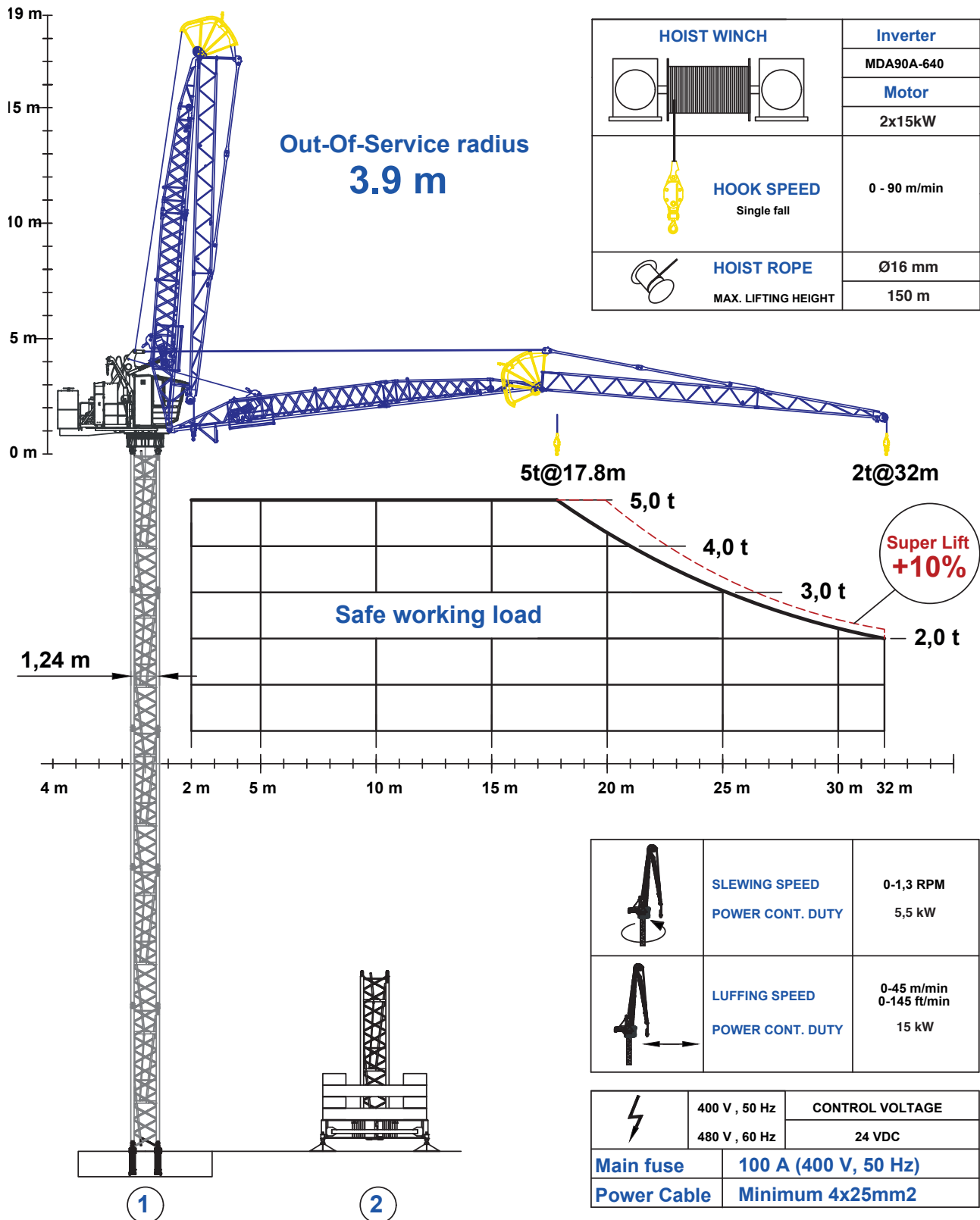


RAPTOR 85 Energy Saving

ARTICULATED JIB TOWER CRANE

Articulated jib tower crane capable of lifting 5 tonnes on a single rope that provides a solution for restricted airspace problems. Regenerated energy can be restored to the grid or power other site equipment.



