## Weights, Dimensions & Transport Guidelines

NM 750/48

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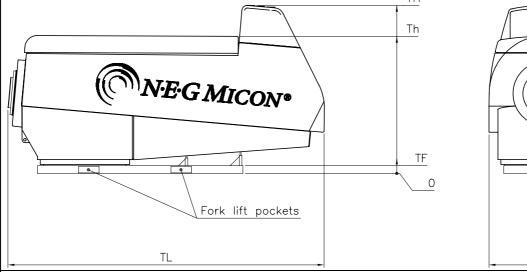
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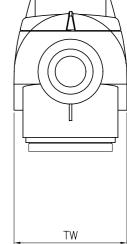


## Nacelle Weights & Dimension

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Component	Length [m]	Height [m]	Width [m]	Weight [ton]
Main Shaft	2.1	1.2	1.2	2.3
Gear box	1.7	1.8	1.9	5.5
Generator	1.8	1.2	1.4	3.2
Machine Base Frame	6.2	1 4	2.2	5.5





## **Transport and Crane Guidelines**

	Length [m]	Height [m]	Width [m]	Weight [ton]
Nacelle incl. cooler	TL=6.2		TW=2.2	20 22 (IEC 1+)
Nacelle incl. cooler and transportation stand	TL=6.2	TH=3.3	TW=2.2	21 23 (IEC 1+)
Nacelle without cooler incl. transportation stand	TL=6.2	Th=2.7	TW=2.2	20.9 22.9 (IEC 1+)
Transportation stand		TF=0.15		1
Typical Transport Specification	4m wide road, 15m access radius, 12T axle load			
Typically used Crane	Dependent on tow	er		

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3 3.4 0.12 3	RH3= RH2= RH1=3.0 BL=23.5 7.5 TLm=3.5 TLd= BL=23.5  TLm= TLd=	SD= SD= RD=1.34 (root)	K=2.25 K=2.38
0.12	RH1=3.0 BL=23.5 7.5 TLm=3.5 TLd= BL=23.5	SD=	
0.12	BL=23.5 7.5 TLm=3.5 TLd= BL=23.5 TLm=		
0.12	7.5 TLm=3.5 TLd= BL=23.5	RD=1.34 (root)	
	TLm=3.5 TLd= BL=23.5		K=2.38
	TLd= BL=23.5 TLm=		K=2.38
3	TLm=		K=2.38
			TLd
			, TLm
			-
lelines	D		-
Diameter [m]	Height [m	] Wei	ight [ton]
2xD=48	3.0		14
2xD=48	3.0		13
)	elines Diameter [m] 2xD=48	elines viameter [m] Height [m] 2xD=48 3.0	elines  piameter [m] Height [m] Weight [m] 2xD=48 3.0 2xD=48 3.0

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3 Tower Wei	ght & Dimensions			
	Weight [ton]	Length [m]	Maximum diameter [m]	Minimum diameter [m
Tower HH 45m	Edged rk0/IEC II (Item N	o. 1835500)		
Top section				
Bottom section				
Typical Transpor Specification	t 4m wide road, 1	5m access radius	s, 12T axle load	
Typical used crar	ne			
Tower HH 45m	Round rk0/IEC II (Item N	Vo. 23130-001)		
Top section	14.8	26.12	2.545	1.680
Bottom section	22.6	17.48	3.350	2.545
Typical Transpor Specification	t 4m wide road, 1	5m access radius		
•	One 180 tonnes	hydraulic mobile	e main crane with 48	8.9 meters boom
Typical used crane length and a 72 tonnes/meter lorry help crane (or a 50 tonnes hydr mobile help crane).				
Tower HH 45m IEC II (Item No. 23138-001 / 23136-001)				
Top section	8.0	14.6	2.145	1.680
Middle section	10.5	11.7	2.545	2.145
Bottom section	24.0	17.5	3.350	2.545
Typical Transpor Specification	t 4m wide road, 1	5m access radius	s, 12T axle load	
Typical used cran	ne See specificatio	n above for: Tow	er HH 45m (Item N	(o. 23130-001)
Tower HH 45m	Round IEC II (Item No. 2	3127-001)		
Top section	14.8		2.545	1.680
Bottom section	22.9		3.350	2.545
Typical Transpor Specification	t 4m wide road, 1	5m access radius	s, 12T axle load	
Typical used crar	ne See specificatio	n above for: Tow	er HH 45m (Item N	(o. 23130-001)
Tower HH 45m	Round NL<6.2m/s (Item I	No. 23137-001)		
Top section	14.8	26.1	2.545	1.680
Bottom section	22.6	17.5	3.350	2.545
Typical Transpor Specification	t 4m wide road, 1	5m access radius	s, 12T axle load	
Typical used crar	ne See specificatio	n above for: Tow	er HH 45m (Item N	(o. 23130-001)
	Round rk0/IEC II (Item N		`	,
Top section	16	26.12	2.545	1.680
Bottom section	29.9	22.48	3.350	2.545
Typical Transpor Specification	t	5m access radius		
Typical used crai		tonnes/meter lori	e main crane with 53 ry help crane (or a 5	

