



Wires and cables are the arteries of today's world, transporting the lifeblood - energy and communication. For the manufacturing of these arteries UNITEK supplies the most modern and advanced equipment to companies all over the globe. UNITEK rigorously pursues a strategy of highest quality and precision coupled with continued in-house research and in co-operation with leading international institutes. The performance of the resulting products places UNITEK customers on the cutting edge of cable-making technology.

- **Extrusion crossheads** for single, double or triple layer extrusion as well as crossheads for coating immediately after SZ-strander and crossheads for flat cables
- **Extrusion crossheads** for high performance fluoro extrusion made from UNALLOY™
- **Tooling** for all applications made of either steel, hard metal, diamond, ceramic or UNALLOY™
- **Automatic bypass units for crossheads**
- **Automatic colour changing systems**
- **Cleaning systems**
- **Co-extruder**
- **Consulting and Engineering**

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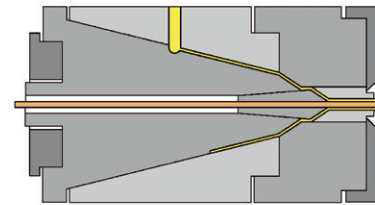
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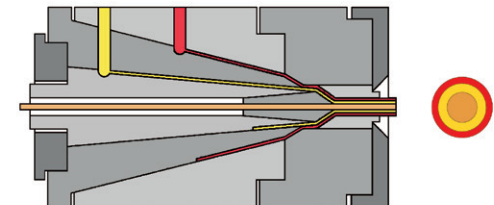
CROSSHEADS & PERIPHERAL EQUIPMENT

Standard Type Fixed Centre Crossheads

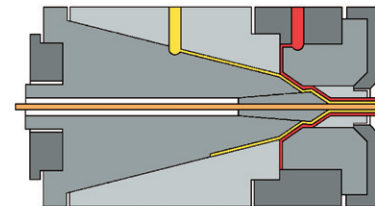
- Thermoplastic, electrically heated
- Elastomer and rubber, liquid thermoregulation
- Also available with micro adjustment or manual centering



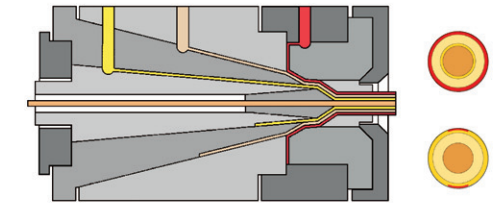
→ Single layer extrusion



→ Dual layer extrusion



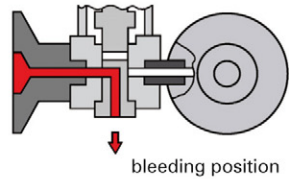
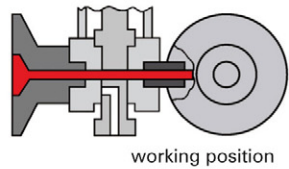
→ Co-extrusion of stripe or skin



→ Dual layer extrusion with stripe or skin
skin-foam-skin - PE and fluoropolymer

Crossheads Size		4	7	14	20	30	50	70	100	130
min. conductor Ø	mm	0.1	0.25	0.5	0.5	3	5	7	25	25
	inch	0.003	0.009	0.019	0.019	0.118	0.196	0.275	0.984	0.984
max. conductor Ø	mm	2,5	5	12	12	25	45	60	95	95
	inch	0.098	0.196	0.472	0.472	0.984	1.771	2.362	3.740	3.740
max. insulation Ø	mm	4	7	14	20	30	50	70	100	130
	inch	0.157	0.275	0.551	0.787	1.181	1.968	2.755	3.937	5.118

Bypass Systems UBP

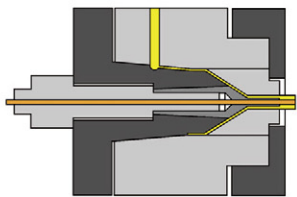


→ Hydraulic and manual

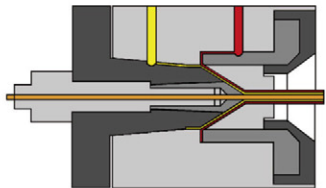


→ manual Bypass UBP-R-6

Crossheads for Fluoro-Polymers



→ Single layer extrusion

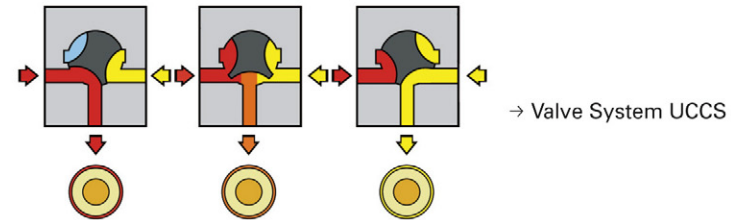


→ Co-extrusion



→ Single layer crosshead UXHSCC-F3/20

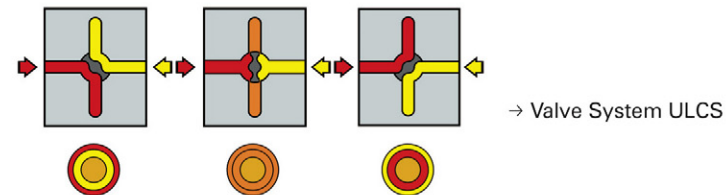
Color Changing Systems UFW



Changing Valve Systems

The patented UCCS valve is characterized by a number of features:

- change over between the two extruders is made by turning the piston
- one extruder is in working position the other one is in bleeding position (stand-by)
- in the extruder currently in bleeding position the colour is changed to the next one to be produced
- the piston has 1 working and 2 bleeding channels The material flows left/right (red) or right/left (yellow) into the head and never stands still inside the working channels
- during change over the material flow is not interrupted (see middle position)
- an axial movement of the piston brings both extruders in bleeding (bypass) position
- particularly suitable for thin wall products and short production runs



Changing Valve Systems

The ULCS valve is working according to the layer change principle with the following features:

- depending on the position of the valve, the mass from one extruder is diverted to the inside (non visible) whereas the other is diverted to the outside (desired colour)
- during switch over the material flow is not interrupted (see middle illustration)
- colour changes are made in the (non visible) layer
- no extreme short production runs (time required for colour changing in the inner layer determines minimum length)