

Owner's Manual Elleva Max 500



QR-Code:



Point your mobile phone camera to access the updated online version of **Technical Manuals** and **Parts Catalogs**, or click on the link below to access the website.

www.sites.google.com/view/menegotti-engenharia-docs

Attention:

Before operate **Menegotti** equipment, read this **technical manual**, itself will inform and instruct the operator about the operation. By the way, you avoid possible working accidents and early maintenance on at the equipment.

elleva

MAX 500

MENEGOTTI[®]
HANDLING



Introduction	03
Menegotti Group	04
The Manual	05
Product Identification	06
Safety Information	08
Technical Specifications	09
Equipment Operation	11
Cleaning and Conservation	16
Elleva MAX 500 Elleva MAX 500 EX	17
Transmission System	18
Boom Lifting System	19
Tripod System	20
Telescopic Boom System	21
Accessories	22
Maintenance Plan	26
Technical Assistance	27
Warranty	28

Congratulations, you have just purchased a Menegotti product!

With the highest quality, specially designed and built to serve you within quality standards and with the technology for your needs.

This manual was written and compiled to provide you with the information and instructions required for the use and maintenance of our equipment, as well as data in relation to its technical features.

Prior to operating the equipment for the first time, carefully read all the information contained in this manual.

The durability of your equipment will depend entirely on how it is treated while in operation and satisfactory running is the result of regular care and maintenance.

In the case of requiring technical assistance for the equipment, always call your Menegotti Authorized Reseller, who will be more than willing to help you maintain and conserve your equipment.

The Menegotti Reseller is prepared to offer you all the necessary technical assistance, as well as to meet your needs when it comes to spare parts.

Finally, we would like to take this opportunity to compliment you on choosing a MENEGOTTI product and to assure you that we will do everything to satisfy your needs and to create a happy and long lasting relationship you, the Customer, and our Company.

Welcome, you are now a member of the Menegotti “family of customers”.

MENEGOTTI Post Sales Department
and Technical Assistance.

Menegotti is reference in the development of solutions in machines and tools for the Construction machinery, Handling and Lawn | Garden Segments.

A Brazilian company, present in more than 40 countries, has its headquarters in Jaraguá do Sul, Santa Catarina, units in Brazil and in the United States.

With more than 80th years of history, it is in the fourth generation of consistent and successful family management.

National leader in sales of concrete and cement mixers, it stands out in the resale and rental market. Through its Innovation Program, it fosters creativity and competitiveness, with disruptive actions and partnerships, aimed at continuous professional and business growth.

With an organizational culture that values and encourages its constant professional and personal development, Menegotti is active in sustainable projects, which make its purpose of contribute “to build a better and more sustainable world”, a reality.

The components of the Elleva MAX 500 and the Elleva MAX 500 EX equipment were designed to achieve the best productivity times in terms of efficiency and profitability.

Note: With the objective of constantly improving its equipment, Menegotti reserves the right to alter product characteristics without prior notice.



Owner's Manual

This manual plays an important role in the prevention, operation and warranty mechanism of the equipment. However, to make the mechanism efficient for each and every customer, the following items must be observed, the objective being to set out the preventive care, operating procedures and performance for the purpose of guaranteeing proper use of the Equipment.

On acquiring the product from the Menegotti Reseller or Factory, it is important for the customer to check the advantages offered in relation to this manual, its warranty, as well as the obligations of the user to make use of this and what must be known by both parties.

It is important that the customer is aware of and has a full understanding of the terms of warranty stated in the Owner's Manual, otherwise dissatisfaction could result in the their misinterpretation.

It is the responsibility of the Menegotti Reseller, concerning equipment delivery, to provide detailed information to the customer about correct use of the product and the consequences, if indeed the Factory instructions have not been complied with.

The preventive maintenance recommended in this manual reduces repair or correction time which could occur if same is not observed, as well as complaints under warranty and maintenance costs, thus benefiting the brand image and the product needs of our customer.

Regarding the sale, the Menegotti Reseller or Factory must inform the customer of the warranty period, the coverage, conditions and limitations of the product warranty, according to our Warranty Policy on the back of this manual and show awareness of this through the signing of the Terms of Warranty.

Useful information about the product, manufacturer, safety, spare parts, maintenance and conservation of the equipment is contained in this manual. Store this manual in a handy location for easy consultation whenever necessary.

Elleva MAX 500

Lifting Device

The Elleva MAX 500 Lifting Device is manufactured from a composition of steel tubes and plates. It is designed to handle materials for civil construction, combining great load capacity with speed and safety.

The main purpose of this equipment is to transport loads vertically, within operating capacity. It must be installed by trained professionals. It is an ideal tool for reducing physical effort, increasing productivity and operator efficiency.

Characteristics:

360° turn: The Elleva MAX 500 can turn 360° around its main axis, in order to facilitate material loading and unloading operations.

Lattice type tripod: the great differential of this equipment is the lattice type tripod, providing a significant gain in transport volume.

Transmission system: the equipment comes with a transmission system consisting of a self-braking motor, guaranteeing immediate stopping of load handling. It further has a gear train to provide the necessary power for lifting a 500 kg load at an average operating speed of 25 m/min.

Self-handling system: through the self-handling system, the equipment is able to transport itself from one work level to the next, through its own load power without requiring outside efforts for its handling.

Telescopic boom: the telescopic boom enables the equipment to increase the length of its boom from 1.25 m to 2 m, allowing the lifting of greater load volumes, such as molds and hardware for slabs.

Extended tripod: the aim of the extended tripod is to perform load handling jobs on a level above that which it is installed. This feature serves for transporting molds and hardware to the slab which is yet to be built on the next level.

Various accessories: The Elleva MAX 500 Lifting Device brings with it several accessories to help in the most diverse types of transport, including: Block cart, Block cage, 60l and 90l lifting crates, Hoist Cart, Basket on wheels and Pallet truck. These accessories help provide greater productivity and practicality, combined with ergonomics and safety, making this equipment versatile, practical and efficient for the most varied applications.

Nome:
Elleva MAX 500

Capacity:
500kg

Significance:
Maximum Productivity
Maximum Innovation
Maximum Practicality
Maximum Safety
Maximum Lifting

CONCEPT

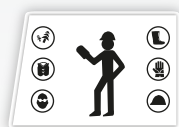
The concept of the Elleva MAX 500 is to offer the customer and operator equipment for lifting loads in civil construction with maximum practicality, speed and safety, taking into consideration all the systems that facilitate the operation in order to reduce work time, increase productivity and improve profitability.



Safety Information



- First carefully read the procedures in this Manual. Removal or alteration to any safety device on the equipment is expressly forbidden. In case of any problem, damaged or missing parts, immediately contact the Menegotti Authorized Service or the Technical Assistance Department at the Factory by phone at +55 (47) 3275-8000, for notification and request for corrective action.



