

**E-XHEAD™**  
swiss made

PRECISION  
EXTRUSION  
TECHNOLOGY

E-XHEAD.COM

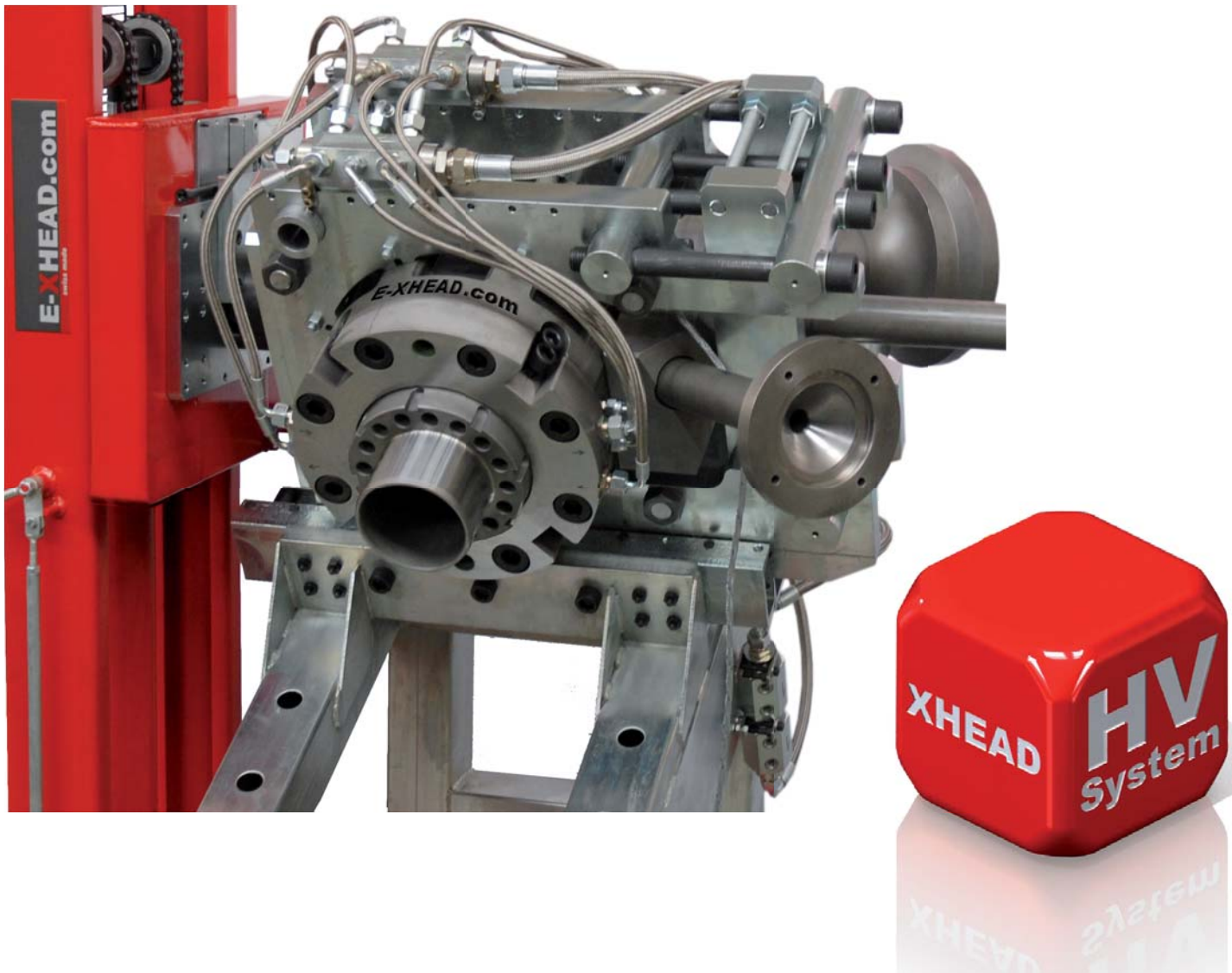
Technology to improve  
your extrusion line  
performance

