

For the two different systems, *Supra road flex* and *Supra multi flex* there are two different types of rail welding machines available. Depending on the application the *AMS 60* or the *AMS100* is recommendable.



Schlatter AMS60

Schlatter AMS60

The development of the AMS60 was aimed at achieving a similar quality of alignment of the rail ends, laterally and vertically, compared to the worldwide well known stationary machine Schlatter GAAS 80. Consequently the AMS60 is most suitable where exact alignment is essential as it is for high speed railway lines.

The AMS60 offers some outstanding features:

- Automatic alignment on the running edge, selectable left or right side.
- The elements of the lifting device take the rail ends under the rail head and push them to the vertical crown stops. Only then the clamping process starts. This makes sure that the rail ends are in a defined position.
- Adjustable vertical crown stops.
- Clamping in the web with steel elements.
- Separate hydraulic cylinders activate the electrodes which touch the rail web.
- Automatic deburring unit which deburrs directly after welding.
- Welding force up to 60 metric tons.
- Welding range for Vignol rails of up to approx 68 kg/m.



Schlatter AMS100

Schlatter AMS100

In addition to the AMS60 which has been available for several years already, Schlatter recently developed the new type AMS100. It is of simpler design and at the same time offers higher welding force. Therefore this machine is rather for welding bigger rail profiles, for railway lines with heavier axle load.

The AMS100 features:

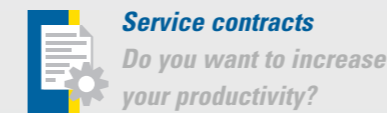
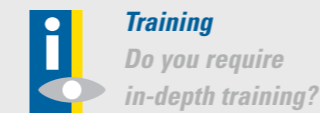
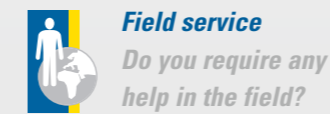
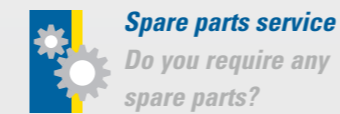
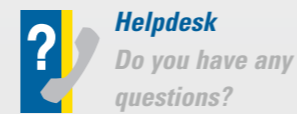
- Alignment of the rail ends in the center of the web.
- The elements of the separate lifting device takes the rail ends under the rail head and pushes them to the vertical crown stops. Only then the clamping starts with the rail ends in a defined position.
- Crown stops can be exchanged for adaptation to different rails.
- Clamping in the web by electrodes.
- Automatic deburring unit which deburrs directly after welding.
- Welding force up to 100 metric tons.
- Welding range for Vignol rails of up to approx 75 kg/m.

Schlatter Industries AG

Schlatter Industries AG is the leading machine manufacturer world-wide for individual solutions in the field of resistance welding. With innovative plants and exceptional services we earn the confidence of our customers every day. Since its founding in 1916 Schlatter has pioneered and extended its core competences welding techniques, mechatronics and system technique. Innovation, quality, service and high product safety are the four most important attributes for our up-to-date solutions. Thanks to the modular construction, our plants can be tailored and upgraded to meet individual requirements at any time. For our customers this means security over the complete range – right from the beginning.

Service for your benefit

The range of services offered by Schlatter is designated to increase your productivity and to increase the life time of your plant. Our multi-lingual helpdesk team answers your questions and assists you in eliminating malfunctions – by telephone or via Internet. Our field service specialists offer world-wide competent support in the field and take care of a variety of tasks. Furthermore, we have our own workshop for repair works and overhauls of your control units and mechanical components. An efficient spare parts service and versatile training courses complete our services. We shall be pleased to discuss with you your individual requirements and offer you a tailor-made service package.