- Maintain an exclusive area for working with the equipment, always keeping the location clean, and free of any obstructions and well lit. The operator must be qualified for operating this type of equipment. It is important to cordon off the location where load handling is performed and prevent people from entering this area, creating a safe space around the equipment. Do not use loose clothing, which could get caught in the machine. Always wear gloves, safety glasses and ear protection in accordance with the NR12 standard.



- The motors must undergo periodical maintenance, according to the manufacturer's instruction, conducted by qualified people within the recommended time.

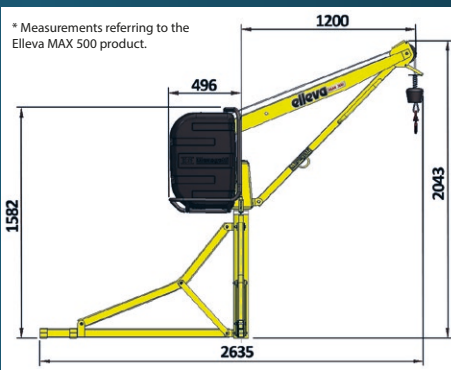
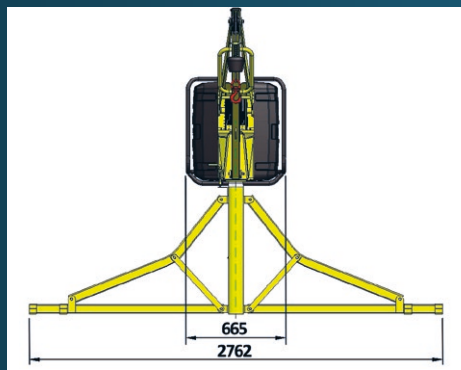


- Inspect all electrical extensions, especially for cuts, frayed cable and broken connections. Do not use extensions that are not in perfect condition. Never use wet extensions or operate in damp environments (e.g.: wells). When cleaning the equipment, do not throw water on the motor. Always when performing maintenance or cleaning, disconnect the power cable from the electrical supply.



- Considering that maximum noise level during operation can reach up to 85 dBA, the use of ear protection is recommended during prolonged operation. The use of a helmet is also compulsory in these types of operations as well as the use of other protective equipment.

Lifting Capacity	500 kg	
Lifting Height	80 m	
Lifting Speed	25 m/min	
Turning Angle	360°	
Boom Length	1.2 m (optional with up to 2 m)	
Motor	Three phase 3 HP Brake Motor 220V	Three phase 3 HP Brake Motor 380V
Steel Cable Specification	Ø½" 19 x 7 AA Non rotational IPS Ø ⁵ / ₁₆ " 6 x 19AF/IPS	
Net Weight	215 Kg	
Dimensions	Height: Width: Length:	2043 mm 2762 mm 2635 mm



* Measurements referring to the Elleva MAX 500 product.

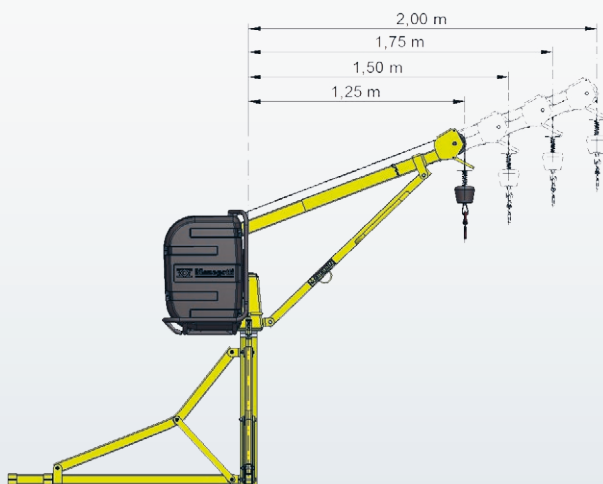
Telescopic Boom

The telescopic boom consists of tubes and plates, in which the larger tube acts as a bearing for the smaller tube, which moves inside this. Through the 4 work positions, it is possible to increase the boom length from 1.25 m to 2 m, providing greater practicality and versatility in addition to greater safety and ergonomics in the transporting of loads.

Important: As the boom is extended, increasing operation length, the new load limit must be respected, see following table:

Position 1	1.25 m Boom	500 kg Load
Position 2	1.50 m Boom	420 kg Load
Position 3	1.75 m Boom	360 kg Load
Position 4	2.00 m Boom	300 kg Load

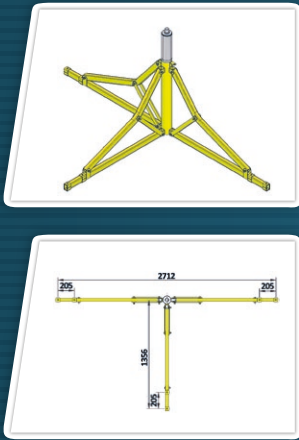
Elleva MAX 500 EX Loading Diagram



Equipment Operation

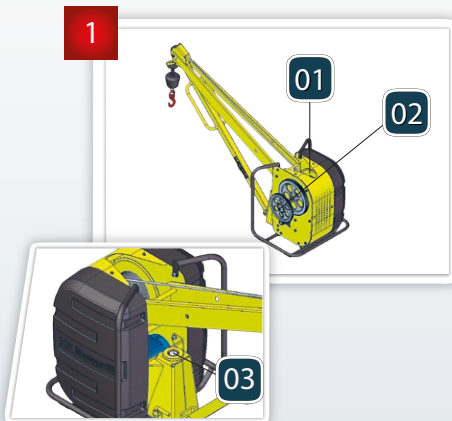
1. Conditions required before using the equipment.

Installation



Fix the tripod with six 5/8" parabolts according to the holes shown in the figure on the side, in order to obtain a firm fix, drilling depth using a 5/8" bit should be at least 10 cm. Another fixing alternative is to make through-holes and fix with a threaded rod, with nut and washer under the slab and on top of the tripod.

Important: Fix the equipment to the slab after the concrete has been cured. Never use concrete blocks, cement bags or any other type of fixing, other than that recommended in this manual.



Lubrication

All lubricating points indicated in the figure on the side must be lubricated with LITHIUM GREASE before operating the machine, according to maintenance plan on page 26.

Lubricating points:

- 01. Steel cable
- 02. Gears
- 03. Tripod bearing

2



Electricity Supply

Voltage must be selected by changing the connection according to that specified in the electrical diagram below. Run a complete check on the electrical system, identifying possible exposed wires or poor contacts, also check the supply (220/380V), because if incorrect motor voltage is selected this can cause serious damage to the equipment.

Install 3P + N +T industrial socket for 16 A plugs, according to below figure.

For machine 380V, Standard plug 5 pins 16A.

For machine 220V, Standard plug 4 pins 32A.



Important: Execute the bridging of terminals 10, 11 and 12 for voltage required 220/380V as per the guidance in the electrical schema. Also execute the bridging of terminals 1 to 6 for connecting the motor in 220/380V as per the guidance in the electrical schema.

