



Automatic Shaping Center

CS 440 CS 40-45

Automatic Shaping Center



MEP
the history of innovation



www.mepgroup.com

CS 440 . CS 40-45

AUTOMATIC SHAPING

The automatic double head benders belonging to the "CS 440" series are designed for **production of stirrups and large shapes bended clockwise or counter-clockwise on both sides.**

The bending sequences are controlled in full **automatic mode** without requiring any intervention by the operator during the working cycle, so granting high productivity along with **quality of finished products.**



VERSATILITY AND PRODUCTIVITY

All CS Series double head benders can be installed in **different configurations** fitting the specific production requirements. Along with versions having **one mobile head** at whatever side, the unit is also available in configuration with **two mobile heads** capable to work simultaneously and so assuring very **high productivity.**

The **440 version** is a further step ahead being equipped with an exclusive **retractable pin system** which allows **full bending ($\pm 180^\circ$) on both directions** on the same piece.

Bend with no limits

BENDING PINS UNDER RULES

Shaping centers "CS" uses a full set of bending pins complying to the international standards.

The "CS 440" automatic double head bender is equipped with an exclusive system designed to bend clockwise and counter-clockwise at full $\pm 180^\circ$ angle without any limitation, therefore expanding the range of shapes that can be processed on the unit.

REAL 180° CLOCKWISE AND COUNTER-CLOCKWISE

Bending is executed by mean of a retractable lateral bending pin. The retractable lateral bending pin works in a very simple and efficient manner. After having made the first two bends on counter-clockwise, -180° ① e -90° ②, the lateral bending pin retracts (①) ③, and re-position itself on the opposite side of the processed bar to execute the next clockwise bend, $+45^\circ$ ④. The whole sequence is very fast and performed in full automatic mode.

AUTOMATIC CONTRASTS

The contrast clamps are activated automatically during the working cycle according to the shape under production process assuring the best product quality.



LIFTING AND FEEDING SYSTEM

The front conveyor is equipped with rubber rollers and with a **lifting arms system** specifically designed to feed the bending station, while helping the machine operator in **selecting and picking of the bars** to be processed.



BAR ALIGNMENT

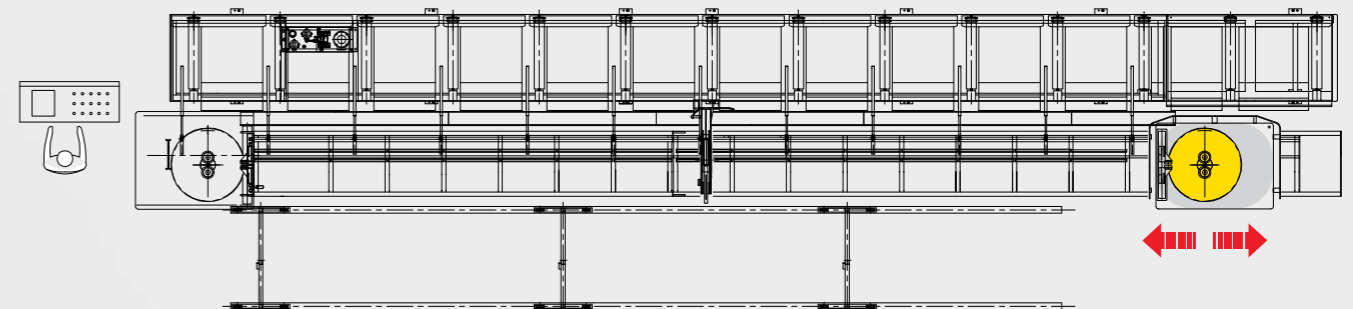
A retractable endstop, positioned on the bender, allows a perfect **bar alignment**, ensuring the **correct measurement tolerances**.



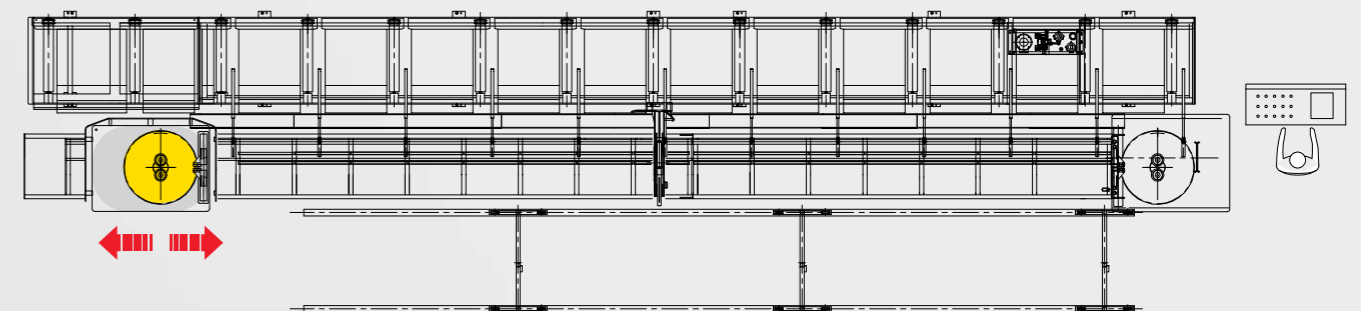
SECURE LOCK

The CS version with **two mobile heads** is equipped with a **central clamp hydraulically driven**. It ensures the **firm locking and the support** of the bars while the two heads are moving along the unit and performing the bending sequence.

