoked by a wrong use of the machine or maintenance, by variations made on the machine, or by the use of the machine in a place not corresponding to the indicated environmental specifications.

4.1 - The manufacturer does not offer further warranties, written or spoken, explicit or implicit of its products and does not offer implicit warranties on saleability or adequacy for particular uses not foreseen by the agreement.

The a.m. limitations and exclusions can also be not applicable in Countries, where there are no implicit limits of warranty time on the products. Anyway each implicit warranty is limited to a time of 12 months from the date of the delivery note.

4.2 - The date of manufacture, deducible from the serial number placed on the machine, is a very necessary reference for the warranty, for the assistance after-sale and for the identification of the product.

Each tampering on the products, expecially the installation of safety devices, will relieve the manufacturer of any kind of responsability.

The parts most subject to rapid and continuous wear are not included in the warranty (for example: transmission belts, gaskets, oils, blades, and so on).

For the electrical, electronic and hydraulic equipments and for the other equipments having its own individuality (of which there is the possibility to know the name of the constructor), the manufacturer gives to the user the same warranty received by the primary constructor of these parts.

4.3 - The components replaced during the assistance operated by the manufacturer have a warranty of 6 months from the installation date indicated on the Technical Service paper, one copy of which is given to the owner.

FI-E (B100)

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INSTRUCTIONS FOR USE

6 - TECHNICAL DETAILS

Automatic electronic bandsaw with numeric control and hydraulic working, suitable for cutting metal profiles and solids from 0 to 45 deg. left in automatic cycle, from 0 to 60 deg. left in semiautomatic cycle Material feeder equipped with recirculating-ball screw. In compliance with E.C. - CSA - UL Safety Norms and with the Norms of Electromagnetic Compatibility (EMC

STANDARD MODEL EQUIPPED WITH:

2 SPEED Three-phase motor, - with band speed 35/70 m/min. - electrical components complying with E.C. Norm EN60204-1, EN55011, EN50082-2

- low voltage (24V), main switch with interlocking attachment and minimum tension coil, thermo-magnetic overload motor protections, emergency stop

- easy to use CNC control; all operating functions of the machine are programmed from the control panel,

Showing of the operating conditions, band speed, piece counter and number of pieces still to cut on an alphanumeric display, , - autodiagnostics circuit displaying error CODES wholly controlling the machine actuators - front fixed screw vice with hydraulic action, jaws height 130 mm - quick and positive location at 0 feeder equipped with recirculating-ball screw, 300 mm maximum opening, 4 mm minimum stroke, 210 mm minimum scrap-end,.- feeder vices fitted to a floating plate, sliding by ball-bushing on chromium-plated and tempered guides- monobloc floor stand predisposed for handling with lift truck Connection for loading roller tables - unloading chute -removable chip tray and tank, coolant pump and washing spray gun, hydraulic unit with oil. New band-cleaning device by means of a brush, , - bi-metal band, wrenches and manual of instructions, maintenance and spare parts.

WIDE RANGE OF ACCESSORIES: Two pressure reducers for hydraulic vices with gauges, upper rollers for cutting more pieces side by side (max dimensions 300x100 mm, only for straight cut), RTS = modular loading roller tables, 400 mm wide and 2 m long.

If not differently indicated, all data reported in this manual refer to the standard version, suitable for working at 400 V / 50 Hz THREEPHASE with NEUTRAL WIRE.

	= CU	utting capacity (n	nax. dimensions on PROFILE	S & TUBES)
3		-	11.10001	

= BLADE DIMENSIONS	= WEIGHT	=VICE OPENING

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= motor choice and blade speeds (at 50 Hz);

	M	1		Kg	t and	0		
mm.	Kw	Mt/min	mm.	Kg.		mm.	mm.	mm.
2765 +-10 X27X0,9	1,5 3~	18 to 110	300	635	0° 🔢	255	230	300x180
					45° 📉	210	190	200X160
	1,5/1,8	35/70	300	630	60° 🞴	135	110	130X100

N.B. If the device of MINIMAL LUBRICATION is mounted on the machine, the cutting capacity is reduced by around 10 mm due to the spray nozzles on the anterior band guide.

Dimensions	В	L	Н	H min.
(mm)	width	lenght	height	worktable
In use	1800	1850	1880	870
For transport	1800	1750	1600	

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7 - INSTALLATION

The machine can work according to the parameters provided by the manufacturer if it is rightly installed and the minimum requirements are observed, as follows :

- Machine must be used indoor and with temperatures from +5 to + 40 °C.
- The relative humidity of the environment must not go over 95%.

- The nominal value of the voltage of electric energy must be between + - 10 and the frequency of the nominal value must be between + - 2%.

The floor must have good characteristiques of capacity and level.

Floor space, operator position and working area are indicated in the included drawing that concerns the machine only without fittings as optional.

Work table must be leveled: by using the screws and nuts (NOT SUPPLIED) put in the little feet holes fix the machine to the floor .

The included electrical schemes reproduces the necessary details to arrange the connections, to be predisposed for 5KW power reques, with NEUTRAL WIRE.

Grounding of all electric parts thanks to a GREEN/YELLOW wire, linked via a TN system to the power supply cable. A supplementary grounding point - marked "PE" - can possibly be located on the metallic structure of the machine.

7.1 - DIFFERENTIAL PROTECTION

For the connection of the differential protection on the power supply line it is necessary to use switches with a threshold of interference on the power dissipation of not less than 300 mA (size 0.3 A or higher is recommended), having possibly time adjustment availability (0>1.5 sec).

E.M.C. Electromagnetic noise

This machine has been foreseen for industrial and not for household use. In the event that should be electromagnetic interferences the user is responsable for solving the problem together with the technical assistance of the manufacturer. Before installing the machine the user must take into account possible electromagnetic problems of the working area. In particular we suggest to install the plant away from:

- signalling, control and telephone cables;
- radiotelevision transmitters and receivers;
- computers or controlling and measuring instruments;
- safety and protection devices.



🍽 8 – TRANSPORT & LIFTING

For the transport of the machine only the methods indicated below are possible. However, be sure that the means of transport and lifting are able to stand the machine's weight and its packing (about 1000 Kg):

WARNING

The personnel in charge of loading, unloading and moving the machines should use protective gloves. WARNING

When lifting or moving the machine, or a part of it, take care of clearing the operations area of the people, considering also an appropriate safety area around it, so as to avoid any risks of injuring people or damaging things located nearly.

Special packings - wooden crate , wooden case -may be predisposed on request, by charge.

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INSTRUCTIONS FOR USE

ALL THE OPERATIONS THAT INVOLVE MOVING THE MACHINE MUST BE CONDUCTED WHILE **RESPECTING THE FOLLOWING BASIC RULES:**

- When moving the machine, an appropriate means has to be used, with a loading capacity higher than + the weight to lift, which is indicated on the machine.
- When choosing and then using equipment such as ropes, chains or lifting belts, be careful about their + geometry during the lifting and about the consequent actual loading capacity.
- The machine is structured so as to offer lifting points, which are appropriately indicated and will have to + be used for lifting it.
- In case the lifting belts touch parts of the machine, nylon belts are required; ropes or chains wrapped + with jute or clean covering can also be used. A great care is necessary while slinging and moving the machine in order to hinder damages.
- All operations have to be conducted with graduality, so as to avoid jolts and dangerous situations. +
- The person in charge of the operations has to make sure that all the national, local and company norms + in reference to injury prevention and work safety are respected.
- Onr or more areas for material storage have to be identified.

Transport with machine at sight

This type of transport is usually chosen for deliveries by covered truck, in case of short trips. The machine is wrapped with thermoplastic material in order to assure a suited protection of all its parts; the machine is then loaded on a truck and should be wrapped with ropes that tie it up. To lift it, use a forklift from front side of machine, with forks length 1.5 m or more.

Warning: if machine is delivered by open trucks, please cover it !



Transport with wooden crate or wooden case. (BY REQUEST, ON CHARGE)

The machine is wrapped with thermoplastic material in order to assure a suited protection of all its parts; then it is packed into a wooden crate or cage to protect it from collisions, inclement weather and so on. To lift it, use a forklift from front side of machine, with forks length 1.5 m or more (see picture). You need to follow the indications you find on the packing before proceeding to moving or opening it. WARNING

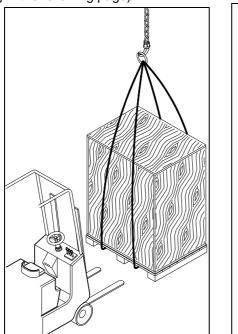
The size of the packing varies according to the machine ordered and its configuration. WARNING

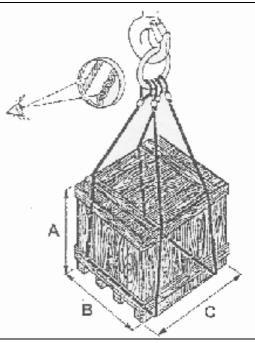
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INSTRUCTIONS FOR USE

The machine is fixed to the packing by means of screws, so as to hinder that it can move during the transport (see drawing in the following page)

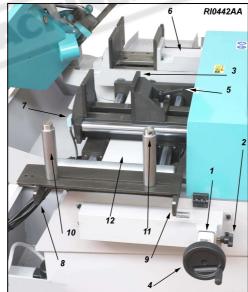




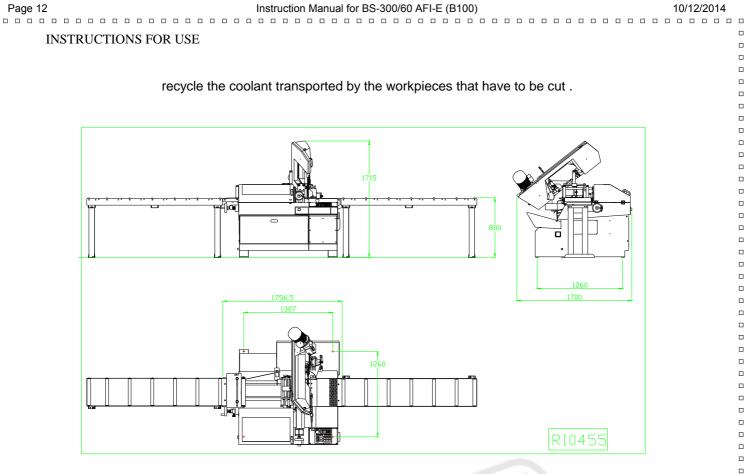
FITTINGS ASSEMBLING

The installation informations are supplied together to the same fitting, but we include herebelow a little working description.

Loading roller table- To rightly install the loading roller table, first of all it is necessary to level and to adhere the machine.



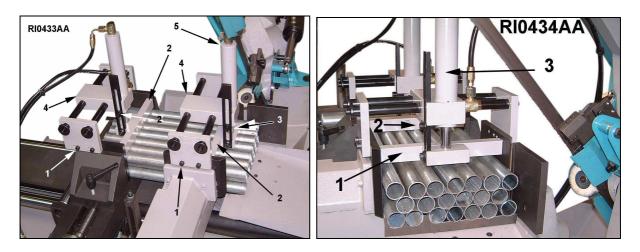
Therefore level the loading roller table to the same level of the work table and the back supporting jaws by beginning to that nearest the machine. For very long workpieces adhere the pedestals on the floor and



Upper roller for simultaneous cutting of several bars- it is an optional - together with the vertical vice, it allows to move and to lock a group of bars suitably prepared, or tubulars placed side by side (not one on the other) . The maximum dimensions that can be reached are : width 280 mm., height mm., bar stop = ... mm. minimum.

Additional supporting roller for the feeding - it increases the support of the material to cut (when the bar is almost finished). You can assemble it and dismantle with great ease.

Hydraulic vertical vices for cutting bundles, connected to the standard vices. They allow to clamp and feed a bundle of bars – maximum breadth 250mm, minimum breadth 110mm, maximum height 120 mm.



Minimal lubrication system - This device, applied to the saw, allows to eliminate almost completely the traditional coolant system, keeps the material much cleaner and avoids to waste cutting oil and water. It works only during the cut.

It is comprised of a nozzle - 1/RI0463 - with 5 micro-holes, a tank with devices to adjust the quantity of oil and the air pressure. The switch of the electric system - 3/RI0462 - working with low tension 24V AC allows to turn П

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INSTRUCTIONS FOR USE

it off at any moment and use the normal coolant system. . Remove the nozzle 1/RI0463 to obtain the maximal cutting capacity.



Voltage transformer - place it between the electric supply of the premises and the electric supply of the machine. It allows to work with a different voltage than the standard one (that is 400V / 50 Hz). Available voltages: 230V, 460V, 500V, 575V.

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INSTRUCTIONS FOR USE

BAND CHOICE

In this paragraph we recommend the type of cutting band in accordance with the material to use. To get the best performance from this machine it is necessary to undestand the right use of the used tools and what you have not to do with them.

The band you have to use must have the following sizes (in mm.) :

maximum lenght = 2770minimum lenght = 2750= 27 total height thickness = 0.90

Blades with a different thickness can be utilized by changing appropriately the width of the blade guides (see the paragraph ADJUSTMENTS) and the band tension.

The blade material is also important; generally the bi-metal blade is used, with different levels of HARDNESS, named M42 or SVGLB (for general purpose: tube, solids and profiles, available in all pitches), M51 or SHL (preferred for big solids of hardened steel, INOX material too, available in 3/4 and 2/3 pitch).

The teeth hardness increases - and the fragility too - by going from the material M2 to the M51. To make a good cut it's crucial to choose the right pitch (t) or NUMBER OF TEETH PER INCH (z). The blade must generally have the toothing as follows:

- small teeth when cutting thin materials, tubular and profiles.

- big teeth when cutting solids or pieces with a long cutting section (for example the central part of a U profile), or in case of softer materials such as aluminium, copper, soft bronze.

By choosing the suited pitch you can avoid a lot of mistakes and you can get a good blade penetration and the necessary room for the chips. If you cut more pieces at the same time, you must consider them as a single piece (that is, you have to consider the total size). The enclosed chart gives the necessary information for a correct choice. It can however be updated or modified by the user according to his personal experiences.

Even if there are blades with constant pitch, most bandsaws allow the use of blades with variable pitch, that is, groups of teeth having different pitch one from each other, which reduce vibrations and noise and improve the quality of the cut and the cutting performance.

SUGGESTED PITCH		SOLIDS Outer Diameter (mm)	BIG PROFILES Wall Thickness (mm)	PROFILES Wall Thickness (mm)	BUNDLE Lenght to Cut (mm)	REF.
VARIABLE	CONSTANT					
	14 M42	-	-	1,5 max	-	
10/14 M42	10 M42	-	-	1 a 2	-	
8/12 M42	8 M42	20 max	-	2 a 4	-	
6/10 M42	6 M42	40 max	-	4 a 8	-	
5/8 or 5/7 M42	5 M42	30 a 80	6 a 12	-	50 a 100	
4/6 M42	4 M42	40 a 90	10 a 20	-	70 a 120	
3 / 4 M42 o M51	3 M42 o M51	70 a 150	15 a 25	-	100 a 200	
2 / 3 M42 o M51	2 M42 o M51	120 a 230	Oltre 25		120 a 300	

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These cutting recommendations refer to 100 mm. diameter solid bars and a standard saw of our product range. For 2-speed machines we suggest the motor speed to use; when it's into a bracket () it is recommended to use a machine with ESC, which grants a continuous blade speed variation.

If the size of the material decreases, the indicated figures can be increased, considering also the machine model and its performance and/or some accessories, for example the ESC (Electronic Speed Control):

If the material size increases, it is necessary to decrease the indicated values, considering also the machine model and its performance and/or some accessories, such as the ESC (Electronic Speed Control):

			T	1	1		
MATERIAL	i.e. DIN	DIN N°	Maximum	Minimum	MOTOR	FEED	COOL
GROUP	denomination		BLADE	BLADE	SPEED	FORCE	ratio
			SPEED	SPEED	(1or2)		
			m/min	m/min			
1)STRUCTURAL	St3						
STEEL							
-				25	-		1.00/
	St 5			35	1	LOW	10%
HARDENING	C10 C15	10301 10401		35	1	LOW	15%
STEEL						2011	
STEE							
	16MnCr5 20CrMo5	17131	40	30	1	LOW	10%
	9S20 10SPb28	17264 10711	70	50	1 2	1	15%
AUTOMATIC	9520 105PD28	10/11	/0	50	1 2	Low/M	1.5%
STEEL				10		ed	
		10505		25	-		50/
BEARING STEEL	100Cr6	13505	50	25	1	LOW	5%
CDDINC	65Si7	15028	40	30	1	Maduli	5%
SPRING	65517	15028	40	50	1	Med/Hi	5%
2)TOOL STEEL	GG15 GG30		50	30	1	Med/Hi	dry
	0015 0050		50	50	-		ur y
ALLOYED	AL99.5 GalSi15Mg		300	50	2	HIGH	2%
//220128	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	CuSn6 CuSn6Zn		120	40	2 1	HIGH	2%
			200	50	2		
HIGH SPEED	C80W1	11525	40	30	(1)	HIGH	5%
		11663			(1)		<u> </u>
INOX STEEL	210Cr12 X155CrVMo	12080 12379	30	20	(1)	HIGH	dry
		12344	30	20	(1)		5%
3)SPECIAL	X40CrMoV51	12344	50	20	(1)	HIGH	570
ALLOYS							
	S-6-5-2-2	13243	30	20	(1)	HIGH	5%
					(-)	11011	
	X5CrNi18 X10Cr1810	14305	30	20	(1)	HIGH	5%
TITANIUM	NiCr19NbMo		20	15		HIGH	20%
		24668					
	NiMo30	24242	20	15		ALTA	15%
		24810					1 50/
1)STRUCTURAL	NiCr13Mo6Ti3	24662	20	15		ALTA	15%
STEEL	(Nimonic)	24662					
	Ti1	37025	30	20	(1)	ALTA	10%
	111	57025	50	20	(1)	ALIA	1070
	G-TiAl6V4	37164	35	20	(1)	ALTA	10%
		5/101	55	20	(1)		10/0

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INSTRUCTIONS FOR USE

 must be manually adjusted and then it works in automatic cycle (so the operator is not indispensable). The working cycle ends when the machine stops; in order to begin a new cycle, the starting procedure have to be repeated. This machine is designed and manufactured so as to be safely used by the operator, provided that it properly operated . No protections will ever suffice if the operator does not work with d caution, does not make sure that the machine is in top operating conditions and does r follow the instructions below. You must remember that the machine is designed to CUT METALS with a sharp tool, and y are responsible to see that it is operated in a SAFE and CORRECT manner. 1. make sure that the machine is properly installed and electrical installation is proper. 2. be sure you are familiar with all operating, safety, and applications information before 	will
Determination of the machine is properly installed and electrical installation is proper.	vv III
properly operated . No protections will ever suffice if the operator does not work with d aution, does not make sure that the machine is in top operating conditions and does r ollow the instructions below. You must remember that the machine is designed to CUT METALS with a sharp tool, and y are responsible to see that it is operated in a SAFE and CORRECT manner. The make sure that the machine is properly installed and electrical installation is proper. The sure you are familiar with all operating, safety, and applications information before	
L. make sure that the machine is properly installed and electrical installation is proper. 2. be sure you are familiar with all operating, safety, and applications information befor	ue not
2. be sure you are familiar with all operating, safety, and applications information before	
unning this saw.	ore
3. see that all who operate this machine are properly trained and fully aware of all safe practices.	ety
 do not expose yourself or other people to any risk. 	
 insist on proper personal protective equipment and practices. maintain all factory-installed SAFETY DEVICES and make sure that these are never remover 	box
or altered or restricted in any way.	eu
7. the operator must have a safe and organized work area with suitable light and operati	ng
oom. 3. the whole equipment has to be correctly and constantly maintained and inspected or	а
regular basis.	
 never use tools with different features from those for which the machine is designed for. never use this machine to cut material bigger than the cutting capacity. 	
11. keep the cutting area clear of tools or other loose objects.	
12. never operate the saw unless all protections are in place.	t
13. NEVER WEAR loose clothing, long sleeves, large gloves, jewelry, or any other items th may be trapped into a part of the equipment. Confine long hair.	Ial
14. always disconnect the power at source when performing maintenance or maki	ng
adjustments. L5. never insert hands or arms into or near the cutting area while machine is running.	
.6. properly clamp the material in the vice and never hold it with your hands. .7. support suitably the bar on both sides of the machine to prevent falling.	
We recommend to connect an unloading table in case the cutting length of the material is longer than the	<u>}</u>
distance between the blade and the right edge of the saw.	
18. when cutting very short pieces, make sure they do not jam into the blade. 19. if the blade becomes jammed, turn immediately off the emergency locking button, the move the cutting unit to the CUTTING START position. If this is not possible, open the vand move the piece, check that the blade or teeth are not broken, if so replace it. 20. never change the working conditions when cutting, with exception of those specificately offor example, changing speed with the Inverter). 21. do not move the saw while cutting and avoid its instability.	ice
22. wear personal safety equipment, if required for a safe operation.	

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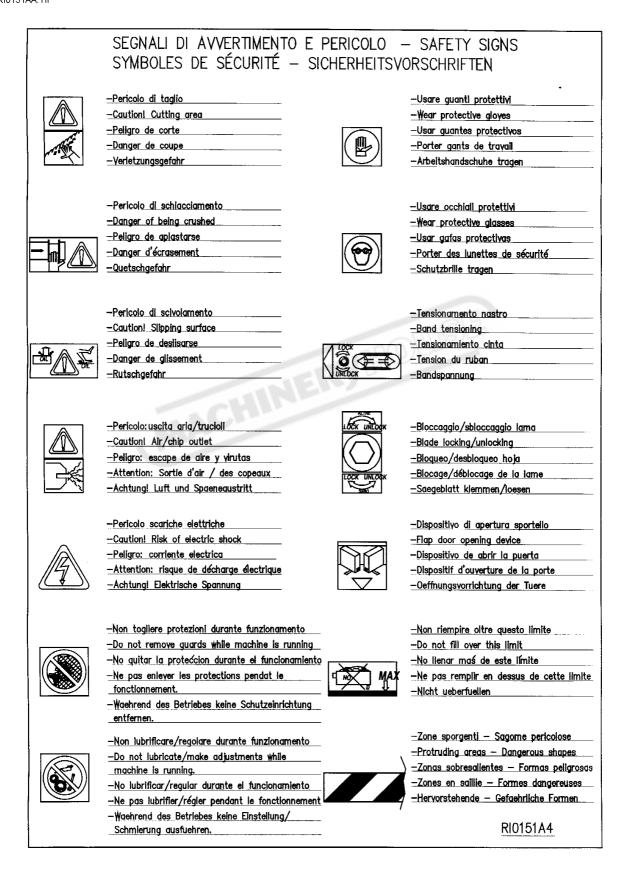
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INSTRUCTIONS FOR USE

ALWAYS OPERATE THE MACHINE SAFELY, USING COMMON SENSE AND ALERTNESS

On some parts of the machine there are some stickers which warn about the safety measures that have to be taken by the operator who runs it. Their meaning (easy to understand) is indicated in the following chart RI0151AA.TIF



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INSTRUCTIONS FOR USE

(i) **OPERATOR'S SAFETY**

This section illustrates the safety protections applied on the saw, according to the current legislation in the field of safety.



