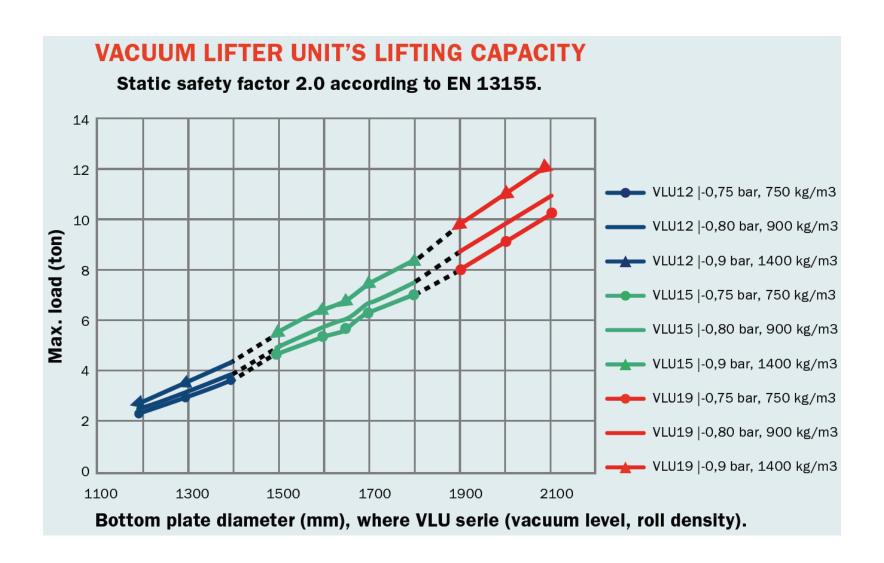


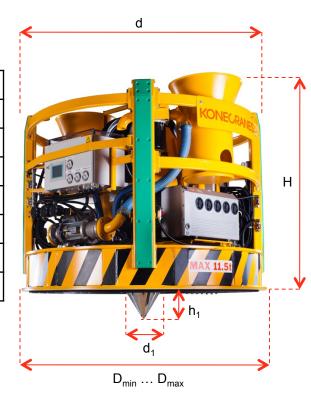
LIFTING CAPACITY



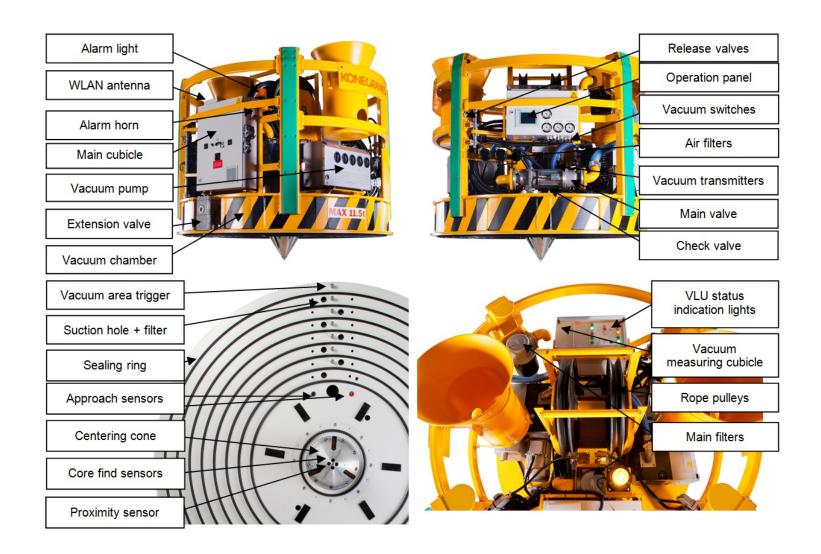
DIMENSIONS

- Three series, each with different bottom plate sizes
- Reeving with rope pulleys

Dimension	VLU12	VLU15	VLU19
Frame d [mm]	1200	1500	1900
Bottom plate D _{min} [mm]	1200	1500	1900
Bottom plate D _{max} [mm]	1500	1800	2100
Height H [mm]	2300	1400	1400
Cone height h ₁ [mm]	240	240	240/515
Cone diameter d ₁ [mm]	165	165	305
Total weight [kg]	1700	1800	2700



MAIN COMPONENTS



SERVICE STAND





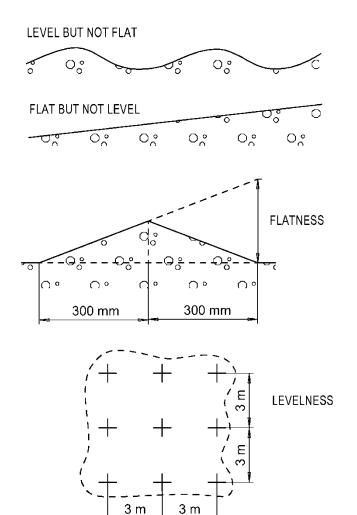
Delivered on the service stand.