CONNECTION LIST OF TERMINALS AND PLUGS

ESSM0070

SCREEN NAME																													
X1	FUNCTION TEXT																												
	BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP 2.5/4T BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP 2.5/4T BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP 2.5 BTWP																												

Electrical Scheme

PROTECTION
CIRCUIT BREAKER

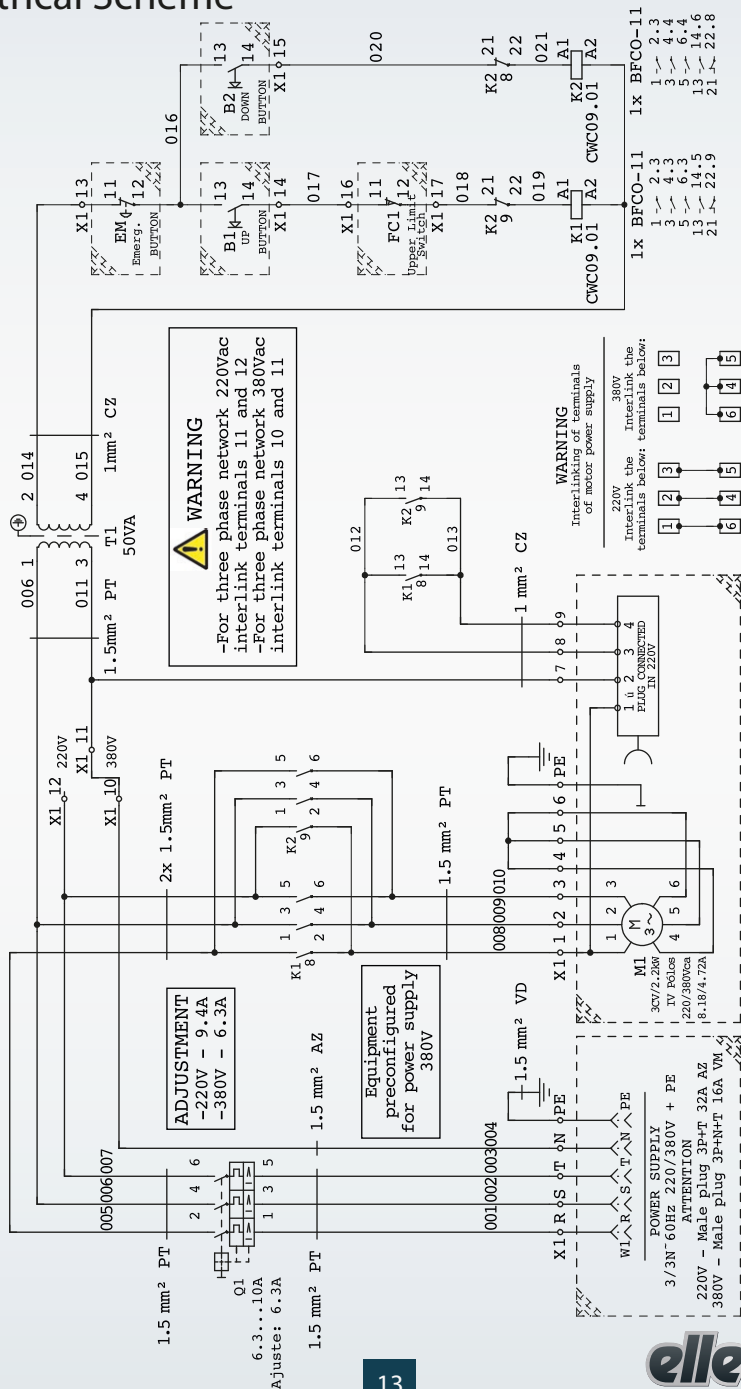
MOTOR ELLEVA
MAX 500

SELECTION OF

SINGLE PHASE TRANSFORMER
110+110Vca/24Vca
50VA

UP
ELLEVA
MAX 500

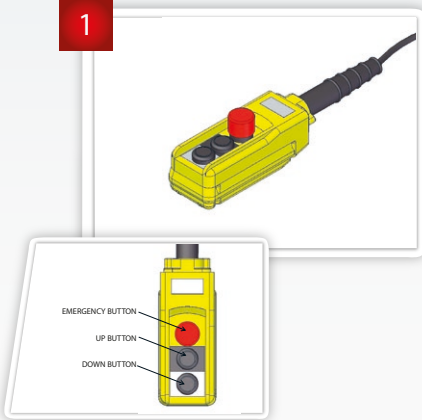
DOWN
ELLEVA
MAX 500



Equipment Operation

2. Equipment operation

1

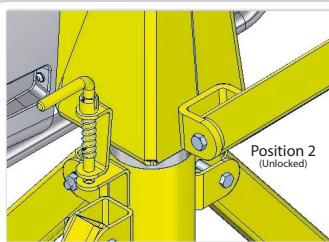
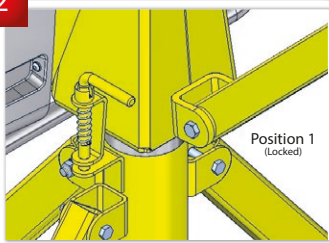


Start and Stop

Once all the installation, lubrication and electrical supply conditions have been satisfied, the lifting device is ready to go into action handling loads on the job site.

To start operations, activate the up or down buttons as shown in the figure on the side. To interrupt the operation, activate the up or down buttons to stop operation immediately through the electric motor brake. The equipment has an emergency button which can be activated should the need arise.

2

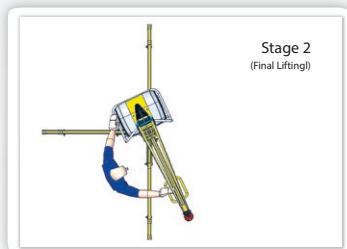
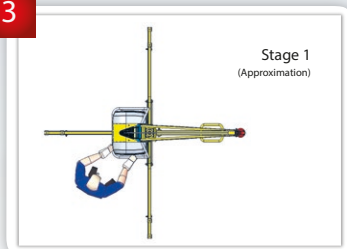


Vertical and Lateral Movement of Transported Load

During the vertical load lifting operation maintain the equipment in Position 1 - Locked.

To move the load sideways unlock the equipment, placing it in Position 2 - Unlocked, as shown in the illustration on the side.

3



Approximation and Final Load Lifting

After lifting the load vertically it must be moved to the side to enable loading and unloading of the transported materials.

The sideways moving procedure must be performed in two stages, according to that shown in the figure on the side, thus minimizing operating risks as much as possible.



Conservation Cleaning and

To prolong the useful life of the Elleva MAX 500, it is essential to perform daily cleaning. It is extremely important to remove any type of from the equipment but water contact with electrical parts must be avoided.

