Станки для рубки по размеру Superflex
Технические характеристики

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mpa@nt-rt.ru || https://mepgroup.nt-rt.ru/

Superflex 32-40

RELIABILITY OVER TIME

The **SUPERFLEX** can process and cut stock rebar at very high level of productivity and tolerance accuracy.
It is based on a very strong and reliable heavy duty structure that can be managed by a single operator.

SUPER-FLEXIBILITY

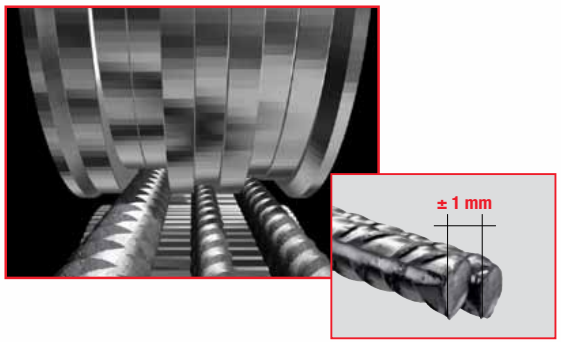
The **SUPERFLEX** is a travelling cutting bench that, aligning in the right position with the bundles holding rack, can be loaded with rebars and can cut fast and precise.
The bench delivers as well the material onto intermediate conveyors, collecting racks or bending centers, depending on the production requirement and consequently of the "tailor made" lay-out.
The modularity of a **SUPERFLEX** based plant, and in particular the possiblity to expand the lay-out at later stages, makes this unit of the most flexible solution in the cut and bend.