3.2.1. ELECTRIC EQUIPMENT - Norm EN 60204-01

. Electric board closed with screws - general switch

. Marking of the electric components used, according to the indications on the electric scheme

. Control circuit with 24V tension - Control transformer with fuses on input and output

. Earthing of all electric parts with a dedicated GREEN/YELLOW wire, connected with a TN system to the supply cable. A supplementary earthing point – indicated with PE – can be located on the metallic structure of the machine.

. Minimum tension coil that prevents accidental restarting after a lack of tension.

. Protection from overloads and high temperature thanks to bimetal thermo-protectors placed directly in the blade motor

. Emergency button for interrupting immediately all the movements of the machine. In order to restore all the functions, rotate the button half a turn.

. Sensor of the blade tension: in case the blade breaks or the tension strength diminishes, the machine stops immediately

. Sensor of the closing of the blade protection: if it opens during the working, the machine stops.

. The stops caused by one of the aforementioned devices needs a complete restoring of the working cycle



3.2.2 - PROTECTION AGAINST ACCIDENTAL CONTACTS

. Complete metallic protection of the blade and the pulleys, the blade-cleaning brush and the back blade-driving pads

Forward metallic moving guard, fixed to the forward blade-driving pad. It assures the coverage of the blade in every position, except for the stretch of blade which makes the cut. Joint to the blade-driving pad, it can be opened only after the opening of the main protection

. Positioning of the saw blade thanks to 2 buttons located on the control board, in order to limit the width of the danger area to the stretch of blade strictly necessary for the cut.

. During the cycle an automatic approaching device stops the saw blade near the material, in order to start the cut.

. Clamping vice with a maximum stroke of 7 mm, according to the norms on automatic closing

. Guard extended to both sides which retains the coolant used during the cut, preventing its spilling on the floor

. Parts of the machine with suitably chamfered or rounded angles



3.2.5. LIGHTING OF THE WORKING AREA

An inadequate lighting can cause accidents to the operator, who consequently needs a suited lighting in the working area. In case of a lack of precise indications (for example, norm ISO 8995) for special areas, we advise to supply a lighting equal to 750 LUX.

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INSTRUCTIONS FOR USE

MACHINE DESCRIPTION, E.C. SAFETY NORMS

Automatic electronic band sawing machine with hydraulic movement . The head swivels from 0 deg. to 60 deg. left of metal profiles and solids.

It is not suitable for cutting wood or similar materials (cfr.D.M. 89/392, Enclosures I, paragraph 2.3). It automatically makes a working cycle usually consisting of :

Locking material, approaching and cutting, tool return, unlocking material and its displacement for a new cut. The operator has to adjust the cutting parameters, to adjust the saw frame swiveling to make the inclined cuts, to program the strokes quantity, the lenght and the quantity of pieces, and the cycle starting.

In designing and manufacturing this machine, we have considered the requirements of the Machine Directive (89/392/ EEC and so on..), important document valid in all E.E.C. Countries. Furthermore we have considered the norms as type A (EN292/1, EN292/2, EN414) in the case that specifications of type C are not available.

The choice and the use of the parts have been made by considering the conditions of use and the long machine life.

From the position of the work, in front of the frontal vice, the operator has the possibility to actuate the controls and to control the good working of the machine.

In the other paragraphs you will find any informations to use the machine in the best way and for a very long time.

Hereunder described you will find the recapitulation of the informations for the machine marking, its identification plate is fixed on the right front angle.

The keyboard of the electronic control has a further register number placed on the back shield.



(1.1 - APPENDIX FOR E.M.C.

The structure of this machine complies to the protection requirements of the EEC Directives 89/336/EEC, 92/31/EEC and 93/68/EEC in terms of Electromagnetic Compatibility (E.M.C.).

It especially abides by the technical prescriptions of the norms EN 55011 and EN 50082-2, and it is fit to be used in industrial environments and not in residential ones.

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INSTRUCTIONS FOR USE

- MACHINE SETTING FOR STARTING

Verify that machine has not clear damages or faults and check upon the standard equipment that includes the tools, fittings to do some adjustments, using and maintenance handbook .

In case the machine is supplied with additional equipment make sure that it is adaptable to the machine. Point in good time the possible damages or faults to the reseller or to the service staff before starting machine.

Remove the locking shaft between sawframe and base, tighten the small threaded handle placed in the hole of the shaft base - 4/RI0461 - in order to prevent the blade guide from moving.

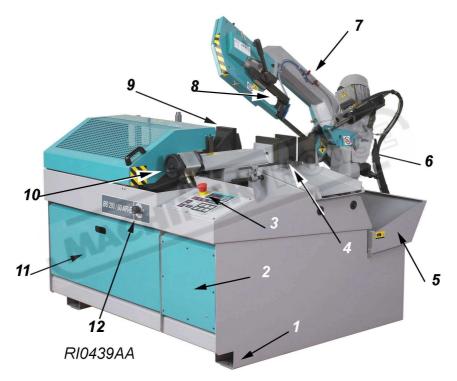
-. Remove the protective substances from the surfaces, used to keep the machine during the moving and transit, by cleaning them with a non-filamentous cloth or paper and please check that there is no rust in the metallic parts.

In case of using compressed air jet always wear proper eye protection.

Take the chip pan tank out -pos.5/dr.RI0439- by unhooking it from the guides then remove the possible dirty that can obstruct the passage of the coolant.

The parts in motion (band guides, trolleys, pivots, bearing support, bearing disc and so on) are already lubricated, the reducer gear holds the exact quantity of oil necessary to the operation.

Hydraulic system is ready to start.



If not tensioned : stretch the springs.-6/RI0439 - placed at the back side of the machine to balance the saw frame : loosen the fixing springs of the sliding plate - and, by a lever , place it about the half of the slots. Hardly lock the screws immediately. It is necessary to do these operations with the saw frame completely up.

8.1 - COOLING SYSTEM

Prepare the cooling by mixing the cutting oil and water (the tank holds about 40. litres) in proportion 1/10, 1/15 or according to the instructions of product supplier .Pour out the cooling in the tank - you can approach it by the rear side of the floor stand - or directly on the work table - pos.4/dr.RI01..-. In this case keep attention that the chip pan tank is correctly placed.

8.2 - ELECTRICAL CONNECTION

Verify that voltage and power frequency are compatible with numbers reported in the technical data plate (placed on the right side of the floor stand) difference over 10% causes some working unevenness more or less manifested. This operation must be made by authorized, operators (for ex. by an electrician). The pashing performed by the manufacturer allows to get a right rotation of all motors by connecting the wires in the following order L1=R, L2=S, L3=T, anyhow check as follows : (rightly close the coverband protections).

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INSTRUCTIONS FOR USE

a) If the EMERGENCY-... - button is on , press it off and turn it 1/4 of turning in the marked direction.

b) press the button ON of the main switch-pos.6/drawing RI01..-, placed on the column of the rear side of the machine; some leds of the control panel of the control are flashing-pos.7/drawing RI01 - and the display shows some numbers and/or figures.

c) be sure that the manometer of the hydraulic installation-pos.1/drawing RI0085, accessible from the door , shows a pressure of about 10/12 BAR.

d) if it does not happen in the first 10 seconds turnf off the machine by switching off the main switch and check the connection with the line .(Disconnect the feeding plug, reverse the connection of two of the wires of line connection, excluding the green / yellow cable of grounding and start again from point a).

e) Be sure that coolant is sucked in by the tank and arrives in the cutting area. (with the taps open, by pressing the button -pos.23/dr.RI0055- the recycling pump brings into action).

f) Stop the working by pressing the main switch-pos.6/dr.RI01..-.

8.3 - BAND TENSIONING

The machine is equipped with a tensioned band and the starting of the motor is impossible if right force of tension has not been opened up before. If it is not so:open the hinge of the cover band protection and remove it from the supports -pos.1/dr.RI0054 - to be sure that the band (" or blade ") is against the pulley and it is correctly put in the band guides head -pos.3/dr.RI0054-.

If necessary loosen a little the screw of the band stretcher-pos.4/dr.RI0054, to place again the band, then assemble again the protection guard by being sure that the safety stroke end -pos.3dr.RI01..- is rightly pressed.

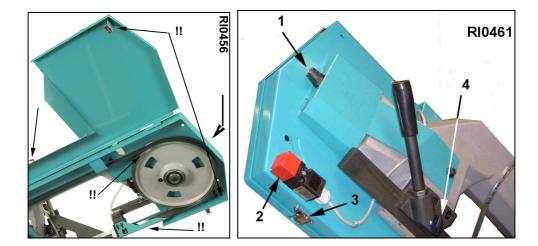
The drawing shows the operation without the cover band protection, to only better illustrate the working area. But it is not possible to work like this.

Press the main switch -pos.6/dr.RI01..-, wait for some seconds that the panel - drawing 7/RI01.. - stabilizes its workings, then press many times the pushbutton MODE -pos.10/dr.RI0055- until the LED light marked with the "band" symbol -pos.6/dr.RI0055- is on.

If the LED flashes, it means that the band is not tensioned : screw the frontal grub screw -pos.4/dr.RI0054by using the proper spanner-pos.5/dr.RI0054-, until the LED will be continuinghly flashing.

The procedure to change the blade after a change of pitch, wear and tear and break is the same one of the above described procedure .In this case it will be necessary a careful cleaning of all points of connection with the band.

In the following paragraph you will find the full controls list .





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INSTRUCTIONS FOR USE

9 - SYSTEM STARTING

By turning on the system, the display shows the release software code (example 3.5) during the loading of the set up data from the permanent memory "Eeprom". Then, for a time of about 2 seconds, it shows the identification code of the machine (for example 4.0, SIL, or something else).

For going on it is necessary to push the button - pos. 19 / dr. RIOO55 - (=CLOSE THE VICE) that activates the oil pump - in the hydraulic models - or that allows the flux of compressed air- in the hydropneumatic models-.

Please note that in some previous models the starting can be activated by pushing any other button. If you push other buttons the display shows the error message: ER0034.

If you do not push any other button within 10 minutes, the electronic control deactivates the oil pump - in hydralic models -, or it stops the compressed air - in the hydropneumatic models-. For starting up the system push again the button -pos..19/dr.RI0055- (=Close the vice) the display shows for an instant a series of led lights-.

After this operation the system is ready to work.

The led lights appearing on the keyboard show the operative functions of the machine.

Sometimes, after starting the machine or following to some "caused anomalies" (for ex. the blade is not tensioned during the moving), the keyboard shows diagnostic error codes. In that case, please, refer to the enclosed errors table (paragraph 9.3.2) for the identification of the kind of error.

Push any button to cancel such errors, after removing the anomaly.

9.1 - KEYBOARD / Description and use of the buttons - See drawing RI0055

Pushing the FEED-BACK buttons made with polyester support and IP65 protection, you can program all machine operations, including the positioning of the cutting unit :

BACKWARD (16): to remove the cutting unit from the workpiece up to the maximum programmed point. The led light shows that the tool is moving...

For automatic machine only, if you press it within the TEST button -pos.4/dr.RI0055- it move the feeder backward.

FORWARD (17): to move the cutting unit in the direction of the workpiece up to the minimum programmed point. The corresponding led light shows that the tool is moving. For automatic machine only, if you press it within the TEST button -pos.4/dr.RI0055- it move the feeder forward.

NEW - PROGRAMMATION OF THE CUTTING AREA

Thanks to the new device - position sensor - to detect automatically the start-cut point, the user doesn't have to set up the start-cut and end-cut points. The sawframe drops always quickly until the position sensor -1/RI0460 – touches the material, then the sawframe speed is automatically reduced to the one selected by the user. The end-cut position can be adjusted by means of the small rod – 4/RI0460 – of the end-stroke.

The movement of the sawframe is possible in four symbols:

HIGHEST SAWFRAME POSITION SET BY THE MANUFACTURER, corresponds to the highest point the sawframe can reach.

2- *START OF THE CUT automatic thanks to the position sensor -1/RI0460-.

3- *END OF THE CUT chosen by the user, by moving up or down the small rod which activates the correspondent end-stroke -4/RI0460-.

4- *LOWEST SAWFRAME POSITION* SET BY THE MANUFACTURER, corresponds to the lowest point the sawframe can reach

Usually the positions 1 and 4 – set by the manufacturer – correspond to 100% of the maximum cutting capacity allowed. In case of variations please contact the Technical Service.

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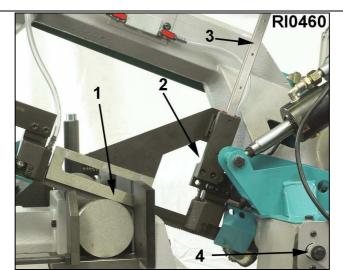
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INSTRUCTIONS FOR USE



OPEN VICE (18): push it to open the machine vice. The led light on indicates that the command has been set (ex. when the cycle starts by open vice, the vice will open again at the end of the working cycle).

For automatic machine only, if you press it within the TEST button -pos.4/dr.RI0055- it open the feeder vice **CLOSE VICE (19):** push it to close the machine vice. The same as for the open vice (see above).

For automatic machine only, if you press it within the TEST button -pos.4/dr.RI0055- it close the feeder vice

CYCLE START(20): it allows to start a semiautomatic cutting cycle (when the led light of the function F3 is not flashing - pos. 25 / dr. RI0055).

On request we can also programme the machine so that this button is not operative (for ex. by connecting the command to the pedal), in order to avoid unwanted startings (ask it to Service Assistance).

The corresponding led light indicates that the machine is working.

CYCLE STOP (21): it allows to stop the semiautomatic or automatic cutting cycle in each moment and to push other buttons of the manual commands.

FUNCTION 1 = F1 (26): If the led light is on, the returning stroke can be done with the tool in movement; if it is off with the tool stopped.

FUNCTION 2 = F2 (27): it allows only the slow cutting stroke, if the led light is on (short cycle); it allows the approaching + slow cutting stroke if the led light is off (normal cycle).

FUNCTION 3 = F3 (25): if led light is on, it stops the semiautomatic cutting cycle on the returning point (at the end of the cut).

TOOL SPEED -1 (11): by pushing this button when the machine is not working you can pre-select the lowest cutting speed (only for 2 speed machines); if pushed when the tool is in movement there is a speed decrease (only in machines with ESC). If the led is on, it means that the preselection has been made.

TOOL SPEED 0 (12): by pushing it when the machine is not working you can pre-select cutting speed 0. For safety the function is not operative when machine is working. The led light on indicates that pre-selection has been made.

TOOL SPEED+2 (13): by pushing it when the machine is not working you can pre-select the highest speed (only for 2 speed machines); if pushed when the tool is moving, it determins a speed increase (only in machines equipped with inverter = ESC). The led light on indicates that pre-selection has been made.

COOLANT ON IN SEMIAUTOMATIC CYCLE (24): by led light on the coolant pump is operative only in the semiautomatic cutting cycle.

It is better if the working cycle time is longer than 15 seconds.

COOLANT ON (23): by led light on, the coolant pump is always operative.

Use only if the working cycle time is shorter than 15 seconds.

If the machine is not working you can use the cleaning gun by pushing this button.

COOLANT OFF (22): by led light on, the coolant pump is always off, for example by dry cuttings or by setting up the machine.

TEST (4) = Special functions for diagnostic

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INSTRUCTIONS FOR USE

MODE (10) = Special functions for programming

The buttons on the right side (14 and 15) were used to memorize the cutting area on older versions of this saw.

9.2 - SETTING OF THE CUTTING LIMITS

Thanks to the new device which automatically detects the material, no memorization of the start and end-cut points is required: the sawframe drops always quickly until the "position sensor" - 1/RI0465 - touches the material, then it slows down and continues to lower according to the speed chosen by the user. The end-cut point can be easily adjusted by moving the small rod – 3/RI0465 – of the end-stroke.

9.3.1 - INFORMATION ON DISPLAY /1 = functioning parameters

The key MODE (10) allows to display a series of data concerning the functioning of the machine. If you push this button for an instant, a led light, corresponding to one of the five parameters of the machine, lights on and you can read automatically on the display a value. If you push again MODE the following led lights, corresponding to the other paramets, light on clockwise. The parameters are the following:

MACHINE CYCLE TIME = by led light (5) on. The display is in seconds "S" (more often), in minutes "n" or in hours " ". Please note that the indicator adapts itself automatically to the passed time.

FUNCTIONING TIME OF THE MOTOR BLADE = by led light (6) on. Display as in "MACHINE CYCLE TIME". The usual case is " " (on hours).

For band sawing machines this led light flashing indicates that there is a wrong or insufficient tension of the band.

NUMBER OF CUT PIECES = by led light (7) on. Progressive display of numbers from 1 to 9999, and following appearance of the points next to the numbers, that is from 1. to 9.9.9.9.

CUTTING SPEED PREVIOUSLY SET = by led light (8) on. In meters/minutes for bands (optional in feet/minutes); in r.p.m. for circular blades and discs.

ELECTRICAL ABSORPTION = by led light (9) on. Maximum current load in Ampere pointed out in each cutting cycle.

Each one of these parameters can be zero-set by pushing the keys TEST + MODE together for about 2 seconds, while the corresponding light is on.

The display (2) indicates constantly the electric motor absorption in Ampere, and by reading it together with the display (3), you can get ERROR MESSAGES.

9.3.2. - INFORMATION ON DISPLAY / 2 = Errors table (SELF-DIAGNOSTICS) The machine is equipped with self-diagnostics function, that allows to find out the working anomalies of the machine and to inform the worker giving the code numbersindicated here below (the ones printed in bold type are the most frequent):

DISPLAY ANOMALIES

ER0001 error in the configuration EEPROM ER0002 error in the data checksum in EEPROM 1 1st. block ER0003 error in the data checksum in EEPROM 2 2nd. block 3rd. block ER0004 error in the data checksum in EEPROM 3 ER0005 error in the saved data in the permanent memory ER0020 emergency active (emergency pushed?) ER0021 motor overload protections (overheated motor?) ER0022 open carter ER0023 broken band ER0024 FREE ER0025 blocked inverter (motor under stress?) ER0026 too high motor absorption

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INSTRUCTIONS FOR USE

ER0027 not correct position of the tool for starting the cutting cycle (blade locked in the workpiece?) ER0028 vice pressure problem (vice too open/oil pressure?)

ER0029 blade unblocking -for SIRIO models only-

ER0030 bar end - in automatic cycle - (end of the material?)

ER0031 carriage not in correct position - for starting the automatic cycle -

ER0032 feeder vice (vice too open/closed?)

ER0033 piece counter selection on 0 (for automatic cycle)

ER0034 OIL PUMP DEACTIVATED - for hydraulic models - or DISCONNECTED AIR - for hydropneumatic models

ER9999 overflow in the machine timer (it is necessary to switch the system off and then on).

Remove the causes of the anomaly and push any other key to cancel the display code.

9.3.3. - SPECIAL FUNCTIONS of the key MODE (for qualified technicians or assistance staff only)

If you keep pushed the button MODE (10) for more than 3 seconds, you can enter a diagnostics menu used for the technical assistance.

In this function all LED lights corresponding to the key MODE are on.

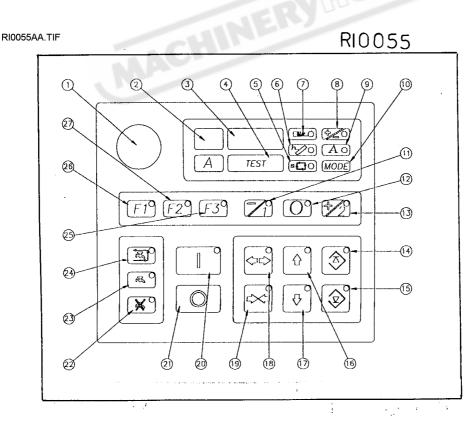
If you want to get out from this situation you have to push again the button MODE for 3 seconds.

The parameters consultation is always made by pushing for an instant the button MODE; the display shows:

P1 - historical piece counter of the machine

P2 - hour counter of the band motor functioning

9.3.4. - SPECIAL FUNCTIONS of the key TEST (for qualified technicians or assistance staff only) If you push the key TEST (10) together with the button COOLANT ON (23) you can enter a menu used by the technical assistance (the display shows: IN, DAC, .., and so on in case you push any bottons). If you want to get out you can switch the machine off and then on, or you can push again TEST + COOLANT ON.



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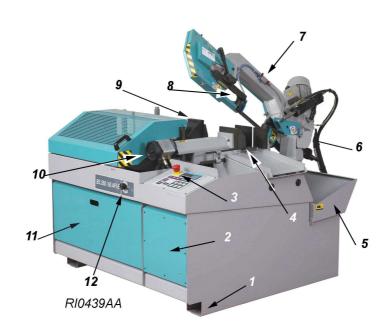
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INSTRUCTIONS FOR USE



9.4 - CONTROL DESCRIPTION - .

- Main switch with magnetic and thermic protection. It can be locked and is equipped with device to protect it against power failures.

- Emergency button: it stops all drivers pos.14/RI0439 to restore them rotate the button to the right
- Control panel with display pos.3/RI0439 (see paragraph KEYBOARD)

Other drivers are located in easily accessible positions:

- hydraulic device to adjust the down-feed speed pos.12/RI0439
- device to adjust the general pressure pos.1/RI0426
- manual opening/closing of the frontal vice pos.10/RI0439

- unlocking of the worktable rotation for miter cutting - pos.6/RI0439, located on the right side of the turning table

- taps of the coolant system pos.7/RI0439
- locking/unlocking of the mobile forward blade guide pos.8/RI0439
- lever and wheel to adjust the cutting length pos. 2,4/RI0442
- locking of the feeder vice pos.5/RI0442

9.5 - SEMIAUTOMATIC CUTTING SETTING

The original band allows to cut different sections of material, thanks to the variable pitch toothing (alternate little teeth with big teeth), but it is necessary to have the most suitable band for the piece to cut, to get the best machine performance. So we recommend to read the paragraph BAND CHOICE - for a right use.

Place the material in the vice, leaving 2-3 mm between it and the jaws, necessary for the automatic closing of the vice. The bar has to be behind the cutting line. Unlock the emergency button if it's been pushed -/RI0464turn on the hydraulic unit motor by pushing the button CLOSE VICES - pos.19/RI0055 - and push it a second time to close the vice.

Verify that the bar is properly clamped by the jaws and that the clamping pressure is suited – it doesn't have to cause a deformation of the material.

The vertical roller – pos. 11/RI0442 – has to be moved close to the bar to help the feeding.

During the semiautomatic cycle, the feeder covering can be open or closed, since the safety endstroke is not active.

Lock the small screw - 2/RI0468 - located over the main screw, in order to prevent the vice from opening while the saw is running. Position the forward blade guide – 8/RO0464 – so that it doesn't collide with the bar or the jaws when the sawframe drops.