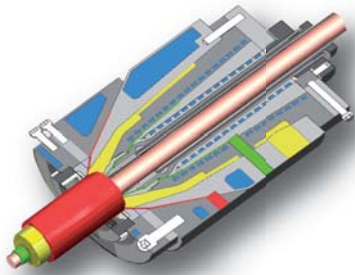
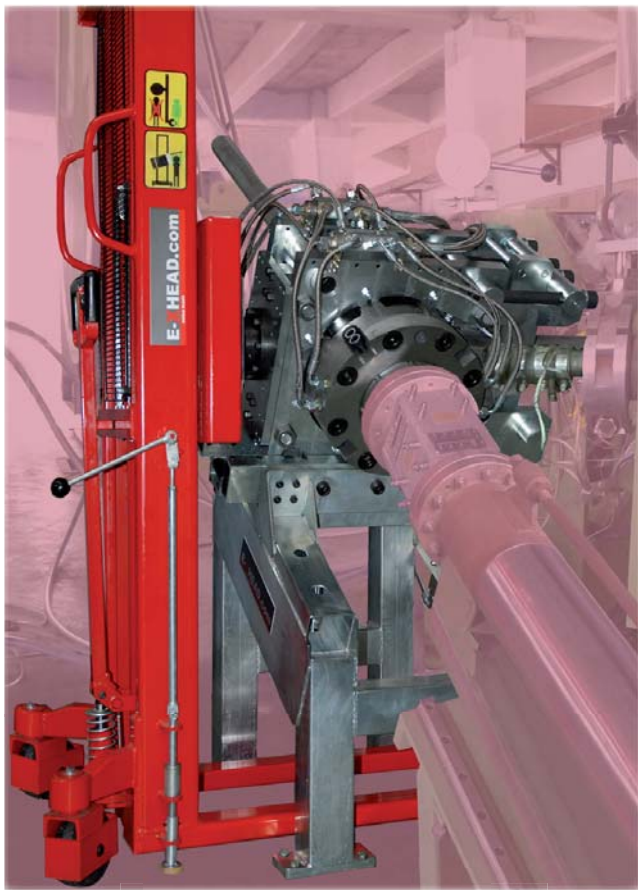
## CROSSHEAD MODEL HV

TRIPLE LAYERS CROSS HEAD

*FOR MEDIUM & HIGH VOLTAGE CABLES UP TO 500 KV  
NEW DISTRIBUTOR TECHNOLOGY FOR UNIFORM INSULATION  
HIGH PERFORMANCE TEMPERATURE CONTROL  
FINE ADJUSTING OF THE THREE LAYERS  
E-XHEAD R® SYSTEM RAPID HEAD CHANGING  
EASY MAINTENANCE*

E-XHEAD PRECISION EXTRUSION CROSSHEADS FOR ALL EXTRUDERS





THREE LAYERS WITH  
INDEPENDANT ADJUSTEMENT  
OF EACH LAYERS  
SEPARATELY

OIL / WATER  
THERMOREGULATION OF ALL  
DISTRIBUTOR FOR ACCURATE  
TEMPERATURE FOR LONG  
PERIOD OF OPERATIONS.

DISTRIBUTOR FLOW CHANNEL  
DESIGN FOR XLPE TO AVOID  
PREMATURE CURRING OR  
WELD LINE.

SPECIAL TROLLEY FOR EASY  
MAINTENANCE AND  
CLEANING OF ALL  
CROSSHEAD COMPONENTS.

E-XHEAD R® SYSTEM RAPID  
HEAD CHANGING.

VERY SHORT TIME TO CLEAN  
THE CROSSHEAD.

## E-XHEAD® Triple Crosshead Model HV

The Triple Crosshead HV is used for the simultaneous extrusion of the inner semiconductor layer, the insulation layer and the outer semiconductor layer.

E-XHEAD® HV produces single core cables in voltage from 6 kv to 500 kv. The HV is used in catenary lines (CCV), long-die systems (MDCV) and vertical lines (VCV), as well as in silane and silicone systems. Depending on scope of productions, it can be designed for XLPE or EPR compounds.

E-XHEAD® conical construction of the distributor flow paths. insure an absolute precision fit, as well as perfect sealing and easy assembly / disassembly.

Temperature control of the HV is via pressurised water or oil. The six separate temperature control zones rapid liquid circulation circuit which guarantees ideal flow characterisitcs for the compound, in addition to rapid heating to operating temperature and exact temperature separation of the three melt flow. In addition the heat generated form the CV tube is well insulated.

The Crosshead distributor flow channels is calculated with special software. This insure the same average flow rates and layer thicknesses to be achieved at the die outlet. The flow paths are optimally matched in shape and depth to the viscosities of the insulation and semiconductor materials.

The very low wall thickness tolerances for the insulation and semiconductor layers results for the customer. Especially for sector conductors, special guide are fitted in the head, this allow perfect layer thickness tolerances.

E-XHEAD® HV design enables tool changes within few minutes.

E-XHEAD® HV Triple Crosheads design of tools as well as flow channels will not allow the melt to get premature cross-linking within the head. This contributes to uninterrupted, maximum production time.

After initial centering, the design of the E-XHEAD® HV Triple Crosshead ensures that the outer and inner semiconductor will not need re-centering. Even if the dimensions of the cable have completely changed. The use of dial gauges allows absolute reproductibility of centerings reducing to minimum operating costs.

The HV Crosshead is made with hardened high quality alloy steel to prevent any damage during cleaning operations.

The layout of the extruders can be from one or both sides, depending on customer requirements and availibility of space for machines connections.

E-XHEAD® HV supply as well service station external to the line for cleaning the HV Crosshead. This can be also used to prepare a second Triple Crosshead.

HV

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