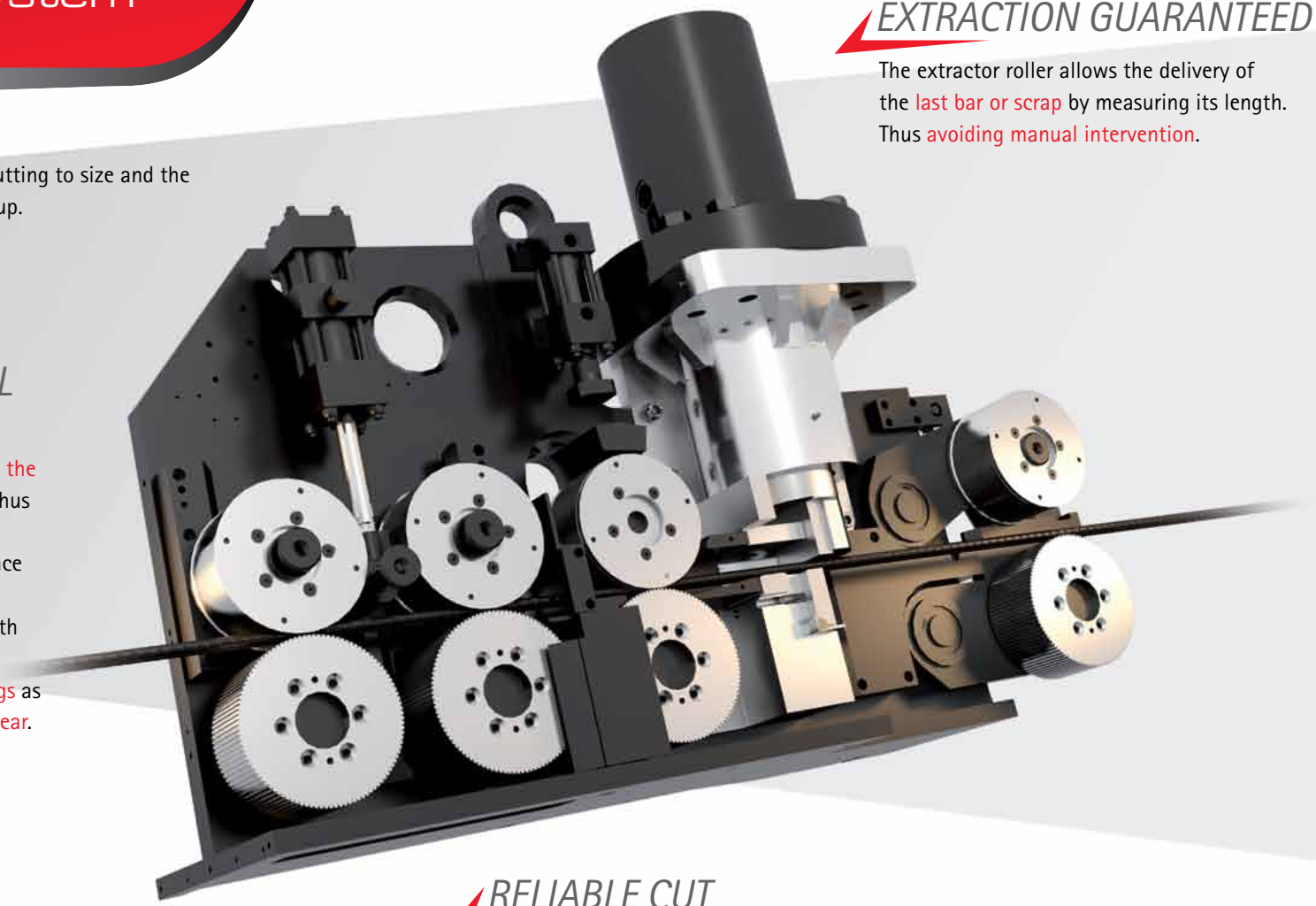
The Heart of the system

The extraction of the bar from the bundle, its cutting to size and the subsequent delivery is entrusted to a single group.

TRACTION UNDER CONTROL

The extraction and dragging of the rebar is guaranteed by a rollers system, able to adapt to the differences in diameter and profile of the bars thus avoiding slippage.
Traction control so obtained, warrants compliance with the lengths tolerances even in the most critical cases with bundles of poor quality or with simultaneous processing of more bars.
The feeding rollers are made of special steel rings as independent units, ensuring a limited level of wear.





EXTRACTION GUARANTEED

The extractor roller allows the delivery of the last bar or scrap by measuring its length. Thus avoiding manual intervention.

RELIABLE CUT

The hydraulic cutting system, normally used in the shake-down shear lines, has been chosen for its high reliability and cutting ability.
The shear is positioned between the feeding and delivery rollers, for a better management of the scrap that if it is smaller than 800 mm, is collected automatically in an outer container, if it is longer, delivered on the roller conveyor.

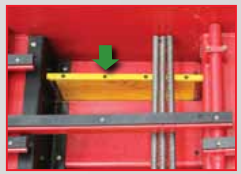
Optimized rebar management

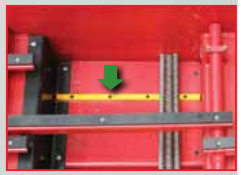
DELIVERY 100%

The **SUPERFLEX** is available in versions with different numbers of distribution conveyors that can be loaded from the evacuation channel in any position along the full length (12, 14,...m). Maximizing the number of available positions for intermediate collection of material before delivering out of the bench, provides an enormous benefit in terms of optimization of cutting list.

HOMOGENEOUS HANDLING

For a proper and consistent handling of the cut bars, we use roller conveyors with a width of 400 mm and a maximum capacity of 3000 kg evenly distributed.



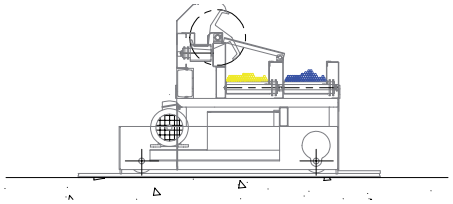


Lift device that facilitates the tieing of the tag. (OPTIONAL)

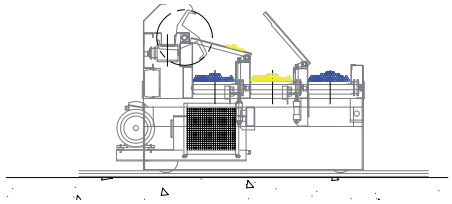
WORLD SYSTEM
Total Control

VERSATILITY AT YOUR SERVICE

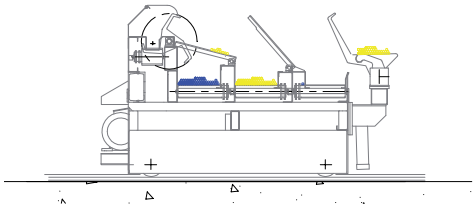
The system can be provided with a variable number of roller conveyors depending on the different production needs.
A version consisting of a last roller conveyor capable to tip aside, is also available.



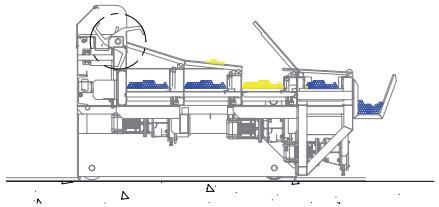
2 ROLLER CONVEYORS.



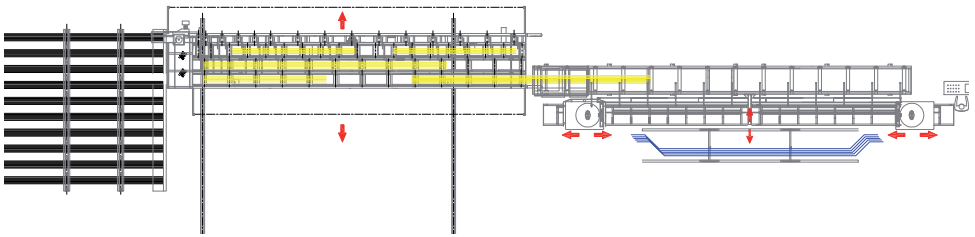
3 ROLLER CONVEYORS.



