BUILDING THE FUTURE

HIGH QUALITY CONSTRUCTION MACHINERY

CONSTRUCTION EQUIPMENT CATALOGUE

ALBE

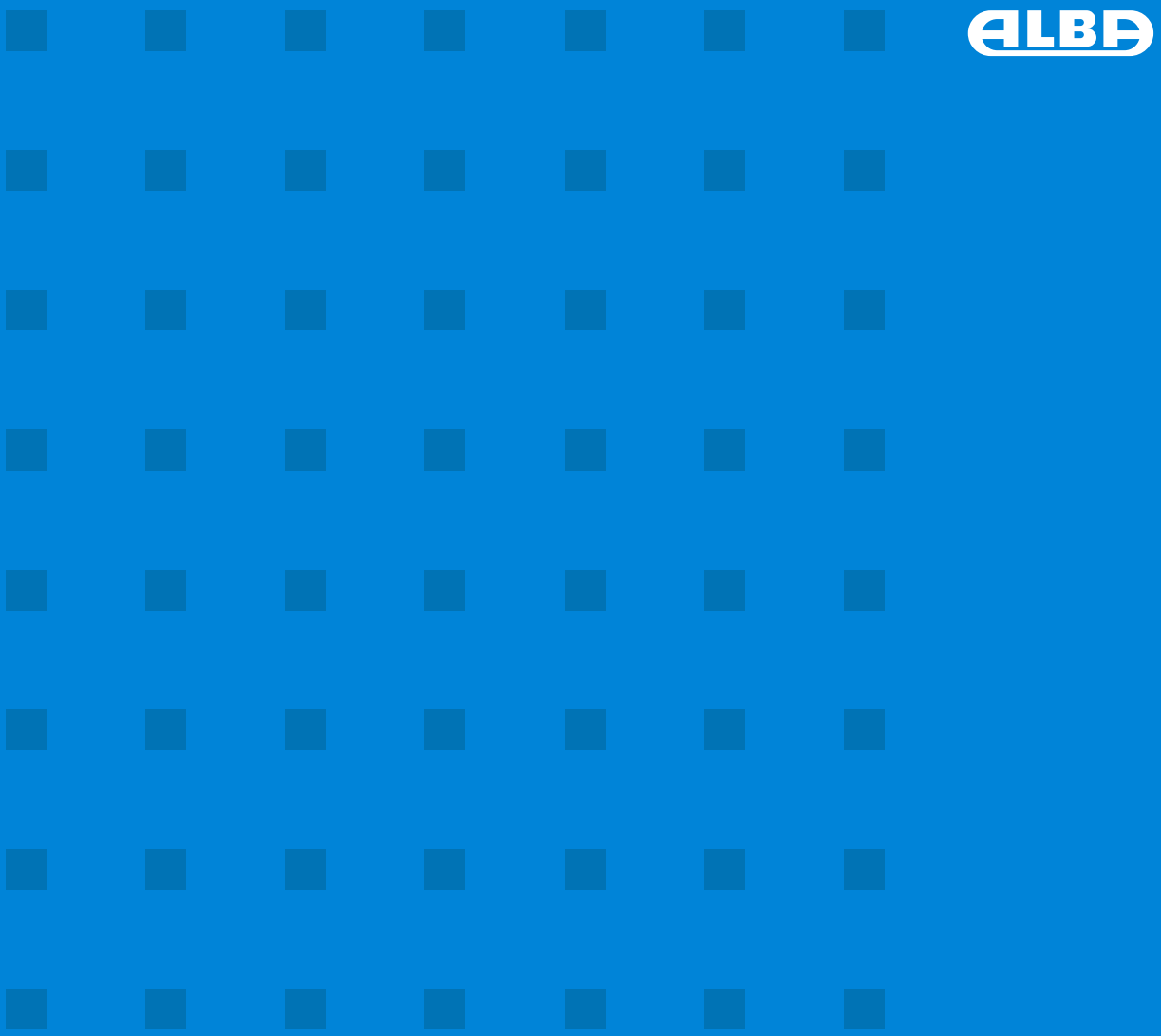
CONSTRUCTION EQUIPMENT CATALOGUE

01

STEEL REINFORCING BARS EQUIPMENT

02

LIGHTWEIGHT MACHINERY



01

01

STEEL REINFORCING BARS EQUIPMENT

ELECTRIC MACHINERY
AUTOMATIC MACHINERY
REBAR CUTTERS & BENDERS

ELECTRIC MACHINERY

ON SITEWORK

Robust and easy-to-transport equipment, designed to handle metal on construction sites. ALBA cutters and benders have components manufactured by leading European brands and are conceived in accordance with the European Directive 2006/42/CE for machines.

ELECTRIC BENDING MACHINES

WITH PROGRAMMER UNDER REQUEST

Designed to bend or straighten bars for the assembly of structural elements. They have a remote control by pedal with two drive systems: automatic and continuous for spirals. In addition, they have a protector and a security system that prevent access to the bending area during the rotation of the plate.

- Turntable forward and reverse rotation: the table can turn in two directions of operation.
- Angles selector: desired angle is obtained by inserting the pin in the bending table periphery.
- Electric board: in monoblock, sealed case -low voltage (48 V) with emergency stop as per CE Standards.
- Fitted with brake-motor.
- Mobile square: with complete equipment of bending bushes and bolts.
- Special devices: stirrups, spirals, etc.
- Turn table of big diameter: 375 mm (D36L and D42L) / 445 mm (D52L), 9 bending holes, with possibility to change point "0" (D36L, D42L and D52L).

D36L

D42LP

D52L

TECHNICAL FEATURES

Round Steel		D36L - D36LP			D42L - D42LP			D52L - D52LP		
		Number of bars								
		1	2	3	1	2	3	1	2	3
Smooth	Rebar diameter	36 -#11	28 -#8	22 -#7	42 -#11	32 -#10	28 -#8	52 -#14	40 -#11	28 -#8
B400S - Grade 40		32 -#10	25 -#8	22 -#7	36 -#11	28 -#8	22 -#7	45 -#14	32 -#10	28 -#8
B500S - Grade 60		28 -#8	22 -#7	20 -#6	32 -#10	25 -#8	22 -#7	40 -#11	32 -#10	28 -#8
Turntable speed	r.p.m.	7,8			6,6			6,25		
Motor power	50/60 Hz kW	3 / 3,6			3 / 3,6			5,5 / 6,4		
Dimensions and Net weight	kg	275			280			492		
	mm	950 x 600 x 933			950 x 600 x 976			1.120 x 684 x 976		

ELECTRIC CROPPERS

SIMPLE AND RATIONAL CONSTRUCTION

With minimal maintenance, our electric shears allow all kinds of cuts in steel bars and rods up to 50 mm diameter. They are made up of a monoblock body made of high-resistance cast steel, which gives them solidity and durability.

For greater comfort of the operator, he can activate the shear by foot pedal or hand lever.

- Blades with 8 cutting edges.
- Cast steel body.
- Gearings in oil bath.
- Optionally, it can be supplied with a motor-protector.
- Bar stop in standard equipment.

