

Coiled Tubing Tower

Profile

The Coiled Tubing Tower is designed for inserting a tube, rolled up on the ground as a coil, which is guided by the injector or by tools fitted at the front end of the tube into the bore hole. The tower consists of the base frame, onto which various intermediate segments are fitted in order to achieve variable heights, and the lift frame for holding the injector. The intermediate segments fitted on top of the base frame can be laterally displaced for changing the tools.

Components

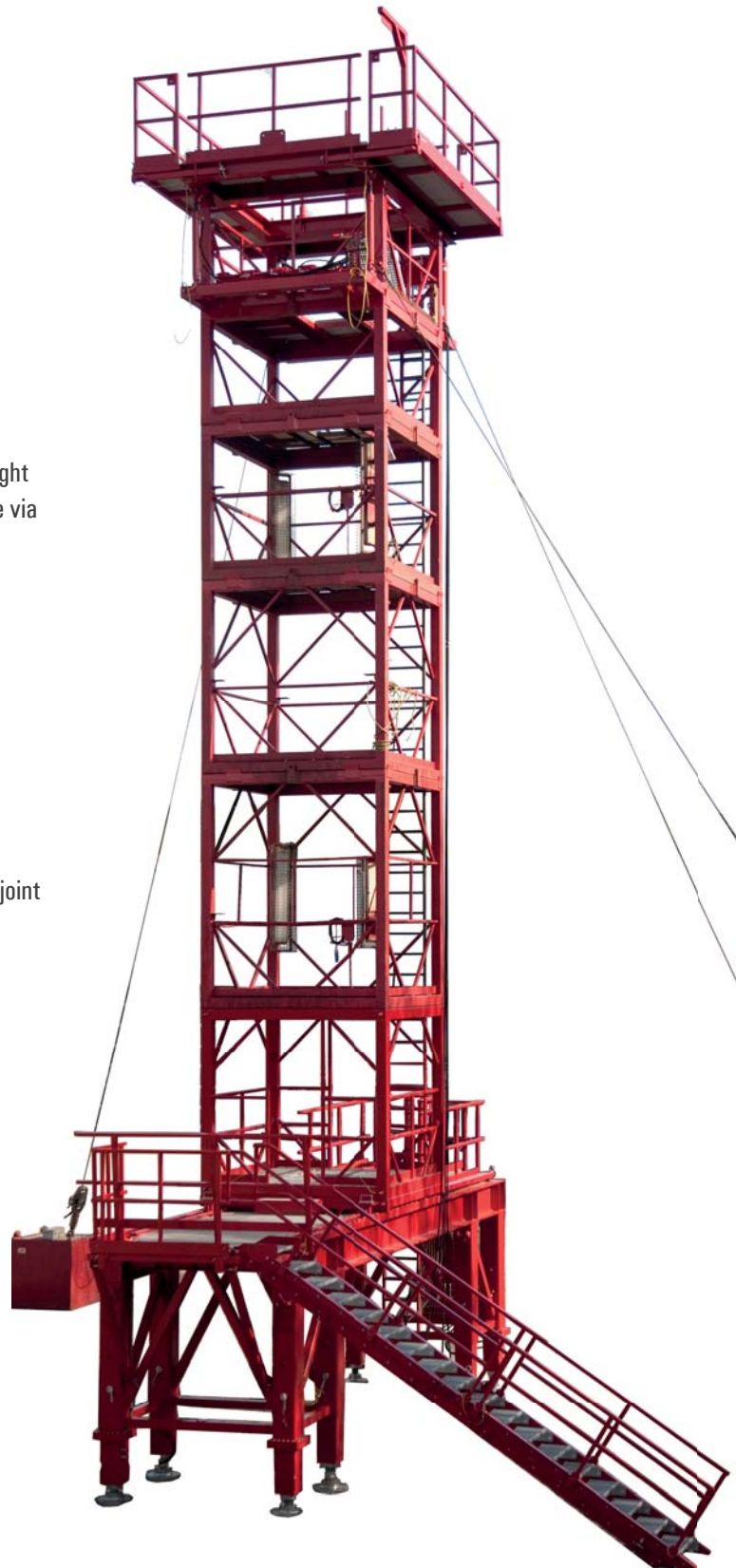
- Base frame - The outside support feet are hydraulically height adjustable and the inside support feet are height adjustable via trapezoidal spindles.
- Base segment
- Intermediate segment, 3,000 mm height
- Intermediate segment, 2,500 mm height
- Intermediate segment, 2,000 mm height
- Intermediate segment, 1,500 mm height
- Lift frame for injector, height adjustable up to 700 mm

Operating elements

- Hydraulic control panel – base frame
The individual adjustment of the four lift cylinders and the joint actuation of the two horizontal displacement cylinders are performed from the control panel.
- Hydraulic control panel – lift frame
The joint/synchronous actuation of the four lift cylinders is performed from the control panel.

Approvals

- ATEX 94/9/EC – Ex II 2G c IIB T3
- Elektrobergverordnung – EIBergV-
- Tiefbohrverordnung – BVOT
- Machinery directive 2006/42/EC



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Weights

Base frame	12,600 kg / 27,778 lbs
Base segment	1,450 kg / 3,197 lbs
Lift frame	4,150 kg / 9.149 lbs

Dimensions (L x W x H)

Base frame	9,138 x 2,520 x 3,200 mm 29.98 x 8.27 x 10.50 ft
Base segment	2,500 x 2,500 x 2,430 mm 8.20 x 8.20 x 7.97 ft
Lift frame	3,957 x 2,550 x 2,455 mm 12.98 x 8.37 x 8.05 ft

Support feed (base frame)

Hydraulically and manually height adjustable	
Infinitely variable lift adjustment	200 mm
Lift adjustment in 3 detent positions	450 mm
Total stroke	2 in

Hydraulic operation data (external unit)

Operation pressure	min. 117 / max. 172 bar
Volume flow rate	min. 12 l/min

Hydraulic line connection

Supply line pressure	190 bar
Supply line diameter	3/8"
Return line pressure	20 bar
Return line diameter	1/2"

2 hydraulic cylinders, lateral displacement

Diameter piston / piston rod	100 / 70 mm
Stroke	2,500 mm
Max pushing speed	5 mm / sec
Function	mechanically coupled

4 hydraulic cylinders, base frame support feed

Diameter piston / piston rod	80 / 50 mm
Stroke	200 mm
Max pushing speed	5 mm / sec
Function	individual selectable

4 hydraulic cylinders, lift frame rising

Diameter piston / piston rod	80 / 56 mm
Stroke	700 mm
Max pushing speed	5 mm / sec
Function	synchronized

Injector (not by KOLLER)

Max. pull force	360 kN
Max diagonal pull on pipe	6.3 kN
3 detent positions	450 mm
Weight approx.	12,000 kg

Anchoring, basis structure

Weight anchorage foundation	5,000 kg
Prestressing force	5 kN

Anchoring, complete unit

Weight anchorage foundation	7,500 kg
Prestressing force	10 kN

Atex identification	Ex II 2G c IIB T3
Range of ambient	-20 / +40 °C



Injector platform with centering bolts



Control panel on base frame



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