



VITARI AUTOMATIC STRAIGHTENING MACHINES

VITARI NR 100 - 200 - 300 - 400

INDUSTRIAL WIRE
REINFORCEMENT WIRE



EUROLLS



Vitari



VITARI AUTOMATIC STRAIGHTENING MACHINES: MOD. NR 100-200-300-400

The Vitari series of straightening machines are electronic, compact, modular and capable of processing a wide range of smooth or ribbed wires in steel grades ranging from mild steels to high tensile as well as non-ferrous with processing speeds up to 180 m/min (3 m/s). The machines have three independent motors which control the wire feed, the straightening spinner and the cutting unit which guarantee precision cut lengths.

The high-level electronics installed allows the operator to programme production using the integrated touch-screen on the ergonomically positioned control panel. The operator can save all setting parameters of different wire batches as well as production data. The relevant data can be transferred to an Excel spreadsheet via a USB key. The machine can also be equipped with a modem for world-wide on-line technical assistance. The machines are modular and all the tooling is interchangeable between the different models. All machine models are available in right and left mode allowing for face-to-face set-up with considerable production and logistic advantages.

MODEL	NR 100	NR 200	NR 300	NR 400
Wire diameter (mm) Rm < 800 MPa	1 - 5	2 - 7	3 - 10	4 - 12
Wire diameter (mm) Rm < 1200 MPa	1 - 4	2 - 6	3 - 8	4 - 10
Wire diameter (mm) Rm < 1600 MPa	1 - 3	2 - 4	3 - 6	4 - 8
Speed m/min	10 - 180	10 - 180	10 - 180	15 - 180
Fixed shear	*	*	*	*
Flying shear	n.a.	n.a.	n.a.	*
Length min. (mm) fixed shear with option for short pcs	150 (35)	150 (35)	140 (45)	500
Length min. (mm) flying shear at max. speed	n.a.	n.a.	n.a.	1800
Length tolerance fixed shear (+/- mm)	0.1 - 0.2	0.1 - 0.2	0.1 - 0.2	0.2 - 0.3
Length tolerance flying shear (***)	n.a.	n.a.	n.a.	0,1%
Maximum bar length (mm)	12000	12000	12000	12000
N° cuts/min. fixed shear in continuous mode	200 (390)	200 (390)	200 (390)	200 (390)
N° cuts/min flying shear	n.a.	n.a.	n.a.	120
Floor space (LxWxH)	1400x1045x1550	1460x1045x1550	1800x1045x1550	3065x1475x1710
(***) length tolerance on bars shorter than 2 m is +/- 2 mm				

TECHNICAL FEATURES:

- Independent electronic control of the wire feeding units
- Independent electronic control of the standard 5 die spinner
- Independent electronic control of the brushless servo-motor cutting unit
- Pneumatic bench evacuation of the cut bars
- 7" full-colour touch-screen panel to programme the machine settings
- VITARI Easy-Run software with in-built menu's for storing settings and relevant production data
- Power saving through recycling of the machine drives energy consumption
- Measuring device with laser mechanical length stop with a quick-release for length change and adjustment dial for accurate length settings
- Machines are modular and available in both right and left mode enabling a face-to-face layout with logistic and material flow advantages
- Modem for remote technical assistance

OPTIONAL EQUIPMENT:

LUBRICATING SYSTEM	This minimal wire lubricating system is innovative and environmentally safe. Odourless, smokeless with low oil consumption. Ideal for all successive welding operations. The oil flow is controlled via the PLC and the 3 litre tank integrated in the machine.
7 DIE SPINNER	The 7 die spinner has a reduced pitch allowing wire to transit through the spinner with a low sinusoidal curve. This can result in improved straightening of both high tensile and thin wire.
CRADLE BENCH	The cradle bench is preferred by customers who cut short bars as the cradle allows the bars to sort neatly. As the pre-cut bars are not released automatically the operator is required to preside.
AUTOMATIC CUTTING BENCH	The automatic bench has fingers to enable processing partial batches of bars discharging them automatically into the collecting bench. The operator does not need to preside.
AUTOMATIC CUTTING BENCH WITH DOUBLE COLLECTOR	The cutting bench has a double series of automated fingers allowing to collect two lots of pre-cut bars as programmed on the PLC.
COLLECTION BENCH	The bars drop from the cutting bench into the collecting bench without any bar alignment.
COLLECTION BENCH WITH BUNDLE ALIGNMENT	The pre-cut bars are automatically vibrated and aligned intermittently with the frequency controlled by the machine PLC. The perfectly aligned bundle is ideal for both handling and storage requirements.
VERTICAL MOTORIZED PAY-OFFS	High performance pay-off models PV1500 and PV3000 capable of feeding the required wire at the programmed machine speed up to max. 180 m/min. The electronically controlled feed avoids any wire <i>back-lash</i> during the acceleration or deceleration phases.
VERTICAL IDLE PAY-OFFS	Unlike motorized pay-offs, idle pay-offs rely on the machine feed rolls to pull the wire into the machine. The SVF1500 and SVF3000 models can reach uncoiling speeds of max. 180 m/min. The pay-offs have a disc braking system with a twin pressure regulator for braking and emergency stop requirements.
STATIC PAY-OFFS	Wire decoiling is overhead and generally used with wire diameters below 1.8 mm.

SPECIAL APPLICATIONS

The machines can be integrated with systems enabling the following executions:

- Chamfering the bar ends
- Embossing TIG welding bars



AUTOMATED BAR CHAMFERING



AUTOMATED BAR EMBOSSING

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