

KRIMA SCREW PRESS TYPE RR



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The Krima type RR screw press is a highly developed unit. This press has both a pneumatically controllable back-pressure cone and a tapered screw core. The pneumatic system provides easy means for controlling the back-pressure to achieve the required solids content.

The Krima type RR screw press is particularly well-suited for dewatering recycled paper and virgin pulp. The press gives an outlet pulp consistency of up to 35%. The inlet consistency should be at least 4%.

OPERATION

The pulp enters the press at a consistency of at least 4%, and is constricted radially by the tapering screw body and axially by the decreasing flight pitch and the pneumatically adjustable back-pressure cone at the outlet. This results in

an outlet consistency of up to 35%.

The solids content in the outlet is controlled by the back-pressure cone and is not affected by flow rate variations of up to 25% of maximum capacity.

If the capacity variations are wider, a variable speed drive may be recommended.

The water is discharged in the usual way through the perforated screen drum.

NON-BLOCKING OUTLET

The non-blocking outlet is based on the operation of two units - a pneumatically adjustable back-pressure cone which, in turn, is secured to a flexible rubber ring. Using the pneumatic system, the air pressure supplied to the back-pressure cone can easily be controlled to provide the required solids content at the outlet. The benefit of the rubber ring is that it can be compressed where the pressure is a maximum, i.e. at the end of the

flight, where more pulp is forced out. The flexible back-pressure cone thus inscribes a circular wave movement which follows the rotation of the screw.

In practice, this ensures a uniform solids content at the outlet, without the risk of blocking.

TECHNICAL DESCRIPTION

The press is mounted on a very sturdy base frame of rectangular tubular sections. The press outlet is provided with two inspection covers. Several covers are provided on each side for cleaning the screen cylinder.

The screen basket, which is 8 or 12 mm thick, is always made of acid-proof steel to AISI 316 (SIS 2343) and has stepped holes drilled in it. The hole area is 25%. The basket is horizontally split to facilitate replacement of the screen basket and press screw. The screen basket is bolted to the end walls of the press.

The screw body is tapered, and the flight pitch gradually narrows towards the outlet. The

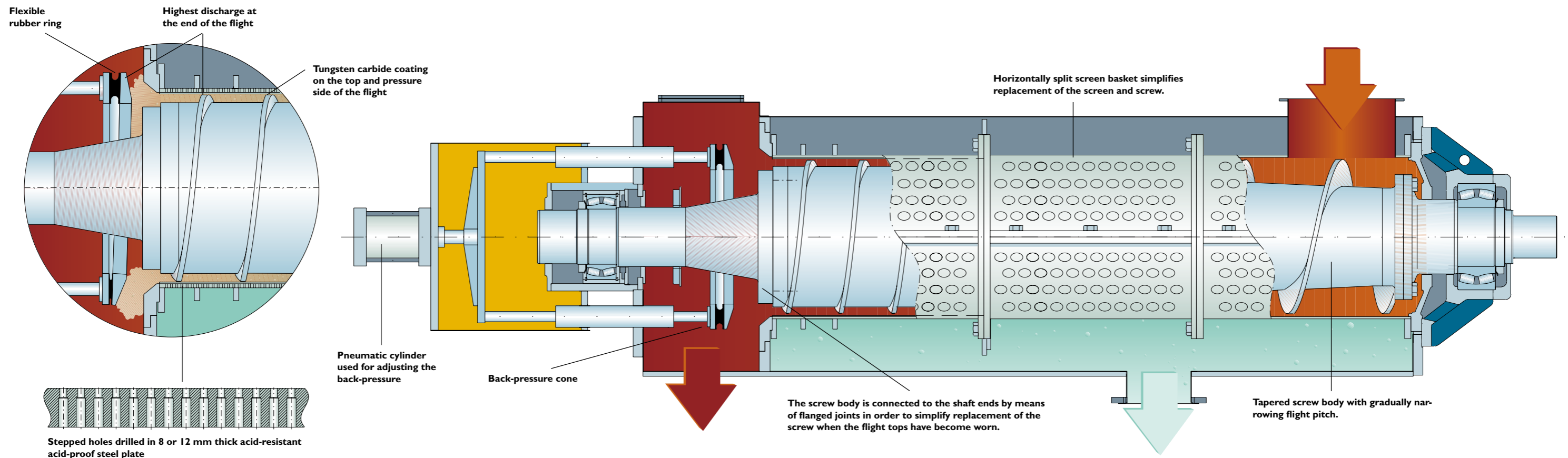
screw body is connected to the shaft ends by means of flanged joints.

The pressure side of the flights is coated with tungsten carbide for maximum useful life. The screw is always made of acid-proof steel to AISI 316 (SIS 2343). The shafts are mounted in self-aligning roller bearings.