C32L

C42L

C55L

C58L

TECHNICAL FEATURES

		C32L			C42L			C55L			C58L		
Round Steel		1	2	3	1	2	3	1	2	3	1	2	3
		32 - #10	20 - #6	16 - #5	42 - #11 *	28 - #8	22- #7	45 - #14 *	38 - #11	22 - #7	52 - #14 *	38 - #11	25 - #8
Smooth	Rebar Diam.	28 - #8	20 - #6	16 - #5	36 - #11 *	25 - #8	20 - #6	45 - #14 *	35 - #10	22 - #7	45 - #14 *	35 - #10	25 - #8
B400S - Grade 40		25 - #8	18 - #5	14	32 - #10	22 - #7	18 - #5	40 - #11	32 - #10	22 - #7	40 - #11	32 - #10	25 - #8
B500S - Grade 60		93			83			46			42		
Cut per minute	c.p.m.	1,5 / 2,6			3 / 3,6			4 / 4,6			4 / 4,6		
Motor power	kW	250			350			548			820		
Dimensions and Net weight	kg	878 x 470 x 700			1.050 x 540 x 810			1.119 x 514 x 871			1.260 x 620 x 935		
	mm	878 x 470 x 700			1.050 x 540 x 810			1.119 x 514 x 871			1.260 x 620 x 935		

* The table for gross diameters will be needed for cutting some of these diameters (not supplied with the machine).

COMBINED CUTTER-BENDER

VERSATILE AND MULTIPURPOSE MACHINE

The combined cutter-bender version has the same characteristics as our range of on sitework benders and, as a cropper, it cuts pedal-operated stroke by stroke, with the possibility to stop the blade instantly at any time during the cut.

- Blades with 8 cutting edges.
- Cut protector for safety.
- The entire manufacturing process of the rebar machines is carried out in our facilities, which allows us to maximize the useful life and quality of the product.

COMBI 32/36

TECHNICAL FEATURES

Round Steel		COMBI 26/32						COMBI 32/36					
		Cut			Bender			Cut			Bender		
		Number of bars											
		1	2	3	1	2	3	1	2	3	1	2	3
Smooth	Rebar diameter	25-#8	18-#5	14	32-#10	25-#8	22-#7	32-#10*	20-#6	16-#5	36-#11	28-#8	24-#7
B400S - Grade 40		22 -#7	16 -#5	12	28 -#8	22 -#7	18 -#5	28 -#8 *	20 -#6 *	16 -#5 *	32 -#10	25 -#8	22 -#7
B500S - Grade 60		20 -#6	14	10 -#3	25 -#8	20 -#6	18 -#5	25 -#8	18 -#5	14	28 -#8	22 -#7	20 -#6
Turntable speed	r.p.m.	7,8						7,8					
Motor power	kW	2,2 / 2,6						3 / 3,6					
Dimensions and Net weight	kg	300						305					
	mm	950 x 730 x 933						950 x 730 x 933					

* The table for gross diameters will be needed for cutting some of these diameters (not supplied with the machine).

STIRRUP BENDERS

MACHINES WITH OPTIONAL PROGRAMMER

Our electric machines are specially designed for any kind of stirrups, producing a large number of units per hour. It is a simple and safe range to operate that has a pedal control and an emergency stop button.

- Large production : 700 to 1.000 stirrups/hour (DAE16L)
- 350 to 500 stirrups/hour (D24L)
- Elevated turn table (DAE16L).
- Feeding of material from the left side and turning of stirrup towards the operator.
- Possibility of bending different radius.
- Control electric equipment at low voltage (48 V).
- 2 rod guides and 2 measure limits.
- Bending angles selection with pin: D42L (0-257°), DAE16L (0-250°).
- D24L: it has a double pedal for greater speed in the production of the stirrups.

DAE16L

D24LP
3D infographic (not real)

TECHNICAL FEATURES

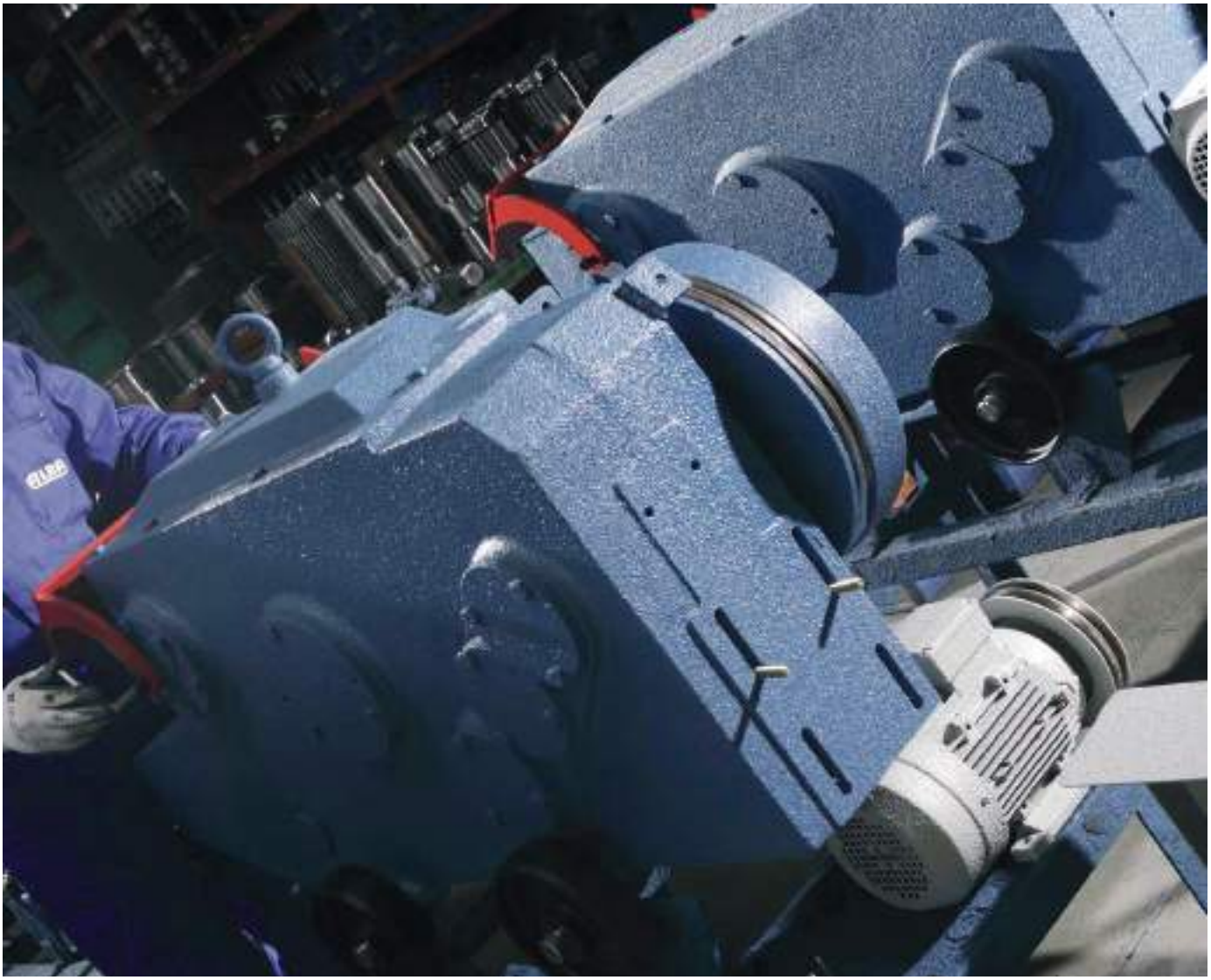
Round Steel		DAE16L						D24L - D24LP					
		Bar diameter											
		ø6 -#2	ø8 -#2	ø10 -#3	ø12	ø14	ø16 -#5	ø6 - #2	ø10 - #3	ø14	ø16 - #5	ø20 - #6	ø24 - #7
Smooth	Number of bars	10	8	4	2	1	1	10	6	4	4	2	1
B400S - Grade 40		9	5	3	1	1	-	10	6	4	4	1	-
B500S - Grade 60		9	4	2	1	-	-	10	6	4	3	1	-
Turntable speed	r.p.m.	28						11					
Motor power	kW	0,66 / 1,1						1,1					
Dimensions and Net weight	kg	110						187					
	mm	595 x 490 x 893						800 x 590 x 900					


ALBA

ELECTRIC MACHINERY

INDUSTRIAL

Machines for intensive use 24/7, ideal for any workshop or company dedicated to working the rebar, guaranteeing optimal results. We have a wide range of electric mechanism benders and cutters for industrial use with a useful life of more than 40 years. It is a robust equipment with minimal maintenance for construction iron professionals.