For owner satisfaction and equipment conservation, the following steps are recommended:



- Carefully clean all machine components.
- Do not throw water on the machine's electrical parts.
- Lubricate specified parts with the grease recommended in the maintenance plan.
- Take care to prevent dirt from entering the steel cable reel.
- When winding or unwinding the steel cable from the reel, it must be tensioned through minimum weight of the counterweight. Help manually to roll the first layers properly, this will increase the useful life of the cable.
- The unwinding of the last 5 twists of the cable layer is not recommended.
- Always keep the cable stretched to prevent it from unwinding from the reel.
- Thus, it is recommended that the hook not touch the ground or other locations that relieve tension caused by the counterweight.
- Always use 3 fixing clamps at the end of the cable.
- The steel cables must be periodically lubricated, protecting them from corrosion and reducing inside and outside friction, thus increasing their durability.
- Never use burnt oil to lubricate the cables, as this is an acid liquid that can, instead of protecting, accelerate the corrosion process and normally presents particles that actually increase cable wear through abrasion.
- Some signs indicate the right moment for replacing the steel cable, the most common ones being: frayed wires; pronounced corrosion in the cable, visible wear apparent in the outside wires; bending and crushing.

Daily Check

- Visual inspection of the iron cable and electrical wires;
- Check if the equipment goes up and down according to the button pressed;
- Check if the emergency button is working normally;
- Carry out the maximum elevation in order to check if the operation limit stop switch is working;
- Check all the equipment fixation points;
- Check the physical integrity of the equipment.

