



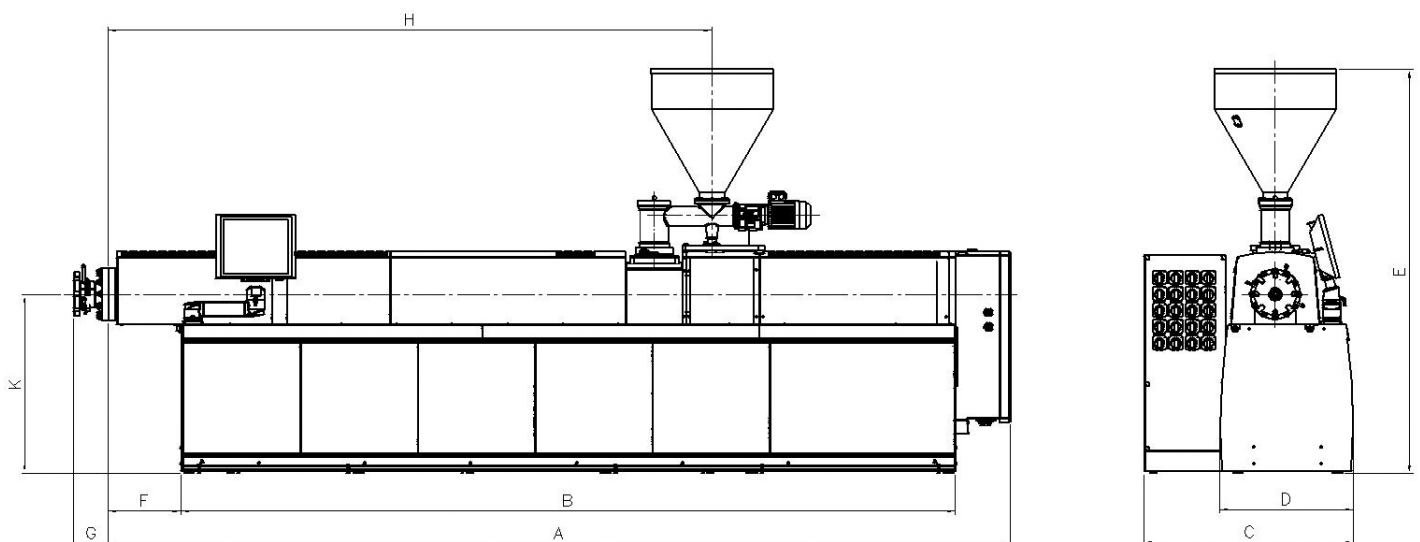
PERFECT COMPONENTS.
PERFECT SYSTEMS.

A MEMBER OF **HTI** GROUP

OMNIA XTR

Parallel Twin-Screw Extruders for PVC-Pipes

The OMNIA XTR series represents the newest technology in parallel twin-screw extrusion. The OMNIA XTR series meets increased customer demands on processing and flexibility for pipe extrusion. Highest melt quality is achieved with proven and reliable up to 36D long processing units for pipes. Due to an improved gearbox design high energy savings have been achieved.



[mm]	A	B	C	D	E	F	G	H	K
OMNIA XTR 74	4250	3710	1195	705	2463	311	154	2300	1100
OMNIA XTR 87	4850	4200	1240	760	2470	373	180	2920	1100
OMNIA XTR 100	5534	4750	1285	820	2477	448	211	3702	1100
OMNIA XTR 122	6314	5370	1330	885	2484	538	247	4693	1150
OMNIA XTR 137	7204	6080	1380	955	2491	645	290	5950	1200