ELECTRICAL CROPPERS

MACHINES FOR INTENSIVE USE

Machines with cutting capacity up to 50 mm in diameter and blades with 8 cutting edges (changeable). For greater operator comfort, the cutting can be operated by pedal or lever (except the C25H model).

- Single-section body made of high-strength cast steel.
- Machining of our gears.
- The entire manufacturing process of the rebar machines is carried out in our facilities, which allows us to maximize the useful life and quality of the product.
- All our cutters include components manufactured by leading European brands.

CRM35

CRM45

CRM55

TECHNICAL FEATURES

Round Steel		CRM35				CRM45				CRM55			
		Number of bars											
		1	2	3	4	1	2	3	4	1	2	3	4
Smooth	Rebar diameter	35#10	25#8	16#5	12	45#14	32#10	22#7	16#5	55#14	40#11	32#10	28#8
B400S - Grade 40		32#10	22#7	16#5	12	40#11	28#8	22#7	16#5	50#14	35#10	28#8	22#7
B500S - Grade 60		28#8	20#6	16#5	12	35#10	28#8	20#6	16#5	40#11	28#8	25#8	20#6
Cuts per minute	c.p.m	35				31				33			
Motor power	kW	2,2 / 2,6				2,2 / 2,6				3 / 3,6			
Dimensions and Net weight	kg	400				750				1.300			
	mm	1.192 x 509 x 656				1.484 x 579 x 780				1.866 x 659 x 934			

PROGRAMMABLE AUTOMATIC BENDERS

GREAT PERFORMANCE AND QUALITY OF WORK

We manufacture our range of professional DAR benders with electronic programmer and 5,6" colour touch screen. They are characterized by their high performance and quality of work, thanks to their two bending speeds (the fast one for small diameters).

They have folding side rollers and four movable pin hole rails for greater functionality and precision. They work in both directions and are supplied with a mobile square and a complete set of pins and bushings.

- Easy and intuitive programming with three working systems:
  - Automatic programming with the programmer: 150 different shapes with 10 angles each, saveable to memory.
  - Fast production of pieces with the programmer. Angles corrector. Counter of bent pieces.
  - Manual selection of angles, by means of pins. Continuous operation to produce spirals (automatic).

DAR35EP

Model DAR35SP is equipped with just two fixed rulers instead of four movable, one single speed of the plate and fixed lateral rollers.

DAR45P

Model DAR45SP is equipped with just two movable rulers instead of four movable, one single speed of the plate and fixed lateral rollers.

DAR55P

We also manufacture optional special devices on demand for: polygonal stirrups, spirals, rings and large bends with thick rods, and large double bends with bending attachment, as well as bushings of a wide variety of diameters.

TECHNICAL FEATURES

Round Steel		DAR35SP			DAR35EP		DAR45SP			DAR45P		DAR55P				
		Number of bars														
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Smooth	Rebar diameter	35-#10	28-#8	22-#7	16-#5	14	45-#14	35-#10	28-#8	25-#8	20#6	55-#14	40-#11	35-#10	28-#8	20-#6
B400S - Grade 40		28-#8	25-#8	20-#6	16-#5	14	40-#11	32-#10	28-#8	22-#7	18-#5	45-#14	38-#10	32-#10	22-#7	18-#5
B500S - Grade 60		28-#8	22-#7	20-#6	16-#5	14	35-#10	28-#8	25-#8	22-#7	18-#5	45-#14	38-#10	28-#8	22-#7	18-#5
Turntable speed	r.p.m.	13			10 / 20		10			8 / 16		5 / 10				
Motor power	kW	2,2 /2,8			2 /2,2		4 / 4,6			3 /3,5		4 / 4,6				
Dimensions and Net weight	kg	350			398		580			650		965				
	mm	1.042 x 680 x 928			1.194 x 711 x 928		1.173 x 784 x 952			1.426 x 784 x 952		1.627 x 860 x 951				

PROGRAMMABLE STIRRUP BENDERS

- 3" colour touch screen.
- This bender works both with bar feeding from the left or from the right and anti clockwise.

SIMPLE AND INTUITIVE PROGRAMMING

The DAE16-2S is designed for the manufacture of all kinds of stirrups. It is a machine of great performance and production: from 700 to 1.000 stirrups per hour. We prepare these benders with a complete set of bushings and bolts, as well as a stop ruler for quality work.

DAE16 - 2S

TECHNICAL FEATURES

Round Steel		DAE16 - 2S				
		Number of bars				
		1	2	3	4	5
Smooth	Rebar diameter	16 - #5	12	12	10 - #3	8 - #2
B400S - Grade 40		14	10 - #3	10 - #3	8 - #2	8 - #2
B500S - Grade 60		12	10 - #3	8 - #2	8 - #2	6 - #2
Turntable speed	r.p.m.	28				
Motor power	kW	1,1 / 0,66				
Dimensions and Net weight	kg	154				
	mm	700 x 540 x 904				

AUTOMATIC MACHINERY

- High stirrup production capacity (up to 2400 stirrups/hour).
- Minimum maintenance.
- Up to 16 mm in diameter.
- Intuitive programming by touch screens.
- Optional accessories:
  - Decoilers
  - Bending shapes
  - Manual stirrup collector
  - Foldable collector for straight bars

DESA
AUTOMATIC STIRRUP BENDER

GREAT PRODUCTION CAPACITY

The DESA model is an automated machine controlled by a programmer and that starts of steel rolls as raw material. Straighten, bend to the desired stirrup shape and cut the stirrups leaving them fully finished for assembly.

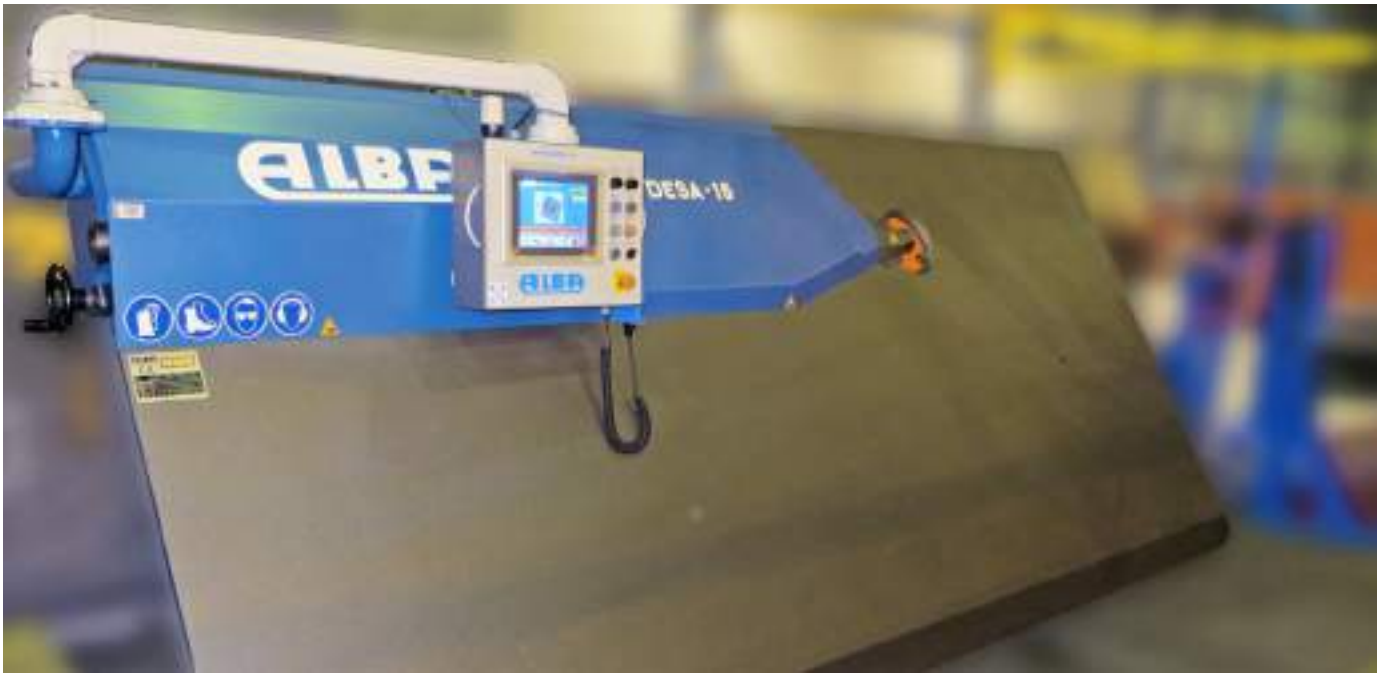
The automatic stirrup bender can perform both directional bendings with angles up to 180º and bars of up to 16 mm in diameter or double diameter of 12 mm from roll rod, and it has a device for making rings and spirals.

