

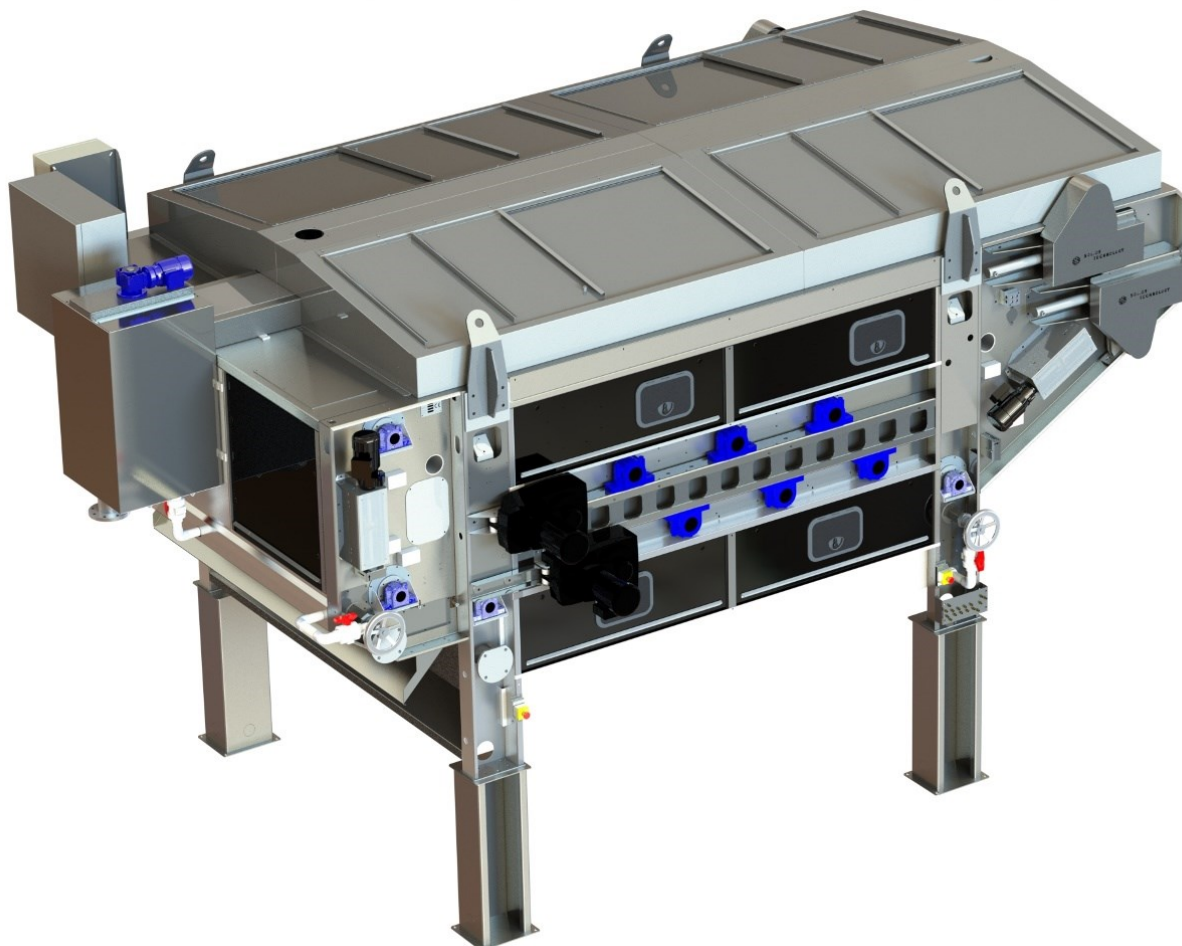
# FILTER BELT PRESSES

TECHNICAL SPEC:

500 SERIES

The **Unison** range of Filter Belt Press is suitable for dewatering municipal wastewater sludge and all different types of industrial sludge. It has been used in various settings including alcohol and grape industry, pulp and paper industry, food and dairy industry, potato and sugar industry and also the oil and pharmaceutical industries.

Unison is a brand of Solids Technology Ltd. and is a full subsidiary of Kent Stainless (Wexford) Ltd.



Duplex Stainless Steel construction which has a 20-40% higher tensile strength than 304 or 316 stainless steel.

Duplex Stainless also has corrosion resistance on a par with grade 316 stainless steel and is perfect for the harsh environment encountered in wastewater applications, as well as being ideal for outdoor use.