9.6 - SEMIAUTOMATIC CYCLE

Place the material so it goes over the cutting line, then lock it, select the motor speed, the working, the coolant delivery and start the cycle with the button START CYCLE- pos.20/dr.RI0055. Adjust the coolant flow

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INSTRUCTIONS FOR USE

that reaches the band and after the rapid approaching start the descent by planning the speed with the control(8).

At the cutting end the band goes up again and the semiautomatic cycle finishes. If the pushbutton F3 ils lighing, the saw frame and the blade stops at the end of thew cut.

9.7 - ESC (Electronic Speed Control - if it is installed)

As the motor is running, increase or decrease the speed by pushing the button (+/2) - pos.13/RI0055 - or (-/1)- pos.11/RI0055 - on the display you can read the current speed.

In case the maximum power supply threshold is exceeded - for example, because of an excessive cutting pressure or because the blade remains stuck into the material - the Inverter stops the motor and the error message "Er0025" appears on the display. To restore it, the main switch has to be turned to 0 (OFF), wait for about one minute and then turn it on I (ON).

In the meantime, try to find out the reason that caused the interruption and eliminate it.

9.8 - LOCKING / EMERGENCY LOCKING

It is possible to lock the cycle in any moment :

a - by the button STOP CYCLE-pos.21/dr.RI0055 the machine stops immediately, but there is also the possibility to use the other controls, for instance to change the cycle type or the blade speed);

b - by the emergency button.. the cycle stops immediately and it is not possible to push other controls before restoring it.

c - by the main switch - the energy of the machine is off.

d - by opening the cover blade, a safety stroke end stops the control circuit by causing the movements locking.

e - in case of electric energy interruption the main sectionalising switch- goes to 0 position and it is necessary to reset it to start the machine again.

9.9 - HEAD ROTATION FOR OBLIQUE CUTTING

In order to perform cuts between 0° and 60° in auto matic cycle unlock the lever placed on the side of the worktable, manually rotate the sawframe until reaching the required angle on the graduated scale, then lock again the lever. Easy stops at 0° and 45°.

The cut with automatic feeding has to take place in the cutting range from 0° to 45° left; beyond 45° the vice can collide with the sawframe. When changing angles there shouldn't be any materials clamped by the vice and/or on the worktable.

The sawframe can rotate up to 60° only if:

- a) the device for easy stop at 45° is removed
- the back blade guide is moved backwards all the way (by loosening the screws and positioning it b) where the back holes are)

it is highly recommended to bring the blade guide back to the original position when finishing cutting at 60°, in order to avoid stressing the blade uselessly

-9.10 - AUTOMATIC CUTTING SETTING

In order to carry out an automatic cutting cycle the feeder stroke has to be set. Proceed as follows: Position the feeder jaw – pos. 1/RI0466 – about 2-3 mm far from the material, and make sure its cylinder is opened by pushing simultaneously the buttons 4 and 18/RI0055. Lock with the upper handle – pos.2/RI0466.

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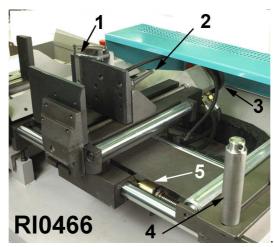
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INSTRUCTIONS FOR USE



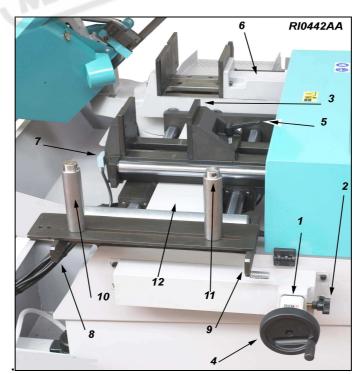
Setting up the feeder stroke: unlock the lateral wheel – 2/RI0442 – then rotate it – pos. 4/RI0442 – to set up the correct cutting length, which can be any between 4 and 515 mm, with single stroke. Each complete turn of the wheel corresponds to a 5-mm shift, making also very easy the adjustment of the decimal values. After reaching the desired cutting length, lock the wheel - 2/RI0442. In order to compensate possible plays on the transmission, reach the correct cutting length by rotating the wheel clock-wise.

Note: when setting up the correct feeder stroke, the breadth of the cut caused by the blade – about 1.5 mm with the original blade – has to be taken into account and added to the cutting length. In case more than one feeder strokes (selection by means of the keyboard) are required, you must divide it by the number of strokes to get the correct length to set up.

Scrap = 1.5 mm; Example: cutting length required = 1500 mm; Feeder strokes = 3; 1500 + 1.5 = 1501.5;1501.5 : 3 = 500.5 = Correct cutting length to set up

After making the first cut, you can check the actual length of the material cut and possibly make an adjustment by means of the wheel.

It's recommended to always verify the actual length of the first cuts carried out. When changing the blade, make a few cuts in order to check the breadth of the cut.



15.11- AUTOMATIC CYCLE

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INSTRUCTIONS FOR USE

Setting up the cutting length is the only step which can't be made by using the control panel, all other operations can be programmed thanks to the keyboard. – picture RI0055. Choose the blade speed using the buttons (-1) and (+2) – Pos. 11,13/RI0055) and the blade working modality which can be:

F1 on = the blade runs while the material is forwarded (recommended when the cutting very short lengths): push the button F1 - 26/R10055 - to turn on the corresponding led.

F2 off = the blade stops while the material is forwarded (recommended when cutting longer cutting lengths – it allows to get a longer blade life): push the button F1 - 26/R10055 - to turn off the corresponding led.

Set up the saw for the automatic cycle, by pushing at the same time the buttons TEST (4/RI0055) and F3 (25/RI0055). The led by the button F3 flashes when the machine is in automatic mode. To go back to the semiautomatic cycle, use the same combination of buttons until the same led doesn't flash anymore.

*Select the number of cuts to make: while pushing F2 (27/RI0055), push repeatedly the buttons 13,14/RI0055 to increase or 11,15/RI0055 to reduce such number, which appears on the display – from 1 up to 9999. When releasing F2, the number is memorized.

*Select the feeder strokes: while pushing F1 (26/RI0055), push repeatedly the buttons 13,14/RI0055 to increase or 11,15/RI0055 to reduce the number, which appears on the display – from 1 up to 29. When releasing F1, the number is memorized.

*Reset the piece counter: while pushing F3 (25/RI0055), push the button 12/RI0055. When releasing it, the piece counter is set to zero.

* Push the Start button I (20/RI0055): the feeder moves to the required position, both vices close, the led by the button I (20/RI0055) flashes, signaling that the automatic cycle can begin (STAND-BY).

* The automatic cycle starts by pushing again the button I (20/RI0055). The electronic driver makes a self-checking, and in case the aforementioned operations have not been properly carried out the cycle does not begin and an error message appears on the display. The reason of the problem has to be removed to start the automatic cycle.



DURING THE AUTOMATIC CUTTING CYCLE THE PRESENCE OF THE USER IS NOT REQUIRED AND CAN BE LIMITED TO OVERSEEING THE WHOLE PROCESS.

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INSTRUCTIONS FOR USE

Note: after finishing the cutting cycle the saw stops, waiting for the piece counter to be set to zero again or for a new cycle to start, without leaving the automatic modality. On the display the message EP appears.

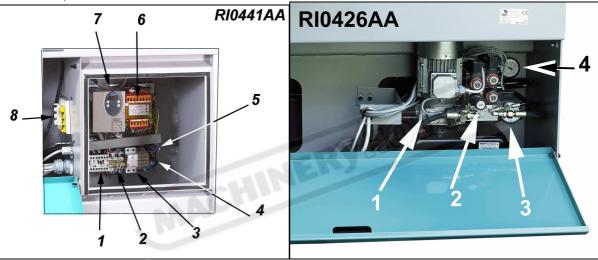
* When a bar ends, the saw stops waiting for a new one to be loaded, and it goes back to the semiautomatic mode.

After removing what is left of the bar, place a new one on the feeder, just a few millimeters beyond the cutting line. Set up the saw for the automatic cycle again by means of the buttons TEST+F3 - (4) + (25) -and, without resetting the piece counter, start the cycle again by pushing the button I (20/RI0055) twice.

* During the automatic cycle - F3 flashing - the buttons 22,23,24 (coolant), 11,13 (blade speed), 10 (information on the cycle) are active and can be used. Moreover, by pushing F1, F2 and F3, the feeder strokes, number of cuts to make and piece counter can respectively be shown on the display.

15.12 - PROTECTION AGAINST OVERLOADS

The motor is protected against overheating by means of bimetallic thermo-protectors which stop all drivers. If this happens, the error message ER0021 appears on the display. After the temperature has dropped below the overheating threshold, the cycle has to be started again. In the meantime, try to find out the reasons which led to the overheating - i.e. excessive cutting pressure, blade entrapped into the material, lack of oil in the reducer, short-circuit and so on.





16 - ADJUSTMENTS for BS 300/60 AFI-E

(to carry out when the machine is disconnected, except for the operations described in the paragraphs 16.3, 16.4, 16.5,

16.1 - VICE Adjustment of the guides play (NOTE that the hydraulic vice driver must be in the 'open' position): when the vice is almost completely open, make the lower opening - which can be seen below the vice - coincide with the plate that is screwed inside the sliding part - 7/RI0442. Tighten slightly the two lateral screws by means of an hexagonal wrench. Check if the adjustment is correct by closing and opening the vice. If the sliding is difficult, tighten strongly the central screw to increase the play.

16.2 - Blade - Carbide metal pad adjustment according to blade thickness : drawing RI0372

This adjustment must be done when you have a blade with thickness other than 0.9 mm or in case the hard metal pads are worn out. The easiest test is the following: put a blade in the guides and move it back and forth to evaluate the mechanical play. Depending on the result, proceed as follows: loosen slightly one screw - 1/RI0372 - to make more room for the blade (or tighten it to get the pads closer).

put the blade inside a guide and, while pressing manually the two parts one against each other, tighten strongly the two aforementioned screws.

Check that the mechanical play is not excessive (Max. 0.02 or 0.03 mm) and make sure that both screws -2/RI0372 - are properly tightened.

The lateral pads are mechanically fixed and each can be replaced without removing the whole blade guide, just by loosening completely the two screws – 2/RI0372. By removing both lateral pads, the special upper pad which is in contact with the blade can be removed.

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INSTRUCTIONS FOR USE

16.3 - Blade - Check the perpendicularity between blade and worktable: this is very important and, along with the blade tension, it assures straight cuts. Check it the following way: with the sawframe up and at 0° and the vice completely open, put a square at 90° on the worktable (close to the supporting jaws) and very close to the blade.

While keeping the square still, lower the sawframe until reaching the end-cut point and evaluate if the blade gets closer to it or farther. Lift the sawframe, move the square towards the operator so that the blade is close to the higher extremity of the square, then lower the sawframe again until reaching the end-cut point while always keeping the square still.

Usually this test allows to single out geometrical errors, but it is even more important in order to ensure that, in case of not perfectly perpendicular cuts, the reason is not linked with factors external to the machine (for example, blade in a bad condition, wrong tension, wrong tooth pitch, excessive pressure during the cut).

16.4 - GENERAL PRESSURE

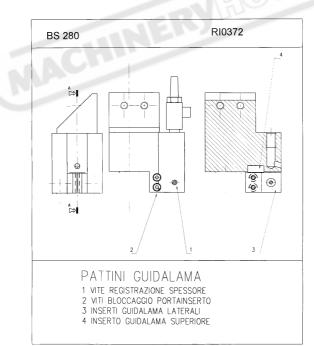
The general pressure is produced by an hydraulic unit - picture RI0426 - comprised of: manometer (pos. 4, when working it shows about 16/18 BAR), the vice valve (pos. 3), the sawframe valve (pos. 2), the feeder vice valve (pos. 4), the feeder vice (pos. 5), the pump/filter/valve for maximum pressure (pos. 1), the motor (pos. 6), and the oil tank (pos.8).

The general pressure can be adjusted by means of the cartridge valve (pos. 5), which is equipped with a locking nut. Never go beyond 20 BAR.

On this hydraulic machines a modular valve can be assembled to reduce the vice clamping pressure, which can be helpful when cutting material that may deform.

16.5 - CUTTING SPEED

Rotate the handle - 12/RI0439 - from 0 to the maximum level to increase the down-feed speed: any variations should be made considering the type, shape and size of the material, the blade speed and life, the coolant, and so on.



17 – MAINTENANCE – for the user

Regularly carry out maintenance operations as described below to maintain unchanged the machine safety devices and technical features of the saw.

BLADE REPLACEMENT: This is the most frequent maintenance operation, due to the natural deterioration of the blade; it is essential to replace it correctly and safely. With the sawframe up and at 0°, power off: Open the blade guard and fix it to the upper hook, remove the backward and forward protection, loosen the blade tension device by means of the front screw. Remove first the blade from the pulleys, then from the blade guides, using protective gloves while carrying out these operations.

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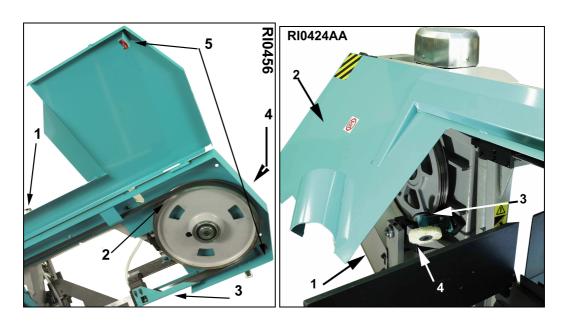
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INSTRUCTIONS FOR USE



Make sure that there are no chips or dirt on the pulleys, and following the cutting direction, shown also by an arrow, put the new blade in the guides **without removing the plastic protection**, and then on the pulleys. The upper supports prevent the blade from falling. Tighten the tension-adjusting screw and make sure the blade is correctly placed on the pulleys. **Remove the plastic protection**, then assemble the blade guard and the front mobile protections.

17.1 PERIODICAL MAINTENANCE

To be carried out **DAILY** or more often if the machine is doing a heavy job. Remove the chips from the machine conveying the smallest ones into the chip tray – 5/RI0439. Remove and empty the chip tray; add coolant if necessary; check the wear of the saw blade and replace it if necessary; check the blade brush and the transmission ring – 3/RI0424 - and possibly adjust or replace it.

Clean the machine **WEEKLY**, lubricate all joints and surfaces in contact with oil or grease. Make sure that there is oil in the hydraulic unit tank - 8/RI0138 - while the saw is off. Check the oil level in the gearbox by means of the proper stick - 4/RI0051.

Replace the coolant **MONTHLY** and clean the tank. Ensure that all screws and bolts since they may have loosened. Make sure that stroke-ends and switches work properly; check the leads, tubes and hydro-pneumatic connections; make sure that seldom-used devices work properly. Check the two blade guides and the hard metal pads inside, adjust and possibly replace them (drawing RI0372).

Once a **YEAR -** or after 2000 working hours - replace the oil in the gearbox, as shown in the chapter MACHINE RUN IN.

18 - BAND RUNNING-IN

For granting a better machine efficiency and a longer blade life it is really necessary a good runningin of the machine.

For the first works of each band we recommend to reduce the penetration speed of the blade in the workpiece until half of the normal value - about $40/50 \text{ cm}^2 / \text{min.-}$ and keep the blade rotation speed constant. Only after cutting 250/350 cm² of the material it is possible to increase the penetration speed till reaching the normal value.

The working conditions can be also valued by considering the chips produced during the cutting; you can find 3 kinds of chips:

THIN OR POWDERED CHIPS indicate poor advancing pressure and / or low speed, too little teeth.

BIG CHIPS - MAYBE BLUE / BROWN indicate overload on the blade, poor lubricating.

SPIRAL AND RIGHT ENVELOPPED CHIPS indicate the ideal cutting conditions.

For a right use see the paragraph CHOICE OF THE BAND.

19 - MACHINE RUN-IN

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INSTRUCTIONS FOR USE

The maintenance required by this machine is essential to guarantee the continuous correct working over the course of time and keep the saw in an efficient condition. When you start to use the machine you must do some extra operations to allow all parts of the machine to settle down to the working conditions.

Please check frequently the working of the machine and avoid to force it to make too many cuts. For a time of 80/100 working hours control the heating of the gear reducer and of the electric motor

Then take away the oil (better if it is warm) by taking out the lower plug placed between the reducer head and the blade cover and drain it completely. Plug it up again and put into some gas oil for cleaing it inside. Let the motor idling for some seconds, take out the cleaning gas oil, and put into the new oil, about 2 litres, till reaching the usual level.

N.B. The presence of bronze or ferrous particles in the replaced oil is normal. The heating of the mechanical parts (and of the oleodynamic parts for semautomatic / automatic machines) is normal during the usual working and anyway it does not exceed the foreseen thermic limits.

For the semiautomatic versions control also the oil level in the tank of the hydraulic unit (see parapraph 11). Control also the oil level in the tank of the hydraulic unit as described in Maintenance for the user).

N.B.. The heating of the mechanical parts (and of the oil-hydraulic parts for semiautomatic saws) is normal during the usual working and anyway it does not exceed the conventional thermic limits.

Please see the OIL AND LUBRICANTS TABLE in order to choose the most suitable one and to compare the different types (see drawing RI0108).



20 - DRAINING OF USED / PRODUCED SUBSTANCES

U Please remember to abide by the current Law Norms concerning the draining of:

- materials used by the machine (for example hydraulic circuit oil, reduction gear oil, oil for installations of lubrication and so on);

- scrap materials or materials not usable anymore (for example ferrous and not ferrous chips, tools like blades and so on);

- substances used for cleaning and maintenance;

- materials used in some instances of the machine life (for example when packing, shipping and so on).



21 - DEFECTS IDENTIFICATION

The solution of most inconvenients that could happen during the working can be found by consulting this paragraph.

The first part concerns the machine working and includes a list of the possible defects with respective controls that must be made; the second part concerns the inconvenients that can be found by checking the blade and / or the cut pieces.

If your problem is not included in the forseen ones or you need the presence of qualified technicians, please get in touch with the manufacturer or the reseller by keeping in evidence this instruction book .

12.1 - DEFECTS CAUSED BY THE MACHINE

Inconvenients	Check
A* The band electric motor does not work B* The hydraulic circuit motor does not work C* The electronical/electric panel does not D* No enough pressure in the hydraulic c E* The pump of the hydraulic unit is noisy F* The coolant is not sufficient G* The workpiece moves or deformes	ork 1-2-3-4-5-9-17 ot light on 6-7-8-9 ircuit 10-11-12-13
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INSTRUCTIONS FOR USE H* The cycle don't start LIST OF THE PARTS THAT MUST BE CONTROLLED 1 = Plug is right inserted in the socket 2 = Main switch 3 = The motor is burnt or demaged 4 = Electric supply is not right 5 = Transmission blocked between blade and blade arbor 6 = Fuses on the primary of the transformer 7 = Fuses on the secondary of the transformer 8 = Transformer demaged or burnt 9 = Connection of the supply cables 10 = Oil level in the tank of the hydraulic unit 11 = Loss from pipes and/or connections 12 = The adjustments screw of the maximum pressure valveis loosened 13 = the maximum pressure valveis broken 14 = Quality of the hydraulic oil (consumed, too much liquid) 15 = There is some water in the oil and / or there is some condensate in the tank 16 = Too high circuit pressure (over 20 BAR) 17 = The hydraulic pump locked (seizure, expansion, oxidation) 18 = The circuit taps are closed 19 = The cooling filters are obstructed or must be cleaned 20 = The electropump does not work (see 3-4-5-9-24) 21 = The tank is empty or dirty 22 = Excesive cutting feed 23 = The vice is not closed enough (or is too closed), the piece is not rightly clamped 24 = The control LUBRICANT OFF is active (pos. 22 / dr. RI0055 for models SH-E, SHI-E) 12.2 - DEFECTS OF THE BAND / CAUSES / SOLUTIONS In case of broken teeth, broken blades or short blade life, lay down the broken band on the floor and check the body and teeth defects; look for them in the following table and read the solution of the cutting problem . 1. PREMATURE AND EXCESSIVE TEETH WEAR AND TEAR - thrust pressure to short: increase it; reduce the band wheel speed; - cooling jet too short; - improper cooling emulsion; - uncorrect toothing: use a band with a thicker toothing: - improper band-running-in; - the teeth move towards the opposite cutting direction; turn the band. 2. BAND VIBRATION - Increase or reduce the band speed - dull vibration: incresae the band tension; - too big teeth for the piece that must be cut; - the vibration reverberates in the base; reduce the cutting pressure; - the vibration could be dued to the high frequency: increase the speed of the saw frame lowering; - the material is not rightly locked; - use a viariable pitch or a positive toothing. **3. BROKEN TEETH** - Too big teeth for the section that must be cut; - the material is not perfectly locked; - improper coolant; - inadequate coolant;

- cutting pressure too high: control the chip;
- too low band wheel speed;

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- the grooves are full of cut material.

4. CUTTING SURFACE TOO ROUGH

- Choose a thinner pitch;

INSTRUCTIONS FOR USE

- increase the band wheel speed;
- reduce the head lowering;
- measure better the coolant.

5. PREMATURE BAND BREAKAGE

- Too hugh band thickness for the diameter of the band wheel;
- band guides too open with high speed;
- oncrease or reduce the speed;
- check if the band wheels are defective;
- too big toothing;
- band tension too high; the lying down band rises on the side;
- saw frame lowering too strong: the band back is polish and upset;
- The thrust bearings are not aligned with the band wheels: the lying band curves and the band back is polish and upset;
- the band guides are too tight: the lying band spiralles up as a spring; the more the teeth are tight, the more the

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- band twists:
- short coolant.

6. BENT CUTS

- Increase the band tension;
- approach the band guides to the cutting unit;
- the teeth are too thin;
- reduce the cutting pressure.

7. THE CUT IS NOT RIGHT

- Approach the band guides to the cutting unit;
- check if the cutting piece is rightly horizonataly placed on the support table;
- control the band perpendicularity: if it is out of perpendicularity, work on the band guides;
- toothing too thick;
- the teeth are broken or variegated;
- increase the cutting speed.

8. BAND NOISE ON THE THRUST BEARINGS

- Burr or adjust the band back:
- check the band wheel alignement;
- check the thrust bearing wear and tear;
- the welding is not perfect.

9. THE BAND CURVES POSITIVELY

- Reduce the cutting pressure;
- use bigger teeth for increasing the penetration;
- approach the band guides to the cutting unit.

10. THE BAND CURVES NEGATIVELY

- The band back strains against the upper thrust bearing band guides; check if the space between the band back

- and the band wheel rim is always the same by band in movement and band stopped;
- check the alignement of the band wheels.

11. SLOW CUTTING, THIN CHIPS

- Increase the bend wheels speed;
- increase the cutting pressure;
- use bigger teeth;

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- use a proper coolant.

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	12. PREMATURE LOSS OF THE SIDE SETTING	
	- Reduce the bad wheels speed;	
	- increase the distribution of the coolant.	
	13. THE BAND WARPS AS A SPRING	
	- Reduce the cutting pressure;	
	- reduce the band tension;	
	- excessive pressure on the hand quides: adjust it:	
	- AYPASSIVA DIASSIIIA OD IDA DADO OUDAS "ADUSTI"	

- excessive pressure on the band guides: adjust it;
- approach the bad guides to the cutting unit.