Our stirrups are programmed with specific control software. The rod in the decoiler gets easily into the machine by means of the thread group until the rod gets caught by the dragging group formed by four rollers that transmit the traction to the rod. The forward speed parameter is adjustable depending on the work to be done.

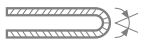
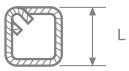
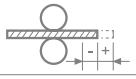
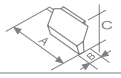
Straightening system is composed of two sets placed orthogonally both mobiles and fixed rollers capable of working with one or two bars at the time. The adjustment is very simple and every diameter of rod has a mechanical memory.

The measurement is by means of an encoder with a tolerance of ± 1.5 mm. The cutter is provided with an edged blade for a longer use.

The components of our machines are made of the latest generation of alloyed steels with heat and anti-wear surface treatments that guarantee a long and useful life.



TECHNICAL FEATURES

			DESA 16	DESA 16N	DESA 18-2D
Working with 1 bar	B500S - GRADE 60		Ø Min. 5 mm Ø Máx. 13 mm	Ø Min. 5 mm Ø Máx. 13 mm	Ø Min. 8 mm Ø Máx. 16 mm
Min.-máx. Ø with 2 rod	B500S - GRADE 60		2 x 6 / 2 x 8 / 2 x 10	2 x 6 / 2 x 8 / 2 x 10	2 x 8 / 2 x 10 / 2 x 12
Bending maximum angle (bidirectional)	º		180º	180º	180º
Stirrup maximum side (clockwise)	mm		1,000	1,000	1,000
Bending maximum speed - º/sec (bidirectional)	º		700º	700º	1,230º
Feeding maximum speed	m /min		90	90	140
Accuracy in lenght	mm		± 1,5	± 1,5	± 1,5
Turning accuracy (bidirectional)	º		± 1º	± 1º	± 1º
Bult-in power	CV		15 (20)	15 (20)	31 (41)
Cooling			YES	YES	(AA/AC)
Approximate production (units/hour)	1 ø 2 ø		1.020 2.040 Stirrup length: 200 mm	1.200 2.400 Stirrup length: 200 mm	1.200 2.400 Stirrup length: 250 mm
General dimensions	mm		4.420 x 1.480 x 2.570	4.420 x 1.480 x 2.570	6.660 x 1.800 x 2.940
Weight	kg		2.500	2.500	6.000

DECOILER WITH AUTOMATIC BRAKE

TECHNICAL FEATURES

		Decoiler for uncoiled wire rod	Decoiler for coiled wire rod
Rod coil	Max. outer diameter (mm)	1.295	1.295
	Min. inner diameter (mm)	450	450
	Max. height (mm)	1.200	2.000
Decoiler	Max. weight (kg)	2.000	2.000
	Packaging dimensions (mm)	1.480 x 1.475 x 975	2.040 x 1.480 x 1.650
	Weight (kg)	320	1.000

Decoiler for uncoiled wire rod

Decoiler for coiled wire rod

STIRRUPS

ECAR
REBAR STRAIGHTENER

TOTALLY AUTOMATIC WITH PROGRAMMER

New straightener concept that bases its work system on the latest generation electric motors.

In this type of machine, the drag speed is around 73 m/min and the measurement is made by encoder.

The rod straightening process is carried out by rollers in two groups: one at the entrance of the machine and the other before cutting. After the work is finished, the machine stops automatically.

Electrical operation according to international standards, at low voltage (48V) for operator safety. Two modes of operation:

- Manual: for threading and straightening the bar.
- Automatic: for continuous work, with variable speed controlled rod advance.

- Up to 16 mm in diameter.
- Scissor cut: the machine stops with each cut of the bar.
- Overheating safety system.
- Variator controlled motorized decoiler; the reel speed is automatically adapted to the length of the bar to be cut.
- Self-ventilated motor.
- Straightened anti-wear rollers.
- Centralized manual control.
- 5,6" colour touch screen allowing to choose the quantity and length of the bar to cut.
- Modular trestle: 2 m.
- Minimal maintenance.

ECAR 16

TECHNICAL FEATURES

			ECAR 12	ECAR 16
Capacity (STEEL B500S)	Min.	mm	Ø6	
	Max.	mm	Ø12	Ø16
Recommended cutting length	Min.	mm	400	
	Max.	mm	12	
Accuracy in cutting		mm	±5	
Advance speed (50 Hz)		m/min	73	
Height in the input of the bar		mm	1.200	
Total power	400 V 50 Hz	kW	16,5	20,5
	440 V 60 Hz	kW	18,3	20,5
Electrical intensity in productiom (advance + cut)		A	24	29
Compressed air system	Pressure	bar	6	
	Consumption	Nl/min	165	
	Quality		333 (DIN ISO 8573-1)	
Work temperature: range of room temperature		C	-5 ÷ 40	
Acustic intensity on production (advance + cut)		L_{eq}	>75 dB	
Net weight of the machine		kg	1.470	1.404
Net weight of the saddle		kg	150	
Dimensions (Length x Width x Height)		mm	2.700 x 1.020 x 1.860	2.700 x 1.020 x 1.860

CMC
AUTOMATIC MEASUREMENT AND CUTTING CARRIAGE

AUTOMATED EQUIPMENT WITH CONTROLLER BY PROGRAMMER

The CMC measurement and cutting carriages are automated devices which are controlled by a programmer. Through just one hydraulic unit and with the help of an operator, they pull, measure, cut and classify steel bars. Said bars are subsequently distributed, by electromechanical movement, onto different transport tables or directly onto bending lines.

- High outputs.
- Cutting capacity: 40 mm.
- Minimum maintenance.
- Rollers covered with polyurethane to reduce the noise of the falling of the bars.
- Blades with 8 interchangeable cutting edges.
- 100% manufacturing process is completed at our own facilities, which allows us to maximize the quality and service life of the product.

SYSTEMS

BAR FEEDING

Once the carriage is situated in front of the store where the bars are going to be elaborated, the operator must place the bars he wants to cut into the feed opening.

BAR HAULING

- CMC 25 - 4 driving-rollers.
- CMC 32 et CMC 40 - 6 driving-rollers, 2 of them motor-operated. 2 hydraulic drums clamp the bars.

BAR MEASUREMENT

With an incremental encoder with a resolution of ± 1 mm.