Product Specifications

Elleva MAX 500 Lifting Device

Three Phase 380V | 60Hz - CODE 40230647

Three Phase 220V | 60Hz - CODE 40230663

Elleva MAX 500 EX Lifting Device

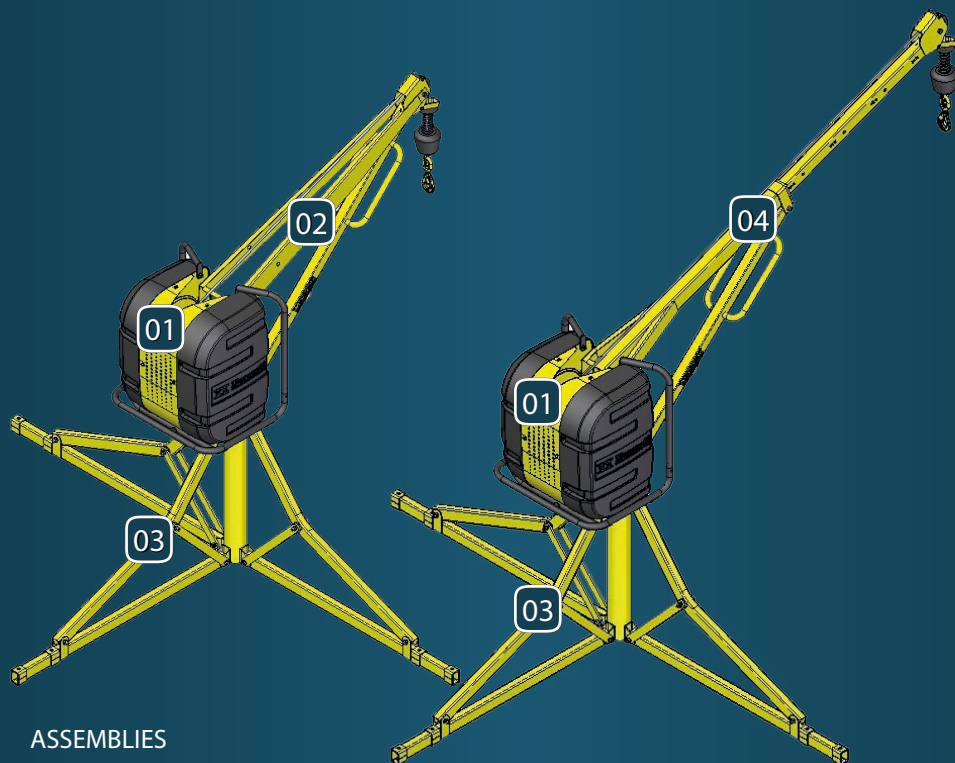
Three Phase 380V | 60Hz - CODE 40230648

Three Phase 220V | 60Hz - CODE 40230664

Three Phase 380V | 50Hz - CODE 40230667

elleva MAX 500

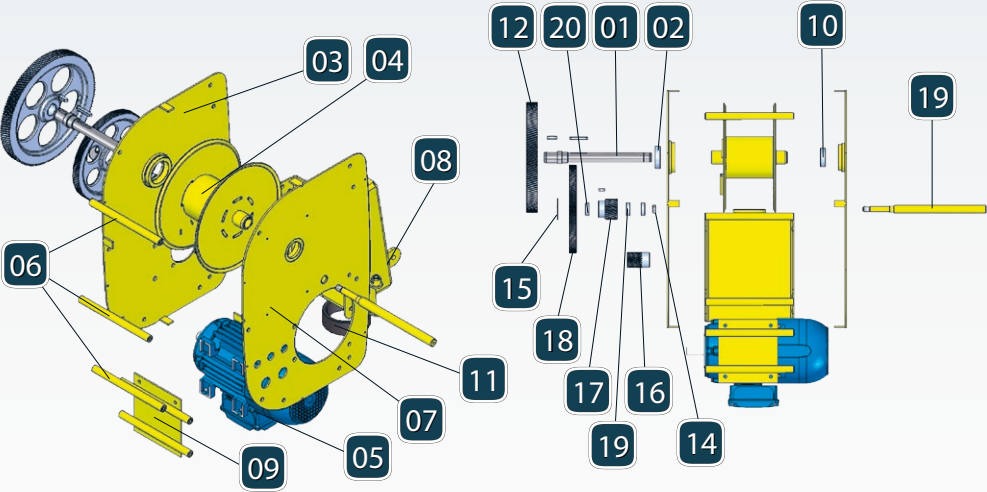
elleva MAX 500 EX



ASSEMBLIES

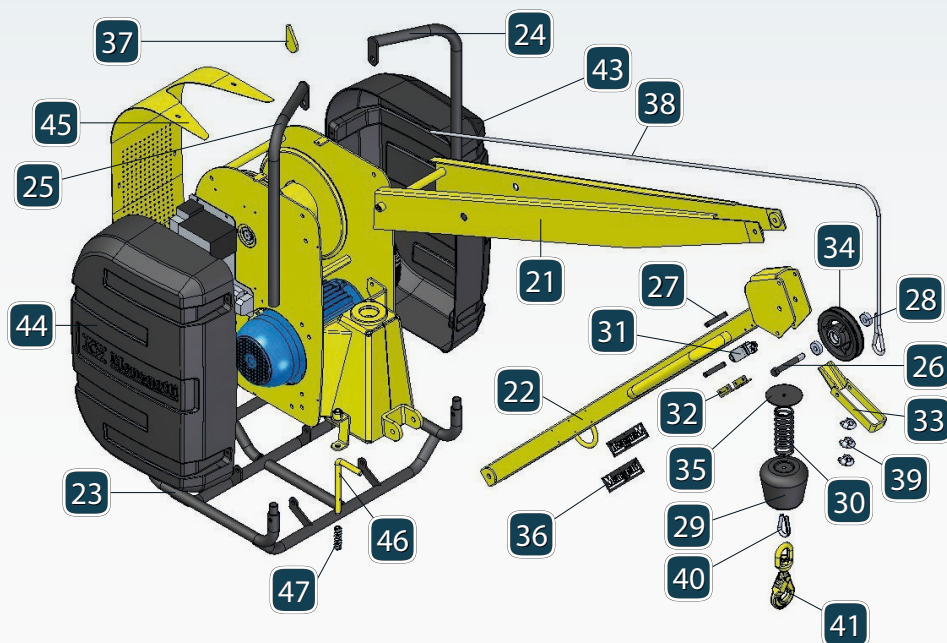
- 1 – Transmission System - page 18
- 2 – Boom System - page 19
- 3 – Tripod System - page 20
- 4 – Telescopic Boom System - page 21

1. Transmission System



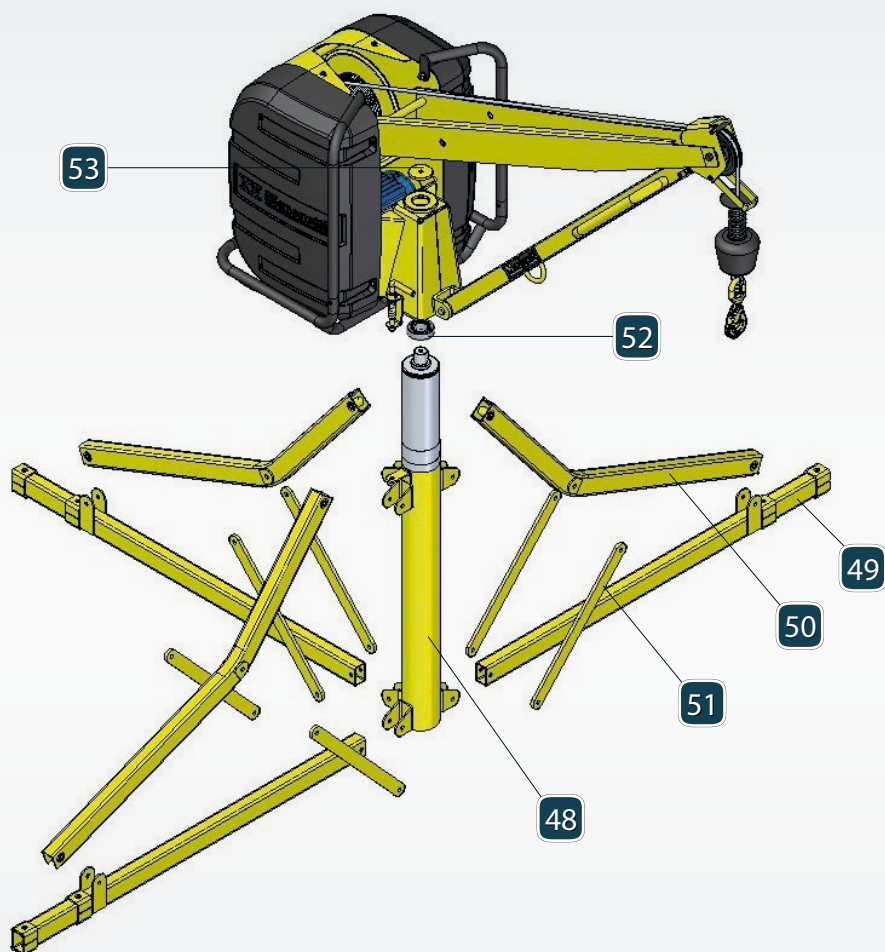
Position	Name	Quantity	Code	DESC. n°
1	Reel Shaft	1	29751016	005.01.024
2	Roll 6206 30 x 62 x 16 2RS	1	29751080	0.04.01.001
3	CJ Left Mirror	1	29751081	005.01.006
4	CJ Reel	1	29751082	005.01.020
5	Motor WEG 3 CV FCDIN with Motor Brake	1	29751025	0.99.01.003
6	Rod	3	29751017	005.01.009
7	CJ Right Mirror	1	29751097	005.01.001
8	CJ Bearing Plate	1	29751083	005.01.012
9	Motor Base	1	29751100	005.01.010
10	Roll 6205 25 x 52 x 15 2RS	1	29751084	0.04.01.002
11	Nylon Bearing Bushing	1	29751034	005.01.032
12	Gear Z=141 M=2	1	29751035	005.01.026
13	Small Shaft	1	29751036	005.01.027
14	Gear Spacer	1	29751037	005.01.030
15	Gear Washer	1	29751040	005.01.031
16	Gear Z=25 M=-1,5	1	29751041	005.01.028
17	Gear Z=25 M=2	1	29751039	005.01.025
18	Gear Z=150 M= 1,5	1	29751038	005.01.029
19	Roll 6202 15 x 35 x 11 RS	2	29751096	0.04.01.007
20	Roll 6202 15 x 35 x 11	1	29751085	0.04.01.008

