



Sommario



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The innovative technical solutions proposed by Schnell in the field of reinforced concrete rebar processing have been replacing complicated and ineffective ways of work.

Our ability to listen to people and to look at their behaviour, combined with the awareness that we can always improve our work and the most state-of-the-art technology, have made it possible for us to develop a new wide range of machines, plants and accessories for the building industry.

In a few years Schnell has introduced a great number of solutions to **automate more and more all the stages of rebar processing**: from pre-cage automatic assembly to software programs for production management, from automatic robots to bar cutting and bending plants, from the innovative straightening systems to automatic bar loading systems.

When Schnell presented its technical proposals to **easily produce pre-cages to be assembled directly at building yards and its new automatic stirrup benders** at SAIE 2005 – the International Exhibition in Bologna – the **experts of the field were enthusiast and confirmed once again Schnell as world leader in innovation.**

So, in this number of @Schnell we will give you further details about **"Terminator"** and **"Formula sapiens 14"**, but we will also deal with the technical assistance service net created by Schnell to support its clients and meet their needs more and more effectively.

@Schnell n° 10_Newsletter del Gruppo Schnell

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Terminator



In 1994 Schnell launched on the market "Idea", the first machine for automatic cage assembly. "Idea" changed the concept of assembly process by making it easier, highly productive and industrializable.

From then on, Schnell paid particular attention to assembly problems. So at SAIE 2005 it presented "Terminator", an innovative machine for the final assembly process of reinforcing structures.

"Terminator" welds longitudinal bars to pre-cages (pre-assembled stirrups produced with IDEA) completing the assembly process started by "IDEA" and eliminating any residual hand work.

Such welding process is innovative and easy to operate. The operator introduces the pre-cage cross sections he wants to weld in suitable electrodes and "Terminator" completes the welding automatically.

This is possible thanks to our "resistor electric welding system" - SER - (Patented) which allows "Terminator" to:

- > prevent the operator from entering data in the operating computer,
- > recognize the cross sections and the thickness of the bars to be welded automatically,
- > regulate the welding intensity and duration automatically,
- > check if every welding procedure is operated successfully.



Compared to traditional cage completing systems, "Terminator" reduces final assembly time and costs drastically.

Moreover, compared to the welding with "introduction of material", you have several advantages such as:

- > no need of devices for welding smoke suction;
- > no need of eye protecting masks;
- > no need of gas nor welding wire.

Terminator has been installed in many plants and our clients, who are completely satisfied with this product, have immediately understood and appreciated its unique features.





Formula Sapiens 14



In the last years, coil processing has reached a high level of automation and precision thanks to the introduction of the new "Sapiens" straightening system. First, it was applied only to the most powerful machines of the "series 16" but actually, the "Sapiens" system allows better straightening in an easy and stable way.

This state-of-the-art straightening system applied also to smaller stirrup benders gives Schnell the opportunity to produce a top-performance machine also for small and medium diameters. "Formula Sapiens 14", is, in fact, a bidirectional automatic stirrup bender to produce stirrups and cut bars from coils up to # 4 or double # 3.

"Formula Sapiens 14" can produce a 200x200 mm stirrup in about two seconds, which means about 3.600 stirrups per hour, with double coil so it is a machine addressed to those who look for maximum technology, great efficiency and high production rates.

This new stirrup bender of the series "Sapiens" features many new devices such as a wider stainless steel front panel, a stirrup collecting flap and two servomotors on the feeding unit which make it possible to work at a maximum speed of 475 ft/min.

Moreover, "Formula Sapiens 14" is equipped with some mechanical, control and interface with the operator innovations which belong to "Sapiens" technology. In particular:

- > due to its special straightening system, the machine can detect low-quality material;
- > final adjustments are controlled electronically by joy-stick. The straightening process of each wire is completely independent from the other and totally computer controlled. The machine is easy to use also for operators with little experience.

- > Thanks to "Schnell KS 104" control system you have access to three levels of memorization of straightening parameters.

"Formula Sapiens 14" gives an effective answer to the needs of our clients as it is easy to operate and ensures high productivity rates and top-quality straightening standards (straight bars and well-closed stirrups) as Schnell is always looking for real and useful production solutions.



“Double Deck” bar feeding station



Schnell has created an innovative bar feeding station. The novelty is in the structure of the “Double Deck” station as a moving feeding device stands over a fixed stocking element.

Thanks to the introduction of such improvement it is possible to:

- > stock bundles of bars without hampering the feeding process of the upper station,
- > save space in the shaping centre,
- > reduce station feeding time.

This new solution is available on every machine of the series Bar Wiser.



Schnell Services

The trading net created by Schnell has reached thousands of people all over the world thanks to the trustful relationship our clients have with the company.

But how can you get clients' trust and respect? First of all, you can do it by having at your disposal a wide range of solutions to meet the needs of every single client. Then through a staff of professionals who can offer, according to their role, willingness and competence.

Among these professionals Schnell has **22 internal technicians**, true **specialists** who know each machine in detail.

They are responsible for machine testing, installation and maintenance. But they also provide assistance to clients through our **call centre** available **every day** (On working days phone 0039 0721 8787251 / 395 while on Saturday morning phone 0039 348 9019904). The call centre can deal with **our clients' requests immediately**.

Starting from this contact, the after-sales department takes the most suitable steps to solve any problem: from the delivery of **spare parts by way of express couriers** to the assistance provided by one of our **numerous servicing centers** all over the world.

From Spain to Finland, from The Netherlands to Russia, from Portugal to Great Britain, from Brazil to Japan, France, the USA, Turkey and now also Germany, Switzerland, China and many others. Schnell has **27 servicing centers with over 50 professionals** whose goal is to support Schnell's clients in every situation.

But Schnell **constantly monitors also the quality of the servicing offered by its external servicing centers**. By doing so, our company can immediately adjust and improve its services to ensure every client the best assistance.

The great **flow of information** collected by our technicians all over the world does not go to waste. It is elaborated by Schnell's Product Evolution Department. This area, on the basis of the data collected by our experts or external servicing centers, studies how the machines can be improved to make them more and more reliable. This development process is our secret to offer our clients top-quality products.