CUT

Hydraulic, with fixed and moveable blades of 8 cutting edges each one. There are inductive detectors that control the position of the blades.

RELEASE

Of the seared bars with an hydraulic operation.

OPERATION OF THE ROUTE/3 ROUTES

- CMC 25 - with 1 route.
- CMC 32 & CMC 40 - with 3 routes.With motor-operated rollers, of electromechanical drive. The rollers are polyurethane-coated (max. acoustic level when the bars fall onto it 100 dB).

TRAVERSE OF THE CARRIAGE

On 2 routes, with electromechanical drive:

- CMC 25 - 2 routes placed at 6 m.
- CMC 32 & CMC 40 - 2 routes placed at 9 m.

CUTTING PROGRAMME

With assisted programming on the LCD liquid crystal screen. Capacity of 9 cutting programs, with 6 access screens.

OPTIONAL (CMC 32 & CMC 40)

With conveyer for cutted bars to be classified on 3, 6 or 9 areas for complet elements.

CMC Control Panel

CMC 25

CMC 32

MAR Model
Bending tables

LT motorised Model
Roller conveyors for straight lengths

LTD motorised Model
Transfer and bending lines

TECHNICAL FEATURES

		CMC 25	CMC 32	CMC 40
Max. cutting capacity 850 N/mm²	m/min	25	32	40
Minimum cutting length	cm	10	10	10
Cutting tolerance	mm	±10	±10	±10
Maximum cutting tolerance	m	8,65	12	12
Portage routes length	m	8,65	12	12
Number of cutting programmes		99	99	99
Load capacity of the portage route	Tn	3,5	6,5	7,3
Net weight	Tn	5	6	7
Hauling and bars measurement speed	m/min	80	80	80
Installed total power	kW/CV	9,5/13	21/28	26/35
Distance between the rails of translation	m	6	9	9
Maximum shear force	KN	310	570	1,140
Minimum translation speed	m/min	12	12	12
Speed of the portage rollers	m/min	60	60	60
Minimum width of the portage rollers	mm	400	400	400
Maximum total length	m	9,42	12,60	12,67
Maximum total width	m	2,20	2,20	2,20
Maximum total height	m	1,66	1,97	2,06

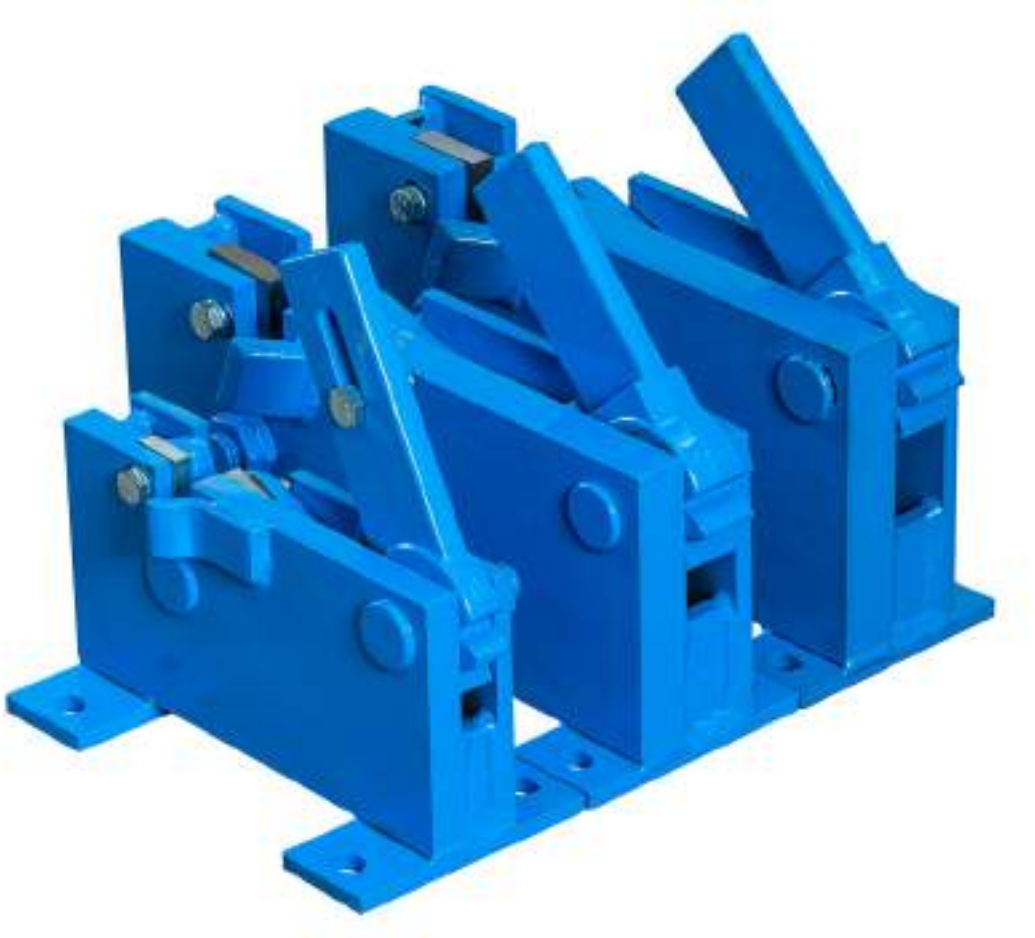
The characteristics included in this brochure should be considered as a reference and have an approximate nominative value, in adequate conditions of use.

REBAR CUTTERS & BENDERS

LEVER SHEARS & BENDERS

We offer a wide variety of models to cut and bend rebar manually.

Robust and high quality, the shears have 8 cutting edge blades and the benders are specially designed to bend steel bars up to 32 mm in diameter. Both models are supplied with a lever.



LEVER SHEARS

ROBUST AND HIGH QUALITY

The CR28 and CR32 models are designed to work with 2 lever positions in order to reduce the cutting effort. AThe lever position shown in Fig. 1, is for cutting up to 14 and 16 mm in diameter respectively, and for remaining diameters up to 28 and 32 mm (smooth), it will be carried out as explained in Fig. 2.

- Special alloy steel cutting blades, each with 8 cutting edges.
- Compact frame of welded steel plates.
- Supplied with a lever.

Fig. 1

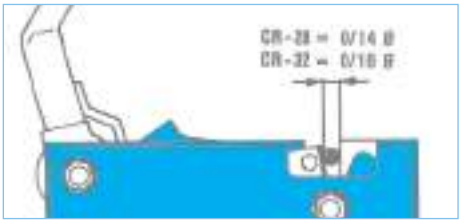
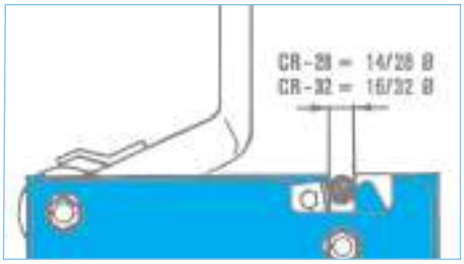


Fig. 2



CR22 **CR28** **CR32**

8-cut blades

CAPACITIES

Steel		CR22			CR28			CR32		
		○	□	▭	○	□	▭	○	□	▭
Smooth	mm	22	19	30 x 12	28	25	50 x 12	32	28	50 x 16
	inches	7/8"	3/4"	1 3/16" x 1/2"	1 1/8"	1"	2" x 1/2"	1 1/4"	1 1/8"	2" x 5/8"
B400S - Grade 40	mm	18	16	30 x 10	25	22	50 x 10	27	24	50 x 11
	inches	11/16"	5/8"	1 3/16" x 3/8"	1"	7/8"	2" x 3/8"	1 1/16"	15/16"	2" x 7/16"
B500S - Grade 60	mm	16	14	30 x 8	20	19	50 x 8	25	22	50 x 10
	inches	5/8"	9/16"	1 3/16" x 5/16"	13/16"	3/4"	2" x 5/16"	1"	7/8"	2" x 3/8"
Weight	kg	20			38			43		

LEVER BENDERS

WIDE RANGE OF QUALITY MODELS

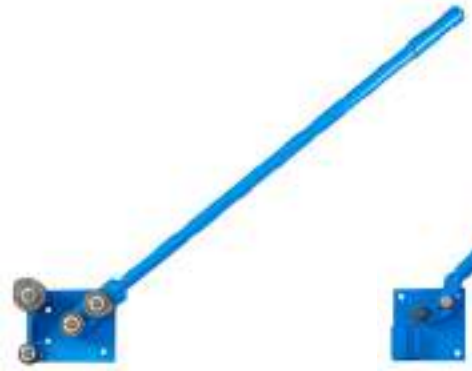
The DR12E model has a graduated ruler and is specially designed to produce all kinds of stirrups.