14. THE CHIP WELDS TO THE TOOTH / CHIPS ARE TOO BIG

- Reduce the cutting pressure
- use proper coolant and in a good quantity;
- check the wear and tear of the burst used for clening the chips from the grooves.

15. THE BAND IS SIGNED OR SCRATCHED ON ONE SIDE

- Check the wear and tera of band pads;
- the pads press too much against the band back;
- check the alignement and the perpendicularity of the band guides.

16. BURR OR SWANGING ON THE BAND BACK

- Increase the tension and adjust the band guides;
- check the pressure and the alignement of the thrust bearings on the band back;
- reduce the cutting pressure;
- use a bigger toothing.

17. THE CUT PIECE HAS BLACK DIRT

- The band back touches the lip angle and becomes dirty;
- if the dirt is on the left side: the left band guide is out of axle;
- if the dirt is on the right side: the right band guide is out of square;
 - the dirt is on the complete cutting line: the band guides are out of square, or: the pressure is too high; the band tension is too low; teeth are too thick and cannot set free from the dirt; the used coolant is wrong



22 - MACHINE DEMOLITION

This paragraph may give some informations about the macrooperations of machine disassembly for its scrapping.

Special procedures are not required but it is necessary to take only some cares to avoid damages in the last phase of the machine life.

Generally: you must empty the cooling installation tank, take out the oil from the reduction box, from the hydraulic or hydropneumatic installation.

Lock the parts that could move and cause danger or instability.

Remove the parts assigned to the differentiated draining, for example the printed circuit, display

stations, programming keyboards, buffer batteries and so on, especially the ones which shows the picture



..In these cases, in relation with the WEEE/AEEE Regulations, ask to the supplier to know the right process, that depends by the machine size and purpose.

- SPARE PARTS

The choice of the required spare parts is aided by the included drawings that allow, together with the working schemes, to know better the machine.

It is necessary to inform the TECHNICAL SERVICE about the following data:

- the serial number indicated on the identification plate
- model, version, type

INSTRUCTIONS FOR USE

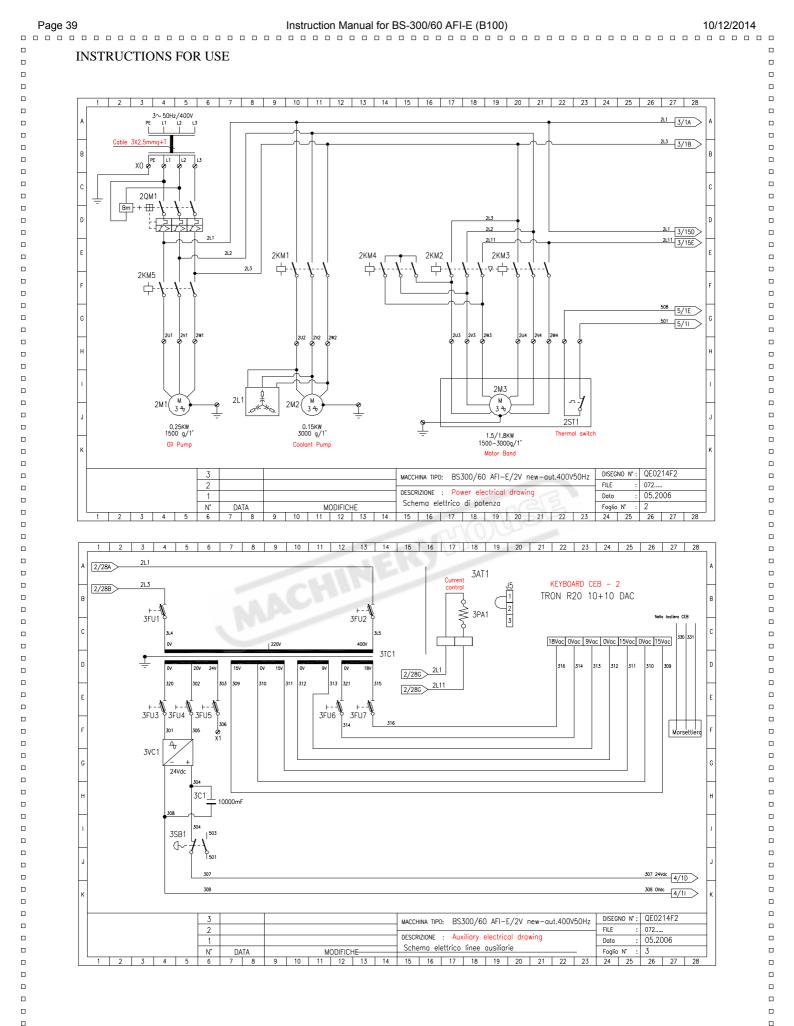
- voltage and power frequency
- code number of the spare-parts
- requested quality
- eventually the fittings settled later too.

17.2 OILS AND LUBRICANTS (Comparation table marked RI0108):

RI0108	#	1	#2	2	#3			
GEBRAUCH	GETRIEE	3E	HYDRAULIS	CHER KREIS	PNEUM. KREIS	SCHMIERE	KUEHLM	(ITTEL
UTILISATION	ROUAGES DE	LA TÊTE	CIRCUITS HY	/DRAULIQUES	CIRCUITS PNEUMATIQUES	GRAISSES	RÉFRIGÉRATIC	n de la laMe
USE	GEAR H	IEAD	HYDRAUL	LIC PLANT	PNEUMATIC PLANT	GREASE	COO	LANT
USO	ROTISMI	TESTA	CIRCUITI	IDRAULICI	CIRC. PNEUMATICI	GRASSI	REFRIGERA	ZIONE LAMA
	BS 280 BS 350	IDEAL PERFECT SIRIO RECORD	BS280 SH SIRIO VELOX	BS280 SHI/SHIE VTF500 BS350 XT360 XT410			STAHL ACIER STEEL ACCIAIO	ALUMINIUM ALUMINIUM ALUMINIUM ALUUMINIO
AGIP	BLASIA 100	BLASIA 220	OSO 15	OSO 46	ASP 3/C	GR MU 2	OXALIS 250	ULEX 100
BP BRIT. PETROL.	(SAE 80-GL4) (150 cSt.)	ENERGOL GR-XP 220	ENERGOL HLP 15	ENERGOL HPL 46	ENERGOL HLP 32	ENERGREASE L2		
CASTROL	ALPHA SP100	ALPHA SP220	HISPIN AWS15	HISPIN AWS46	HYSPIN AWS 32	SPHEEROL APT2	SUPEREDGE 4	SUPEREDEGE 4
CHEVRON	NL GEAR COMPOUND 100	NL GEAR COMPOUND 220	EP HYDRAULIC OIL 15	EP HYDRAULIC OIL 46	VISTAC OIL 68	DURA LIGHT GREASE 2	EP SOLUBLE	
(ESSO) ESSO	SPARTAN EP 100	SPARTAN EP 220	NUTO H15	NUTO H46	NUTO H32	BEACON 2	KUTWELL 40	
FINA	GIRAN 100	GIRAN 220	HYDRAN 15	HYDRAN 46	PURFIROK EP 32	MARSON EPL 2	PURFISOL PURFISOL LAM	PURFISOL IT4/018
SHELL	OMALA OIL 100	OMALA OIL 220	TELLUS OIL 15	TELLUS OIL 46	TELLUS OIL S 32	ALVANIA GREASE R2	DROMUS OIL F	
TOTAL	CARTER EP 100	CARTER EP 220	AZOLLA ZS 15	AZOLLA ZS 46	PNEUMA 46	NYCTEA 2	LACTUCA EP	LACTUCA EP
TEXACO	MEROPA 100	MEROPA 220	RANDO OIL HD 15	RANDO OIL HD46		Multifac EP 2		
Vonguord	GEARING EP 100	GEARING EP 220	HYDRAULIC 15	HYDRAULIC 46	KOMOL SRV 32	LIKO 2	VANSIN 80 EP	VANSIN 80 EP
SINOL	SINTREX EP 100	SINTREX EP 220	SINOLUBE	SINOLUBE		BEARING EP 2	SINOL BIO 90	
ITAL. PETROLI	MELLANA OIL 100	MELLANA OIL 220	HIDRUS OIL 15	HIDRUS OIL	BANTIA OIL R 32	ATHESIA GREASE 2	utens Fluid f	utens Fluid f
CINCINNATI							CIMPERIAL C 60	CIMCOOL
ISO – UNI CLASS.	CC100	CC220	HM15	HM32	FD32	XM2		

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						il, they can study this		
					io not nave	to modify any parts of t	ins equipment, si	nce by
			ARATI	ON OF CON	FORMIITY V			
				ON OF CON	FORMIITY V	vould lose its validity.		
						vould lose its validity.	22 23 24 25 26 27	28
	1 2				FORMIITY V	vould lose its validity.	22 23 24 25 26 27	28
	1 2					vould lose its validity.	22 23 24 25 26 27	28 A
A	1 2	2 3 4 5	6 7			vould lose its validity.		28 A B
A	1 2		6 7 NS	8 9 10	11 12 13 14	vould lose its validity.		28 A B
A B C	1] 2 AT	2 3 4 5 DEVICE DESIGNATIO Main control	6 7 NS	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number	DUCTORS	28 A B C
A B C	1 2	2 3 4 5 DEVICE DESIGNATIO	6 7 NS	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num	DUCTORS	28 A B C
A B C D	1 2 AT B C FU	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block	<u>6</u> 7		11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC	DUCTORS	28 A B C D
A B C	1 2 AT B C FU KM HL	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master reli Pilot light	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CDE TO INITIALLING FOR ELECTRIC (A B C) A = page's number	DUCTORS	28 A B C D
A B C D	1 2 AT B C FU KM	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master rel	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C)	DUCTORS	28 A B C C D E
A B C D	AT B C FU KM HL L M PA	2 3 4 5 DEVICE DESIGNATIO Proximity switch Capacitor Fuse block Control moster rel- Pilot light Filter suppressor Motor Ampermeter	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number	DUCTORS Inber C EQUIPMENT	28 A B C D E
A B C D F	AT B C FU KM HL L M	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse black Control master rel Pilot light Filter suppressor Motor	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CDE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A - B)	DUCTORS Inber C EQUIPMENT	28 A B C C D E F
A B C F	AT B C FU KM HL L M PA QM RP SA	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master rele Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CDE TO INITIALLING FOR ELECTRIC (A B C) A= = page's number CODE TO LOCATE OF RELAY CONTA (A B) A = = page's number	DUCTORS Inber C EQUIPMENT	28 A B C C D F
A B C D F G	T 2 AT B C FU KM HL L M PA QM RP SB SQ	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse Fuse block Control moster Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector Subutton Limit Switch	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A - B) A = page's number B = colunm's number	DUCTORS Inber C EQUIPMENT	28 A B C C D E F G
A B C C F G	AT B C FU KM HL L M PA QM RP SA SB	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control moster rele Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Pushbutton	<u>6</u> 7	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB page's number CDE progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A = page's number B = colum's number CODE TO REFER LINE	DUCTORS Inber C EQUIPMENT	28 A B C C D E F G
A B C D F G H	AT B C FU KM HL L M PA OM RP SA SB SQ SP ST TC	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master rele Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Pushbutton Limit switch Pressure switch Thermic switch Control circuit trar	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = poge's number CODE CODE TO INITIALLING FOR ELECTRIC (A B C) A = poge's number B device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A = poge's number B = column's number CODE TO REFER LINE (A / B) A = poge's number (A / B) A = poge's number	NUCTORS Inder C EQUIPMENT	28 A B C C D E F G H
A B C D F G H	AT B C FU KM HL L M PA QM RP SA SB SP ST	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master rele Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Pusbutton Limit switch Pressure switch Thermic switch	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A A = page's number B = colum's number CODE TO REFER LINE (A / B)	NUCTORS Inder C EQUIPMENT	28 A B C C D E F G H
A B C D F G H	AT B C FU KM HL L M PA OM RP SA SB SD ST TC TV U V	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master releves Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Limit switch Pressure switch Thermic switch Control circuit trar Voltage transforme Controller A.C. Rectifier diode	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = poge's number CODE CODE TO INITIALLING FOR ELECTRIC (A B C) A = poge's number B device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A = poge's number B = column's number CODE TO REFER LINE (A / B) A = poge's number (A / B) A = poge's number	NUCTORS Inder C EQUIPMENT	28 A B C C D E F G H
A B C D E F G H	AT B C FU KM HL L M PA OM RP SA SB SQ ST TC TV U V V VC X	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master rele Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Pushbutton Limit switch Pressure switch Thermic switch Control circuit trar Voltage transforme Controller A.C. Rectifier diode Rectifier bridge Terminal block	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = poge's number CODE CODE TO INITIALLING FOR ELECTRIC (A B C) A = poge's number B device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A = poge's number B = column's number CODE TO REFER LINE (A / B) A = poge's number (A / B) A = poge's number	NUCTORS Inder C EQUIPMENT	- 28 A B C C D E F G H H
A B C D E F G H	AT B C FU KM HL L M PA SB SB SP ST TC TV U V V V V V V V	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control moster relight Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Purssure switch Thermic switch Control circuit transforme Control circuit transforme Control circuit transforme Controller A.C. Rectifier bridge Terminal block	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = poge's number CODE CODE TO INITIALLING FOR ELECTRIC (A B C) A = poge's number B device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A = poge's number B = column's number CODE TO REFER LINE (A / B) A = poge's number (A / B) A = poge's number	NUCTORS Inder C EQUIPMENT	28 A B C D E F G H I J
А А В С С О С С С С С С С Р С С С С В С С С С С С С	1 2 AT B C FU KM HL L M PA OM RP SB SQ SP ST TC TV U VC X XS	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse block Control master rele Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector switch Pushbutton Limit switch Pressure switch Thermic switch Control circuit trar Voltage transforme Controller A.C. Rectifier diode Rectifier bridge Terminal block	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A = page's number B = columm's number CODE TO REFER LINE (A / B) A = page's number	NUCTORS Inder C EQUIPMENT	A B C C D E F G H I J
A B C D E F G H I J K	1 2 AT B C FU KM HL L M PA QM RP SA SQ SP ST TC TV U V V V V V V X X S XP	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse Fuse black Control moster Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector Subutton Limit Limit switch Pressure switch Control crouti trar Voltage transforme Controller A.C. Rectifier bidge Terminal block Plug Receptacle	sformer	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A - B) A = page's number CODE TO REFER LINE (A - B) A = page's number B = column's number CODE TO REFER LINE (A / B) A = page's number B = column's number CODE TO REFER LINE (A / B) A = page's number B = column's number and letter	DUCTORS nber C EQUIPMENT ACTS 's line	А В С Д В Е Г С Я В В С В В В В В В В В В В В В В В В
А В С О С С С С С С С С С С С С С С С С С	1 2 AT B C FU KM HL L M PA QM RP SA SQ SP ST TC TV U V V V V V V X X S XP	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse Fuse black Control moster Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector Subutton Limit Limit switch Pressure switch Control crouti trar Voltage transforme Controller A.C. Rectifier bidge Terminal block Plug Receptacle	6 7 NS Dy	8 9 10	11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB page's number CD progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A A page's number B device designation C progressiv's number CODE TO LOCATE OF RELAY CONTA (A B) A page's number B column's number CODE TO REFER LINE (A / B) A page's number B column's number B column's number MACCHINA TIPO: BS300/60 AFI-E/2V new-out.4	DUCTORS nber C EQUIPMENT ACTS 's line	А В С Д В Е Г С Я В В С В В В В В В В В В В В В В В В
А В С С В С С С С С С С С С С С С С С С	1 2 AT B C FU KM HL L M PA QM RP SA SQ SP ST TC TV U V V V V V V X X S XP	2 3 4 5 DEVICE DESIGNATIO Main control Proximity switch Capacitor Fuse Fuse black Control moster Pilot light Filter suppressor Motor Ampermeter Circuit breaker Potentiometer Selector Subutton Limit Limit switch Pressure switch Control crouti trar Voltage transforme Controller A.C. Rectifier bidge Terminal block Plug Receptacle	sformer r		11 12 13 14	vould lose its validity. 15 16 17 18 19 20 21 CODE TO NUMBER AUXILIARY COND (ABCD) AB = page's number CD = progressivs conductor's num CODE TO INITIALLING FOR ELECTRIC (A B C) A = page's number B = device designation C = progressiv's number CODE TO LOCATE OF RELAY CONTA (A - B) A = page's number CODE TO REFER LINE (A - B) A = page's number B = column's number CODE TO REFER LINE (A / B) A = page's number B = column's number CODE TO REFER LINE (A / B) A = page's number B = column's number and letter	DUCTORS nber C EQUIPMENT ACTS 's line 4000V50Hz DISEGNO M : QE0214F2	А В С Д В Е Г С Я В В С В В В В В В В В В В В В В В В



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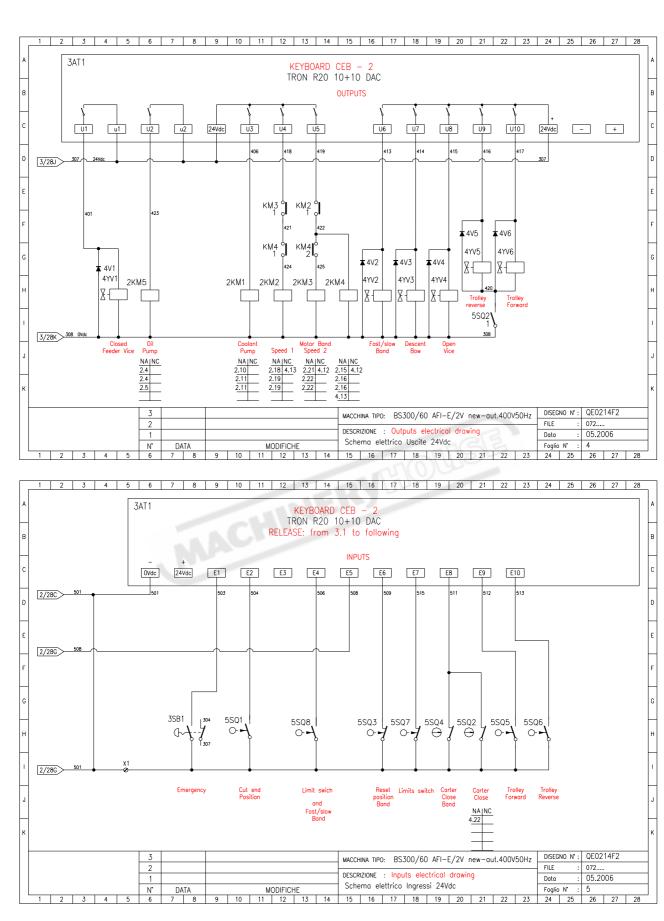
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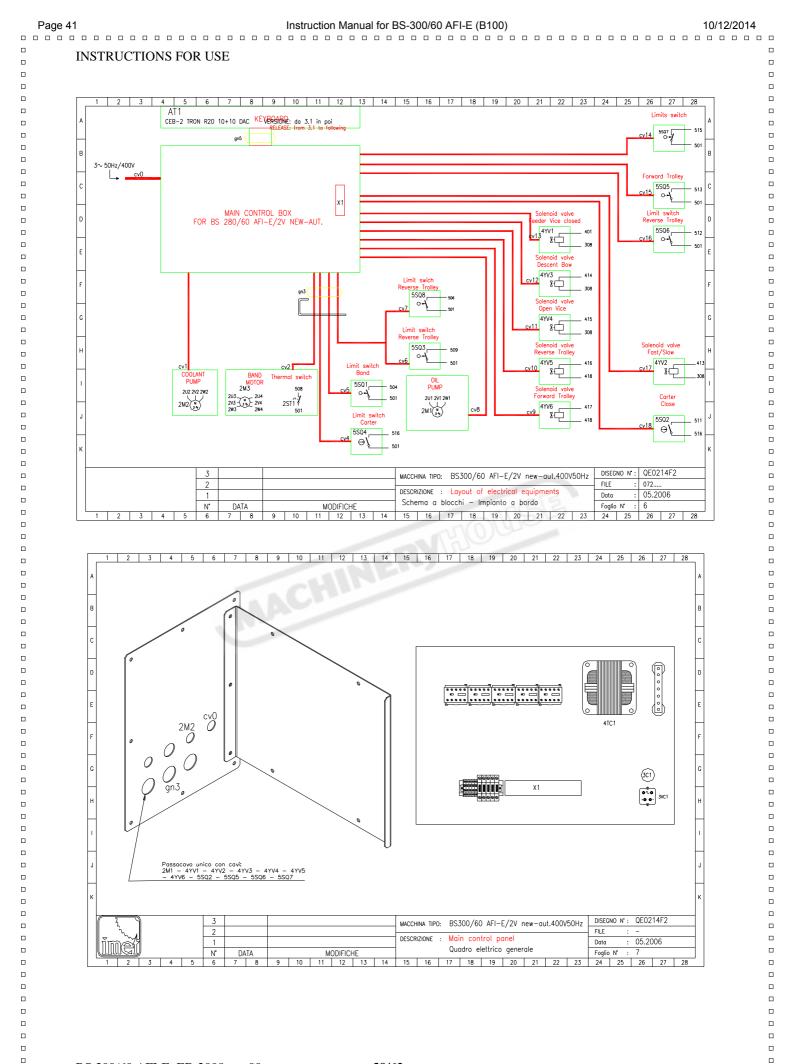
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10/12/2014