RAPTOR 85 Energy Saving

ARTICULATED JIB TOWER CRANE



RAPTOR 85 Energy Saving

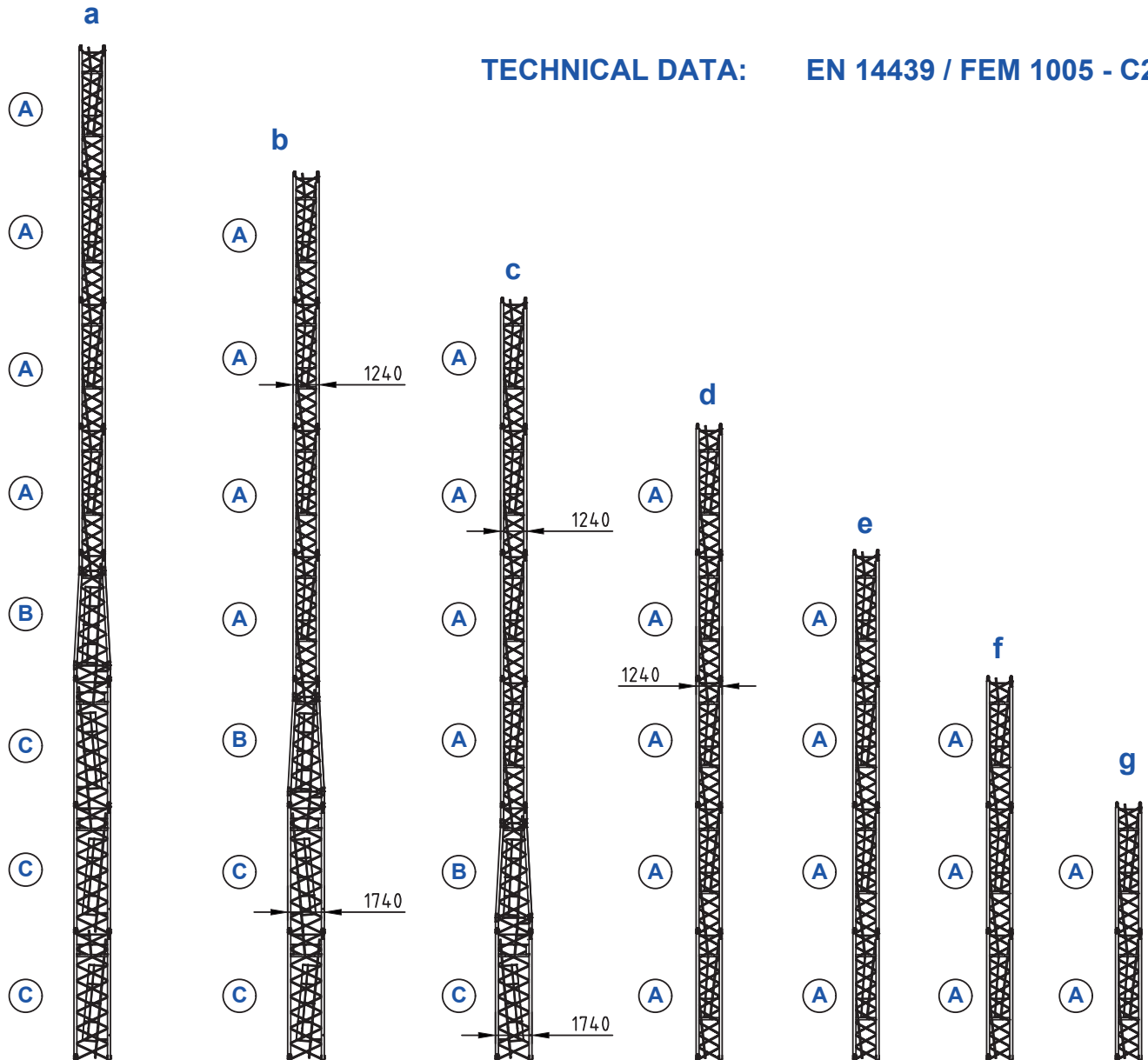
ARTICULATED JIB TOWER CRANE

JIB		5800kg	18.0 x 2.5 x 2.8 m
HOOK BLOCK		100 kg	0.25 x 0.2 x 0.96 m
CAB		1800 kg	4.1 x 1.6 x 2.54 m
COUNTER WEIGHT		2x 4000kg	2.4 x 0.9 x 0.93 m
BACK JIB		1500kg	2.8 x 1.66 x 1.51 m
SLEWING PART		5000kg	4.54 x 2.18 x 1.94 m
TOWER		1950kg	1.24 x 1.24 x 6.25 (Art.No 1260)
		2100kg	1.74 x 1.74 x 6.25 (Art.No 121760)
		2000kg	1.74 x 1.74 x 6.25 (Art.No 1760)
		4000kg	1.74 x 1.74 x 12.25 (Art.No 17120)
BASE CROSS		5100kg	6,8 x 1.5 x 1.9