The DR25 and DR32 models are supplied with cam discs and 2 bushings of different diameters (interchangeable) to produce perfect uniform hooks.

- Wide range of rebar bending machines.
- Different models to bend up to 32 mm in diameter.
- They can bend several rods at the same time thanks to the robustness of the lever tube.
- They make high precision hooks, which allows saving iron.

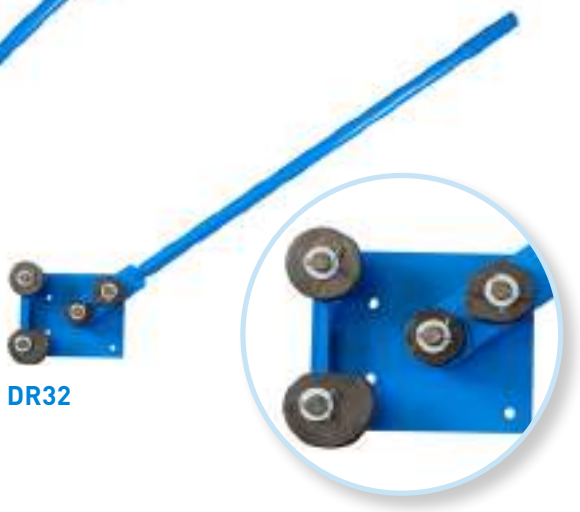
DR12E

DR20



DR25

DR30



DR32

CAPACITIES

		DR12E	DR20	DR25	DR30	DR32
Bending iron rod up to	mm	12	20	25	30	32
	inches	1/2"	3/4"	1"	1 3/16"	1 1/4"
Approx. weight without lever (*)	kg	18	9*	20*	27*	30*

02

02

LIGHTWEIGHT MACHINERY

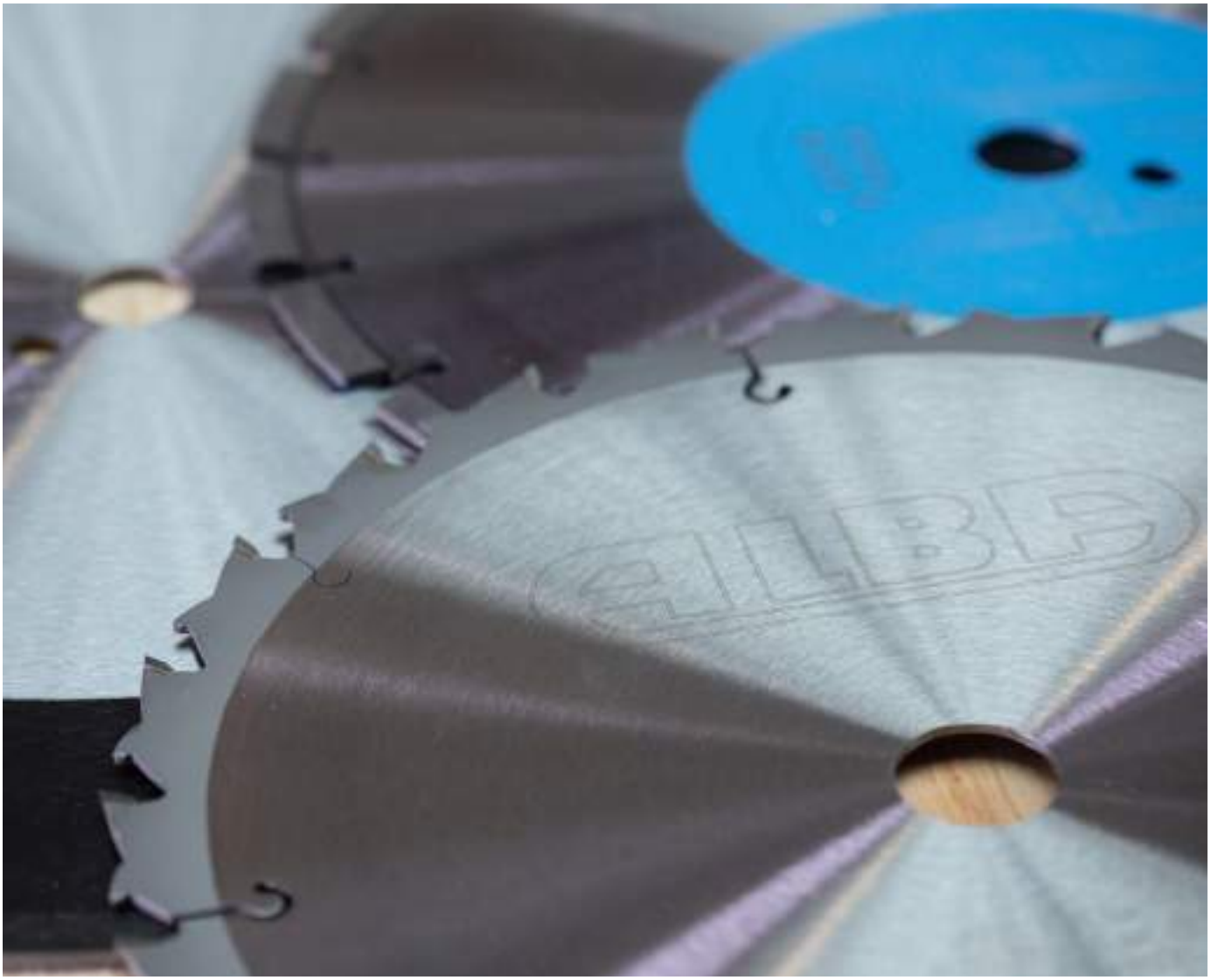
WOOD & MASONRY SAWS
OTHER MACHINERY

WOOD & MASONRY SAWS

WIDE RANGE OF CUTTING MACHINERY

Diamond blades are abrasive tools that can cut a wide variety of materials. Their composition allows them to be among the most effective on the market, since they are very hard elements.

Among our disc cutting machines, there are two different ranges: masonry saws and those with Widia blade (wood saws).



WOOD SAW TLE

DESIGNED TO CUT WOOD ON SITE

With optimum cutting precision, the TLE are very comfortable and easy to use for the operator. They have an extendable table to support the longest pieces.

- Widia cutting disc with a high resistant protector.
- Motor brake stopping in less than 10 seconds.
- Cutting slot and disc guard borders in plastic material.
- Wheels for an easier movement of the saw.