2. Boom System



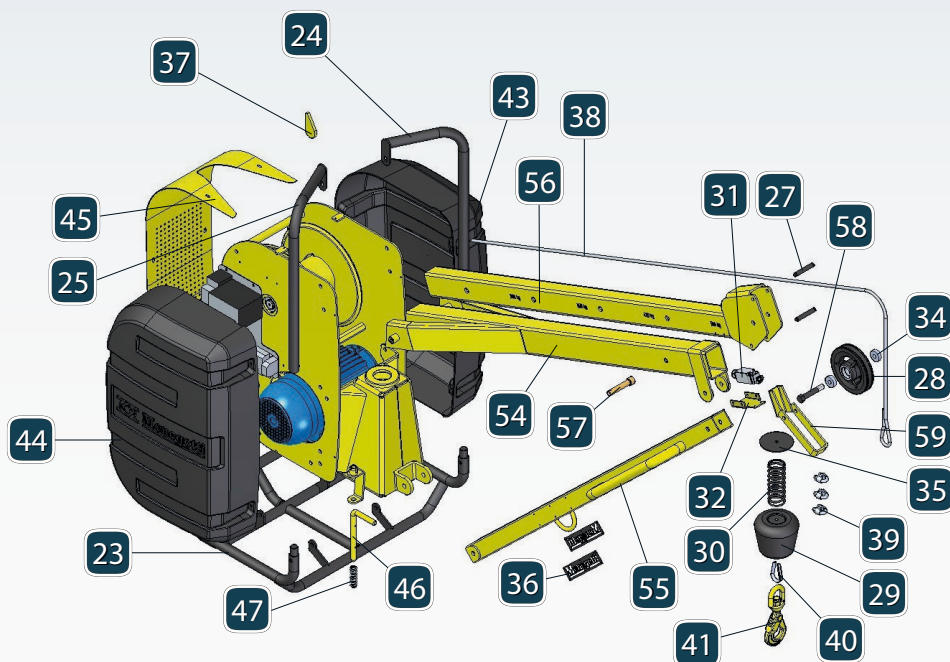
Position	Name	Qt.	Code	DESC. n°	Position	Name	Qt.	Code	DESC. n°
21	CJ Upper Boom	1	29751086	005.02.001	35	Spring Plate Stop	1	29751067	005.02.015
22	CJ Lower Boom	1	29751087	005.02.005	36	Menegotti Logo	2	29751061	005.02.023
23	CJ Base	1	29751088	005.01.033	37	Crimping Wedge	1	29751024	005.01.058
24	CJ Left Front Tube	1	29751090	005.01.049	38	Steel Cb. 1/4" 19x7 AA Non rot. IPS CIMAF	85m	29751065	0.99.00.018
25	CJ Right Front Tube	1	29751089	005.01.048	39	Light Clamp 1/4"	3	29751078	0.99.00.019
26	Head Central Pin	1	29751060	005.02.014	40	Light shoe 1/4"	1	29751077	0.99.00.020
27	Head Outside Pin	2	29751064	005.02.016	41	1Ton Turning Hook with Lock	1	29751069	0.99.00.003
28	Roll 6201 12 x 32 x 10 2Z	2	29751101	0.04.01.004	42	WEG Electrical Control 380V 50 60Hz	1	29751150	005.04.003
29	Counterweight	1	29751066	005.02.019	42	WEG Electrical Control 220V 50 60Hz	1	29751149	005.04.004
30	Hook Spring	1	29751068	005.02.020	43	Left Closing	1	29751074	005.01.044
31	Limit Sensor RP Schemersal	1	29751071	0.99.03.003	44	Right Closing	1	29751073	005.01.043
32	Limit Pad	1	29751070	005.02.017	45	Central Closing	1	29751072	005.01.045
33	CJ Fork Sensor	1	29751091	005.02.011	46	Positioning Pin	1	29751075	005.01.054
34	Pulley	1	29751059	005.02.018	47	Positioning Spring Ret.	1	29751076	005.01.056

3. Tripod System



Position	Name	Quantity	Code	DESC. n°
48	CJ Pedestal	1	29751092	005.03.001
49	CJ Support Foot	3	29751093	005.03.005
50	CJ Support Cross-bar	3	29751094	005.03.011
51	Inside Reinforcement	6	29751010	005.03.010
52	Roll 32207 35x72x24,25 CL	1	29751095	0.04.02.001
53	Column Cover	1	29751129	005.03.014

4. Telescopic boom System



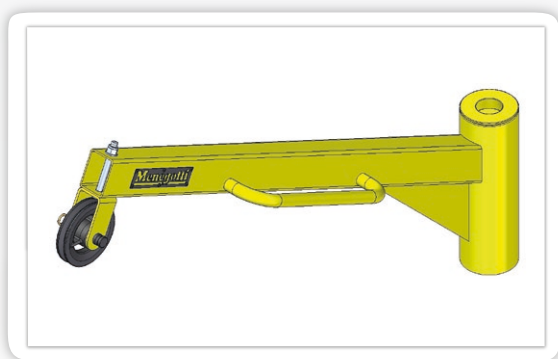
Pos.	Name	Qt.	Code	DESC. n°
23	CJ Base	1	29751088	005.01.033
24	CJ Left Front Tube	1	29751090	005.01.049
25	CJ Right Front Tube	1	29751089	005.01.048
26	Central Pin of Head	1	29751060	005.02.014
27	Head Ext Pin	2	29751064	005.02.016
28	Roll 6201 12x32x10 2Z	2	29751101	0.04.01.004
29	Counterweight	1	29751066	005.02.019
30	Hook Spring	1	29751068	005.02.020
31	Limit Sensor RP Schemersal	1	26100104	-
32	Limit Pad	1	29751175	005.02.068
34	Pulley	1	29751059	005.02.018
35	Spring Plate Stop	1	29751067	005.02.015
36	Menegotti Logo	2	29751061	005.02.023
37	Crimping Wedge	1	29751024	005.01.058
38	Steel Cb. ¼" 19x7 AA Non rot. IPS CIMAF	85 m	29751065	0.99.00.018
39	Light Clamp ¼"	3	29751078	0.99.00.019

Pos.	Name	Qt.	Code	DESC. n°
40	Light shoe ¼"	1	29751077	0.99.00.020
41	1Ton Turning Hook with Lock	1	29751173	0.99.00.080
42	Electrical Control 380V 60Hz	1	29751177	005.04.006
42	Electrical Control 220V 60Hz	1	29751176	005.04.007
43	Left Closing	1	29751074	005.01.044
44	Right Closing	1	29751073	005.01.043
45	Central Closing	1	29751072	005.01.045
46	Positioning Pin	1	29751075	005.01.054
47	Positioning Spring Ret.	1	29751076	005.01.056
54	Upper Boom Ext.	1	29751114	005.02.041
55	Lower Boom	1	29751116	005.02.042
56	Upper Boom Int.	1	29751115	005.02.040
57	Locking Pin	1	29751118	005.02.048
58	Extendable Central Pin	1	29751119	005.02.051
59	CJ Fork Sensor Ext.	1	29751117	005.02.049

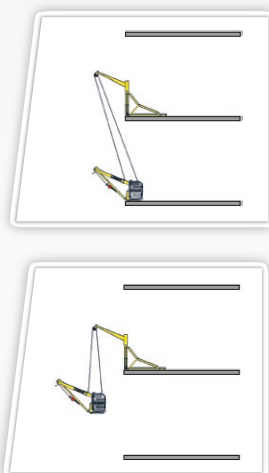
5. Accessories

5.1 Self-handling System

System formed by an auxiliary boom, inserted into the fixing tripod and which serves to transport the equipment from one work level to the next without having to perform a fully manual operation. This alternative of being able to use the equipment's own power helps in its installation on the next floor, resulting in practicality, ergonomics and safety, all important aspects in the daily routine on the job site.



CODE 32070202 DES. 005.05.000



Operating Instructions

Remove the head of the tripod and install the tripod on the upper level. Then, assemble the auxiliary boom on the tripod on the upper level, assemble the shaft and auxiliary pulley on the head of the boom and fix the turning hook in the lower boom of the head. Once these assembly operations have been performed, start unrolling the cable till it is long enough to reach the auxiliary boom, mounted on the floor above. Following this, start winding the cable gradually to the same elevation as the machine. On reaching the upper level, turn the auxiliary boom onto that level, unload the head, remove the auxiliary boom from the tripod and mount the head on the new level of operation. Observe equipment handling on being suspended, as there can be a side swing, which must be controlled in order to avoid collisions with items near the operation.