RAPTOR 85 Energy Saving

ARTICULATED JIB TOWER CRANE

TECHNICAL DATA: EN 14439 / FEM 1005 - C25



Concrete Foundation

			a	b	c	d	e	f	g
	Hook Height = Tower Height	metres	48.2	42.2	36.2	30.2	24.2	18.2	12.2
	FOUNDATION SIZE	□ LxH1 [m]	7x1.4	7x1.1	6.4x1.1	5.8x1.1	5.3x1.1	5x1.1	4.9x1.1
	FOUNDATION WEIGHT	tones	164	129	108	89	74	66	63

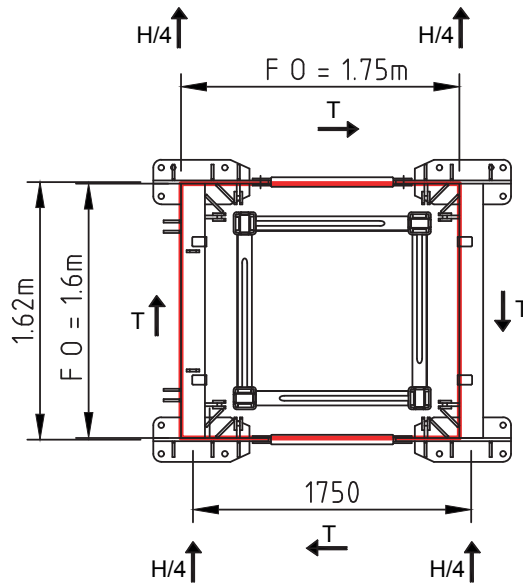
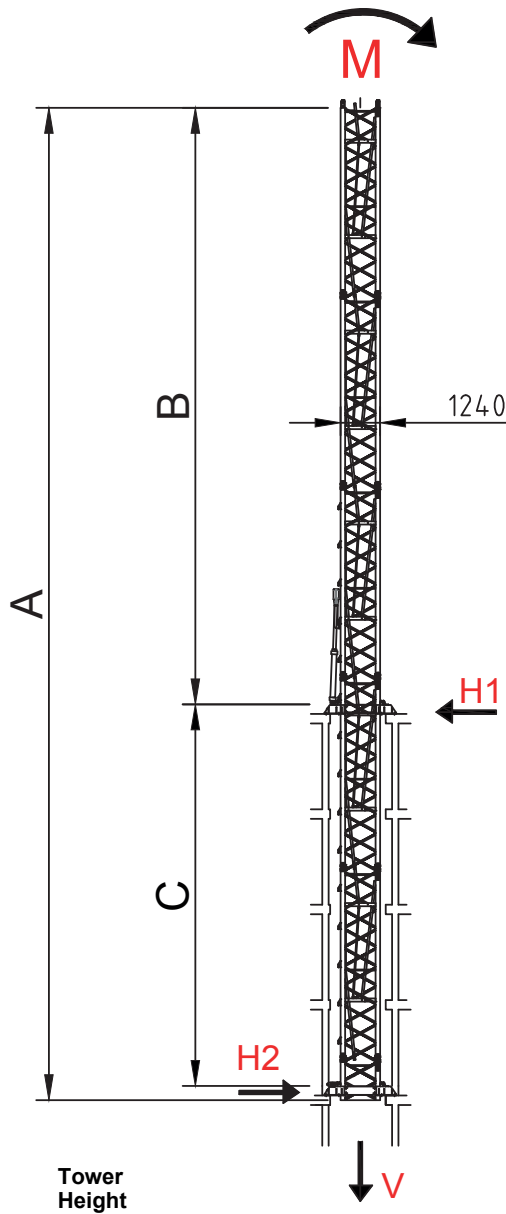
Base Cross - 4.5m x 4.5m

Table only valid with Artic Crane original base cross 4.5m x 4.5m

		Hook Height = Tower Height	metres	-	43.6	37.6	31.6	25.6	19.6	13.6
	BASE BALLAST	tones	-	121	93	66	47	36	34	
	CORNER PRESSURE	IN SERVICE	kN	-	716	619	526	456	410	389
		OUT OF SERVICE	kN	-	960	771	592	462	363	298

RAPTOR 85 Energy Saving

ARTICULATED JIB TOWER CRANE



FO = Floor opening

- A = Tower height
- B = A - C
- C = Distance between bracings
- Cmin = 9.0 metres
- Cmax = 12.0 metres
- $H1 = M / C + H$
- $H2 = H1 - H$
- $T = S / 2 \times 1.75$

	Reaction Forces to structure							
	Crane In Service S = 90kNm				Crane Out of Service S = 0kNm			
A (m)	25.2		31.2		25.2		31.2	
C (m)	9	12	9	12	9	12	9	12
V (kN)	341	341	360	360	292	292	311	311
H1 (kN)	206	158	222	171	212	172	275	222
H2 (kN)	172	125	183	133	111	71	150	97
T (kN)	26	26	26	26	0	0	0	0