INSTRUCTIONS FOR USE





10/12/2014

INSTRUCTIONS FOR USE

	1 2	3 4 5 6	7 8 9 10 11	12 13 14 15 16 17	18 19 20	21 22 23	24 25 26	27 28
A	REF.	DEVICE	SPECIFICATIONS	FINCTION	FACTORY	TYPE	ITEM N*	Q.TY
	20M1	Circuit breaker	3P-P.I. 6KA-4/6.3A-Reg. 4.5A	Main circuit breacker - Ampere rating 4.5	TELEMECANIQUE	GV2 M10-4/6.3A	766162	1
	2QM1	Min. voltage relay	400V	Unlooh main circuit	TELEMECANIQUE	GV2 AU385	164908	1
в	2QM1	Terminal box	IP55	Terminal box for main circuit breacker	TELEMECANIQUE	GV2 MP02+V01	766198	1
	2M1	3 Phase motor	0.37KW-400V-1500G/1'	Oil motor pump	ELECTRO ADDA	B14 FC71 4POLI	562850	1
	2M2	3 Phase motor	0.15KW-400V-3000g/1'	Coolant motor pump	OMCG	PMU60L P150	331524	1
C	2M3	3 Phase motor	1.5/1.8KW-400V-1500/3000g/1'	Motor band	ELETTROADDA	B5 FC90 2-4RL	590050	1
	2L1	Filter (optional)	RC + Cavo 575V	Noise suppressor	MPM	130809	334010	1
\square	2ST1	Thermal switch	Classe B	Protection overload motor band	TERMIK			3
D								
E								
	AT1	Station control 10+10 DAC	IP65 Code 2AI-Vers: da 3.1	Contro unity and program	C.E.B.	R20 10+10 DAC	XF91868	1
F	3FU1	Fuse block	4mmq./6.3A	Primary protection transformer	CUNTACLIP	5TK 1 PA	694520	1
	3FU1	Fuse	5x25mm./size 2A	Primary protection transformer	WEBER	5x25mm./2A	390010	1
	3FU2	Fuse block	4mmq./6.3A	Primary protection transformer	CUNTACLIP	5TK 1 PA	694520	1
G	3FU2	Fuse	5x25mm./size 2A	Primary protection transformer	WEBER	5x25mm./2A	390010	1
	3FU3	Fuse block	4mmq./6.3A	Secondary protection transformer 0-20-24V	CUNTACLIP	5TK 1 PA	694520	1
	3FU3	Fuse	5x20mm./size 6.3 A	Secondary protection transformer 0-20-24V	WEBER	5x20mm./6.3A	390001	1
н	3FU4 / 6	Fuse block	4mmq./6.3A	Secondary protection transformer 15-0-15V	CUNTACLIP	5TK 1 PA	694520	1
	3FU4 / 6	Fuse	5x20mm./size 6.3A	Secondary protection transformer 15-0-15V	WEBER	5x20mm./6.3A	390001	1
	3FU5 / 7	Fuse block	4mmq./6.3A	Secondary protection transformer 0-18V	CUNTACLIP	5TK 1 PA	694520	1
	3FU5 / 7	Fuse	5x20mm./size 3.2A	Secondary protection transformer 0-18V	WEBER	5x20mm./3.2A	390001	1
	3TC1	Control circuit transformer	VA160/Ve 400 Vu1 0-20-24	Main auxiliari supply	C.E.	T.T. CEI 14/6	931200	1
\square	3SB1	Poshbutton (emergency)	ø40mm. – Clearing rotation	Emergency stop button	BRETER	RM 065R +	709170	1
J					CEMA	P9XER4RN		
	3SB1	Normaly closed contact	NC - Rosso	Emergency stop button	BRETER	V 40 +	260231	1
					CEMA	P9B01UN		
к	3SB1	Normaly open contact	NC – Verde	Emergency stop button	BRETER	V 50	260397	1
		•	•					
		3		MACCHINA TIPO BS.	i00/60 AFI-E/2V n	ew-out 400V50Hz	DISEGNO Nº: QE021	4F2
		2					FILE : 072	
		1			eral list of electrica	i equipments	Data : 05.200)6
		N*	DATA	IODIFICHE Elenco generale o	componenti elettrici	35	Foglio N° : 8	
	1 2	3 4 5 6	7 8 9 10 11	12 13 14 15 16 17	18 19 20	21 22 23	24 25 26	27 28

2	3 4 5 6	7 8 9 10 1	1 12 13 14 15 16 1	7 18 19 20	21 22 23	24 25 26	27
REF.	DEVICE	SPECIFICATIONS	FINCTION	CEMAFACTORY	P9B10UNYPE	ITEM N°	Q.TY
3VC1	Rectifier bridge	24Vd.c./6A	Auxiliary 24Vd.c. supply	FAGOR	CDFB 2504	723723	1
3C1	Capacitor	10000uF 63V	Auxiliary 24Vd.c. supply	ELNA		259530	1
2KM1	Control master relay	4KW-9A-24Vac	Power coolant motor pump	LOVATO	MC9-10 24V	260750	1
2KM2	Control master relay	5.7KW-12A-24Vac	Power motor band - speed 1	LOVATO	BF12-01 24V	260783	1
2KM3	Control master relay	5.7KW-12A-24Vac	Power motor band - speed 2	LOVATO	BF12-01 24V	260783	1
2KM4	Control master relay	4KW-9A-24Vac	Power motor band - speed 2	LOVATO	MC9-10 24V	260750	1
2KM4	Auxiliary contact	1NO+1NC - 9A	Power motor band - speed 2	LOVATO	G320/1	260795	1
2KM5	Control master relay	4KW-9A-24Vac	Power hydraulic oil pump	LOVATO	MC9-10 24V	260750	1
5SQ1	STROKE END SWITCH	no — nc		-	ABV121260	520941	1
5SQ2	SAFETY SWITCH	FK3393-D1	Carter	Pizzoto	FK3393-D1	520765	1
5SQ3	STROKE END SWITCH	DIR.E700-0-BM/3M		Telemecanique	XCMA1023	521145	1
5SQ4	SAFETY SWITCH	FK3393-D1	Carter band	Pizzoto	FK3393-D1	520765	1
5SQ5	STROKE END SWITCH	DIR.E700-0-BM/3M		Telemecanique	XCMA1023	521145	1
5SQ6	STROKE END SWITCH	DIR.E700-0-BM/3M		Telemecanique	XCMA1023	521145	1
5SQ7	STROKE END SWITCH	90 E700-0-BM/90		Telemecanique	XCMA1032	521000	1
5SQ8	STROKE END SWITCH	no – nc		-	ABV121260	520941	1
							-
4V1 a 6	DIODE	700V/1A	No interference	Imet	IN 40007	312207	6
4YV1	CONNECTOR	4WAYS	ELECTROVALVE	Imet	C18209N21	260150	1
4YV2	CONNECTOR	4WAYS	ELECTROVALVE	Imet	C18209N21	260150	1
4YV3	CONNECTOR	4WAYS	ELECTROVALVE	Imet	C18209N21	260150	1
4YV4	CONNECTOR	4WAYS	ELECTROVALVE	Imet	C18209N21	260150	1
4YV5	CONNECTOR	4WAYS	ELECTROVALVE	Imet	C18209N21	260150	1
4YV6	CONNECTOR	4WAYS	ELECTROVALVE	Imet	C18209N21	260150	1
	3		MACCHINA TIPO:	BS300/60 AFI-E/2V n	ew-aut.400V50Hz	DISEGNO Nº : QE021 FILE : 072	4F2
			DESCRIZIONE : 0	General list of electrical equi	ipments	Data : 05.200	06
	N*	DATA	MODIFICHE Elenco genera	le componenti elettrici		Foglio N* : 9	
2	3 4 5 6			7 18 19 20	21 22 23	24 25 26	27

BS 300/60 AFI-E ED.2008 rev.00

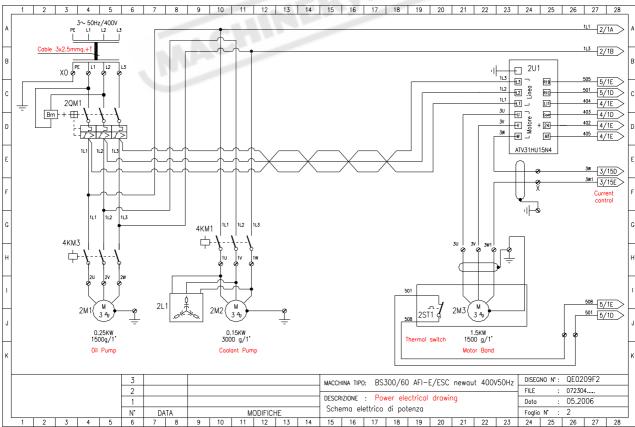
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INSTRUCTIONS FOR USE

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	REF.		DEV	ICE				SPE		21/					FINC	TION	u				FA	CTOR	v		T	rpe			ITEM	(N*).TY
	X2	Termin	al block	ICL			Sin	le tern		 		Conr	ection	s ext						C	ONTACL		4	Rk	(2.5 4			5587		- 14		12
	x1		al block					ble ter					ection							_	ONTACL			_	(D 2.5			5590				5
	X	Termin	al block	(4 ter	minals)				2.5				ection							S	CHIAVI			AR	T.6904			5588	353			1
	cv0	Flexible	cable				4+	x2,5mr	nq			Conr	nection	mair	n supp	ly				-												
	cv1	Flexible	cable				3+	x2,5mr	nq			Conr	nection	mair	supp	ly				-												
	cv2	Flexible	cable	sect.0,3	i5 shield		3+	x2,5mr	nq			Conr	nection	mair	n supp	ly				-												
	cv3	Flexible	coble				2×0	,75mm	q			Conr	ection	mair	n supp	ly																
	cv4	Flexible	cable				2x0	,75mm	q			Conr	nection	mair	n supp	ly															·	
	cv5	Flexible	cable				2×C	,75mm	q			Conr	ection	mair	n supp	ly																
	cv6	Flexible	cable					,75mm				Conr	nection	mair	n supp	ly															<u> </u>	
	cv7	Flexible						,75mm					ection											_							<u> </u>	
	cv8	Flexible						x2,5mr					ection											_							<u> </u>	
	cv9	Flexible						,75mm					nection							_				_								
	cv10	Flexible						,75mm					nection			<i>.</i>								_								
	cv11	Flexible						,75mm					nection							_												
	cv12	Flexible						,75mm					nection																			
	cv13	Flexible						,75mm					nection							_				_								
	cv14	Flexible						,75mm				Conr	nection	mair	n supp	ly								_								
	cv15	Flexible						,75mm					nection			· · ·																
	cv16	Flexible						,75mm				Conr	ection	mair	n supp	ly															<u> </u>	
	cv17	Flexible						,75mm					nection			· · · ·															_	
	cv18	Flexible	cable				2×C	,75mm	q			Conr	nection	mair	n supp	ly															<u> </u>	
	an3	Flexible	tube				PV(1"				Conr	ection							Т	eaflex											
	gn4	Flexible	tube					1/2"					ection							Т	eaflex											
																															_	
										 														+							-	
					3	1				 						MA			. BC	300 /6	50 AF	I-F/	2V ne		ut 400	V50Hz	DI	SEGN	0 N°:	QEO	214F2	
					2																				_		FI	LE	:	072		
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-	1 2	3	4	5	6	1	7	8	9	10	11	12		3	14	1	5	16	17	18	19	T	20	21	22	23	24	4	25	26	27	



BS 300/60 AFI-E ED.2008 rev.00

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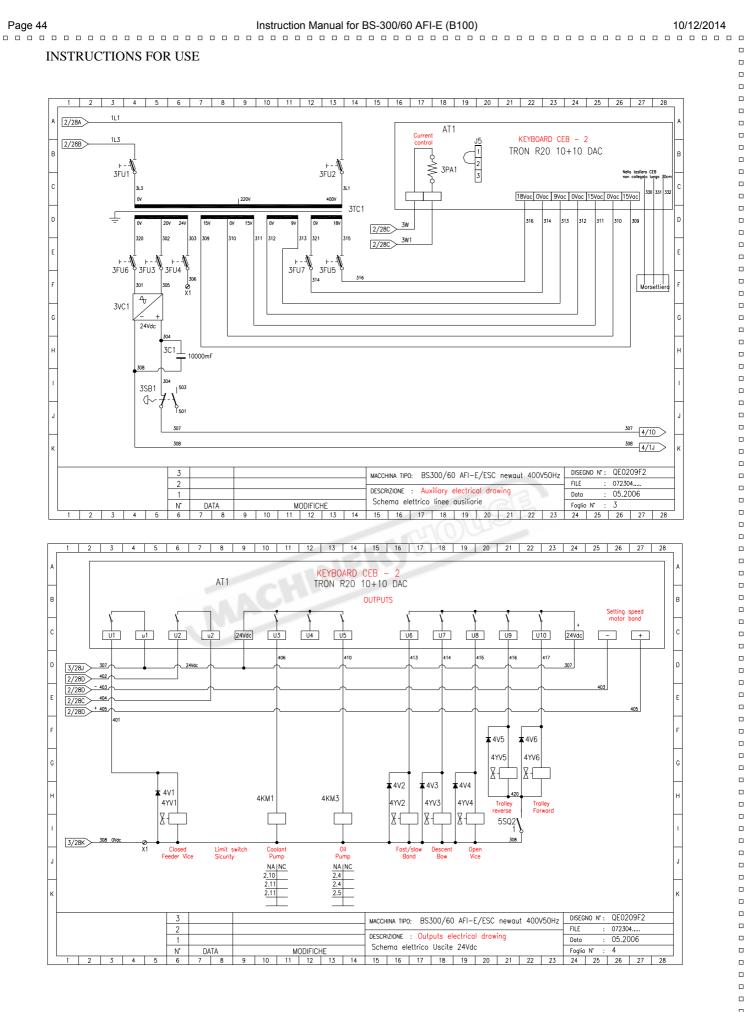
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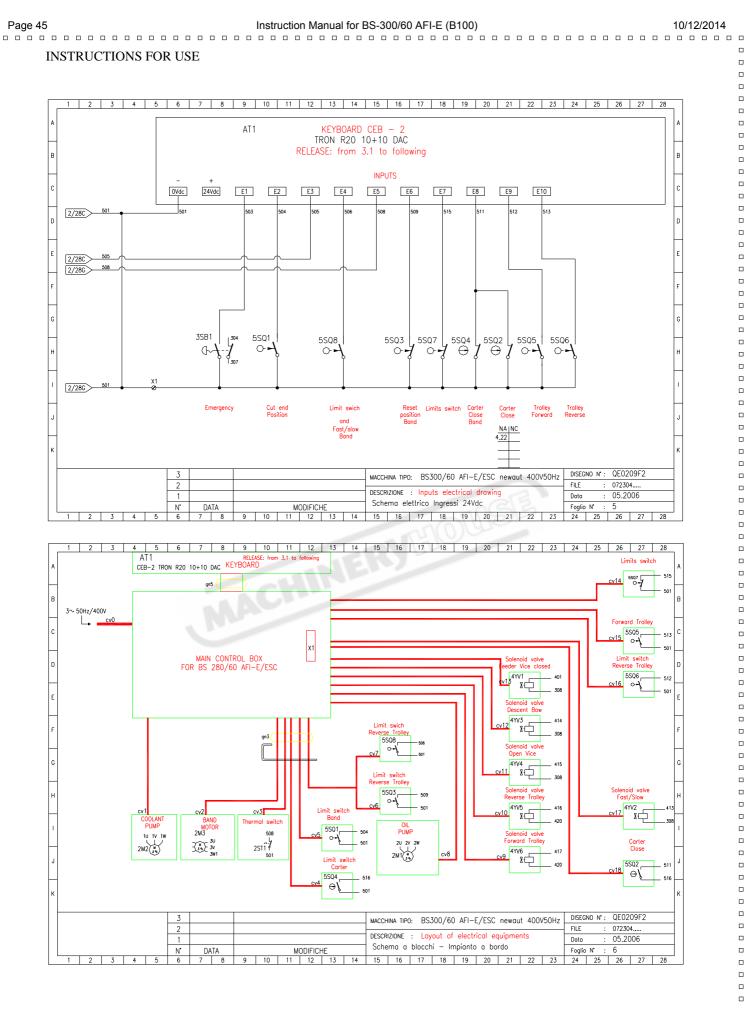
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BS 300/60 AFI-E ED.2008 rev.00



BS 300/60 AFI-E ED.2008 rev.00

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Page 46 Instruction Manual for BS-300/60 AFI-E (B100) 10/12/2014 INSTRUCTIONS FOR USE 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 п 000000 2U1 cvC O 3TC1 2M2 0 П 0 0 gn3j G (3C1) 00000 00000 X1 0 0 0 .0 0. 3VC1 н Passacavo unico con cavi: 2M1 - 4YV1 - 4YV2 - 4YV3 - 4YV4 - 4 - 4YV6 - 5SQ2 - 5SQ5 - 5SQ6 - 5SQ7 4YV5 П DISEGNO Nº : QE0209F2 3 2 MACCHINA TIPO: BS280/60 AFI-E/ESC newaut 400V50Hz FILE Main control panel DESCRIZIONE 1 05.2006 Data ime Quadro elettrico generale N' DATA MODIFICHE Foglio N 2 .3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 12 13 14 15 16 4 5 6 8 9 10 18 19 20 21 22 24 25 26 27 28 FACTORY RF DEVICE SPECIFICATIONS FINCTION ITEM N Q.TY 3SB1 BRETER RM 065R + 709170 Poshbutton (em Ø40mm. - Clearing rotation stop butte 1 CEMA P9XER4RN П В BRETER в 3SB1 NC - Rosso Emergency stop buttor V 40 + 260231 Normaly closed contac 1 CEMA P9B01UN BRETER 3SB1 NC - Verde V 50 260397 Emergency stop button Normaly open contact 1 6 CEMA P9B10UN 3VC 1 24Vd.c./6A FAGOR 723723 Rectifier bridge Auxiliary 24Vd.c. supply CDFB 2504 3C1 10000uF 63V Auxiliary 24Vd.c. supply ELNA 259530 | c Control master relay V24AC NO 9A 4KW 4KM1 4KW-9A-24Vac Power coolant motor pum SIEMENS 260750 1 4KM3 Control master relay 4KW-9A-24Vac Power hydraulic oil pump SIEMENS V24AC NO 9A 4KW 260750 1 l f 1 5501 STROKE END SWITCH NO - NCABV121260 520941 1 5SQ2 SAFETY SWITCH FK3393-D1 Carte Pizzoto FK3393-D1 520765 1 5SQ3 STROKE END SWITCH DIR.E700-0-BM/3M Telemecanique XCMA1023 521145 1 П 5SQ4 SAFETY SWITCH FK3393-D1 Carter band Pizzato FK3393-D1 520765 1 5SQ5 STROKE END SWITCH DIR.E700-0-BM/3M Telemecanique XCMA1023 521145 1 6 G 5SQ6 STROKE END SWITCH DIR.E700-0-BM/3M XCMA1023 521145 Telemeconique 1 5SQ7 STROKE END SWITCH 90°E700-0-BM/90 XCMA1032 521000 Telemecanique 1 5SQ8 STROKE END SWITCH NO -NC ABV121260 520941 1 4V1 a 6 DIODE 700V/1A No interference IN 40007 312207 6 Imet 4YV1 CONNECTOR 4WAYS **FLECTROVALVE** Imet C18209N21 260150 1 4YV2 CONNECTOR 4WAYS ELECTROVALVE Imet C18209N21 260150 1 4YV3 CONNECTOR 4WAYS ELECTROVALVE Imet C18209N21 260150 1 4YV4 CONNECTOR 4WAYS ELECTROVALVE Imet C18209N21 260150 1 4WAYS П 4YV5 CONNECTOR ELECTROVALVE Imet C18209N2 260150 1 4WAYS 4YV6 ELECTROVALV 260150 CONNECTOR Imet C18209N21 DISEGNO Nº: QE0209F2 3 MACCHINA TIPO: BS300/60 AFI-E/ESC newqut 400V50Hz 2 FILE 072304. DESCRIZIONE : General list of electrical equipments 05.2006 Data

N* 6 DATA

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MODIFICHE

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11 12 13

Elenco generale componenti elettrici

15 16 17 18 19 20 21 22 23

Foglio N

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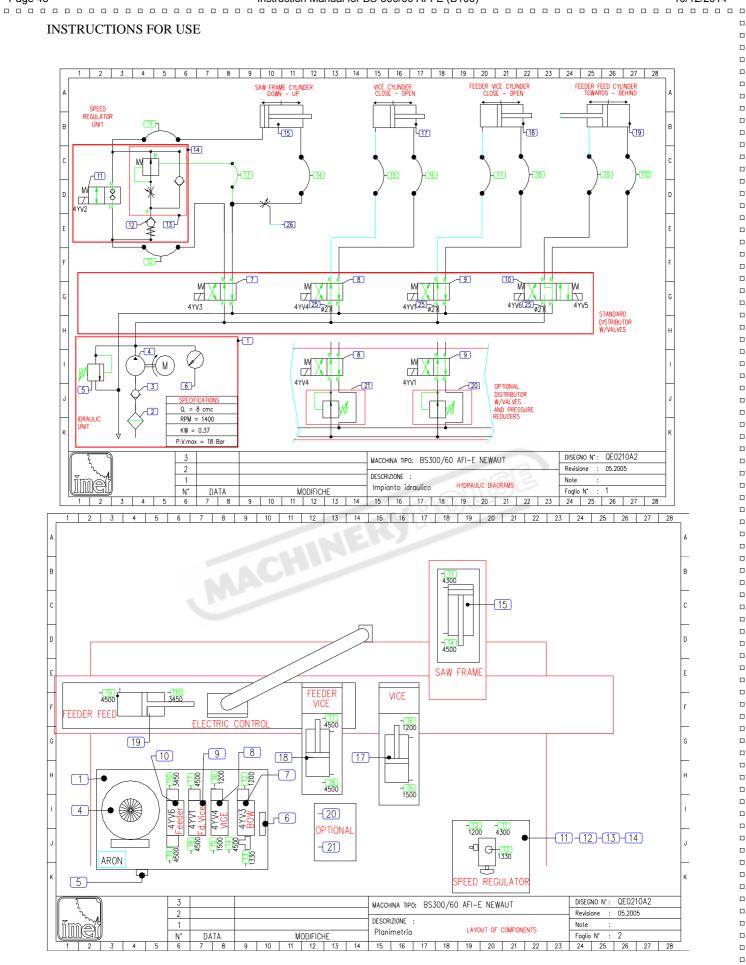
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INSTRUCTIONS FOR USE