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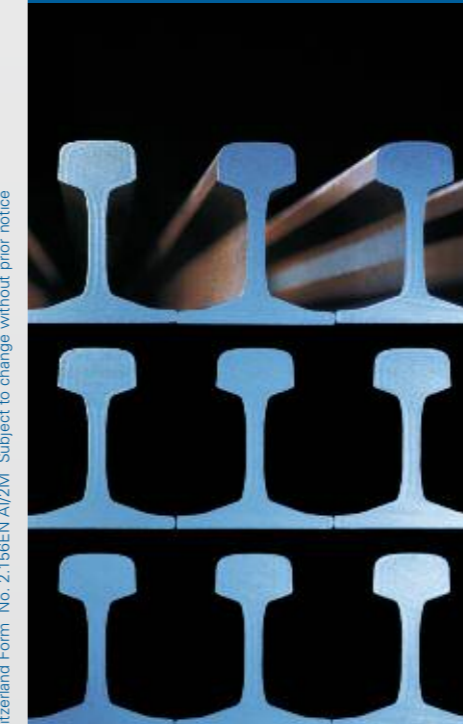
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Mobile Schlatter
Rail Welding Systems

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Mobile Schlatter Rail Welding Systems

Worldwide flash butt welding becomes increasingly popular for the production of continuous welded rails. The main reasons are the repeated high quality of the welds, high alignment accuracy laterally as well as vertically independent of the operator and furthermore this process is very economical because little time is required to carry out a weld.



A mobile Schlatter Rail Welding System in in-track operation

H.A. Schlatter AG offers two different mobile rail welding systems with two different rail welding machines:

Supra road flex

Truck based systems are highly flexible as they are self propelled and can move from one job site to the next easily and quickly without additional equipment. The truck can go in-track on any level crossing near the job site and shortly afterwards it is ready for welding.

Supra multi flex

Rail welding systems incorporated into containers are mounted onto waggons. They are highly recommendable for jobs in new railway lines where a lot of new rails have to be laid and many welds have to be carried out. Container systems are also often used semi-stationary either in the depot or close to the job site where they weld Long Welded Rails for a certain section of new railway lines.



Complete Supra multi flex system with AMS60, mounted onto a rail wagon. Rail welding in the depot.



Supra multi flex with AMS100 during in-track welding

Supra multi flex, Container Systems

Container systems are incorporated into two 20 feet containers. The container systems consist of:

Energy container, housing:

- Diesel engine
- Generator set
- Diesel tank with high capacity of up to 2000 liters.
- Energy management control.
- Connection cables to the welding container

Welding container, housing:

- Welding machine AMS60 or AMS100
- Control cabinet with Weld processor and Schlatter Weld Analyzer
- Swivelling lift for lifting and lowering of the welding machine.
- Hydraulic Unit
- Cooling Unit



Supra road flex with AMS60



Supra road flex with AMS100

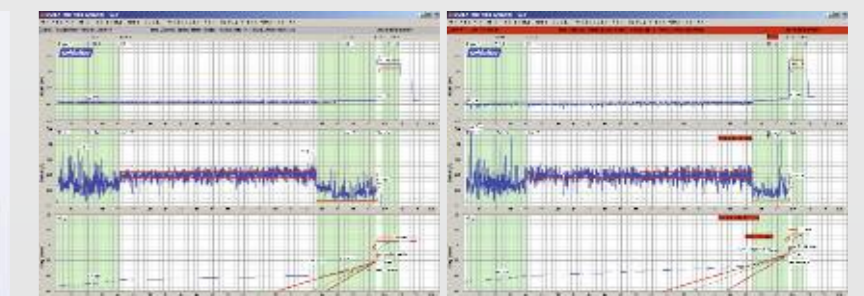
Supra road flex, Truck-based systems

Supra road flex Systems are self propelled systems which work and travel from job site to job site completely independently. For the AMS60 a 4-axle truck chassis is standard, for the AMS100 it is a 3-axle truck chassis.

Supra road flex systems comprise:

- Truck chassis with diesel engine which is used for travelling but also for actuating the generator set and the hydraulic unit.
- High rail system
- Generator set
- Diesel tank with capacity of up to 900 liters
- Energy management control
- Rail welding machine AMS60 or AMS100
- Control cabinet with Weld processor and Schlatter Weld Analyzer
- Swivelling lift for lifting and lowering of the welding machine.
- Hydraulic unit.
- Cooling Unit

Control system housing Function Control, Weld Processor and Schlatter Weld Analyzer for monitoring the weld parameters



The newest generation of Schlatter Weld Analyzer contributes to achieving constant high quality welds. It monitors and records the three main parameters force, current and travel as well as the time and shows them directly on the color screen during welding. Tolerance fields can be defined and as soon values are out of the tolerance there is a warning indication for the operator.