

KWP wash press

for washing out organic soluble material
from coarse or fine screening

KUHN KWP wash press

Our wash presses are used as optimal supplements in disposal processes, where separated recyclings need to be transported away, washed, compressed and dewatered. Our machines have proven their worth over many years, especially in municipal and industrial sewage treatment applications.

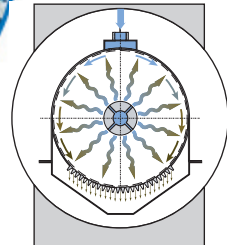
Principles of operation

The screenings to be treated are delivered to the feed area of the wash press either by direct discharge from a rake or transport from a spiral conveyor or via launder.

The conveyor spiral part of the screw dispels the screenings from the feed area to the washing zone. In the washing zone, the screenings are milled due to the special helical form, whereby organic solid matter is made soluble.

The KUHN KWP wash press is designed for the forward and reverse motion of the screw. Wash water is injected centrally into the screenings through the hollow screw shaft and this subsequently absorbs and removes soluble organic material from the screenings. Additional flushing from above helps to remove dirty material from the wedgewire bottom.

Section through the washing zone.



The washed screenings are then dewatered and compressed in the compaction zone. The massive construction of the screw and press frame makes very high compression of the screenings possible. Once the treatment of the screenings is complete, they are fed directly to a container through a discharge pipe flange-mounted on the press.

We recommend using filtered industrial water as wash water. Wash water consumption depends on individual settings and the desired wash result. A bagging mechanism may be optionally attached to the discharge pipe for hygiene purposes as well as for keeping in odours.

Design (Technical features)

KUHN KWP wash presses consist mainly of a feed hopper, combined conveyor, washing and press screw, press frame with washing zone and compaction zone, bearing housing, geared motor, press water tray and wash water distribution.

KUHN KWP wash presses are designed as welded and fully galvanised stainless steel constructions treated in a pickling bath.

In the bearing housing, located between the geared motor and press frame, a steady bearing and counterbalance bearing can be found. A special gasket closes the bearing housing on the spiral side.

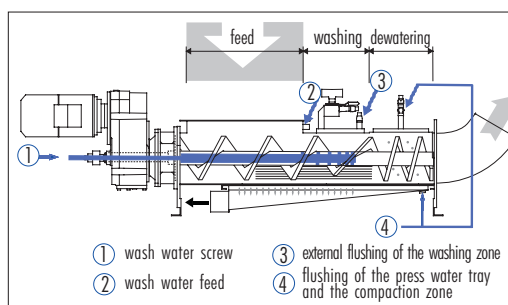
An especially wear-resistant wedgewire is welded on to the bottom of the press frame to ensure safe and clog-free discharge of the pressure water.

The conveyor, washing and press screw consists of a stable hollow shaft with a welded-on screw. The screw is made out of solid profile steel fabricated in one piece.

The press screw is additionally chrome-plated with a strong alloy in those places where the operational demands on the material are at their highest.

The superior design of our KUHN KWP wash presses ensures an optimal operation, both in an ecological and economical sense, and guarantees a long-term return on your investment, owing in part to the following advantages:

- Multi-functional: transports, washes, dewateres and compresses
- Degree of washout: up to 95%
- Dewatering: up to 50% dry solids content (depending on the material to be dewatered)
- Reduction of disposal costs
- Small dimensions owing to its compact design
- Long service life due to the use of high-quality materials
- Increased dewatering area due to the wedgewire (therefore especially suitable for launder loading)
- Protection against wear on the conveyor screw

