

## From Liquid Steel to processing oriented Reinforcing

Talleres y Aceros in Mexico is a family owned Steelmaking Shop which was founded in 1985. The basis was a Rolling Mill with a monthly capacity of 1 500 tons only. Today the Rolling Mill can produce 750 000 tpa of wire and rod.



## Largest possible Flexibility

With the system MG630 Tailor Schlatter has realized a highly flexible machine covering efficient processing of small to very small lot sizes. This way producing multi track as well as directly with variable cut-outs from coil are feasible and thus material consumption and processing time could be remarkably reduced.



The continuously cast billets are directly fed into the Rolling Mill where they are either rolled to wire and coiled or to straight bars on the cooling bed.



Total view of the MG630 at Talleres y Aceros in Mexico.



MG630 in operation at Talleres y Aceros in Mexico.

### Direct Loading of the Mesh Plant

Talleres y Aceros has selected this highly flexible path and is now able to feed the production from steelmaking/casting through the integrated rolling mill directly to the versatile mesh plant.

The MG630 Tailor takes drawn as well as hot rolled wire in the range of 6 to 16 mm diameter which can be welded in any combination. Openings for windows, doors or electric installations are directly realized during the integrated rod cutting. Thus a later cut-off is avoided inclusively the related material loss. Nearly any shape and wire combination can be just in time customized produced.

With this plant Talleres has created the possibility to react spontaneously on market needs – especially also in small lots. By this plant all process steps are under one roof resulting in the most efficient rebar system manufacturing.

One person introduces the input data via Schlatter's specially developed "Mesh-Studio" – a 3D design program – and operates the entire installation.

With this technology rebar mesh can be designed and produced for any project need with high accuracy. Alternatively mesh geometries can be introduced into the Mesh-Studio as CAD data. In this case the Mesh-Studio determines the welding parameters as well as the material specification and volume.

The longitudinal and the cross wires are supplied by 8 coilers, each with a carrying capacity of up to 5 tons. The "Rectormatic 8-2-S" with 8 hyperbolic straightening units and integrated central lubrication straightens and cuts two wires simultaneously with a speed of up to 140 m/min; the wires are cut with two electrically operated shears. The accurately cut longitudinal and cross rods are transported by conveyer cars into the welding line where they are processed by up to twelve independently servo motor adjusted welding presses.

The MG630 Tailor is equipped with up to four medium frequency current sources and up to eight transformers which allow welding of wires up to 16 on 16 mm diameter. Beside the high quality of the weld the customer was impressed

by stable design and robustness of all the installation; all elements are built for highest availability in 24/7 operation mode.

As usual with all Schlatter Plants also the MG630 Tailor is realized as a modular concept which enables multiple as well as upgraded completion levels.

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