3 ROLLER CONVEYORS AND LATERAL UNLOADING

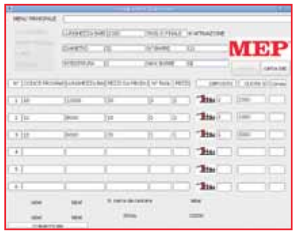


4 ROLLER CONVEYORS, SCRAP POCKET



- **Industrial P.C. control panel** with software organized by windows structure that provides the following functions:

- Programming the length of the bars to be cut and their quantity depending on the diameter and commecial/ stocklength.
- Programming of a complete cycle of up to 6 different sizes on each bar.
- Programming the selection of the roller conveyor for the collecting rack.
- Coding of work cycles to allow the operator to place the tags (tagging).
- Programming the optional aligning cut of the bars.
- Automation of multiple stations, automatic tying unit (optional).
- Displaying the cutting capacity of shear depending on the diameter of the bars to be cut.
- Displaying the length of remaining scrap.
- Possibility of optimizing cutting lists by creating automatic work cycles. (optional)
- Ability to upload up to 100 cycles of work in the required sequence, displaying the weight, length and cut quantity for each position.
- Storing data of work cycles (positions, diameters, times, weights, etc..).
- System of "active diagnostics" to check all devices in the machine.
- Outfitted for downloading data from external computer via RS 232 link. (optional)



UNIVERSAL BLADE

- The shearing unit uses universal blades for any diameter. Provided of 4 cutting faces.

HYDRAULIC CLAMPING

- Hydraulic clamping jaws. Facilitates the binding of bundles of large size and weight, or characterized by a high number of bars. (OPTIONAL)

SCRAP POCKET

- Bars that exceeding 800 mm can be collected in a special pocket. (OPTIONAL)

BUNDLES ALIGNEMENT HEADING

- Bundles alignment heading support for positioning and aligning the bars before insertion in the extraction/feeding group. (OPTIONAL)

MOBILE SCRAP BIN

- Mobile scrap bin mounted on rails to facilatate the removal.

AUTOMATIC LOADING SYSTEM

- The optional automatic loading system (patented) selects the diameter of the bars, alignes and loads one or two bars depending on the programmed list, thus creating a continuous optimized working cycle. The device uses a mechanical arm equipped with magnets that lift the bars from the bundle. The alignment device aligns the bars before they are counted and loaded into the machine, guaranteeing correct measurement tolerances. A magnet draws and counts every single bar with extreme precision, avoiding counting errors (loading one bar instead of two) which would distort the quantities to be produced, as well as compromising the optimization already programmed.

TECHNICAL AND PRODUCTION CHARACTERISTICS

	**PROCESSING OF SMOOTH OR REBAR WIRE**		**SUPERFLEX 32**	**SUPERFLEX 40**	
	Number of bars	n. 1 Ø	32 - #10	40 - #11	
		n. 2 Ø	26 - #8	32 - #10	
		n. 3 Ø	20 - #6	25 - #8	
		n. 4 Ø	16 - #5	20 - #6	
		n. 5 Ø	16 - #5	16 - #5	
	fy = 600 N/mm² - ft = 650 N/mm² (other loads upon request)				
	**CUTING CAPACITY**				
	Minimum cutting lenght (other sizes upon request)		800 mm - 31.5"		
	Maximum lenght (other sizes upon request)		12000 mm - 39-4"		
	Measurement tolerance		±1 mm/m		
	Max. speed positioning		2 m/s - 6.6 fps		
	Measurement rollerway evacuation speed		2.2 m/s - 7.2 fps		
	Rollerway feeding speed		1 m/s - 3.28 fps		
	Bench translation speed		0.25 m/s - 0.82 fps		
	**NUMBER OF DEPOSIT ROLLER CONVEYORS**		**1**	**2**	**3**	**4**
	Rollerway width		400 mm - 15.74 inch			
	Deposit capacity per way		3000 kg - 6600 lbs			
	**INSTALLED POWER**					
	maximum (other sizes upon request)		27.6 Kw - 36.9 hp			

THE EQUIPMENT DOES NOT REQUIRE COMPRESSED AIR.

fy: Max. unit yield point - ft: Max. Tensile strength

Note: #5 = 5/8" ; #6 = 3/4" ; #8 = 1" ; #10 = 1-1/4" ; #11 = 1-3/8"

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