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3	Tower Weight & Dimensions					
		Weight [ton]	Length [m]	Maximum diameter [m]	Minimum diameter [m]	
	Tower HH 50m Edged	NL<6.7m/s (Item N	o. 23124-000)		l	
	Top section					
	Bottom section					
	Typical Transport Specification	4m wide road, 1	5m access radius	, 12T axle load		
	Typical used crane	See specification	above for: Tow	er HH 45m (Item N	lo. 23131-001)	
	Tower HH 50m Edged	rk0/IEC II (Item No	o. 1841500)			
	Top section					
	Bottom section					
	Typical Transport Specification	4m wide road, 1	5m access radius	, 12T axle load		
	Typical used crane					
	Tower HH 55m Round	rk0/IEC II (Item N	o. 23132-001)			
	Top section	16.0	26.12	2.545	1.680	
	Bottom section	37	27.48	3.342	2.545	
	Typical Transport Specification	4m wide road, 15m access radius, 12T axle load				
Typical used crane  One 250 tonnes hydraulic mobile main crane with 60 length and a 72 tonnes/meter lorry help crane (or a 50 mobile help crane).						
Tower HH 55m Edged NL<6.7m/s (Item No. 23122-001)						
Top section (Rem 10: 25122 001)						
	Bottom section					
Typical Transport Specification  4m wide road, 15m access radius, 12T axle load						
	Typical used crane					
	Tower HH 55m Edged	IEC IIB (Item No. 2	23103-000)			
	Top section					
	Middle section		-			
	IVIIUUIC SCCIIOII					
	Bottom section					
		4m wide road, 1	5m access radius	s, 12T axle load		
	Bottom section Typical Transport	One 250 tonnes	hydraulic mobile onnes/meter lorr	s, 12T axle load e main crane with 60 ry help crane (or a 5		
	Bottom section Typical Transport Specification	One 250 tonnes length and a 72 t mobile help cran	hydraulic mobile onnes/meter lorr e).	main crane with 60		
	Bottom section Typical Transport Specification Typical used crane	One 250 tonnes length and a 72 t mobile help cran	hydraulic mobile onnes/meter lorr e).	main crane with 60		
	Bottom section Typical Transport Specification Typical used crane Tower HH 55m Edged	One 250 tonnes length and a 72 t mobile help cran rk0/IEC II (Item No	hydraulic mobile onnes/meter lorr e). p. 23104-001)	e main crane with 60 ry help crane (or a 5		
	Bottom section Typical Transport Specification Typical used crane  Tower HH 55m Edged Top section	One 250 tonnes length and a 72 t mobile help cran rk0/IEC II (Item No	hydraulic mobile onnes/meter lorr e). <b>23104-001)</b> 26.6 27	e main crane with 60 by help crane (or a 5 2.500 3.000	0 tonnes hydrauli	

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Tower Weigh	t & Dimensions						
	Weight [ton]	Length [m]	Maximum diameter [m]	Minimum diameter [m			
Tower HH 60m Ro	und NL<8.5m/s (Item N	o. 23112-001)					
Top section	27.0	,					
Bottom section	49.9						
Typical Transport Specification	4m wide road, 1.	5m access radius	s, 12T axle load				
Typical used crane							
Tower HH 60m Ro	und wzIII (Item No. 231	109-001)					
Top section	27.0	28.6	2.433	1.680			
Bottom section	46.2	28.4	3.565	2.433			
Typical Transport Specification	4m wide road, 15m access radius, 12T axle load  One 350 tonnes hydraulic mobile main crane with 50 meter length and 16 meters boom extension and a 72 tonnes/mete crane (or a 50 tonnes hydraulic mobile help crane).						
Typical used crane							
Tower HH 68.4m F	Tower HH 68.4m Round NL<8.5m/s (23110-001)						
Top section							
Middle section							
Bottom section							
Typical Transport Specification	4m wide road, 1:	4m wide road, 15m access radius, 12T axle load					
Typical used crane							
Tower HH 70m Ro	und wzIII (23110-001)						
Top section	23	28.6	2.433	1.680			
Middle section	23	19.3	2.969	2.433			
Bottom section	31	19.1	3.842	2.969			
Typical Transport Specification	4m wide road, 1:	5m access radius	s, 12T axle load				
Typical used crane	length and 44 me	eters luffing fly j	e main crane with 30 gibs and a 72 tonnes, nobile help crane).				

4	Trafo in Tower			
	Weight [ton]	Width [m]	Height [m]	Depth [m]
	4	2	2	1.2

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5 Sketch of Site Plan		
Following parameters and lengths are to be settled between the form in tall time starter.	reen the Project Manager and the Crane	
operator before installation starts:  Minimum Site Soil Compaction (kN/m)	A: Main crane	
Length (X) and width (Y) of site area	B: Help crane	
Minimum road width	C: Rotor	
Minimum turn radius	D: Nacelle	
Distance between main crane and tower sections		
Distance between main crane and foundation	E: Container F: Trafo	
	G: Foundation	
Distance between main crane and rotor  Distance between main crane and nacelle	H: Tower sections	

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