1 2	3 4 5	6	7 8	8	9	10 11	1 12	13	14	15	16	17	18	19	20	21 22	23	24	25 2	6 27	
REF.	DEVICE			050	FICATION	<u> </u>			FINCT					FACT	2017		YPE		ITEM N		.TY
3SB1	Poshbutton (emerge	(mail)	_		Clearing r		Emo	raancu, et	op button				00	RETER	JRT	RM 065F		70	9170	1	-
3301	Poshbutton (emerge	icy)	940mm	1. –	cleaning in	Julion	Enter	rgency su	op button				-	MA		P9XER4R		70	9170		
3SB1	Normaly closed cont	act	NC -	Rossa			Emo	raancu st	op button					RETER		V 40 +		26	0231	1	
5501	Normaly closed com		NC -	110550	,		Line	rgency su	op button				_	MA		P9B01UN	1	20	0231		
3SB1	Normaly open conta	.+	NC -	Verde			Eme	raency st	op button				_	RETER		V 50	•	26	0397	1	
5301	Normaly open conta		NC -	verue			Line	rgency su	op outton				-	MA		P9B10UN		20	0337		
3VC1	Rectifier bridge		24Vd.c.	/6A			Auxil	iory 24Vd	.c. supply	,				GOR		CDFB 25		72	3723	1	
3C1	Capacitor		10000		3V		_		.c. supply				EL					_	9530	1	
									ier eappij									- 20			
4KM1	Control master relay		4KW-9	A-24	Vac		Powe	er coolant	motor p	oump			SIE	EMENS		V24AC N	0 9A 4KW	26	0750	1	
4KM3	Control master relay		4KW-9				_		lic oil pur					EMENS			0 9A 4KW		0750	1	
			1	_																1	
5SQ1	STROKE END SWITCH		NO -	NC									-			ABV1212	60	52	0941	1	
5SQ2	SAFETY SWITCH		FK3393				Carte	er					Pia	zzato		FK3393-		_	0765	1	
5503	STROKE END SWITCH				-BM/3M								_	lemecani	oue	XCMA102		_	1145	1	
5SQ4	SAFETY SWITCH		FK3393		- / -		Carte	er band						zzato		FK3393-		_	0765	1	
5SQ5	STROKE END SWITCH				-BM/3M									lemecanie	oue	XCMA102			1145	1	
5SQ6	STROKE END SWITCH		DIR.E70	-0-00	-BM/3M								Te	lemecani	ue	XCMA102	3	52	1145	1	
5SQ7	STROKE END SWITCH		90°E70										Te	lemecani	gue	XCMA103	12	52	1000	1	
5SQ8	STROKE END SWITCH		NO -N	IC									-			ABV1212	60	52	0941	1	
																		_			
4V1 a 6	DIODE		700V/1	1A			No i	nterferenc	e				lm	et		IN 4000	7	31	2207	6	
4YV1	CONNECTOR		4WAYS				ELEC	TROVALVE					Im	et		C18209N	121	26	0150	1	
4YV2	CONNECTOR		4WAYS				ELEC	TROVALVE					lm	et		C18209N	121	26	0150	1	
4YV3	CONNECTOR		4WAYS				ELEC	TROVALVE					lm	et		C18209N	121	26	0150	1	
4YV4	CONNECTOR		4WAYS				ELEC	TROVALVE					Im	et		C18209N	121	26	0150	1	
4YV5	CONNECTOR		4WAYS				ELEC	TROVALVE					Im	et		C18209N	121	26	0150	1	
4YV6	CONNECTOR		4WAYS				ELEC	TROVALVE					lm	et		C18209N	121	26	0150	1	
				,																	
		3								MACCH	INA TIPO	: BS3	600/60) AFI-E	E/ESC n	ewaut 40	0V50Hz		NON": QE		
		2								DECOD	TIONE	Carr	of the	of aloch	teal and a	a se a la s		FILE		2304	
		1												ot electr nenti e	ical equipr	nents		Data		5.2006	
		N*	DATA				MODIFI	CHE		Lienc	u yen	erdie 0	ombo	nenu e	retunci			Foglic	∍N* : 9		

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REF.	. DEVICE	SPECIFICATIONS	FINCTION	FACTORY	TYPE	ITEM N	Q.TY
X2	Terminal block	Single terminal 2.5mmq/4A	Connections external equipments	CONTACLIP	RK 2.5 4PA	558790	12
X1	Terminal block	Double terminals 2.5mmq./4A	Connections external equipments	CONTACLIP	RKD 2.5 PA	559092	5
х	Terminal block (4 terminals)	Terminals 2.5mmq./4A	Connections external equipments	SCHIAVI	ART.6904	558853	1
cv0	Flexible cable	4+Tx2,5mmq	Connection main supply				
cv1	Flexible cable	3+Tx2,5mmq	Connection main supply				
cv2	Flexible cable sect.0,35 shield	3+Tx2,5mmq	Connection main supply				
cv3	Flexible cable	2x0,75mmq	Connection main supply				
cv4	Flexible cable	2x0,75mmq	Connection main supply				
cv5	Flexible cable	2x0,75mmq	Connection main supply				
cv6	Flexible cable	2x0,75mmq	Connection main supply				
cv7	Flexible cable	3x0,75mmq	Connection main supply				
cv8	Flexible cable	3+Tx2,5mmq	Connection main supply				
cv9	Flexible cable	2x0,75mmq	Connection main supply				
cv10	Flexible cable	2x0,75mmq	Connection main supply				
cv11	Flexible cable	2x0,75mmq	Connection main supply				
cv12	Flexible cable	2x0,75mmq	Connection main supply				
cv13	Flexible cable	2x0,75mmq	Connection main supply				
cv14	Flexible cable	2x0,75mmq	Connection main supply				
cv15	Flexible cable	2x0,75mmq	Connection main supply				
cv16	Flexible cable	2x0,75mmq	Connection main supply				
cv17	Flexible cable	2x0,75mmq	Connection main supply				
cv18	Flexible cable	2x0,75mmq	Connection main supply				
gn 3	Flexible tube	PVC 1"	Connection	Teaflex			
gn4	Flexible tube	PVC 1/2"	Connection	Teaflex			
	3		MACCHINA TIPO: BS3	300/60 AFI-E/ESC	newaut 400V50Hz	DISEGNO Nº: QEO2O	
	2			eral list of electrica	Loquinmente	FILE : 072304	
	1			componenti elettrici	equipments	Data : 05.200)6
	N*		MODIFICHE	•		Foglio N* : 10	
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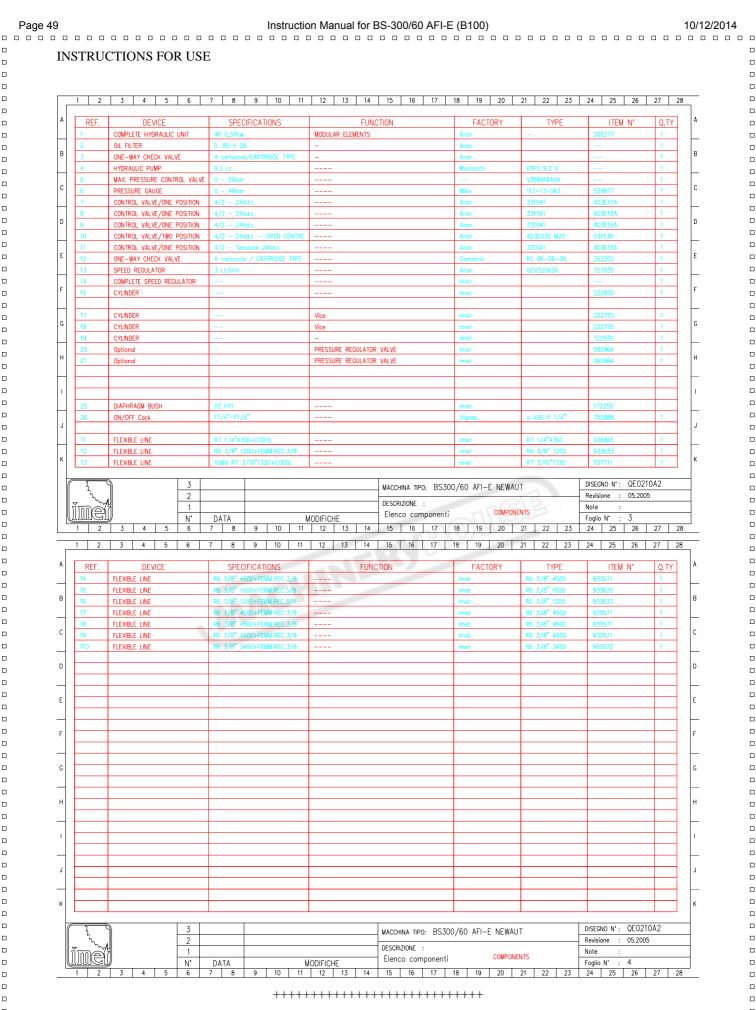
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Instruction Manual for BS-300/60 AFI-E (B100)

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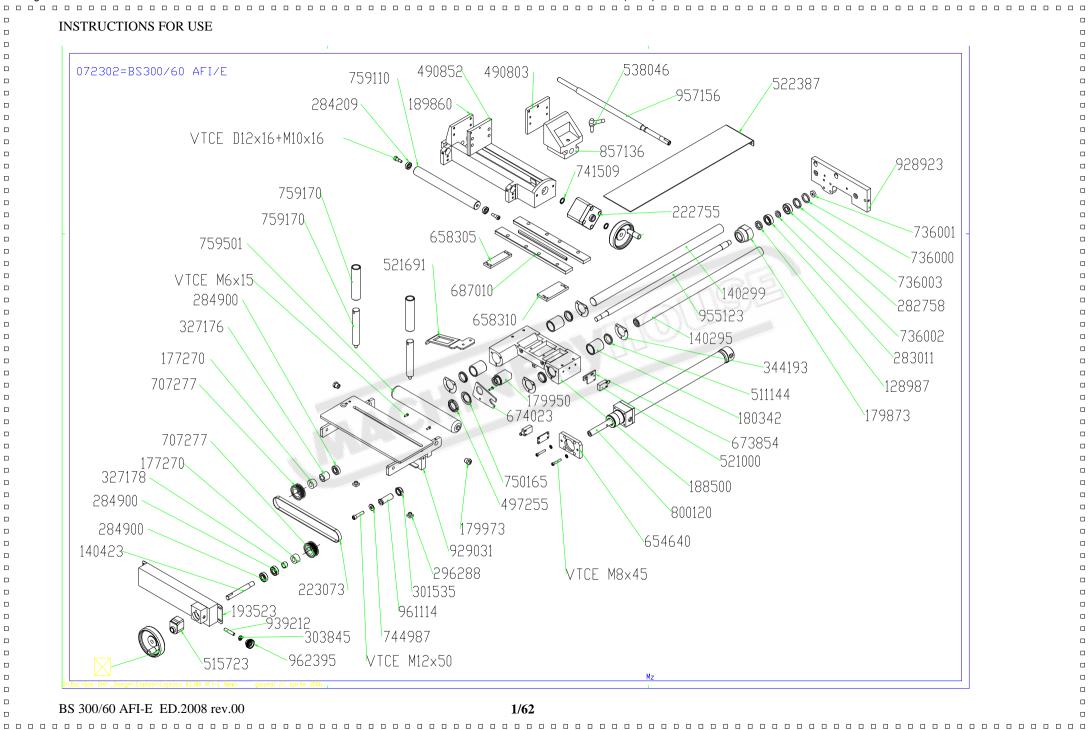
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INSTRUCTIONS FOR USE

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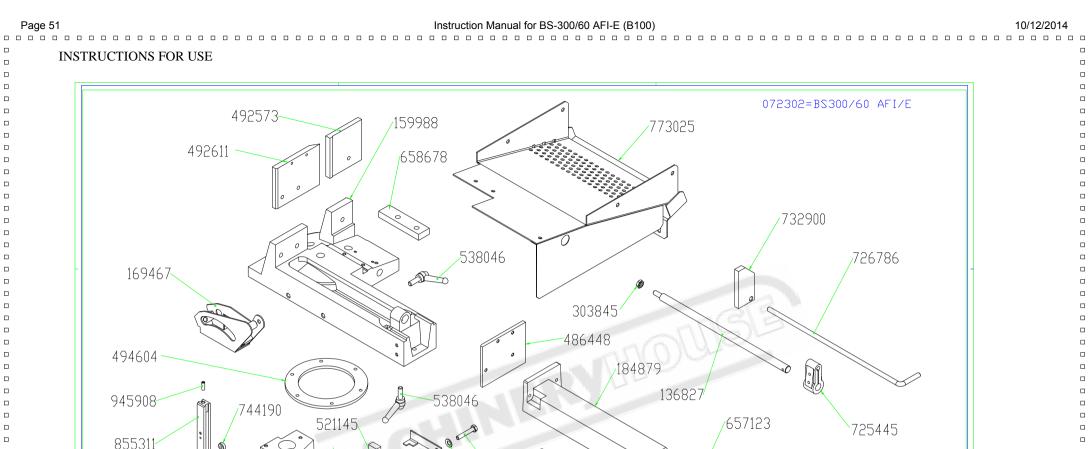
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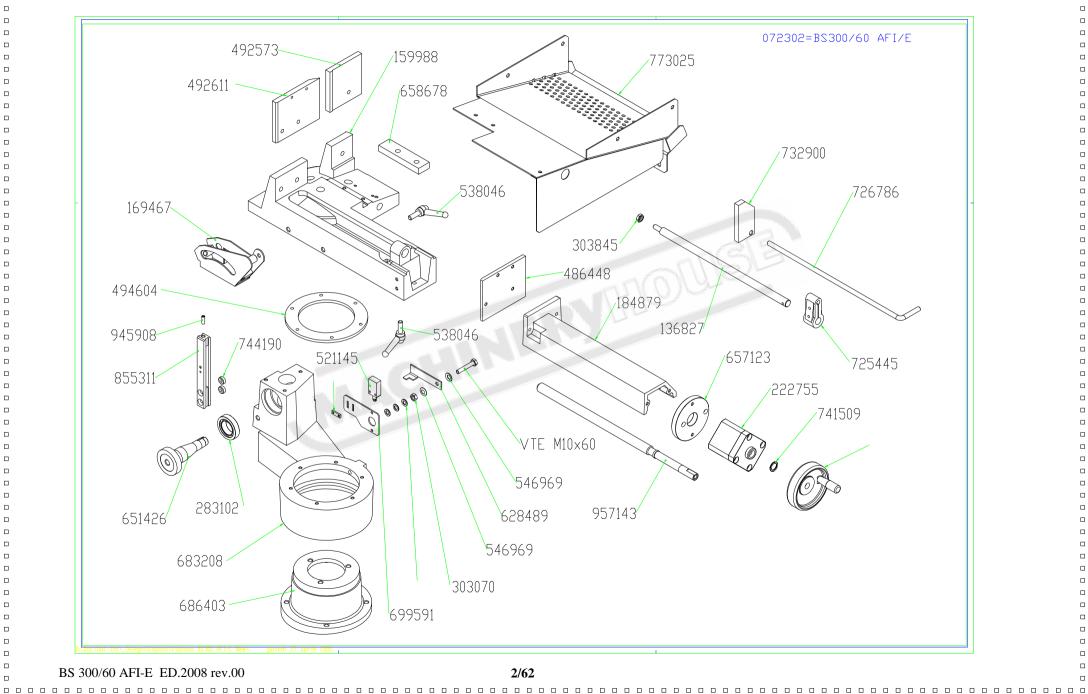
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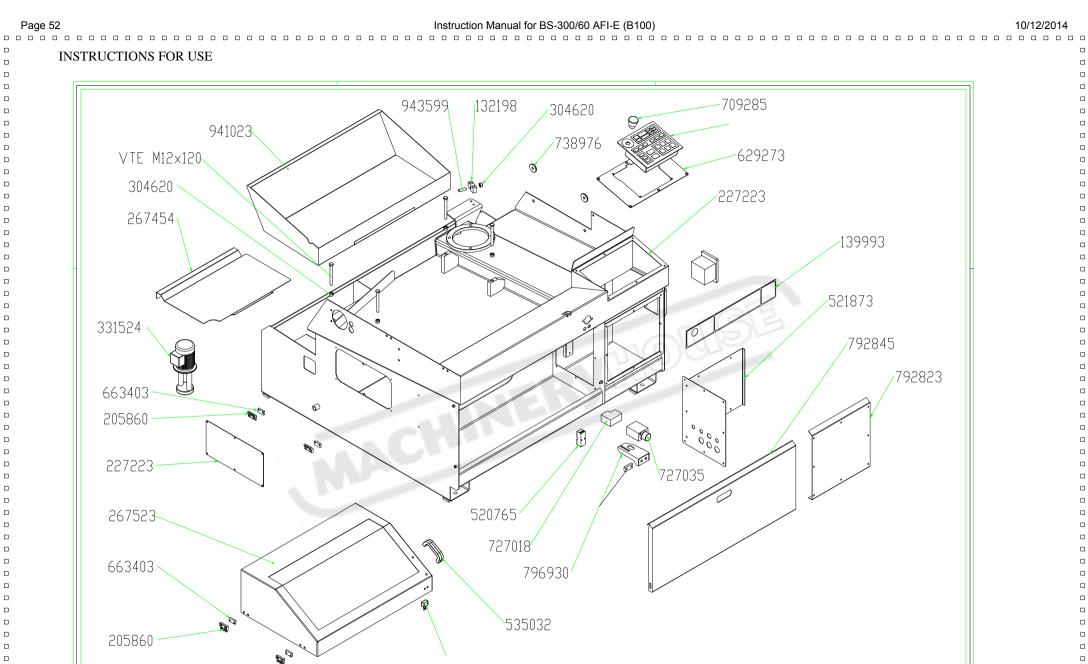
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BS 300/60 AFI-E ED.2008 rev.00

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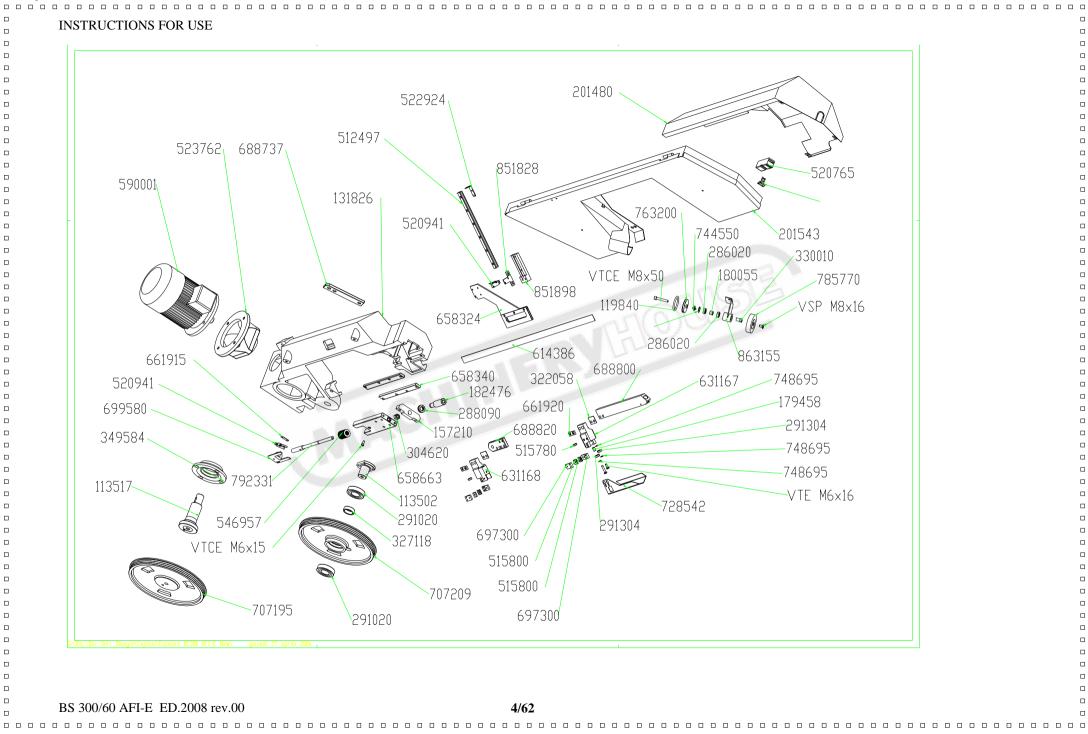
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131828

132198

132828

34120

136800

139993

139995

140295

40299

140423

153980

154080

157210

59988

59990

167248

BS 300/60 AFI-F NEWAUT

ALBERO PULEGGIA

CIL.PN. KS450/600/

300/60)

FRES ATO

POST.BS280

2,62X15,08

3.53X55.5 6

2,62X75,8 7

3.53X63.09

3.53X68.2 6

5.34X47

RTD

38350

ANFLLO

55X70X8

AVORATO

AFI- E D.12

AFI-E (SU

BARRA

(NEW14)

ARRESTO

2VEL.V. 400 SEGATR (SARA' BS

ALBERO X PULEGG.ANT.BS280

ANELLO ANTIESTR.BRS230

ANELLO TENUTA OR 119

ANELLO TENUTA OR 159

ANELLO TENUTA OR3300

ANELLO TENUTAOR4250

ANELLO TENUTA OR 171

ANELLO TENUTA OR 6187

ANELLO SEEGER A17 RIGA

ANELLO SEEGER J22 SPAZZ.

