

# **ULTRAREX UXD-P**

High Speed Cutting Machine



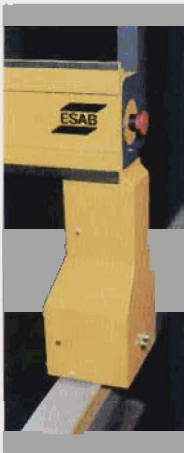
## FOR ALL REQUIREMENTS – ULTRAREX UXD-P

Some things are common to all ULTRAREX units, i. e. a solid track mounted on single or double pedestals, a guide rail with toothed rack, a transverse beam with high stiffness and rugged, precise co-ordinate drives which guarantee quiet running and optimum accuracy.

The machine carriage with multiple bearings, force-transfer drive via pinion and toothed rack, adjustable running and guiding rollers with ballbearings in conjunction with the drives enable all speeds up to 20.000 mm/min to be obtained. This ensures reliability using all cutting technologies and also for supplementary applications.

All ULTRAREX UXD-P cutting machines are designed for speeds up to 12.000 mm/min.

Differences arise in the number of longitudinal drives and achievable dynamic response of the machine. As standard the ULTRAREX is equipped with single-sided drive in the longitudinal direction and a drive in the transverse direction,



each driven by a pinion and toothed rack. With normal work, results are achieved within the DIN standards. For the demands of highest quality, for example with plasma cutting high working speeds and difficult contours – or if the maximum precision is demanded – a second longitudinal drive using friction techniques is recommended or even better, a pinion and toothed rack.

The ULTRAREX UXD-P machines are fitted as standard with a main track of 3.000 or 4.000 mm. Extension sections each of 2.000 mm can be added up to a maximum length of 20.000 mm.

The ULTRAREX is produced in standard sizes for processing plate widths 1.100, 1.500, 2.000 and 2.500 mm. Intermediate sizes are also possible.

In order to obtain efficient loading and unloading in all installation conditions, the track can be set up with equal heights on both sides or with one side lowered. The numerical control is then located on the high side. The cables and hoses can be routed along the floor or at table height. Profile rails or cable chains are used in the transverse direction, independent on process selected.

The numerical path control guarantees efficient process planning and a uniformly high cutting quality. Even with the NCE 290 many features are provided as standard. These include an LCD graphics monitor, manual data



*More comfort with numerical control Vision PC (option)*

entry, 65 fixed programs (which can be individually modified, repeated and chained), rotation and mirroring, kerf compensation, jogging from the contour and much more. Also, a selection of controls is possible. The larger the control, the more features it offers. But all have one thing in common – they have been specially developed for cutting and they are of the latest generation and belong to the same family.



**ULTRAREX UXD-P 2000**  
*with integral cutting table for Precision Plasmarc Cutting*

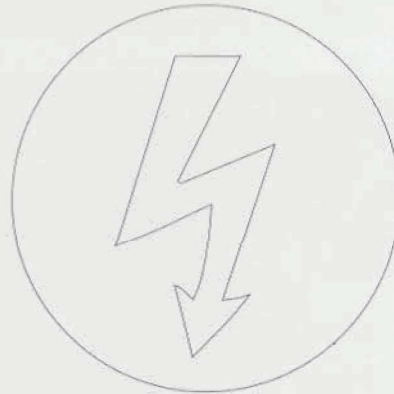
## PLASMA OR OXY-FUEL CUTTING – OR BOTH

Basically the ULTRAREX can be fitted with up to two cutting heads. There is the choice of one or two oxy-fuel torches, one oxy-fuel torch and one plasma torch or any combination using gas/plasma changeover system. The cutting heads can be clamped together with a clamping bar or by individual clamping to a transverse steel band system. The ULTRAREX UXD-P is fitted with central solenoid valves and has a gas distributor for two torches, a pressure reducer for low pressure (quick pre-heat) and an automatic hole

piercing valve for continuously variable switching of the cutting oxygen as well as a venting valve for extracting the remaining gas at the end of the cutting cycle. The single-torch unit has a position for external ignition. A selection of two torch units is available. Both can be fitted with motorized or capacitive height adjustment. The single-torch units can be selected for acetylene, propane or butane and can also be combined with an ignition flame device. A powder marking device can also be installed.



MX Plasma Torch Unit



The „Plate-Rider“, weight unit with castors which glides with the plasma torch over the plate, has proven itself in the cutting of thin plate. Torch height setting takes place using a pneumatic

setting device. Where a number of plasma torches are used, plasma matching can be carried out. The following can be selected: Initial height setting capacitive and cutter height control capacitive or via arc voltage (Cycle 3), and alternatively initial height setting inductive and cutter height control via arc voltage (Cycle 4). Collision protection which reliably guards the torch against damage and makes the change of the nozzle substantially easier is always to be recommended.





**ULTRAREX UXD-P with plasma equipment and NCE control**



**Dynamic plasma cutting process**

## CHANGING – PLASMA OR OXY-FUEL

The single-torch unit can be interchanged from oxy-fuel to plasma operation using changeover system. This gives more cutting flexibility. Depending on the material and cutting program, the appropriate cutting technology can be employed, for example, for cutting thick material with two oxy-fuel torches and then a quick application using fast plasma cutting. A changeover provides more versatility in the job processing. The changeover system is fitted with collision protection.

Cutting table designs on request.



**Combined plasma marking and cutting tool for optimized working process**



**Single-torch unit with a MultJet torch and internal ignition**

We reserve the right to make technical modifications and improvements without notification

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