5.2 Telescopic Boom

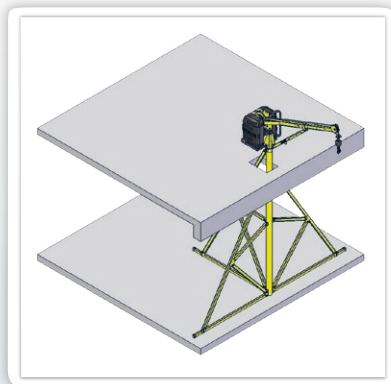
The telescopic boom consists of tubes and plates, in which the larger tube serves as a bearing for the smaller tube, which moves within it. Through 4 work positions, boom length can be increased from 1.25m to 2m, providing greater practicality and versatility, as well as offering more safety and ergonomics in the transporting of loads.



CODE 32070203 DES. 005.02.052

5.3 Extended Tripod

The extended tripod consists of tubes and plates. Its function is to transport materials to the floor above on which the equipment is installed. This accessory adds versatility to the Elleva MAX 500, as a standard lattice type tripod is used to transport materials to the installation floor but with the extended tripod wooden molds and hardware can be transported for the construction of the slab for the floor above, thus offering solutions for both applications.

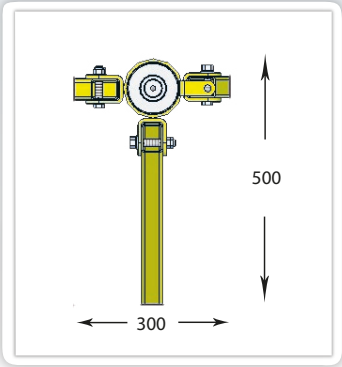


CODE. 29751120 DES. 005.03.017

Observation:

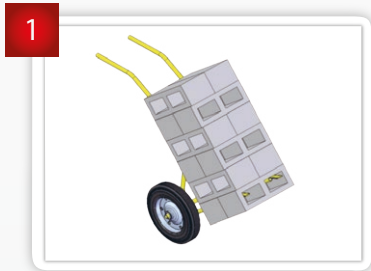
Leave an opening in the slab under construction of 300 x 500 mm for disassembly of the extended tripod, installed on the upper level. For assembling the Cj on the floor above, remove the cross-bars that form the Cj tripod and move the Main Tube above to install on the upper level.

The extended tripod is used for handling loads to build the slab above that which is already in place. With the aim of better performing this type of operation, use of the telescopic boom with the extended tripod is recommended as most loads in this application consist of wooden molds and hardware in large volumes.



5.4 Block Cart

Transports blocks inside the cage.



CODE 32070201 DES. 005.06.021

Transportar os blocos tanto em operações verticais quanto horizontais.

Dimensions: 14 x 19 x 39 cm
Size: 20 unit



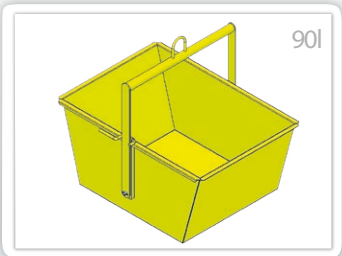
CODE. 29751171 DES. 005.07.040

5.5 60 liter and 90 liter crates

Store bulk materials during operations.



CODE. 29751104 DES. 005.09.001



CODE. 29751105 DES. 005.09.015

5.6 Hoist Cart - 150l

Performs horizontal material handling for the wheelbarrow, as well as vertical load handling.



5.7 Wheelbarrow

Store bulk loads and blocks during the operations of moving and executing horizontal displacement in the work environment.



CODE. 29751172 DES. 005.07.055

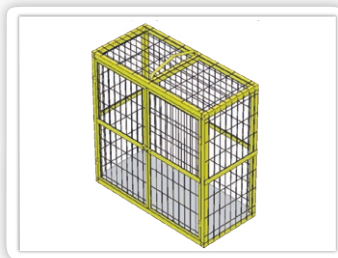
5.8 Block Cage

Stores blocks during handling operations.

Block: 14 x 19 x 39 cm - 24 Unit

Block: 19 x 19 x 39 cm - 20 Unit

Dimensions (L x W x H): 1060 x 500 x 1180 mm



CODE. 29751106 DES. 005.06.000

5.9 Basket on Wheels

Stores blocks and bulk loads during handling operations and performs horizontal moving within the work site.

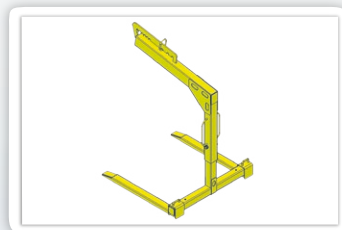
Dimensions: (L x W x H): 1220 x 750 x 970 mm



CODE 29751135 DES. 005.08.030

5.10 Pallet truck

Helps with the handling of the basket on wheels and pallet handling in general.



CODE. 29751130 DES. 005.08.001

6. Maintenance Plan

For better conservation and durability, a complete cleaning of the equipment is recommended at the end of a day's work, removing all dirt from the machine's components.

It is further recommended that the maintenance plan be executed in accordance with following chart:

MAINTENANCE PLAN FOR THE Elleva MAX 500 LIFTING DEVICE								
I= Inspect and replace if necessary L= Lubricate S= Replace	Initial inspection (20 hours or 1 month)	Every 50 hours	Every 100 hours	Every 200 hours	Daily	Weekly	Monthly	Every 12 Months
Observations								
MECHANICAL SYSTEM								
Grease Points		L				L		Total of 3 points as indicated on page 9 of this manual with lithium grease.
Safety lock of hook lifting					I			
Steel cable winding		I/L				I/L	S	Observe broken, worn, bent and crushed wires.
Tightening of screws indicated in below table		I				I		Screw torque according to following table.
Power Train gear clearance				I			I	
State of bearings			I				I S	Observe abnormal noise or vibrations as this can be an that bearing should be replaced.
ELECTRICAL SYSTEM								
State of electrical wiring	I				I			Check for bare or shorted wires.
Limit sensor functionality	I		I				I S	If there are signs of failure, it should be replaced.
Adjust disc brake clearance				I			I	Air gap according to Motor manufacturer's manual.