NELLO TENUTA 25X35X7

TEN.PARAP.BASL25X40X7

ANELLO TEN.PARAP.BASL

ANELLO TENUTA 47X22X7

ARCO-RIDUTTORE BS300

POSIZIONAM.BS280/60

MORSA D.20X400

AUTOAD.DISC.ARCO

COLONNA)MIS.628X107

BARRA CROM.40X788

CON RETE PROTEZ

BARRA CROM.40X807

AVANZAT.BS35 0/60

FILETT. BS280/60

FORATO BS280/60

280350 FRONTALE

(DERIVATA DA 280/60)

BLOCCO MORSA BS280/60

BOCCOLA OTTONE D.20X30

ASTA COM.DISC.ARCO 280

SHE/SHI -E/VELOX SHE/AF

ASTA DISC.TESTA/REGISTRO

ASTA X RISCONTRO SCAR.280

BS300/60AFI-E (SU COLONNA)

AUTOADES.DISC.ARCO BS300

AVANZAT.IMET LARGH.300/400

TRASMISS.AVANZ.NEWAUT

BLOCCHETTO GUIDA MORSA

BLOCCHETTO GUIDA MORSA

BLOCCHETTO TENDINASTRO

BLOCCO MORSA BS280 AFI-E

ANELLO SEEGER J72

PULEGGE FORO 72

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Instruction Manual for BS-300/60 AFI-E (B100)

10/12/2014

BS 280 VORDERSCHEIBE

DICHTRING OR 6187 5,34X47

SAEGEARM

BOUCLE SEEGER J72 POULIES SEEGER INNERER RING J72

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INSTRUCTIONS FOR USE COD. ITALIANO ENGLISH FRANCOISE DEUTSCH

BS 300/60 AFI-E 3PH.2SPEED

BS 280 FRONT BAND WHEEL

BS 280 BACK BAND WHEEL

SEAL RING OR3300 2,62X75,87

SEAL RING OR4250 3,53X63,09

SEEGER RING A17 RTD TABLE

SEEGER RING J22 / BS350

SEEGER INNER RING J72

SEAL RING BASL 25X40X7

SEAL RING 55X70X8 FOR

FRAME REDUCER BS300

FEED CONTROL LEVER

FEED CONTROL/VICE STD

ROD FOR LENGTH STOP

STICKER DOWNFEED

SP.280NEWAUT

STICKER SAW FRAME FEED

FEEDER CHROM.BAR 40X788

40X807 CHROM. BAR BS35

TRANSMISS. ROD FEEDER

VICE THREADED GUIDE

BAND TENSIONER BLOCK

FIXED VICE ASSEMBLY

FIXED VICE ASSEMBLY

BOW CYLINDER BRASSED

VICE HOLED GUIDE

MECHANICAL STROKE-END

SEAL RING 25X35X7

SEAL RING 47X22X7

BACK-UP RING BRS230

OR RING 2,62X15,08

OR RING 3,53X55,56

OR RING 3,5X68,26

BRUSH

COUPLING

BS280/60

EVER

280AFIE

FFFDFR

NEWAUT

280350NEW

S280AFIE

S280/60

BS280/VELOX

80AFI D12

OR RING 6400 3,34X47

SHAFT

SHAFT

SCIE A RUBAN

2VI.BS300/60AFI-E

BOUCLE OR 6187 5,34X47

TIGE DE BUTEE

BS 300/60 AFI-E ED 2008 rev.00

MAN/SEMI AUT

NSTRU	JCTIONS FOR USE			
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	CIL.ARC O 280S.AUT	WASHER		
69467	BRACCIO X CILINDRO ARCO 280AFI -E	BOW CYLINDER ARM BS 280AFI-E		
	BUSSOLA OTT.D8X15			
72190	BLOC.PIATTO PATTINO BS280 BUSSOLA CONIC.TAPERL 1108-	D8X15 PLATE BLOCKING BUSH		
	19 (PER PULEGGIA HTD TL38-			
77257	5M-15) BUSSOLA D.16X25 PERNO	TAPER BUSH 1108-19 OSCILLATING PIN BUSH		
77280	OSC.BS28 0	D.16X25		
79458	BUSSOLA DISTANZ.D.6,5X10X14	SPACER D.6,5X10X14		
	BUSSOLA CUSC.VITE	FEEDER BEARING SCREW		
79873	AVANZ.NEWAUT D.47X68 BUSSOLA FILET.TPN25 AVANZ	BUSH FEEDER THREADED BUSH		
79950	NC PROGRAM E NEWAUT	TPN25		
79965	BUSSOLA MOLLE/ARCO 280- GH BRUN	280-GH BUSH SPRINGS/BOW		
	BUSSOLA X REGISTR.RULLO			
79973	NEWAUT (BS280-350) BUSSOLA	BUNDLE		
80055	BUSSOLA DISTANZ.SPAZ.280/60 NC			
80342	BUSSOLA A SFERE 0658-240-40	BALL BUSH 0658-240-40	2	
00342	BUSSOLA TENDINASTR.300350	DALL DUSH 0000-240-40	2	
82476	NEWA UT	BAND STRETCHER BUSH		
82946	CAPICORD.OCCH.11039112=6,5 X6 GIALLO BM 00331			
	CARRELLO MORSA FISSA	FIXED VICE CARRIAGE		
84879	BS280/60 CARRELLO HIWIN	BS280/60	162	
	HGW15CAZ0C X GU IDE	HIWIN HGW15CAZ0C	1011213	
88051	SENZA PRECARICO CARRO	CARRIAGE	rillout	-
	INFER.AVANZ.BS350/60LAVO	NER	L'un	
88500	RATO X NC CARRO SUPER.AVANZ.AFI-E	BS350/60 FEEDER UPPER CARRIAGE		
89861	LAVOR. (MODELLI AFI-E)	AFI-E		
93523	CARTER CINGHIA TRASM.NEWAUT. (NEW07)	BELT GUARD FOR NEWAUT. BASE		
00020	CARTER NASTRO-2PEZ	BROE		
201543	BS300AFINC SPAZZOLINO TRASCINATO PULEGGI	BAND GUARD-2 PIECES- BS300 NC		
.01040	CENTRALIN.ARON 4			
205277	POS.COMPL+MOT MONTARE:BS280/350 AFI-E	COMPL.HYDRAULIC UNIT W/MOTOR		
	CERNIERA ART.401-30-M6	ITEM 40-30-MT6 BOTECO		
205860	BOTECO PER XT410	HINGE		
214700	CHIAVETTA 6X6X20 UNI6604	KEY 6X6X20		
215123	CHIAVETTA 8X7X15 UNI6604	KEY 8X7X15 UNI6604		
16270	CHIAVETTA 8X7X25 UNI6604 CILINDRO MORSA KS450/600	KEY 8X7X25 UNI6604	TL CLAVETTE ENTR.BAGUE	SCHRAUBSTOCK
22755	80X10	VICE HYDR. CYLINDER KS450		HYDR.ZYLINDER 450
222830	CILINDRO IDRAUL.ARCO 350 TIPO 50X140 AVVITATO	CYLINDER SHI D.50		
	COLONNA NEWAUT.BS300/60			
27223	AFI-E (NEW01) CONNETTORE	BASE FOR NEWAUT.		GRUNDLAGE NEWAUT
	4VIE+LED=S18209TC42 1			
260163	DIN43650A TRASPARENTE COPERCHIO	4WAYS+LED CONNECTOR		4WEGE+LED VERBINDER
	VASC.REFR.BS300 NEWA UT			
267454		-		
267523	COPRIAVANZATORE BS300 NEWAUT	FEEDER COVER NEWAUT 280		
068050	COPRIFINCORSA ANT.NASTRO			
68253	BS280 CORONA BRONZ. M2,75 Z35	BS280 BRONZE WHEEL M2,75 Z35		+

[□] BS 300/60 AFI-E ED.2008 rev.00

Page 56		Instruction Manual for BS-30	· · · · ·	10/12/201
INSTRU	UCTIONS FOR USE			
282758	CUSCINETTO 30204A 20X47X14	BEARING 30204A 20X47X14		
283011	CUSCINETTO 32005X 25X47X15			
283102	CUSCINETTO 32008XA 40X68X19	CARRIAGE CONNECT.32008X4 40X68		
200102	CUSCINETTO 6201.2ZR	-0/00		
284209	12X32X10	BEARING 6201.2ZR 12X32X10		LAGER 6201 2ZR 12X32X10
284900	CUSCINETTO 6004.2RSR 20X42X12	CARRIAGE CONN. 6004EE 20X42X12	ROULEMENT 6004.2RSR 20X42X12	
286020	CUSCINETTO 608.2ZR 8X22X7	BRUSH/PUMP CARRIAGE CONNECTION	ROULEMENT 608.2ZR 8X22X7	
200020	CUSCINETT.30305DJR	CONNECTION	ROULEWENT 600.22R 6A22A7	
286302	25X62X17/13 =310305A	BEARING 31305A 25X62X17/13		
286795	CUSCINETTO 30305DR 25X62X15/13 = 30305A	CARRIAGE CONNECTION 25X62X15	ROULEMENT 30305A 25X62X15/13	
	CUSCINETTO ASS.51103			
288090	17X30X9	BEARING 51103XX. CARRIAGE CONNECTION 6206		
288725	CUSCINETTO 6206 30X62X16	30X62	ROULEMENT 6206 30X62X16	
288995	CUSCINETTO 6209 45X85X19	CARRIAGE CONNECTION 6209 45X85		
	CUSCINETTO 6207.2RSR	CARRIAGE CONNECTION 6207		
291020	35X72X17 CUSCINETTO 626.2ZR 6X19X6	35X72		LAGER 6207EE 35X72X17
291304	PATTINI 280/300	BEARING 626.2ZR 6X19X6		
204002	DADO ES.M4 BASS			SECHSKANTIGE MUTTER M4
294002	AUTOBL.DIN985 DADO ES.M8 BASS	HEXAGONAL NUT M4 DIN 980		DIN 980
294189	AUTOBL.DIN985	ES M8 DIN980 NUT		
296183	DADO M12 CAVE T CL.10 UNI5531 DIN508	NUT M12 FOR KEY T UNI5531	OF	
	DADO ES.M8 RIBASSATO		allse	
300745	BRUNITO DADO ES.M10 UNI5588 6.S	HEXAGONAL NUT M8 HEXAGONAL NUT M10 UNI5588	n Our	SECHSKANTIGE MUTTER M10
303070	BRUN.M	6.S	1 June	6.S
303845	DADO ES.M12 UNI5588 6.S BRUN.M EDIO	HEXAGONAL NUT M12 UNI5588 6.S		
000040	DADO ES.M12 UNI5589 6.S	HEXAGONAL NUT M12 UNI5589		SECHSKANTIGE MUTTER M12
304620	BRUN.B ASSO	6.S		6.S
305080	DADO ES.M14 ALTO UNI5587	HEXAGONAL NUT M14 HEXAGONAL NUT M16X1.5		
306120	DADO ES.M16X1,5 UNI5589 6.S			
306500	DADO ES.M6 UNI5588 6.S BRUNITO	HEXAGONAL NUT UNI 5588 6.S		SECHSKANTIGE MUTTER M6 UNI5588
300300	DADO ES.M8 UNI5588 6.S	HEXAGONAL NUT M8 UNI5588		SECHSKANTIGE MUTTER M8
307720	BRUNITO	6.S	ETAU ECROU POUR RENFORT	6.S
315285	DISCO REGISTR.VSF BS280	SCREW ADJUSTING DISC BS280		
322160	DISTANZIALE CORONA BS280	WHEEL SPACER BS280		
	DISTANZIALE	MOTOR COUPLING SPACER		
325859	GIUNTO/MOT.BS280 DISTANZIALE PUL.D.35X42	BS280 PULLEY SPACER D.35X42		SCHEIBE DISTANZSTUECK
327118	BS280	BS280		D35X42
	DISTANZIALE PULEG.AVANZ.NEWAUT	NEWAUT PULLEY SPACER		
327176	(NEW22)	30X20X41		
	DISTANZIALE TRASM.AVANZ.NEWAUT	NEWAUT TRANSM.SPACER		
327178	(NEW21)	30X20X17		
330010	ESAGONO ATT.SPAZ.D100 BS350	HEXAGONAL BRUSH CONNECTION	HEXAGONAL POUR BROSSE	SECHSKANTIGER BUERSTEANSCHLUSS
000010	EL.POMPA LUNGA AST60			
331524	PIEDE=150 230400V 1/2"- W120=PMU60LP170	LONG ELECTRIC PUMP 230400	POMPE 331524	
001024	FASCETTA TUBO TORRO S 12-			
331925	22/9 C7 W1	HOSE CLAMP W2 12-20		SCHLAUCHSCHELLE W2 12-20
349584	FLANGIA CHIUS.RIDUTT.BS280	REDUCTION CLOSING FLANGE BS280		
	GANASCIA CARR.MORSA BS300/60 130X10X161	VICE CARRIAGE JAW 130X15X172		

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	CTIONS FOR USE			
	UNIOFICATA			
803	GANASCIA CHIUS.AVANZ.BS280AFIE	FEEDER CLOSING JAW BS280AFIE		
852	GANASCIA APP.X AVANZ.BS280AFI- E	FEEDER SUPPORT JAW BS280AFI		
	GANASCIA APPOGGIO DX BS300/60 130X15X113	RIGHT VICE SUPPORT JAW		
	GANASCIA APPOGGIO SX BS300/60 130X15X162	LEFT SUPPORT JAW BS280AFI-		
	GHIERA INTERNA	PLATFORM INTERNAL		
	GHIERA KM5 M25X1,5 PERNO			
	GHIERA KM8 M40X1,5 SIRIO	,		
	GIUNTO M24JUNIOR D.19X24	,		
316	GUARNIZIONE EL.POMPA D.130X102 X2 GOMMA	ELECTROPUMP SEAL		
200	ANTIOLIO GUARNIZIONE PARAP.AS40-50-	D.130X102 ANTIDUST GASKET AS40-50-5-		
144	5-8 GUARNIZIONE RS3240 CIL.	8		
163	IDR.KS GUARNIZ.IDROSTOP	PISTON SEAL RS3240		
290	DBM196133/M BS350/280 D50XD34X20.5	SAW FR.CYL.GASKET MDB2X400501		
300	BS280 120 X80	GASKET BS 280	RE	
330	GUARNIZIONE FLANGIA BS280 D.14 5X110	FLANGE GASKET BS 280 D.14	moust	
497	GUIDA HIWIN HGR15R340C BS300 (FORO 20MM!) TASTATORE280/300	GUIDE HIWIN LGR15R340C 20/20	Line.	-
		PLASTIC BLACK HANDLE D.20X80		
723	INDICATORE DIG.MIL.PAS5 GRIGIO DD52AN0005.0- D/ELESA=CE.08625	POSITION INDICATOR MM5		
	INGRASSATORE M8 CH10	OILER M8 CH10		
	INSERTO SPECIALE D15.95X6.4		PLAQUETTE SPECIALE D15.95X6.4	
	INSERTO QUADRO SVAS.19,3X4 F.4 WXP0274=GATTIA191DB10.OD	SQUARE CARBURE PAD 19,3X4	PLAQUETTE CARBURE 19,3X4	VIERECKIGER EINSATZ 19.3X4
800	C4.2G INTER.SICUR.FK3393-D1	F.4	F.4	F.4
765	FINCORSA LEVA ABV121260	SAFETY SWITCH FK3393-D1		
941	BS-230	STROKE-END ABV161660		
000	MA1032 CAVO 2M,RUOTA 90°£700-0-BM/90	STROKE END SWITCH TELEMEC.	FIN DE COURSE	
	INTER.FINCORS=TELEMEC.XC MA1023 CAVO 3M,RUOTA	STROKE END SWITCH		ENDSCHALTER TELEMEC. XCMA1023
	LACCIO LEGRAND 320-32			
	BASE A INCASTRO 320.76 X			
	LAMIERA X CAVI	SHEET HOLDER FEEDER		
<u>691</u> 718	AVANZ.BS300AFIE NEWAUT LAMIERA FC CARRO AVANZ NEWAUT. (NEW16)	NEWAUT. NEWAUT. STROKE-END HOLDER		
	2568 2611 4604 2110 2255 316 2255 316 2200 144 163 290 300 3300 3300 3300 3300 3300 3300 3300 3300 3005 3005 3005 3005 3006 3007 3008 30095 30095 3007 3008 30095 30095 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000 3000	2568UNIFICATAGANASCIA APPOGGIO SX BS300/60 130X15X1622611UNIFICATAGHIERA INTERNA604PIATTAFORMA BS2 80/60GHIERA KM5 M25X1,5 PERNO110OSC.B S280GIUNTO M24JUNIOR D.19X24255300GIUNTO M24JUNIOR D.19X24256BS280GUARNIZIONE EL.POMPAD.130X102 X2 GOMMA2000ANTIOLIOGUARNIZIONE RS3240 CIL.163IDR.KSGUARNIZIONE RS3240 CIL.163IDR.KSGUARNIZIONE LANTERNA300BS280 120 X80290D50XD34X20.5GUARNIZIONE FLANGIA BS280330D.14 5X110GUIDA HIWIN HGR15R340CBS300 (FORO 20MM!)2497TASTATORE280/300IMPUGNATURA NERA 20X80695PLAST. X ASTAINDICATORE DIG.MIL.PAS5GRIGIO DD52AN0005.0-5723D/ELESA=CE.08625INGRASSATORE M8 CH105753SFERA+MOL LA L1INSERTO QUADROSVAS.19,3X4 F.4WXP0274=GATTIA191DB10.OD600C4.2GINTER.SICUR.FK3393-D165CHIAV.90 °PIZZATOFINCORSA LEVA ABV121260NAIS= OMRON D2VW5L1B1M-1941BS-230INTER.FINCORS=TELEMEC.XCMA1032 CAVO 3M,RUOTA145DIR.E70-0-BM/3LACCIO LEGRAND20090°E700-0-BM/3LACCIO LEGRAND201300S856LACCI LEGRAND2022,4X18	5568 UNIFICATA BS280/6 GANASCIA APPOGGIO SX BS300/60 130X15X162 LEFT SUPPORT JAW BS280AFI- E GHIERA INTERNA PLATTAFORMA BS2 80/60 LOCKRING BS2 GHIERA KMS M25X1,5 PERNO ICCKRING BS2 GHIERA KMS M25X1,5 PERNO ICCKRING BS2 GUINTO M24JUNIOR D.19X24 COUPLING D.19X24 BS 280 GUARNIZIONE EL POMPA D.130X102 X2 GOMMA D.130X102 X2 GOMMA ELECTROPUMP SEAL GUARNIZIONE FARAP.AS40-50- ANTIDUST GASKET AS40-50-5- MANTOLIO D.130X102 X2 GOMMA GUARNIZIONE FARAP.AS40-50- ANTIDUST GASKET AS40-50-5- GUARNIZIONE RS3240 CIL. PISTON SEAL RS3240 GUARNIZIONE LANTERNA BS280 120 X80 GUARNIZIONE LANTERNA GASKET BS 280 GUARNIZIONE FLANGIA BS280 FLANGE GASKET BS 280 D.14 GUIDA HIWIN HGR15R340C S0/20 BS280 120 X80 PLASTIC BLACK HANDLE DLAT STATORE DIG MIL PAS5 PISTION INDICATOR MM5 GRIGIO D52AN0005.0- POSTION INDICATOR MM5 PLASTIC SPECIALE D15.95X64 SS230 MINDERTO SPECIALE D15.95X64 SSECIAL INSERT D15.95X64	558 UNIFICATA 5520/6 GANASCIA APPOGGIO SX EEF SUPPORT JAW BS280AFI- 644 FILERA INTERNA PLATFORM INTERNAL 604 FILERA INTERNA PLATFORM INTERNAL 604 GHIERA KM5 M25X1,5 PERNO LOCKRING BS2 6110 OSC. B S280 RING KM6 M25X1,5 61110 OSC. B S280 RING KM6 M25X1,5 61110 OSC. B S280 COUPLING D.19X24 BS 280 61110 DATATOR MANAX1,5 SIRIO D.130X102 X3 GOMMA 61110 D.130X102 X3 GOMAA ELECTROPUMP SEAL 0.130X102 X3 GOMMA ELECTROPUMP SEAL 0.130X102 X3 GOMMA ELECTROPUMP SEAL 114 S-8 GUARNIZIONE RS3240 CIL. DISON SEAL RS3240 114 S-8 GUARNIZIONE RUANGIA BS250220 SAW FR.CYL.GASKET MS280 0 D.145X10 0

LAMIERA X

(NEW10)

LAMIERA COM.EL.NEWAUT.

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521951

NEWAUT.

EL.CONTROL SHEET METAL

COOLANT DISTR.SHEET

	DISTRIB.REFRIG.BS280 SU	METAL 280		
	ARCO LAMIERA COPRI VITE			
22387	AV.NEWAUT	-		
22924	LAMIERA "L" FERMO TASTATORE	_		
22941	LAMIERA TASTATORE BS300	-		
23762	LANTERNA MOTORE BS280 FINITA	MOTOR/BOW STRAINER BS280		
35032	MANIGLIA "U" NERA ART.1102BOM8 =M243/140	BLACK HANDLE 1102BOM8		
00505	MANIGLIA RIPRES.M12	TURNING HANDLE M12 TYPE		
36585 36675	FEMM.TIP80 MANIGLIA RIPRESA M12X45 TIP.80 MASCHIO	80 TURNING HANDLE M12X45 TYPE 80	POIGNEE M12 TIP80 POIGNEE M 12X45	DREHEBARER HANDGRIFF M12X45 80
44666	MOLLA COMPENSAZ.CUSC.D.62 MOT	SPRING WASHER DIA. 62	FOIGNEE IN 12743	W12A43 00
46938	MOLLA TAZZA 40X20,4X2,5 MANDRI NO/PULEGG.	SPINDLE CUP SPRING 40X20,4X2,5	RESSORT 40X20,4X2,5	SPINDEL FEDERRING 40X20,4X2,5
	MANDRI NO/POLEGG. MOLLA TAZZA 31,5X16,3X2 TENDIN AST.BS280			
46957 46969	MOLLA TAZZA 25X12.2X1.5	CUP SPRING 31,5X16,3X2	RESSORT 31,5X16,3X2	TELLERFEDER 31,5X16,3X2
40909	MOLLA TAZZA 25X12,2X1,5 MOLLA PER ARCO BS230-280-	CUP SPRING 25X12,2X1,5 SAW FRAME RETURN SPRING	RESSORT RAPPEL ARCHET	TELLERFEDER 25X12,2X1,5 RAHMEN RUECKFEDER BS340
47652	350-3 40	340280	BS340-BS	BS280
00050	MOT.3F 2/4P FC90TP B5 V400 280 CE*1,7/1,3*B5 *SENZA CHIAVETT			
90050	NASTRO"280"2765X27X09	3PH MOTOR 2-4P FC90 V400 B5		
14397- ⁄10	M42SVGLB (STB)DENTATURA =6/10 HV950	BAND 2765X27X09 SVGLB M42 6/10	RUBAN "280" 2765X27X09 M42	
10170		BRASS THREADED		
16170	NIPPLO N4-4 1/4"A1/4" OTTONE NIPPLO OLIO 1/4"X3/8"BSP RACC PER TUBO R6(CON	OIL THREADED CONNECTION	THOUSE	MESSING NIPPEL M4-4 1/4"
16230	FEMMINA 3/8")	1/4	616517	OEL NIPPEL 1/4" X 3/8"
	PALETTA ARCOGIU FINE			
28489	TAGLIO (MACCHINE CON TASTATORE)	STROKE-END PLATE BOW		
29273	PANNELLO FRONT.COM.NEWAUT/TRON	FRONT PANEL FOR NEWAUT/TRON		
30632	PASSACAVO A MEMBRANA DG9 D.15	DIAPHRAGM CABLE GLAND DG9		
	PASSACAVO SCATTO SB1750-			
30975	22 NER O 145051 PATTINO ANTER.COMPLETO	CABLE GLAND SB1750-22		VORD.BANDFUEHRUNGSCHUF
31163	BS280 N EW	FRONT BAND GUIDE BS280		K.BS280
31165	PATTINO POST.COMPLETO BS280 NE W	LOWER BAND GUIDE BS280		HINTERER BANDFUEHRUNGSCHUH 280
31167	PATTINO GUIDALAM.ANT.BS280 LAV ORATO	FRONT BAND GUIDE BS280		VORDERER BANDFUEHRUNGSCHUH
31168	PATTINO GUIDALAM.POST.BS280 LA VORATO	BACK BAND GUIDE BS280		HINTERER BANDFUEHRUNGSCHUH
32788	PASTIGLIA D.10 OTTONE	BRASS. SPACER D.10		MESSING DISTANZSTUECK D.10
51426	PERNO OSCILLANTE BS280 x POTEN ZIOMETRO	OSCILLATING PIN FOR BS 280		
54640	PIASTRA ATT.CIL.AVANZ.NEWAUT. (NEW17)	NEWAUT.FEEDER CYL. PLATE		
57123	PIASTRA FRONT.MORSA IDR.NEWAUT (NEW20)	VICE CYLIND. PLATE FOR NEWAUT.		
58305	PIASTRINA SLITTA MOBILE AVANZA TORE	FEEDER MOVING PLATE		
	PIASTRINA SLITTA MOBILE AFI-			
58310	E	MOVING SLIDE PLATE AFI-E		BANDSPANNERFUEHRUNGSPI
58324	PIASTRA TASTATORE BS300	APPROACHING PLATE BS280		ATTE

INSTRUCTIONS FOR USE

Instruction Manual for BS-300/60 AFI-E (B100)

