X-HEAD MODEL XV

TRIPLE LAYERS EXTRUSION

FOR MEDIUM & HIGHVOLTAGE POWER CABLES

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

It is used to produce single-core cables with voltages ranging from 6 kV to 500 kV and is suitable for catenary lines (CCV), long-die systems (MDCV), and vertical lines (VCV), as well as for silane and silicone processing systems. Depending on production requirements, it can be designed for XLPE or EPR compounds.

X-HEAD sarl | Switzerland | Tel +41 21 326 62 04 | info@xhead.ch | www.xhead.ch

Key Features and Advantages

Precision Conical Distributor Flow Paths: Ensure a perfect precision fit, excellent sealing, and easy assembly/disassembly. Flow channels are calculated using advanced software to guarantee uniform flow rates and consistent layer thickness at the die outlet. Flow path shape and depth are optimized for the viscosities of both insulation and semiconductor materials.

Advanced Temperature Control: Six independent temperature-control zones with a pressurized water or oil circuit provide rapid heating and precise temperature separation for the three melt flows. Efficient insulation prevents heat from the CV tube from affecting processing.

Outstanding Layer Quality: Achieves extremely low wall-thickness tolerances for insulation and semiconductor layers. Special internal guides allow perfect layer control, even for sector conductors.

Quick Tool Changes: The V design allows tool changes within minutes, minimizing downtime. Maximum Production Time: Flow channel design prevents premature cross-linking inside the head, ensuring uninterrupted, long production runs.

Stable Centering: After initial centering, the inner and outer semiconductor layers do not require re-centering, even when cable dimensions change. Dial gauges ensure reproducible centering and lower operating costs.

Robust Construction: Manufactured from hardened, high-quality alloy steel, resistant to damage during cleaning.

Flexible Integration
Extruder layout can be configured from one side or both sides, depending on customer space and connection requirements. A dedicated external service station is available for cleaning the V Crosshead or preparing a second Triple Crosshead for continuous production

Crosshead model XV

Specification	XV4
Minimum core Ø	10 mm
Maximum core Ø	35 mm
Maximum insulation Ø	70 mm
Maximum pressure	500 bar
Layer types	Triple layers for medium voltage

Application	
Materials	XLPE

Special characteristics	
Centering types	manual centring
Entry ports	

Options	
Extruder connections	connection flanges for any type of extruder
By-pass	manual, hydraulic
Distributors	Maintenance handling system for easy cleaning
Ultra Glide	Special surface treatment to reduce friction
Accessories	vacuum adaptator, service tool box
Head support	head stand, head trolley

Crosshead model XV

Specification	XV5
Minimum core Ø	10 mm
Maximum core Ø	70 mm
Maximum insulation Ø	140 mm
Maximum pressure	500 bar
Layer types	Triple layers for high voltage

Application	
Materials	XLPE

Special characteristics	
Centering types	manual centring

Options	
Extruder connections	connection flanges for any type of extruder
By-pass	manual, hydraulic
Distributors	Maintenance handling system for easy cleaning
Ultra Glide	Special surface treatment to reduce friction
Accessories	vacuum adaptator, service tool box
Head support	head stand, head trolley