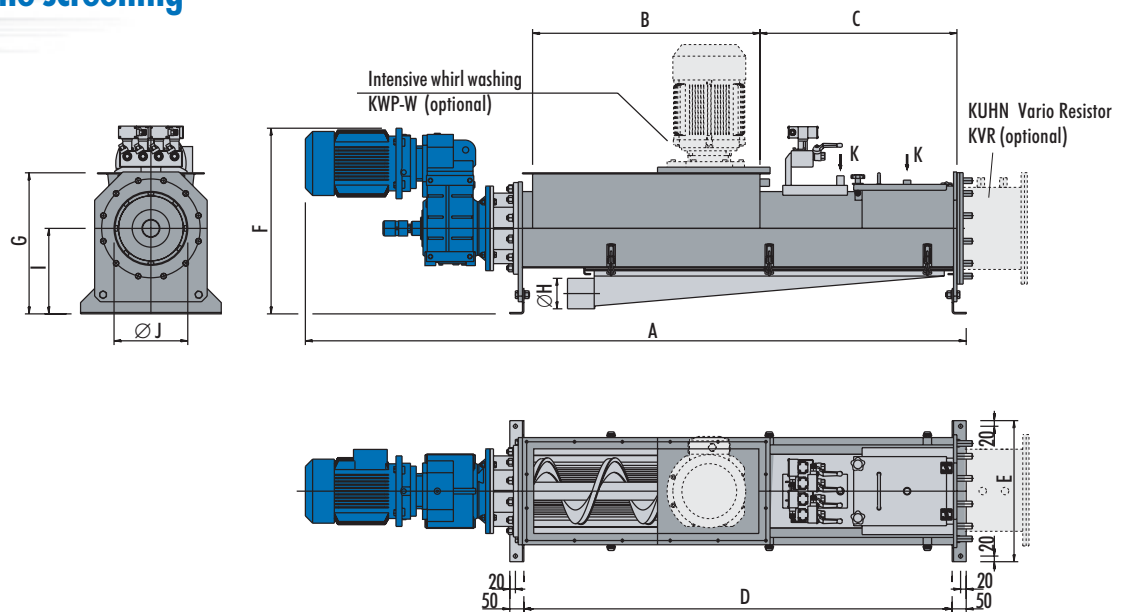


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All dimensions in mm.
We reserve the right to make technical alterations.

Type	A	B	C	D	E	F	G	Ø H	I	Ø J	K	P _n [kW]
150/600	2035 (1960)	600 x 200	634	1252	400	574	370	76,1 (DN65)	220	168,3 (DN150)	R 1/2 "	2.0 (2.2)
150/800	2235 (2160)	800 x 200		1452								
150/1000	2435 (2360)	1000 x 200		1652								
150/1200	2635 (2560)	1200 x 200		1852								
250/600	2175 (2075)	600 x 300	704	1322	500	657	500	303	273 (DN250)	R 1/2 "	3.6 (4.0)	
250/800	2375 (2275)	800 x 300		1522								
250/1000	2575 (2475)	1000 x 300		1722								
250/1200	2775 (2675)	1200 x 300		1922								
250/1600	3175 (3075)	1600 x 300		2322								
250/2000	3575 (3475)	2000 x 300		2722								
300/600	2370 (2350)	600 x 320	837	1463	530	749	560	108 (DN100)	340	323,9 (DN300)	R 3/4 "	5.0 (5.5)
300/800	2570 (2550)	800 x 320		1663								
300/1000	2770 (2750)	1000 x 320		1863								
300/1200	2970 (2950)	1200 x 320		2063								
300/1600	3370 (3350)	1600 x 320		2463								
400/600	2815 (2685)	600 x 402	1037	1696	660	882	650	380	406,4 (DN400)	R 3/4 "	6.8 (7.5)	
400/800	3015 (2885)	800 x 402		1896								
400/1000	3215 (3085)	1000 x 402		2096								
400/1200	3415 (3285)	1200 x 402		2296								

Values in () for motor without explosion protection

Max. throughput rate, raw screenings

KWP 150	ca. 1.4 m ³ /h
KWP 250	ca. 2.8 m ³ /h
KWP 300	ca. 4.5 m ³ /h
KWP 400	ca. 8.0 m ³ /h

Drive

Index of protection	IP55 (explosion protection possible)
Motor	parallel shaft gear motor (bevel gear motor optional)

Wash water

Min. pressure	2.5 bar
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Quality

min. filtered industrial water (filter fineness ≤ 150 μm)

Materials

Press frame	AlSI 304 stainless steel
Press screw	special
Motor/armatures	commercially materials
Other materials on request.	