INSTRU	CTIONS FOR USE			
	GUIDATENDINASTR.300350 FRONTALE	PLATE BS		ATTE
658663	PIASTRA TENDINASTRO ANT.80X20 BS280	FRONT BAND TENS.PLATE 80X20		VORDERE BANDSPANN.PLATTE 80X20
658678	PIASTRINA APP.PEZZO MORSA 280A FI-E			
661900	PIASTRINA X FINC.PATT.INF.VTF NUOVO	PLATE FOR LOWER BANDGUIDE VTF		
661915	PIASTRINA FINC.NASTRO NEW 2XM3 10X2X35 BRUNITA			
	PIASTR.BLOCC.SPAZZOLINO PLUS60 (BS280 PLUS 60	BRUSH LOCKING PLATE		
661920		BS280/60PL BANDGUIDE STROKE-END		
673854	BS280 NEW-AUT. PIASTRINA FINCORS.PATT.SUP.VTF 500	PLATE BANDGUIDE STROKE-END		
673860	(LAMIERA) PIASTRINA RISC.	PLATE FEEDER STOP PLATE FOR		
674023	AVANZ.NEWAUT. (NEW13) PIATTO SLITTA MOBILE	NEWAUT		
687010	PEZ. X CODICE	MOVING SLIDE PLATE 45X443X15		
688448	BRUN	SPRINGS CONNECTION PLATE BS280		
688737	BS2 80	CYLINDER/BRAKE PLATE 40X10X173		
688802	PIATTO GUID.ANT.SCOR. 280 NEW	NEW SLID. BAND GUIDE PLATE		
688820	NEW	280 NEW FIX. BACK GUIDE PLATE	RE	
695115	PORTAGOMMA PG8-4 D.8 INT.X1/4" DIRITTO	RUBB.HOSE CONNECTOR PG8- 4 D.8 NYLON RUBB.HOSE	molls!	SCHLAUCHANSCHLUSS D.8 PG8-4
696080	R1/8	CONNECTOR GES6	LTL C	
696346	PORTAGOMMA NYLON WES8 R1/2 GOM ITO	NYLON PUSH-ON CONNECTOR R1/2		NYLON ANSCHLUSS R1/2 KNIE
697300	PORTA PLACCHETTE PATTINO BS350	GUIDE 350		EINSATZLAGER FUER BANDFUEHRUNG
699580	NASTRO 280 350 FRONTALE	BAND FRONT STROKE-END HOLDER		BAND VORD. ENDSCHALTER TRAGER
699591	PORTA FINCORS.ARCO FINE TAGLIO (MACCHINE CON TASTATORE)	STROKE-END HOLDER NEWAUT		ENDSCHALTER TRAGER NEWAUT
707195	PULEGGIA D.320X14 POST.BS280	BACK PULLEY D.320X14 BS280		
707209	PULEGGIA D.320X72 ANT.BS280	FRONT PULLEY D.320X72 BS280		
707313	PULEGG. HTD TL 38-5M-15F CHIAR AVALLI X NEWAUT300350			
714785	QUADRO DERIV.REFR.ARCO 280AFIE	COOLANT JUNCTION BOX BS280AFIE		
716145	RACCORDO GOMITO G- 4MF=5020A1/4	ELBOW CONNECTION G- AMF=5020A1		KNIEVERBINDUNG G- AMF=5020A1
716823	RACC.OLIO DIR.D.6 1/4"CIL=E211 -106S	OIL CONNECTION D.6 1/4"		
716834	RACC.OLIO DIR.D.8 1/4"CIL.E211 -108L	OIL CONNECTION D.8 1/4"CILE211		OELLEITUNG D.8 1/4" CILE 211
719061	RACC.OLIO GIR.D.8 1/4"CIL.E321 -108L=TN131	OIL CONNECTION D.8 1/4"CILE321		
719073	RACC.OLIO DIR.D.6 1/8"CON. RACC.OLIO GOM.BSP F91-110	OIL CONNECTION D.6 1/8"		
719108	3/8- 3/8 (BS350 AFI-E) RACCORDO T-4FFM-L=4050 DA	OIL CONNECTION 3/8" F91-110 CONNECTION T-4EEM-I =4050		
722345	1/4" REGISTRO MISURA	ALUMINIUM LENGTH STOP	2	T-VERBINDUNG 4FFM-L 1/4" ALUMESSANSCHLAG + 2
725445	ALLUM.+2VITI FORI D.20/12	DEVICE	SUPPORT DIA 20	SCHRAUBEN

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Instruction Manual for BS-300/60 AFI-E (B100) 10/12/2014 Page 60 INSTRUCTIONS FOR USE 727785 RIDUZ.OLIO 1/4"M-1/4"F REDUCTION 1/4"M 1/4"F **REDUKTION 1/4"M 1/4"F RIPARO ANTER.NASTRO BS280** FRONT SAW BAND COVER 28542 NEW 3S280 NEW RIPARO NAST.POST.280/60 BACK BLADE NEW COVER,280 п NEW PA TTINO 728560 NEW **RIPARO NASTRO** BACK BAND COVER BS280/60 728563 POS.BS280/60 NEW NEW **RISCONTRO REGISTRO** WORKPIECE OUTLET 732900 SCAR.PEZZI BS280 AFI-E ADJUSTAB.STOP 734694 RONDELLA RAME 1/4 **COPPER WASHER 1/4** 734698 **RONDELLA RAME 1/8 COPPER WASHER 1/8** RONDELLA ALLUMINIO 1-4 734745 ALUMINIUM WASHER 1-4 ALU DICHTRING 1-4 RONDELLA APPOGGIO SS22X32X2 DIN 988 HRC45 AUFLAGE-FEDERRING 735602 SUPPORT WASHER SS22X32X2 S22X32X2 П RONDELLA APPOGGIO 735755 SS30X42X2,5 DIN 988 HRC45 WASHER SS30X42X2,5 RONDELLA POLIURET.ARANCIO D.47 VITE 736000 AVANZ.NC WASHER D.47 BS340PR RONDELLA 35X12X6 737845 SVASAT.BRUNIT WASHER 35X12X6 RONDELLA APPOGGIO RONDELLE VOLANT 741509 S20X28X2 DIN 988 HRC45 SUPPORT WASHER SS20X28X2 DICHTRING SS20X28X2 SS20X28X2 RONDELLA 35X9X5 7<u>417</u>25 SPIANAT.BRUN. VKS300/280 WASHER 35X9X5 П SPEZIALUNTERLEGSCHEIBE 742100 RONDELLA 35X8X5 BRUNITA **BURNISHED WASHER 35X8X5** 38X8X5 RONDELLA 40X30X10,5 SVASATA (GREZZO = AVP D.40 742282 BARRA) WASHER 40X30X10,5 RONDELLA 45X35X10,5 742333 SVASATA WASHER 45X35X10.5 RONDELLE 45X35X10.5 FEDERRING 45X35X10,5 742431 RONDELLA 35X10X6 BRUNITA **BURNISHED WASHER 35X10X6 RONDELLA SPECIALE D.20X5** SPECIAL BURNISHED WASHER SPEZIALUNTERLEGSCHEIBE 744045 BRUN RONDELLE D.20X5 D.20X5 20X5 RONDELLA APPOGGIO П SS9X15X1.2 DIN988 HRC45E SUPPORT WASHER 744500 DICHTRING SS9X15X1,2 DIN988 CILINDRI PN/IDR SS9X15X1,2 RONDELLA APPOGGIO SS13X19X1,5 DIN988 HRC45 SUPPORT WASHER AUFLAGE FEDERRING 744550 AVANZAT.280AFIE SS13X19X1.5 SS13X19X1.5 RONDELLA STAMPATA 744611 PRINTED WASHER 5X15X1,2 5X15X1,2 GEDRUECKTER FEDERRING 744715 RONDELLA STAMPATA 6X18X2 PRINTED WASHER 6X18X2 6X18X2 744820 RONDELLA STAMPATA 8X24X2 PRINTED WASHER 8X24X2 П RONDELLA STAMP.12X30X4 GEDRUCKTER FEDERRING 744987 BRUNITA PRINTED WASHER 12X30X4 12X30X4 RONDELLA STAMPATA 744998 14X35X3 PRINTED WASHER 16X40X3,5 RUBINETTO ART.6310 1/8"MF 755801 (DISTR.REFRIG.280 AFIE) COCK 6310 1/8"MF HAHN 6310 1/8"MF **RUBINETTO SFERA ART.400** 1/4"FF FEM/FEM (ART.6300 -1/4 7<u>55</u>888 FFAGNE COCK ART.400 1/4" FEM/FEM RULLO D.40X383 AVANZATORI 759110 FEEDER SLIDE ROLLER AFI-E AFI П RIIIO AP.VERT.40x168+30xM12X20 VERT.ROLLER FEEDER NEWAUT 759170 NEWAUT RULLO GL/10 60Z C400 D10 ROLLER GL/10 60HZ C400 ROLLER GL/10 60HZ C400 S1.5 MOLLA 759501 ACC.ZINC.(RULLIERE W40) D10S1,5 D10S1.5 BUERSTE FUEHRUNGSRAD RUOTA **BRUSH DRIVE WHEEL FOR BS** 763200 TRASCINAM.SPAZZOL.BS350 350 FUER BS35 SCIVOLO

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SCARIC.COL.NEWAUT.280

NEWAUT.BASE UNLOADED

SHUTE 280

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INSTRU	ICTIONS FOR USE			
780850	SNODO UNIBALL SMG10 M10 MASCHI O	UNIBALL JOINT SMG10 M10		UNIBALL GELENK SMG10 M1 ZAPFE
785768	SPAZZOLA NYLON D.75x20	NYLON BRUSH D.75X20	BROSSE NYLON D.75X20	NYLON BUERSTE D.75X20
786162	SPIA OLIO HE45 PERFECT- RECORD- 280 COD.12001	OIL SIGHT GLASS HE45 PERF/REC	PERFECT-RECORD BOUCH. NIVEAU	OELSCHAUGLAS HE45 PERF/REC
792331	SPINA TENDINASTRO BS300350 M12 D.16X290	BAND TENSIONING ROD 280350 NEW		VORDERER BANDSPANNER STIFT
792823	SPORTELLO FISSO DX.COL.BS300 A FI-E NEWAUT	FRONT FIX DOOR FOR BASE		
792845		FRONT MOB.DOOR FOR BASE NEWAUT		
796930	SQUADRETTA PORTA REGOLATORE VE LOCITA'	REGULATOR SUPPORT PLATE		REGLER AUFLAGEPLATTE
700040	STAFFA BLOC.GUIDALAM	BS280NEW		
798940 851828	BS280 NEW SUPPORTO GRUPPO TASTAT.BS300	BLOCK.BRACKETS.BLAD.G		
851898	SUPPORTO GUIDA TASTATORE BS300			
855311	SUPPORTO X COPRIAV.BS280 AFI-E	FEEDER COVER SUPPORT BS280AFIE		
857136	SUPP/CHIOCC.AVANZ.LAVORA T.AFIE	FEEDER LEADNUT SUPPORT AFIE		
863155	SUPPORTO SPAZ.SALDATO 300/60NC	-		-
364381	TAPPO+DADO FIL.PG29 NYLON TAPPO	PLUG+NUT PG29 NYLON		
864623	OLIO+GUARN.1/2"CIL.=E336 FOSFATATO NERO	OIL TANK PLUG AND GASKET 1/2"		VERSCHLUSSSTOPFEN 1/2"
864724	TAPPO OLIO+GUARN.1/4"CIL.=	OIL PLUG+GASKET 1/4"	nala	
865362	TAPPO+ASTINA ALS 2-18	PLUG+BAR ALS 2-18	and Br	
910710	TARGHETTA GRAD.MORSA BS280/60 (Oଂ60୩	VICE GRADUATED PLATE BS280/60		
918687	TASTIERA CONTR.TRON R20 10+10/ DAC CEB AU	EL. KEYBOARD TRON 10+10		
928923	TESTATA ANT.AVANZ.BS300NEWAUT	FEEDER FRONT HEAD NEWAUT.		
929031	TESTATA POST.AVANZ.NEWAUT.AFNC (SAW2++)	FEEDER REAR HEAD NEWAUT. NC		
929290	TIRANTE M10X95 CENTR.IDR.AFI-E	TIE ROD M10X95 AFIE		
929312	TIRANTE M12X62 OTTONE BS230	TIE RODS M12X62		
929342	TIRANTE M12X115 MORSA 280AFI-E	TIE ROD M12X115 FOR VICE 280AF		
933571	TUBO R6 3/8" 4500+FEMM.REC.3/8 " 350 AFI-E	TUBE R6 3/8"		
933572	TUBO R6 3/8" 3450+FEMM.REC.3/8 " 280 AFI-E	TUBE R6 3/8" 3450		
933625	TUBO R6 3/8" 1500+FEMM.REC.3/8 TUBO R6 3/8"	TUBE R6 3/8" 1500		
933633	1200+FEMM.REC.3/8 " 280SHIE TUBO RETINATO 8X14	TUBE R6 3/8" 1200		
935500	ARIANNA TUBETTO GEMMA 8X12 = 80	PLASTIC TUBE 8X14 ARIANNA		SCHLAUCH 8X14 ARIANNA
936245	GR/MT. TUBETTO GEMMA 6X9 = 45	COOLANT HOSE 8X12		
936359	GR/MT. TUBO R7	TUBE 6X9		
936865	1/4"4300+CODOL.d8:2DIR ITTI KS450	TUBE R7 1/4" 4300		
007744	TUBO R7 3/16"1330+CODOL.d6:1DI R/1-			
937711		TUBE R7 3/16" 1330		

VITE TPN25

VASCA RACC.TRUCIOLI NEWAUT.300 AFI-E (NEW04)

941023

955123

CHIPS CONTAINER NEWAUT.

FEEDER POSIT.SCREW

BASE

		Instruction Manual for BS-30	0/60 AFI-E (B100)	10/12/2 	
INSTRU	UCTIONS FOR USE				
	POSIZ.AVANZ.NEWAUT	NEWAUT			
	(NEW12)	NEWAOT			
956843	VITE TE M14X30 SIN.SVASATA	LEFT SCREW TE M14X30	VIS GAUCHE TE M14X30		
	VITE MORSA BS300/60 AFI-E	VICE SCREW FOR BS 280		SCHRAUBSTOCK SCHRAUB	
957143	NEWA UT	NEWAUT		NEWAUT	
	VITE CHIUS.PINZA AVANZ.NEWAUT BS300/350	FEEDER VICE CLOSIN.SCREW		VORSCHUBSCHRAUBSTOCH	
957156	AFI-E-NC	AFINC		SCHRAUBE	
958928	VITE SENZA FINE BS280	ENDLESS SCREW BS280		SCHNECKE BS 280	
	VITE REGOLAZIONE M24X2				
961114	XT410	XT410 M24X2 REG. SCREW		-	
962390	VOLANTINO ART.751-32-M8X30 BS280	WHEEL 750-32-M8 BS280			
502000	VOLANTINO ART.765M12				
962395	BS230	WHEEL 765M12			
	VOLANTINO 19912520H7PFT-O IMET FINITO				
964234	(PRECED.GE0016A6)	WHEEL 19912520H7PFT-O		HANDRAD 19912520H7PFT-0	
	CILINDRO AVANZ.AFI-NC				
T22930	PREMONTA TO	FEEDER CYLINDER AFI-NC			
	the cutting unit moves up or o ire in the plug.	lown everything is OK; if not	hing moves, disconnect ar	:	
	(NOTE: if the emergengy button is pressed, nothing moves and the display shows "Er0020")				
	NOTE: if the emergency butto	n is pressed, nothing moves		nd reverse two of the	
	NOTE: if the emergengy butto - This is a semiautomatic &			nd reverse two of the	
2		automatic machine;	and the display shows "E	nd reverse two of the r0020")	
2	- This is a semiautomatic & § use keys 16 / 17 to move	automatic machine;	and the display shows "E	nd reverse two of the r0020")	
2	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in higher the semiautomatic semiautom	automatic machine; upwards the blade 10 mm a downwards the blade below gh position	and the display shows "E bout over the piece to be o the piece to be cut	nd reverse two of the r0020") cut,	
2	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in hig If you carry out well these	automatic machine; upwards the blade 10 mm a downwards the blade below gh position	and the display shows "E bout over the piece to be o the piece to be cut	nd reverse two of the r0020") cut,	
2 3 S	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in hig - If you carry out well these EMIAUTOMATIC cycle:	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible	and the display shows "E bout over the piece to be o the piece to be cut e that the machine starts	nd reverse two of the r0020") cut, to work in	
2 3 S P	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in hig If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulat	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t	and the display shows "En bout over the piece to be of the piece to be cut e that the machine starts the cutting unit goes down	nd reverse two of the r0020") cut, to work in fastly, slows down 10	
2 3 5 M m	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in hig If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulat hom over the piece, cuts and the	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u	and the display shows "En bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed.	
2 3 5 1 1 1	This is a semiautomatic & § use keys 16/17 to move § " " 16/17 to move of § " " 16 to return in high If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulate the piece, cuts and the is better to make some cuts	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u s to check the cutting spec	and the display shows "En bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be and others working co	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u>	
3 3 9 1 1 4	- This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in hig - If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulat of over the piece, cuts and the is better to make some cuts - Push together keys 4+25 to	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u s to check the cutting spec to prepare AUTOMATIC CU	and the display shows "En bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be and others working co JT: if all is OK, button 25	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u> flashes;	
2 3 9 m <u>It</u> 4 §	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in high If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulate to mover the piece, cuts and the is better to make some cuts - Push together keys 4+25 to adjust the feeder stroke = 0	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u s to check the cutting spec to prepare AUTOMATIC CU	and the display shows "En bout over the piece to be of the piece to be cut the that the machine starts the cutting unit goes down p if the function F3 has be and others working co JT: if all is OK, button 25 gital indicator, turn the who	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u> flashes;	
2 3 9 1 1 4 § (5	- This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in hig - If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulat of over the piece, cuts and the is better to make some cuts - Push together keys 4+25 to	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u s to check the cutting spec to prepare AUTOMATIC CU inlock the lever under the dig n blade thickness)* and clos	and the display shows "En bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be and others working co JT: if all is OK, button 25 gital indicator , turn the who e the lever	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u> flashes;	
2 3 9 1 1 4 8 (5	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in high If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulate the piece, cuts and the is better to make some cuts - Push together keys 4+25 to adjust the feeder stroke = 0 500 mm piece lenght + 1.5 mm	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u s to check the cutting spec to prepare AUTOMATIC CU inlock the lever under the dig n blade thickness)* and clos eys 4 and 18 = opening; 4 ar	and the display shows "En bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be and others working co JT: if all is OK, button 25 gital indicator , turn the who e the lever and 19 = closing)	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u> flashes; eel until you read 501.5	
2 3 S P n <u>It</u> 4 § (! § § s	This is a semiautomatic & § use keys 16 / 17 to move § " " 16 / 17 to move of § " " 16 to return in high If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulate the piece, cuts and the is better to make some cuts - Push together keys 4+25 to adjust the feeder stroke = u 500 mm piece lenght + 1.5 mm adjust the feeder vice = (key select the number of feeder troke; 2 for two stroke; 3 for the the feeder stroke; 3 for the the feeder stroke; 3 for the select the number of feeder troke; 2 for two stroke; 3 for the the feeder stroke; 4 for the stroke; 4 for the the feeder stroke; 4 for the stroke; 4 for the stroke; 4 for the the feeder stroke; 4 for the s	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , t en goes up. It does not go u s to check the cutting spec to prepare AUTOMATIC CU inlock the lever under the dig n blade thickness)* and clos eys 4 and 18 = opening; 4 ar r stroke = keep pushed key uree stroke; max. 29 stroke.	and the display shows "En- bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be and others working co JT: if all is OK, button 25 gital indicator , turn the who e the lever and 19 = closing) 26 and push key 11 or 13 Release key 26	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u> flashes; eel until you read 501.5 to select : 1 for one	
2 3 5 9 1 4 8 8 8 8 8 8 8 8 8 8	This is a semiautomatic & § use keys 16/17 to move § " " 16/17 to move of § " " 16 to return in high If you carry out well these EMIAUTOMATIC cycle: Push key 20 to make a simulate to mover the piece, cuts and the is better to make some cuts - Push together keys 4+25 to adjust the feeder stroke = u 500 mm piece lenght + 1.5 mm adjust the feeder vice = (key select the number of feeder troke; 2 for two stroke; 3 for the select the number of pices	automatic machine; upwards the blade 10 mm a downwards the blade below gh position e regulations, it is possible ed cut; if everything is OK , the en goes up. It does not go u is to check the cutting spect to prepare AUTOMATIC CU unlock the lever under the dig n blade thickness)* and close eys 4 and 18 = opening; 4 ar r stroke = keep pushed key uree stroke; max. 29 stroke. to be cut = keep pushed the	and the display shows "En- bout over the piece to be of the piece to be cut a that the machine starts the cutting unit goes down p if the function F3 has be and others working co JT: if all is OK, button 25 gital indicator , turn the who e the lever and 19 = closing) 26 and push key 11 or 13 Release key 26 e key 27 and push key 11	nd reverse two of the r0020") cut, to work in fastly, slows down 10 en chosed. <u>onditions.</u> flashes; eel until you read 501.5 to select : 1 for one or 13 to select one by	
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* The above point is OK for 1 feeder stroke. In c	ase of 2 feeder	r stroke yo	ou have to	o act as fe	ollows:	piece
lenght divided into 2 + blade thickness divided 2.						

In case of 3 feeder stroke you have to act as follows: piece lenght divided into 3 + blade thickness divided into 3. And so on for 4, 5, 6, ...

5 - If you carry out well these selections, it is possible that the machine starts to work in AUTOMATIC cycle:

Push key 20 to start the automatic cycle; if everything is OK the feeder moves backwards to take the material an the key 20 flashes.

6 - Push again key 20 to start definitiverly the automatic cycle.

It is better to make some cuts and verify the lenght of cutted pieces in order to correct it by the decimal regulator putted at the end of feeder cylinder. (1 CLICK = 0,1 mm).

NOTE : when the bar ends, the program returns to semiautomatic cycle.

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INSTRUCTIONS FOR USE	
You have to change the material, cut the initial scrap of the bar, and after return to the autom	hatic cycle by \Box
pushing keys 4 + 25. Operate as indicated to point 5.	
If more that 10 minutes passes before any key is pushed(and machine is not running) the el	lectronic control
switch-off the motor of the oil hydraulic unit. To switch-on the motor again, push any key: the	e display shows
for one second a serie of flashes.	
ER0001 error in the configuration EEPROM	
ER0002 error in the data checksum in EEPROM 1 1st. block	
ER0002 error in the data checksum in EEPROM 2 2nd. block	
ER0004 error in the data checksum in EEPROM 3 3rd. block	
ER0005 error in the saved data in the permanent memory	
ER0020 emergency active (emergency pushed?)	
ER0021 motor overload protections (overheated motor?)	
ER0022 open carter	
ER0023 broken band	
ER0024 FREE	
ER0025 blocked inverter (motor under stress?)	
ER0026 too high motor absorption	
ER0027 not correct position of the tool for starting the cutting cycle (blade locked in the	he workpiece?)
ER0028 vice pressure problem (vice too open/oil pressure?)	
ER0029 blade unblocking -for SIRIO models only-	
ER0030 bar end - in automatic cycle - (end of the material?)	
ER0031 carriage not in correct position - for starting the automatic cycle -	
ER0032 feeder vice (vice too open/closed?)	
ER0033 piece counter selection on 0 (for automatic cycle)	
ER0034 OIL PUMP DEACTIVATED - for hydraulic models - or DISCONNECTED AIR -	for hydroppeumatic
models	
ER9999 overflow in the machine timer (it is necessary to switch the system off and then on).	•
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