TLE

TECHNICAL FEATURES

		TLE 3M	TLE 4
Motor		Single phase	Three-phase
Motor power	kW/CV (50/60 Hz)	2,2 - 2,5	2,9 - 3,6
Voltage		230 V - 50 Hz	230/400 V - 50 Hz
Thermal protector		YES	NO
Disc in./out. diameter	mm	30/315	30/315
Max. cutting height	mm	85	
Machine max. dimensions	m	0,78 x 1,37 x 0,98	
Net weight	kg	64	
Packaging dimensions	m	0,81 x 0,98 x 0,51	
A LwA-weighted sound power level	dB (A)	100	
KwA uncertainty	dB (A)	2	
Weighted emitted sound pressure level at the workplace	dB (A)	92	
KpwA uncertainty	dB (A)	2	

WET CUT

MASONRY SAWS TVR

MAXIMUM CONTROL OF THE WORK

The TVR, besides the choice of two positions to set the head, depending on the disc diameter (300 or 350 mm), it also gives the possibility to set it vertically, thus allowing to cut thicknesses between 10 and 15 cm in two passes, one on each side of the piece.

The mittering operation can be performed at any angle between 0 and 45º, and the piece could equally rst at either side of the carriage, as this carriage has only one cutting slot. It also allows to regulate it in height, even when the head is in the mitering position, without the need to de-center the cutting line and adjusting the material for comfort and ergonomics.

TVR

Designed under harmonized European standard UNE-EN 12418:2001+A1:2009.

Detail of the angle

Foldable legs

It can be supplied with wheels and folding legs.

TECHNICAL FEATURES

		TVR 3M	TVR 4	TVR 450-3M	TVR 450-4
Motor		Single phase	Three-phase	Single phase	Three-phase
Motor power	mm	2,2/2,5	3/3,5	2,2/2,5	3/3,5
Voltage (2)		230 V (50 Hz) 220 V (60 Hz)	230/400 V 50 Hz 220/440 V 60 Hz	230 V (50 Hz) 220 V (60 Hz)	230/400 V (50 Hz) 220/440 V (60 Hz)
Thermal protector		YES	NO	YES	NO
Cutting blade diameter	mm	25,4/350		25,4/450	
STRAIGHT CUT					
Cutting height (1)	mm	100		150	
Cutting length (3)	mm	640		540	
Cutting length (4)	mm	560		460	
MITER CUT (45º)					
Cutting height (1)	mm	70		----------	----------
Cutting length (3)	mm	590		----------	----------
Cutting length (5)	mm	540		----------	----------
Table dimensions	mm	600 x 500		600 x 500	
Machine max. dimensions	m	1,11 x 0,72 x 1,30		1,11 x 0,72 x 1,40	
Net weight	kg	85		85	
Water tank capacity	l	55		55	
Packaging dimensions	m	1,17 x 0,75 x 0,70		1,17 x 0,75 x 0,70	
A LwA-weighted sound power level	dB (A)	105		105	
KwA uncertainty	dB (A)	2		2	
Weighted emitted sound pressure level at the workplace	dB (A)	95		95	
KpwA uncertainty	dB (A)	2		2	

(1) Single run. (2) Other voltages and frequencies to be considered. (3) Thickness 10 mm. (4) Thickness 75 mm. (5) Thickness 70 mm.

WET CUT

MASONRY SAWS TVD

OPTIMAL CUTTING ACCURACY IN LARGE PIECES

The TVD put together all the advantages of the TVR model, with larger dimensions and it is fitted with an extremely robust and height-adjustable head, which makes it suitable for accurate works, especially hard works with very long pieces.

TVD

Maximum cutting length: 1190 mm.

It can be supplied with table extension as an option.

TECHNICAL FEATURES

		TVD 90-3M	TVD 90-4	TVD 125-3M	TVD 125-4
Motor		Single phase	Three-phase	Single phase	Three-phase
kW/CV (50/60 Hz)		2,2/2,5	3/3,5	2,2/2,5	3/3,5
Voltage (2)		230 V (50 Hz)	230/400 V (50 Hz)	230 V (50 Hz)	230/400 V (50 Hz)
Thermal protector		YES	NO	YES	NO
Cutting blade diameter	mm	350 x 25,4	350 x 25,4	350 x 25,4	350 x 25,4
STRAIGHT CUT					
Cutting height (1)	mm	100		100	
Cutting length (3)	mm	870		1.190	
Cutting length (4)	mm	800		1.120	
MITER CUT (45º)					
Cutting height (1)	mm	85		85	
Cutting length (3)	mm	860		1.180	
Longitud de corte (4)	mm	780		1.100	
Machine max. dimensions	m	1,40 x 0,82 x 1,08		1,695 x 0,73 x 1,305	
Net weight	kg	80		153	
Packaging dimensions	m	1,43 x 0,55 x 0,57		1,80 x 0,9 x 0,85	
A LwA-weighted sound power level	dB (A)	100		100	
KwA uncertainty	dB (A)	2		2	
Weighted emitted sound pressure level at the workplace	dB (A)	87		87	
KpwA uncertainty	dB (A)	780		780	

(1) Single run. (2) Other voltages and frequencies to be considered. (3) Thickness 10 mm. (4) Thickness 75 mm. (5) Thickness 70 mm.

OTHER MACHINERY

CABLE CUTTERS

FOR HIGHLY PROFESSIONAL USE

Robust and durable, the CC 16 cuts steel, copper, aluminum cables, etc. up to 16mm in diameter. It executes a triangular cut that guarantees a perfect finishing, without deforming or crushing the material, thanks to its 3 cutting blades.

CC 16

TECHNICAL FEATURES

Cutting capacities		CC 16
Textil core wire rope up to (1600 - 1800 N/mm²)	Ø mm - Ø inches	16 - 5/8"
Steel rod up to 450 N/mm²	Ø mm - Ø inches	10 - 3/8"
Spring wire up to 1300 N/mm²	Ø mm - Ø inches	Ø 5 - 3/16"
Net weight	kg	2
Length	mm - inches	600 - 23.5/18"

BOLT CUTTERS

LIGHTWEIGHT AND ECONOMIC

Models in the CV range consist of a forged head, chrome steel blades and tubular handles with rubber knob. They are supplied in a carton box (individually packed).

CV 8

CV 10

CV 13

CV 16

TECHNICAL FEATURES

		CV 8	CV 10	CV 13	CV 16
Length	mm - inches	450 - 18"	600 - 24"	750 - 30"	900 - 36"
Cutting capacity	Ø mm - Ø inches	8 - 5/16"	10 - 3/8"	13 - 1/2"	16 - 5/8"
Weight	kg	2,2	2,4	4	5,5

Product distributed by Alba.

REBAR SCISSORS

HIGH QUALITY STEEL CUTTERS

Very resistant scissors with interchangeable 3 edge blades. They are made of forged steel and are suitable for cutting steel rods up to 16mm in diameter.

- The jaws and hinge-hooks are made of hot stamped, quality with thermal treatment.
- Steel cutting blades, interchangeable with triangular cross-section, thus allowing the use of its three cutting edges without needing to replace the jaws. The economy is evident.
- For cutting steels with a tensile strength between 1250 N/mm^2 and 1500 N/mm^2 (spring wire, piano wire, prestressed rod, etc.), the special High Resistance blades should be used.
- Substantial handles, made of weldless cold-drawn steel tube, with no risk of bending or breaking the handle.

Screwing system that makes easier the changing of the cutting edge.

CA 2

CA 3

TECHNICAL FEATURES

CUTTING CAPACITIES	Maximum tensile strength of the material		CA 2 "JUNIOR"	CA 3 "SENIOR"
With standard blades	Nm^2: 850 P.S.I.: 120.000	Ø mm Ø inches	14 9/16"	16 5//8"
With high duty blades	Nm^2: 1250 P.S.I.: 180.000	Ø mm Ø inches	12 15/32"	14 9/16"
	Nm^2: 1250 P.S.I.: 180.000	Ø mm Ø inches	10 3/8"	12 15/32"
Length		mm	920	1,070
Weight		kg	6	7.5

PULLING & LIFTING WINCHES

FOR LIFTING AND TENSIONING OF MULTIPLE LOADS

Compacts and resistants, they have a special double safety device and are made 100% with European components, covered with a stamped and galvanized steel casing. Each unit goes through quality control and is tested before leaving the factory.