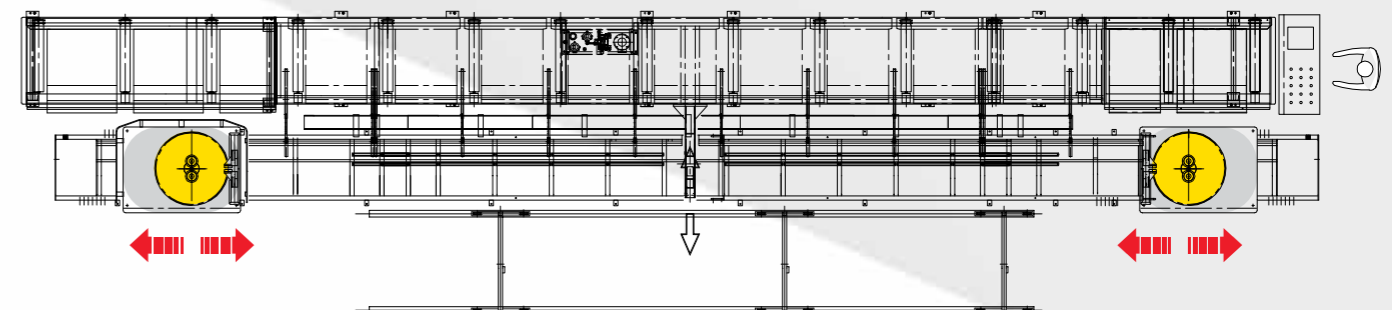
VERSATILITY AT YOUR SERVICE: CS440 - CS40-45



CS440 o CS40-45 with fixed machine on the Left Side.



CS440 o CS40-45 with fixed machine on the Right Side.



CS440 o CS40-45 with two mobile machines.

AUTOMATIC UNLOADING SYSTEM



- The **shaped products** are **unloaded automatically** through a system that uses **three lifting devices**, which act simultaneously. This will eliminate unnecessary effort by the operator.

CHAIN FEEDER



- The **chain feeder** is a unit that collects, transports and deposits the bars cut to size by creating an efficient **intermediate storage station**. (OPTIONAL)

DOUBLE ROLLER CONVEYOR TRANSPORT/COLLECTING CARRIAGE



- The **second motorized roller conveyor**, complete with lateral discharge, can increase the storage capacity. (OPTIONAL)

BIDIRECTIONAL BENDING FOR CS40-45



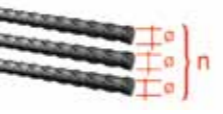





- Centers shaping CS 40-45 can be equipped with a **set of center and lateral pins for bidirectional bends**. (OPTIONAL)

LARGE RADII BENDING PINS



- Large radii bending pins set** is available with maximum diameter up to 500 mm. (OPTIONAL)

TECHNICAL AND PRODUCTION CHARACTERISTICS

REBAR	🇬🇧		🇺🇸	
	CS 40	CS 45	CS 440 mono-directional	CS 440 bi-directional
n° 1 bar with Ø	40 mm #11	45 mm #14	40 mm #11	32 mm #10
n° 2 bars with Ø	32 mm #10	34 mm #10	32 mm #10	28 mm #9
n° 3 bars with Ø	26 mm #8	26 mm #8	26 mm #8	24 mm #8
n° 4 bars with Ø	20 mm #6	20 mm #6	20 mm #6	20 mm #6
	MAX BENDING ANGLE			
Maximum	180°			
	BENDING DISPLACEMENT SPEED			
	0.7 m/s	2.30 fps	0.8 m/s	2.62 fps
	BENDING SPEED			
	5,6 ÷ 11,2 rpm		4 ÷ 12 rpm	
	PINS DIAMETER			
minimum	30 mm	1-1/4"	40 mm	1-5/8"
maximum (other measure upon request)	250 mm	10"	200 mm	8"
	ROLLER CONVEYOR			
maximum width (other measure upon request)	1005 mm		39 9/16"	
	INSTALLED POWER			
maximum (other measure upon request)	35,5 kW	47.6 hp	26 kW	35 hp

Note: #6 = 3/4" ; #8 = 1" ; #9 = 1-1/8" ; #10 = 1-1/4" ; #11 = 1-3/8" ; #14 = 1-3/4"

MEP

MEP Macchine Elettroniche Piegatrici
via Leonardo Da Vinci, 20
I - 33010 Reana del Roiale (UD) - ITALY
Tel. +39 0432 851455
Fax +39 0432 880140

MEP
BRASIL

MEP Brasil
Rua Bom Jesus da Cachoeira, nº 100
Parque Edu Chaves
CEP 02236-020 - Sao Paulo - BRASIL
Tel. +55 11 2240.4610 - 2240.4553
Fax +55 11 2240.4610 - 2240.4553

MEP
FRANCE

MEP France S.A.
8 bis, rue des Oziers
BP 40796 Zone d'Activités du Vert Galant
95004 St. Ouen L'Aumône FRANCE
Tel. +33 1 34300676
Fax +33 1 34300672

MEP
NORD-EUROPE

MEP Nord-Europe GmbH
Brienner Strasse 55
D-80333 München GERMANY
Tel. +49 089 41610829

MEP
POLSKA

MEP Polska Sp. z o.o.
ul. Józefowska 13/A
93-338 Łódź POLAND
Tel. +48 42 645 7225
Fax +48 42 645 7058

MEP
VOSTOK

MEP Vostok OOO
Ул.Новаторов, 36 корп.3 Офис XXIV
119421 Москва Россия
Tel./Fax: +7 495 745 04 90

MEP
ASIA

MEP Asia Co., Ltd.
1303 Ho, 301-Dong, Bucheon Techno Park
345 Sukcheon Ro, Ojung-Gu
Bucheon, Gyunggi-Do - SOUTH KOREA
Tel. +82 32 329 1956
Fax +82 32 329 1957

www.mepgroup.com

sales@mepgroup.com