Easy access from every direction.

SAFETY

- Independent unit with two vacuum pumps
 - One pump for normal use
 - Second pump operates as backup and for extra suction capacity
- Mechanical valve control for extension suction areas
- Flexible vacuum limit calculation individually for each roll to maximize safe lifting
- Continuous vacuum level monitoring with two-pump control function to maintain required vacuum levels
- Collision avoidance sensors at the bottom of the VLU
- Backup in case of power failure
 - UPS or diesel generator with doubled power supply cables
 - Vacuum chamber
- Hardwired safety features to maintain uninterrupted vacuum pump operation

FLOOR STRAIGHTNESS TOLERANCES

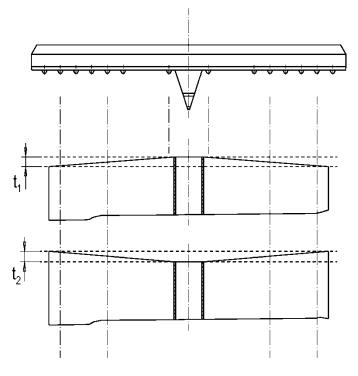


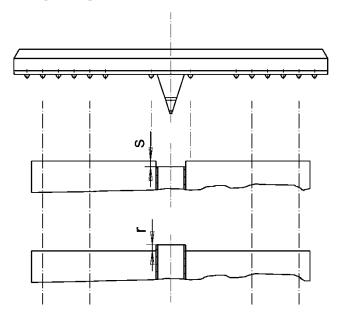
Floor requirements for very flat surface					
Flatness (in 300 mm)		Levelness (in 3 m)			
95 %	100 %	95 %	100 %		
2.5 mm	4 mm	4.5 mm	7 mm		

- Under 5% of the total number of measurements are allowed to exceed the 95% property limit
- None of the measurements are allowed to exceed the 100% property limit
- None of the measurement points on the levelness survey grid are allowed to be outside ±15 mm of datum

See DIN18202, ACI 117, ASTM E1155M and Conrete Society report TR34

PAPER ROLL END TOLERANCES





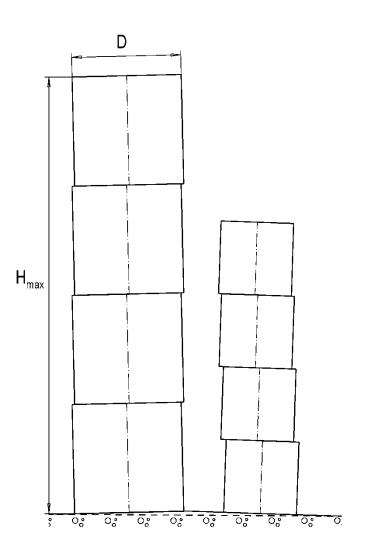
Dishing (convex or concave)

Roll diameter (units in mm)	<-1250	1500	1800 ->
Convex t ₁	2.5	3	4
Concave t ₂	3	4	5

Core inside roll: s < 5 mm

Core out from roll: r < 2 mm

PAPER ROLL TOWER HEIGHT



Maximum roll tower height

• $H_{max} = D \times 10$ where D is the roll diameter



INTELLIGENT FUNCTIONS

- Vacuum trend tracking at gripping and during the roll movement for maximized safety
- Jumbo roll handling function for handling very large rolls
- Small roll fast gripping function for lifting very small, light rolls
- Two roll gripped detection automatic release sequence
- User selectable gripping function with one or two vacuum pumps (air flowing through the roll)
- Wireless data transmission to crane
- Automatic crane re-positioning if the VLU is not positioned correctly
- Minimized maintenance needs to maximize production



OTHER FEATURES

- Hinged electric boxes enable easy access to other components
- Vacuum pumps fastened on sledge for easier maintenance
- Plug-fitted vacuum pumps and main valve
- Protected vacuum tubing
- Telescopic centering cone



