



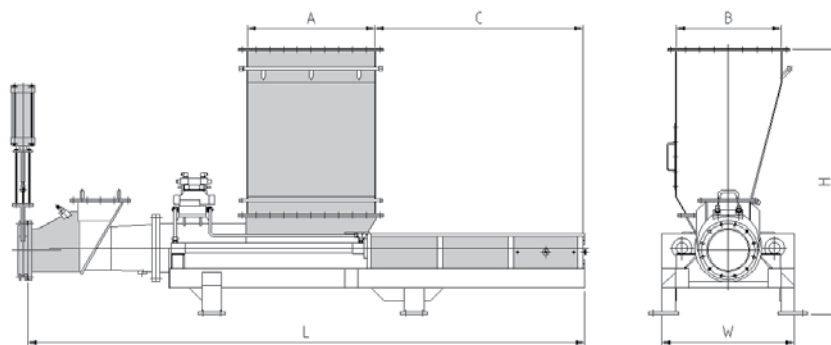
Raw Material Piston Pump

- Wide capacity range - up to 30 tons of precrushed raw material per hour.
- Adjustable capacity and operation pressure minimise operation costs.
- Pumping distance up to 100 metres horizontal and 15 to 20 metres vertical.
- Raw material from one pump can be pumped to various delivery points through diversion pipes and valves.
- Transfer piping can be routed along walls, under roofs, in channels, inside and outside buildings.
- Transfer piping can run between buildings, plant sections, crossing walls, yards and roads over or under ground.
- Piston Pumps have in many cases replaced a large number of screw conveyors.
- When feeding Batch Cookers, feeding and cooking/evaporation can start simultaneously.
- When feeding continuous cookers, no material locks are required.
- As raw materials are transported in fully closed pipings, contamination to or from the surroundings is not possible.
- Suitable particle size of raw material entering the HRP pumps is raw material discharged from a pre-breaker or similar machine.
- Scope of supply includes piston pump module complete with inlet hopper, heavy duty hydraulic power pack, and electric control panel.

Haarslev Industries

Haarslev Industries is one of the world's leading companies within handling and processing of by-products from food-related industries.

- The Piston Pumps are assembled from main components each made up from component parts available from stock.
- Inlet hopper is provided with inspection door and level probe to start and stop the flow of raw material to the pump.
- Electrical control panel is in a stainless steel enclosure containing PLC, relays and terminals. Front door is provided with push buttons and signal lights. Control system allows for optional remote or local start and stop and for the manual in and out operation of the main piston.
- Scope of supply includes a knife gate valve installed on the discharge flange to be used only to isolate piston pump module from pump piping. This knife gate valve does not participate in the pumping sequence.
- Transfer piping to be made from seamless steel pipe.
- From HRP-225 Pump: DN200/8" (219.1 x 6.3mm) From HRP-350 Pump: DN300/12" (323.9 x 7.1mm) Bends to be "soft/long radius bends" type 5S.
- Unique dual hydraulic ram design prevents cross leakage of either hydraulic oil or raw material.
- Hydraulic Power Pack includes 300 litre oil tank, gauges for temperature and pressure, return line filter, electrical alarms for clogged filter, level indicator for high oil temperature and low oil level. It has temperature controlled air/oil cooler with 0.25 kW fan.
- The pressure compensated hydraulic pump with adjustable flow regulation ensures that the amount of kW taken from the electric moter at any time is only what the hydraulic pump needs to move the raw material going to the piston pump.



Pump	Capacity kg/h	Inlet Ax B mm	C mm	H mm	L mm	W mm	Hydraulic Power Pack Dimension L x W x H mm
HRP225	12,000	750x670	1405	1750	3450	800	1550x800x1400
HRP350	30,000	962x790	1582	4202	4202	1000	1600x800x1700

We reserve the right to alter the specifications at any time without prior notice.



Haarslev Industries A/S • Bogensevej 85
 DK-5471 Sønderso • Denmark
 Telephone: +45 63 83 11 00
 E-mail: info@haarslev.com
www.haarslev.com