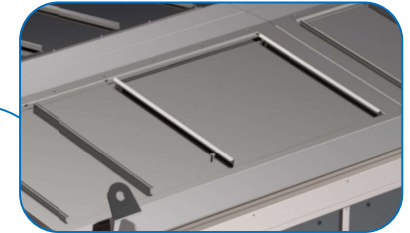




Made fully from grade 304L and Duplex LDX2101 stainless steel in a dedicated stainless steel factory ensuring extra long life.

Machines are **totally enclosed** and suitable for connection to an odour extraction system.

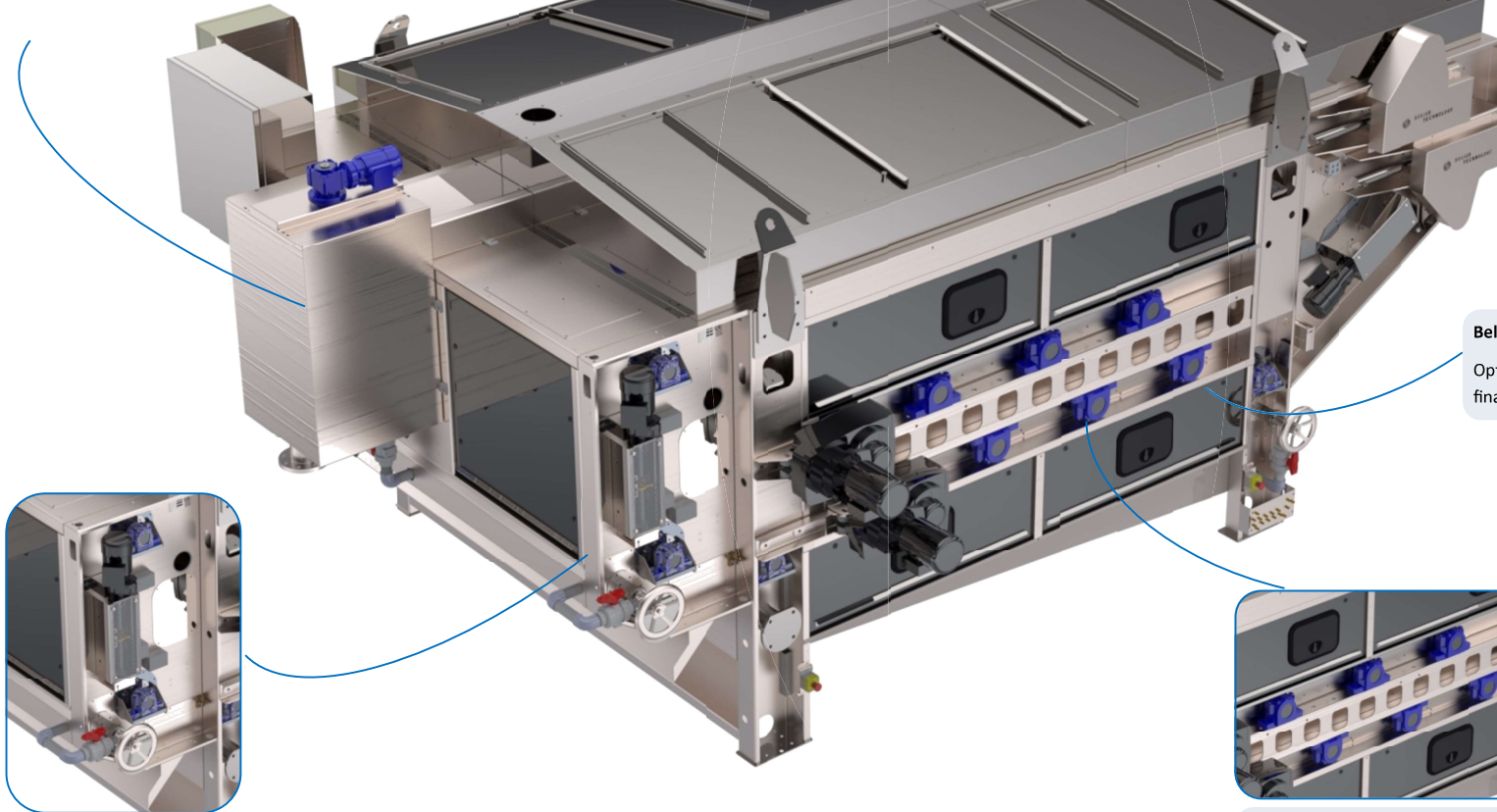
Easy access via top sliding doors for process monitoring and maintenance