Technical Data

			OMNIA XTR 74	OMNIA XTR 87	OMNIA XTR 100	OMNIA XTR 122	OMNIA XTR 137	OMNIA XTR 170
Output rate	Gelification capacity	kg/h	490	520	870	1320	1650	2600
	Output guarantee for rigid PVC pipe	kg/h	150-450	150-480	250-790	400-1200	600-1500	800-2300
Screws	Diameter	mm	74.5	86.7	99.8	122	136.8	169.7
	L/D ratio		36	36	36	36	36	36
	Screw speed max.	rpm	48	40.8	34.9	29	25.6	20.6
	Total torque	Nm	9080	10910	21900	40000	56200	110000
	Heating/cooling unit by oil, heating/cooling cap.	kW	9/15	9/15	9/15	13/20	13/20	13/20
Drive	Main drive (AC)	kW	49	50	85	129	161	253
	Drive speed max.	rpm	2200	2209	2142	2200	2221	1475
	Melt pressure (short time/max.)	bar	400/500	500/600	400/500	400/500	400/500	400/500
Gearbox	Application factor		1.35	1.61	1.35	1.35	1.35	1.35
Barrel	Installed heating capacity	kW	28	40	44	65	104	150
	No. of heating/cooling zones	[-/-]	5/3	5/3	5/3	5/3	5/3	5/3
	Vacuum pump	kW	1.5	1.5	1.5	3	3	3
Adapter	Heating zones (no./installed cap.)	kW	1/0.9	1/1.1	1/1.3	1/1.8	1/2.5	1/3.0
Tool zones	Max. tool zones 230V 1-phase (no./installed cap.)	kW	20/3.5	20/3.5	20/3.5	20/3.5	20/3.5	20/3.5
	Max. tool zones 400V 3-phase (no./installed cap.)	kW	20/10.5	20/10.5	20/10.5	20/10.5	20/10.5	20/10.5
Feeding	Starve feeder (AC)	kW	1.1 / -	1.1 / -	1.1 / -	1.1 / 3.0	1.1 / 3.0	1.1 / 3.0
General data	Total connection (stand./max. tooling zones), max.	kVA	83/200	83/200	158/305	208/370	290/481	440/631
	Water consumption (at 10° C water temperature)	m³/h	1	1.2	1.4	1.8	2.3	2.3
	Center Line	mm	1100	1100	1100	1150	1200	1200
	Weight (incl. control cabinet) approx.	kg	3600	3900	5200	10300	14900	18200

Standard

- Industry PC with Core 2 Duo, 1,2 GHz, 800 MHB FSB
- 3 MB SLC, 2 GByte DDR 1066 SDRAM, 4 GByte CF-card changeable
- 19" touch screen, colour display incl. up to 52 softkeys for extruder control
- Windows XP embedded operating system
- Profibus guarantees quick and safe data transfer
- Supervising and controlling of extruder main drive, feeder drive, haul-off and temperature control of heating zones
- Full recording of alarms
- Trend graphs register the relevant production parameters for periods of up to 4 weeks
- Saving, loading of formulas and process parameters
- Alarm messages are shown as clear text in pop-up windows
- Online help system
- Online shifting between languages
- Synchronization of up to 12 drives
- Automatic start-up control with timer
- Maintenance management
- Automatic selftune with each heating process, this guarantees best control result after changing of tooling
- Automatic adjustment of controller outputs in case of temperature sensor fail
- Easy programming of converters by pressing only 1 key
- Voltage loss protection UPS of control voltage by buffer battery at sudden voltage loss (up to 3 seconds)
- 12 tool zones 400 V, 3 ph

- Deep nitrided screws, molybdenum coating of screw flights
- Passive screw temperature control (water-filled screw)
- Barrel with 5 heating and 3 air-cooled zones, elliptical barrel design in metering zone
- Barrel heating with ceramic heater bands, Zone 1, 2
- Barrel covers
- Vacuum pump and vacuum canister with filter
- Adapter stainless steel incl. heating zone
- Melt temperature monitoring and data storage
- Melt pressure monitoring and data storage
- Starve feeder with maintenance-free AC-motor and full screw and hopper
- Air-water heatexchanger for cooling of control cabinet
- Colour: anthrazit RAL 7016 and white aluminium RAL 9006
- Voltage: 3 x 400V + 0, 50 Hz
- Electric CE-conform, MSV-conform

Options

- 12/20 tool zones 230V 1-phase
- 20 tool zones 400V 3-phase
- Heat current control for tool zones
- Heat current control for barrel heating zones
- Active screw temperature control by oil incl. oil blocks
- Barrel with 5 heating zones, 2 zones air-cooled and metering zone oil-cooled with speed controlled oil-pump, elliptical barrel design in metering zone

- Waterless insulation box for barrel intake zone
- Customized adapter design
- Euromap 27 connection
- Profibus connection for OMNIA downstream equipment
- Saw cutting programm
- Gravimetric feeding unit integrated in TEC-4s control
- Saw cut control integrated in TEC-4s control with/without measuring wheel
- Remote maintenance via LAN and/or Internet
- Acoustic alarm (horn)
- Air conditioning for control cabinet (electrical type)
- Machine subframe for customized extrusion center height
- Machine subframe on wheels with rails (+ 50 mm)
- Hopper level indicator
- Stainless steel hopper
- Hopper loader systems
- Additional 2 single dosing feeders for pigments and additives
- K-Tron twin-screw side dosing feeders
- Screws deep nitrided, without molybdenum-coating, without chromium
- Chromium-plated screw flanks in venting and metering zone
- Fully chromium-plated screw flanks in venting and metering zone
- Additional starve feeder (max. 3) with AC-motor, full screw and hopper
- Special voltage and electrical standards
- Customized colour