SCREW TORQUE TABLE				
DESCRIPTION	RESALE CODE	QTY.	LOCATION IN MACHINE	TORQUE (Nm)
PF SEX M10X25 DIN 933 8.8		14	Fixação dos espelhos e cj mancal chapa	44,1
PF SEX M10X25 DIN 933 8.8		2	Fixação da lança superior	44,1
PF SEX M10X70 DIN 931 8.8		6	Fixação das travessas do cj tripé	44,1
PF SEX M10X90 DIN 931 8.8		6	Fixação das travessas do cj tripé	44,1
Ligth Clamp ¼"	29751078	3	Travamento da extremidade do cabo de aço	9,8
Ligth Clamp 5/16"	29751147	3	Travamento da extremidade do cabo de aço	9,8
Parabolts " ou M16		6	Fixação do cj tripé na laje da construção	167

Technical Assistance

TECHNICAL ASSISTANCE NETWORK

The Menegotti Technical Assistance Network offers prevention, maintenance and corrective services by providing trained professionals at the location or at the Authorized Services Office. Customers should receive fast, professional and efficient services, supported and monitored by the Factory.

In addition to being responsible for any equipment that may present problems during the warranty period, the Menegotti Technical Assistance Network has a stock of spare parts, according to the products sold in that region, to meet the needs of its customers.

All services performed by the Menegotti Technical Assistance Network are conducted according to the company's Warranty Policy.

Menegotti Technical Assistance

www.menegotti.ind.br
at@menegotti.ind.br

Phone:
+55 47 3275 8058
Fax:
+55 47 3275 8027

Product Warranty

The conditions and terms of this warranty are non transferable and go into effect on the date of purchase of this equipment, proven by presentation of the sales invoice issued to the first end user. At the time of delivery of the equipment, the customer must be provided with the information and technical orientations according to the contents of this manual.

Not, however, included in this warranty are defects arising from improper use, negligence, imprudence or malpractice, nor are repairs or alterations to any part and/or component of the equipment. Also not included are: the assembly of any sets of parts by technicians not from the Factory itself or from an Authorized Technical Assistant, application other than which it was specified, mechanical or electrical overloading as well as lack of phase, use in environments for which it was not designed, incorrect voltages and frequencies, incorrect lubrication, damage caused by accidents of any nature, such as floods, gales, fire, landslides or due to transportation.

Removal or any alteration to the series numbers originally placed on the product will render the warranty null, where the Sales invoice and Warranty Certificate must be presented in relation to the equipment in question. This warranty is limited to the repair, replacement of parts or assembly of parts in which, through examination by a Menegotti Authorized Technical Assistant with prior authorization from the Factory, any manufacturing defect will be verified. This repair or replacement will be performed by the authorized Technical Assistant, where the purchaser will be responsible for risks and expenses arising from transport to and from the authorized Technical Assistant, and where labor and parts will not be charged according to the terms of this warranty.

This warranty replaces any other warranty, implicit or explicit, as well as all any obligation or responsibility on the part of our company in relation to the above mentioned product.

MENEGOTTI Post Sales Department and Technical Assistance.

Term of Warranty

By the present CERTIFICATE provided from original purchaser, Menegotti guarantees this product against manufacturing defects, for a period of 6 (six) months, being: the first 3 (three) months of legal guarantee, and the last 3 (three) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first final consumer. Not included in this equipment warranty are components subject to wear through use such as: bearings, steel cable, electrical plugs, gears and engine breaking.

This warranty includes the replacement of parts and repairs due to manufacturing defects duly noted by the factory or Authorized Technical Assistant. This warranty will be rendered null and void in the case of damages arising from accidents, acts of nature, application other than which it was designed, connection to improper electrical supply or subjected to extensive power fluctuations, or, if opened by persons or workshops not authorized by Menegotti.

The consumer will be responsible for freight expenses for transporting the product to the technical assistant or factory. Menegotti has an ample network of Technical Assistants throughout the country.

The equipment includes an electric motor and this warranty covers internal defects in the motor originating from its manufacture. Defects not covered in this warranty include: overloading due to lack of or excessive phase, use of voltage outside that specified, broken or crushed casing due to negligence during transporting /or storage, coupling or energizing outside specifications and general defects from improper use and/or incorrect installation.

In agreement with these terms,

Customer:	
Model:	Number of Series:
City:	Date:

_____ Customer

_____ Menegotti Authorized Service

elleva **MAX 500**

Product Warranty

The conditions and terms of this warranty are non transferable and go into effect on the date of purchase of this equipment, proven by presentation of the sales invoice issued to the first end user. At the time of delivery of the equipment, the customer must be provided with the information and technical orientations according to the contents of this manual.

Not, however, included in this warranty are defects arising from improper use, negligence, imprudence or malpractice, nor are repairs or alterations to any part and/or component of the equipment. Also not included are: the assembly of any sets of parts by technicians not from the Factory itself or from an Authorized Technical Assistant, application other than which it was specified, mechanical or electrical overloading as well as lack of phase, use in environments for which it was not designed, incorrect voltages and frequencies, incorrect lubrication, damage caused by accidents of any nature, such as floods, gales, fire, landslides or due to transportation.

Removal or any alteration to the series numbers originally placed on the product will render the warranty null, where the Sales invoice and Warranty Certificate must be presented in relation to the equipment in question.

This warranty is limited to the repair, replacement of parts or assembly of parts in which, through examination by a Menegotti Authorized Technical Assistant with prior authorization from the Factory, any manufacturing defect will be verified. This repair or replacement will be performed by the authorized Technical Assistant, where the purchaser will be responsible for risks and expenses arising from transport to and from the authorized Technical Assistant, and where labor and parts will not be charged according to the terms of this warranty.

This warranty replaces any other warranty, implicit or explicit, as well as all any obligation or responsibility on the part of our company in relation to the above mentioned product.

MENEGOTTI Post Sales Department and Technical Assistance.

Term of Warranty

By the present CERTIFICATE provided from original purchaser, Menegotti guarantees this product against manufacturing defects, for a period of 6 (six) months, being: the first 3 (three) months of legal guarantee, and the last 3 (three) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first final consumer. Not included in this equipment warranty are components subject to wear through use such as: bearings, steel cable, electrical plugs, gears and engine breaking.

This warranty includes the replacement of parts and repairs due to manufacturing defects duly noted by the factory or Authorized Technical Assistant. This warranty will be rendered null and void in the case of damages arising from accidents, acts of nature, application other than which it was designed, connection to improper electrical supply or subjected to extensive power fluctuations, or, if opened by persons or workshops not authorized by Menegotti.

The consumer will be responsible for freight expenses for transporting the product to the technical assistant or factory. Menegotti has an ample network of Technical Assistants throughout the country.

The equipment includes and electric motor and this warranty covers internal defects in the motor originating from its manufacture. Defects not covered in this warranty include: overloading due to lack of or excessive phase, use of voltage outside that specified, broken or crushed casing due to negligence during transporting /or storage, coupling or energizing outside specifications and general defects from improper use and/or incorrect installation.

In agreement with these terms,

Customer:	
Model:	Number of Series:
City:	Date:

Customer

Menegotti Authorized Service

elleva **MAX 500**



Menegotti Indústrias Metalúrgicas Ltda.

Rua: Erwino Menegotti, 381
89254 000 | Jaraguá do Sul | SC | Brasil
Tel: +55 47 3275 8058
Fax: +55 47 3275 8027