Optional **Hydraulic Tension System** to allow for constant tension on the filter belts irrespective of sludge loading

**Belt Wash System**

Options to use either potable or final effluent water

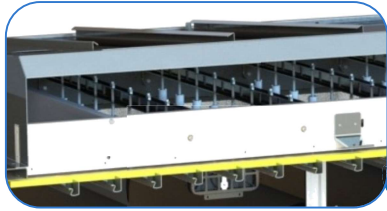


**Belt Alignment** is controlled by means of slewing guide rollers and electrical linear actuators



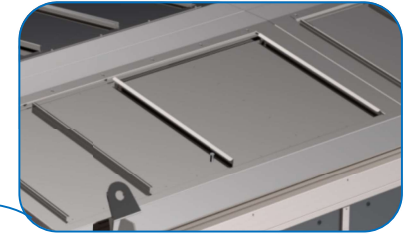
All moving parts are located outside the wetted area allowing for easier maintenance.





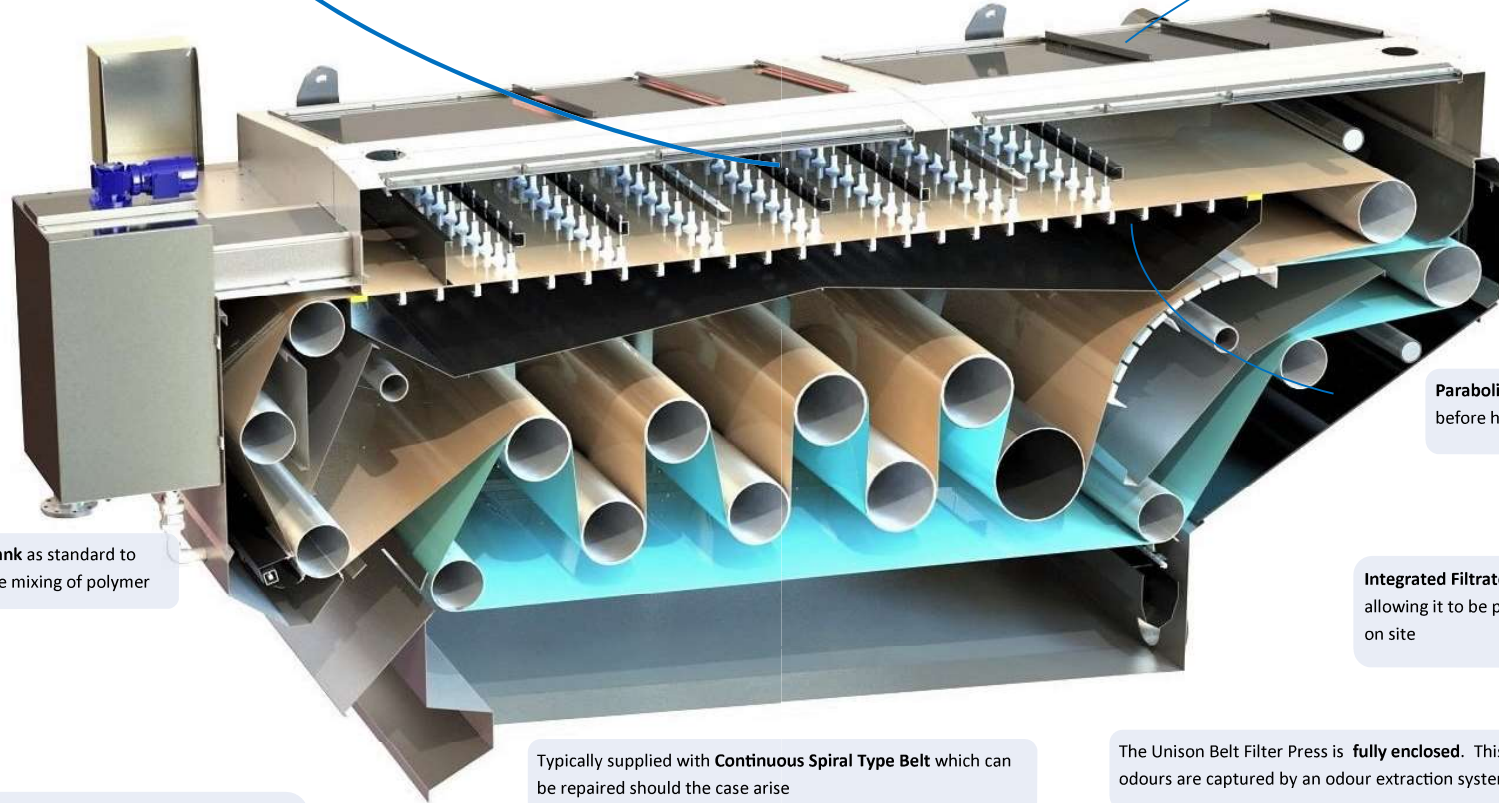
**Gravity Dewatering Zone**

- **Sludge distributor** ensures the conditioned sludge is uniformly distributed over the full belt width.
- **Sludge ploughs** furrow the sludge.
- UHMWPE sections under belt **prevent sagging**
- **Ploughs rotate** when debris are encountered



**Sliding Top Panels** allow access for inspection and maintenance when required.

**Odour Extraction** connections on top canopy to Integrate with an odour control system



**Parabolic Wedge** is low pressure dewatering zone before high pressured dewatering zone.

**Integrated Flocc Tank** as standard to allow for adequate mixing of polymer

**Integrated Filtrate Sump** collects all filtrate produced allowing it to be piped directly to appropriate location on site

Typically supplied with **Continuous Spiral Type Belt** which can be repaired should the case arise

