

Schilt *Engineering*



MULTIBAR 300/500

> AUTOMATIC REBAR SHEARLINE

Automatic shearlines characterized by their suitability for heavy usage, high cutting capacity, maximum processing speed and high production output.

MULTIBAR

300/500

> AUTOMATIC REBAR SHEARLINE

Modern control system, with Windows based software. Features:

- + Touch panel with user friendly interface
- + Connectivity to many rebar software packages.
- + Input of production lists can be done manually, with barcode scanner or via network.
- + Online support by internet for trouble shooting and changing parameters.
- + Production statistics (production per time span, production per diameter and more).

The MULTIBAR series of shearlines is characterized by an almost unlimited number of possible variations in layout. This allows the crane usage to be further minimized in any rebar processing plant. In addition, it is possible to replace the manual loading of bars with our unique and highly reliable ABL module for fully automatic selecting, counting and loading of bars.

Features

- + High cutting capacity with two cutting speeds
- + Silent hydraulics for better working conditions
- + A-class coated rollers for noise reduction
- + Frequency controlled electric drives with high processing speeds
- + No impulses in the chain drive system of the rollers during the acceleration
- + Special chain drive system for the rollers, with central chain tensioner
- + Unmatched high level of finishing, no loose cabling
- + Sturdy design of the equipment for proven long lifespan, even with heavy usage
- + Very low downtime due to low maintenance requirement





Solid storage rack with multiple levels to store different rebar diameters. The surface of the rack is completely closed with tear plate for safe operation. The row of hooks on both sides of the infeed conveyor provide possibility to preload bars already during the previous cutting cycle.

Heavy duty shear with 2 cutting speeds (automatic) for short cycle times. The shear moves over a maximum of 500 mm during production in order to quickly reach any desired cutting length. Driven rollers are provided before and after the shear for the best possible processing of short pieces and for trouble-free transport of bars through the shear. Perfect finish with as few uncovered hoses and cables as possible.

Automatic length stoppers are mounted in the measuring track every 500mm. In combination with the movable shear, every cutting length can be reached quickly.

The length stoppers are provided with internal rubber buffering system to decrease the force impulse on the stoppers plates when they are hit by the bars.

Many logistical options can be provided. In addition to boxes for straight cut lengths, it is also possible, for example, to integrate additional roller conveyors, pocket systems, chain conveyors and double benders. This allows the production to be optimized better, a buffer is created in the machine and crane movements can be reduced.



CUTTING CAPACITY FOR SHEARLINE MULTIBAR 300

Bar diameter (mm)	ø8	ø10	ø12	ø16	ø20	ø25	ø28	ø32	ø40	ø50
Max. amount per cycle	30	28	22	16	14	10	9	8	6	2

CUTTING CAPACITY FOR SHEARLINE MULTIBAR 500

Bar diameter (mm)	ø8	ø10	ø12	ø16	ø20	ø25	ø28	ø32	ø40	ø50
Max. amount per cycle	55	46	37	28	22	18	16	14	8	4

at 850N/mm²

Logistical solutions for MULTIBAR shearline

The shearline can be expanded with many logistical solutions, all aimed at reducing crane use and increasing output. Double benders and third-party machines can also be integrated into our machine. Because these solutions can be made according to customer requirements, a suitable machine can be put together for each rebar processing plant.



Pocket system which can be closed and opened on request

Cutting jobs can be collected in these pockets in random order.



Opening and closing to receive Bars in random order



If pocket is full or order is complete the entire pocket is emptied



Bars roll toward nex station

Chain conveyor >
system which
creates buffer
between
shearline and
double bender.



< Collecting boxes for collection of straight bars after cutting.



< Automatic
bundling
and tagging
machines can
be integrated.

Automatic Bar Loader (ABL) for MULTIBAR shearline

The unique ABL module from Schilt is used by many customers all over the world and is very widely appreciated for its reliability. The ABL module ensures that manual loading of bars in the shearline (heavy labour) can be avoided. In addition, the many storage compartments in the machine make it possible to optimize production better and thereby achieve better returns from your rebar processing factory.





- ◀ Safest way of loading of new bundles through automatic bundle loading system. Supply of new bundles into the loading system possible by overhead crane or by conveyor.

The number of boxes of raw material can be adjusted to customer requirements. For example, a compact machine can be built in case of a lack of space or, on the contrary, a machine with a large number of storage compartments for the best optimization of cutting lists.

ABL - advantages:

- + Elimination of manual bar loading, reduction of manpower
- + Innovative new design
- + Proven stable and robust machine for continuous usage
- + Optimized servo drives for maximum processing speeds, higher productivity compared to traditional cutting systems
- + Accurate bar selecting and counting, prevent production of wrong numbers.
- + Many pockets possible for maximum optimization and reduction of scrap
- + Available in all required lengths (12-14-15-16-18 meters)
- + Wide range of bar diameters (Ø12 - Ø50) to be processed on one machine



Accurate, quick and safe selecting and counting of rebar through innovative design with servo drive system.

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**LEADING
INNOVATORS**

**IN THE AUTOMATION OF
REBAR PROCESSING**

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