Traction equipment applications: construction, Public Works, mines and quarries, electricity and communications, shipyards, transportation, firefighters, agriculture, etc.

- No component in aluminum.
- Light and robust stamped steel casing with reinforced shaping, double zinc coated protection and carrying handle.
- Activating levers, aligned with the cable that ensure stability and improve transmission of effort.
- Protection against advance overload, by means of a safety screw.
- Grip-jaws opening system by means of claw couplers, easy to carry out due to being visible from the outside.
- Minimum safety coefficient of the cable is 6.

Optional Safety Device, model CAZADOR, which can be fitted to any model in our range, as well as to any other similar in the market. It works on the winch's cable, as on an auxiliary one, not allowing the unit to slip accidentally along the cable preventing it from breaking.

High resistant alloyed steel loop hook (with no ageing), with safety lock.

8 A

16 A

32 A

TECHNICAL FEATURES

			8 A	16 A	32 A
Nominal strength		kg	800	1.600	3.200
Wire rope advance per activated cycle		mm	54	58	45
Nominal strength in lever		kg	29	40	53
Net weight with lever without cable		kg	7	12	25
Packaging size		cm	44 x 9 x 28	56 x 12 x 36	70 x 11 x 38
Wire rope	**ø**	mm	8,3	11,3	16,3
	Breaking load	kg	4.800	9.600	19.200
	Weight/m	kg	0,27	0,51	1
Weight 20 m cable with reel		kg	6,2	12	23,2

ROUGH TERRAIN PALLET JACK

WITH WHEELS FOR HANDLING PALLETS IN FACTORIES AND WORK SITES

Robust and with high load capacity, our pallet jack requires minimal maintenance and is perfectly adapted to rough grounds in all types of industries (garden centers, construction sites, warehouses, etc.). Easy to use and with reduced pulling and lifting effort, it is suitable for all pallet models.

- Large load capacity: 1,500 kg.
- Very robust metallic structure.
- Guiding axis on self-lubricating bearings.
- Wheels with inflatable tyres, mounted on watertight bearings.
- Hydraulic elevator with built-in pump.
- Total turning without rotating radius.
- Fits all pallet models. Adjustable hook width: from 190 to 590 mm.
- Mechanical brake (optional)

Directional wheels

TH 1500

Front view

Back view

TECHNICAL FEATURES

		A	B
Loading capacity	kg	1.500	1.500
Maximum elevation of the load	mm	200	200
Maximum width of the pallet	mm	1.200	1.000
Outside dimensions (Width x Length x Height)	mm	1.650 x 1.400 x 800	1.450 x 1.400 x 800
Weight	kg	170	170


ALBA

MORE THAN 60-YEARS EXPERIENCE

We design, manufacture and commercialise machinery for construction since 1957.

2022
Alba-Macrel Group keeps innovating to adapt itself to the technological evolution in the industrial area.

2004
Alba becomes the first manufacturer of collective protection system to research on damages with dummies and starts up the first Work Platform overload device, becoming a worldwide pioneer. Two years later, the company is renamed Alba-Macrel Group.

2000
Macrel starts working this new line from its modern facilities in Miranda de Ebro (Burgos, Spain), where we work exclusively the rack and pinion lifting line.

1998
A new company is created: Macrel. It is dedicated to a modern manufacturing line: the rack and pinion hoists. Macrel becomes the first European manufacturer to pass AENOR type EC Examinations for its rack and pinion platforms.

1963
Alba moves to Sondika (Bizkaia), in order to manage greater projects.

1957
Alba is born in Huertas de la Villa (Bilbao, Bizkaia, Spain). The blue colour is chosen as a sign of identity.

"BLUE ALBA"

The **color blue** - new for the time - is chosen as a hallmark that will always accompany us. Until then, construction machines were green. At Alba we were the pioneers in that color choice.

OWN MANUFACTURING AND GREAT ADAPTABILITY

With more than **22.500 m²** of facilities located In Miranda de Ebro (Burgos, Spain) and Sondika (Bizkaia, Spain), we provide top class support, in-house engineering and leading edge technology in design and structural calculation software. Our team works day after day to offer to our customers the most reliable solutions, tailored for each project and specific needs; we guarantee the supply of spare components for machines more than 30 years old.

QUALITY, RELIABILITY AND LEADERSHIP

We offer the **best quality** in all our products and we provide optimal solutions. Our brilliant track record in workplace accidents ensures **superior safety quality**.

The electronic/electrical components and the motors of all our hoists are manufactured by European-based International brands, also available in North America, complying with all regulations.

SUSTAINABILITY

We manufacture the parts in our machining workshops and laser cutting centers, our main objective being the optimization of **raw materials** to try to accomplish minimum residue. We also have a type A energy efficient compressor room, migrating to a more sustainable and lower consumption LED technology. We recycle the materials and generated residues, and we send all our products in wooden or cardboard packaging.

INTERNATIONAL PRESENCE

We have an Export Department and an After-Sale Service created expressly for the international market and adapted to the needs it demands. Throughout our entire trajectory, we have participated (and continue to participate) in the main international trade fairs, which allows us to learn about the trends in the sector. Our experience makes us today a world-class company, with a p**resence in 77 countries**.

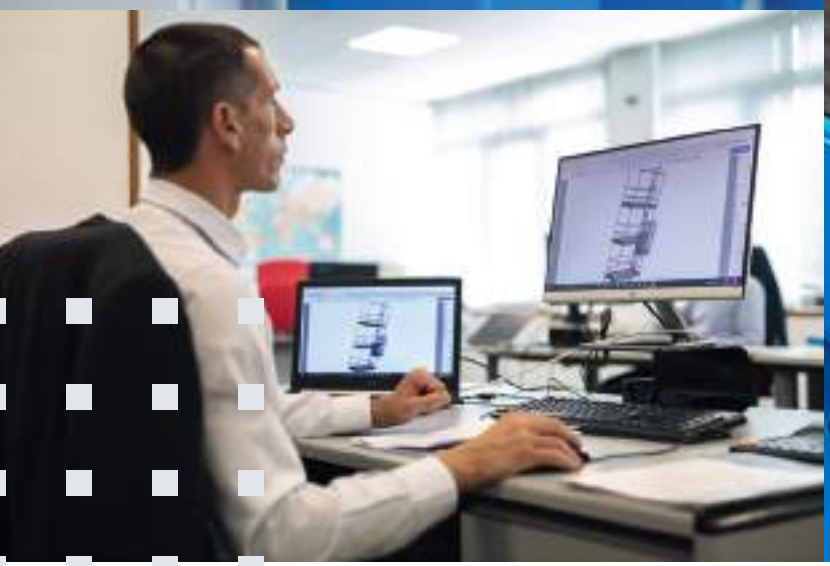
Our facilities are located in strategic areas close to the main transport networks, **connected worldwide**. This allows us, together with proper logistics, that all products arrive in perfect condition at their destination.

AFTER-SALE SERVICE

We offer a support and maintenance service of all our machines, both in the factory and in our network of Technical Services. Even if some of them ensure a useful life of 40 years, **we guarantee the supply of spare parts and an optimal after-sale service**. All ALBA equipment comes with a specific spare parts breakdown that facilitates the identification of the necessary pieces.

BUILDING THE FUTURE

At ALBA we continue to innovate within our sector, developing new products and optimizing existing technology in order to respond to the needs of our market.



Bizkaia
bizkaia

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CONSTRUCTION EQUIPMENT

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