A pneumatically adjustable back-pressure cone is provided at the screw outlet for adjusting the solids content at the outlet. The supply pressure is 4 - 6 bar. The back-pressure cone is also flexible in order to counteract blockage tendencies and provide a uniform solids content at the outlet.

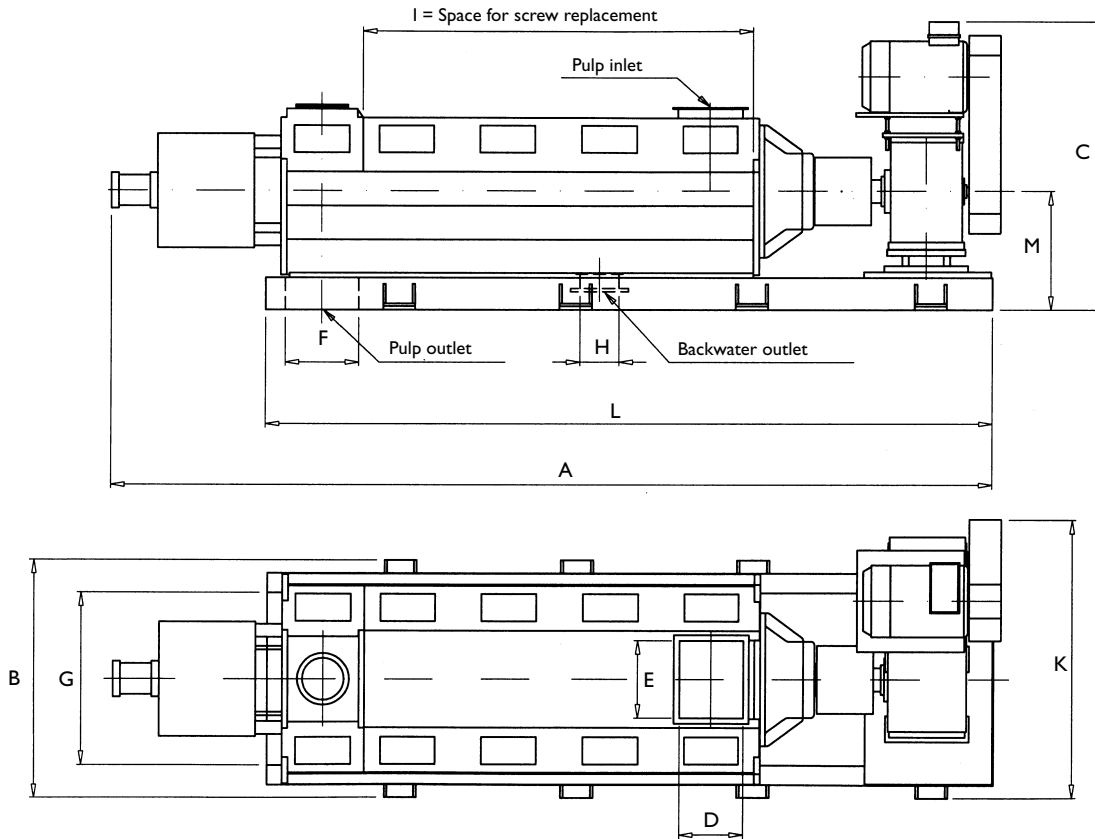
All parts in contact with the pulp are made of acid-resistant stainless steel. Other parts are painted with an epoxy paint system.

The delivery normally includes drive components such as reduction gear unit, coupling, belt drive and belt guard, but the motor is not normally included. A variable speed drive is recommended for best possible performance.



TECHNICAL DATA

All dimensions in mm



TYPE	A	B	C	D	E	F	G	H	I	K	L	M	KG
RR 300	4075	1320	1205	410	250	390	840	∅ 200	1550	1120	3410	480	3700
RR 400	4630	1340	1650	450	350	380	790	∅ 250	1600	1350	3900	610	4900
RR 550	5520	1630	1750	350	500	540	1065	∅ 300	2050	1630	4380	710	6000
RR 550 L	6080	1630	1790	350	500	540	1065	∅ 300	2800	1685	4985	810	9400
RR 750	6795	1830	2240	500	600	500	1275	∅ 300	3020	2145	5600	920	11500
RR 750 L	7795	1830	2260	500	600	500	1275	∅ 300	4000	2165	6600	1000	12500

CAPACITIES

Since the Krima type RR screw press is used for different material types, the dewatering area, i.e. the size, must be determined on a case to case basis, taking into account the inlet and outlet consistency, freeness, pulp type, pH and temperature.

The following figures can be used as guidelines: 4% in and 35% out at 30° SR

Size

RR 300	- 30 TPD
RR 400	30 - 60 TPD
RR 550	60 - 150 TPD
RR 550 L	100 - 200 TPD
RR 750	200 - 300 TPD
RR 750 L	200 - 350 TPD



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