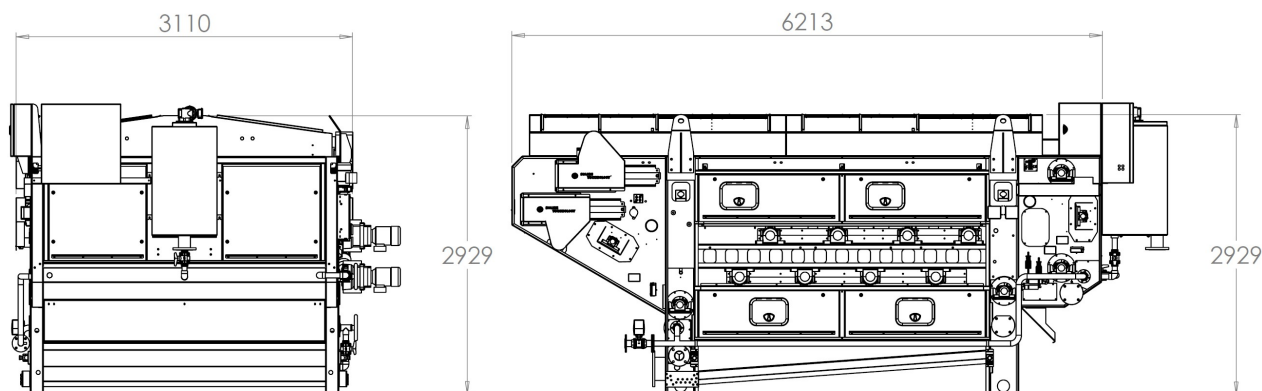
The Unison Belt Filter Press is **fully enclosed**. This ensures all odours are captured by an odour extraction system.

All moving parts are located outside the wetted area allowing for easier maintenance. Filter belt presses are built from durable grade 304 stainless steel ensuring long life in excess of 20 years.

# FILTER BELT PRESSES

TECHNICAL SPEC:

500 SERIES



Model	P510	P515	<b>P520</b> (shown)	P525
Belt width (mm)	1000	1500	<b>2000</b>	2500
Sludge capacity m <sup>3</sup> /h	5-15	7-25	<b>10-55</b>	10-65
Sludge capacity kg D.S./hr.	50-500	100-750	<b>100-1000</b>	100-1250
Total Filtration Area m <sup>2</sup>	13,4	20,1	<b>26,8</b>	33,5
Length	6213	6213	<b>6213</b>	6213
Width	2110	2610	<b>3110</b>	3610
Height	2929	2929	<b>2929</b>	2929

Typical dimensions above show the footprint of the **P520 machine**—with '20' indications a 2m wide belt. Belt widths vary from 1m to 2.5m and the machine widths change correspondingly.

Filtrate Sump & Instrumentation on Belt Press Included

Optional:

- Wash Water Booster Pump
- Wash Water Actuated Valve
- Polymer Injection Mixing Valve
- Sludge Cake Discharge System
- Local Control Panels

Solids Technology is a full subsidiary of  
Kent Stainless (Wexford) Ltd.  
Ardcavan, Wexford

Phone: +353 (0)53 914 3216  
UK Freephone: 0800 376 8377  
[www.kentstainless.com](http://www.kentstainless.com)

