

Kuhlmeyer supplies an Edge- and Bevel Grinding Machine for welding seam preparation and bevels to a dutch Steel-Service-Center

The automation process makes the industrial welding of steel sheet from an increasingly important competitive advantage for the manufacturers. The prefabrication of welding bevels is important for automated welding and joining as well as the qualitative execution of the welding seam itself. Many of the well-known Steel-Centers and OEM customers, i.e. from the heavy engineering or shipbuilding, are using the robust and economical technology of grinding the chamfers and edges with a Kuhlmeyer bevel grinding machine since years successfully.

With the high-performance belt grinding technology the Kuhlmeyer machine can produce bevel angles of -45° up to $+88^\circ$. The product range consists of the classical stationary machines in the open frame design for part lengths of 16 m and more, and also special continuously running machines, which will work on steel profiles in a flow process (shipbuilding or bead profiles) on the front side, grind bevels on the top and bottom and clean up the prepainted or treated surfaces for a later bare metal welding area. The processing also on high-strength steel is not a problem. Removal rates up to 200 cc/min can be achieved economically with the standard ceramic grain abrasive belts. In this unit the belt feed speeds can be set up to 5m/min. The main advantage of the Kuhlmeyer technology is not only the high rate of production, but also the excellent quality of the bevels and edges that can be further processed directly without any serious heat influence and without any dross or scale layers. By using the burning or cutting devices some additional handling and processing steps have to be taken into account. The ratio potential of the Kuhlmeyer bevel grinding machines is supported by a corresponding transport and conveyor technology further on.

The reliable and flexible bevel grinding machines convincing with high performance and low running costs for consumables. Standard abrasive belts with high durability and availability supplement the equipment as well as the ability to work on multiple small pieces simultaneously, to grind pockets on the outer edges and using the Kuhlmeyer calculation tool for beveling as a simple programming aid.

Recently a long-standing established steel service center from the Netherlands has invested in a new Kuhlmeyer UKF.

Kuhlmeyer Maschinenbau GmbH supplies an Edge- and Beveling Grinding Machine UKF for Joop van Zanten Staalservice from Veenendaal/Netherlands.

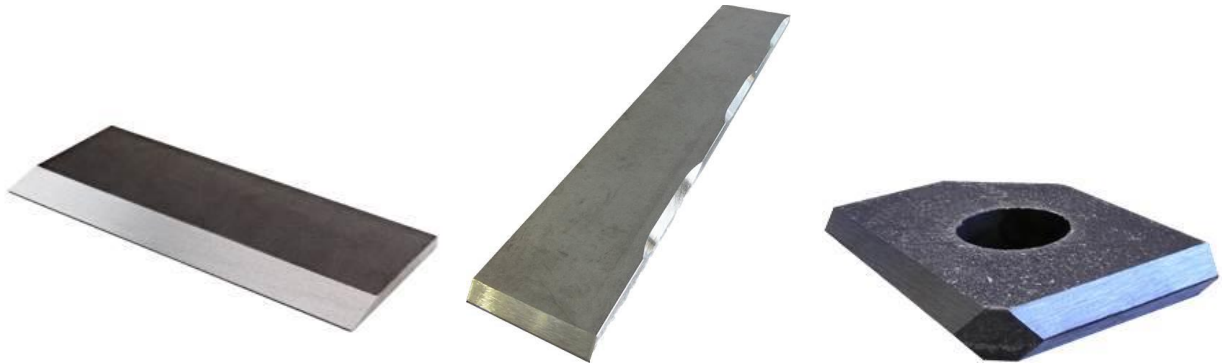
Joop van Zanten , a renowned Steel-Service-Center in the Netherlands, has invested in a Kuhlmeyer UKF with an operating range of 6 m table span. The open frame design of the machine allows also to work on parts, that are longer than 6 m.

Better Grinding with Experience

With the use of this machine a major bottleneck in the production and machining has been fixed. "The pre-processing of bevels for welding seam preparation is something that we often do for our customers," says Heico van der Meulen, Key Account Manager at Joop van Zanten Staalservice. "In the past the chamfers have been removed with the help of our oxyacetylene torch, but there was always some rework to remove the layers and the dross. With the use of a milling machine (Zayer KMU 12000) the bevels were even better and the customers were delighted, because the sheets were clean and could immediately be processed. Thus, the pressure grew on the capacity and utilization of our milling machine. Smaller welding bevels on large sheets had to be done with a hand cutter or the burner. But, however, we could not keep the desired specification and accuracy of bevels anymore. Right now, with the new Kuhlmeyer UKF we are able to realize the straight bevels with better quality and much shorter production and cycle time. Especially high strength material can be prepared much better and cheaper on the Kuhlmeyer bevel grinding machine, because no negative heat influence takes place in the material and the abrasive sanding belts working with less wear than the milling tools. The open frame design and the enclosed conveyor system of the Kuhlmeyer machine, allows us to handle and move larger components, which results in a high productivity and machine utilization. Thus van Zanten has made an important investment in the sustainable competitiveness of the company. "



Kuhlmeyer UKF 3.1-6000 at van Zanten / Veenendaal



Different workpieces with bevels and edge preparation

For further info please visit us at www.kuhlmeyer.de, on facebook or have a look on our YouTube channel.

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Company Background:

Kuhlmeyer Maschinenbau GmbH was established in 1973 and has its HQ in Bad Oeynhausen/Germany. We are a private owned company. On a production space of around 2500 m² we plan and build with 40 experienced employees our belt grinding machines for the metal and wood industry. The main focus is laying on the preparation of the surface on workpieces either manual up to fully automated machines and also the seam weld preparation on blanks with bevelling machines. Hereby we can work on parts up to 16 m length. Kuhlmeyer is supplying the engineering, design, build and installation/ setup on site incl. surrounded periphery installation, i.e. controls, extraction system, conveyor and handling equipment as well as Safety- and Noise-protection housing.

The After-Sales-Service incl. maintenance and spare parts will be managed from our Head Office. For the worldwide sales activities Kuhlmeyer is represented by more the 20 partners worldwide on 5 continents. The deep vertical manufacturing content by the own machine equipment for the total metal working and a unique Training center and Showroom with almost 6 machines in use will complete the companies profile for an experienced and competent partner in the industry.