



CTL 630-32

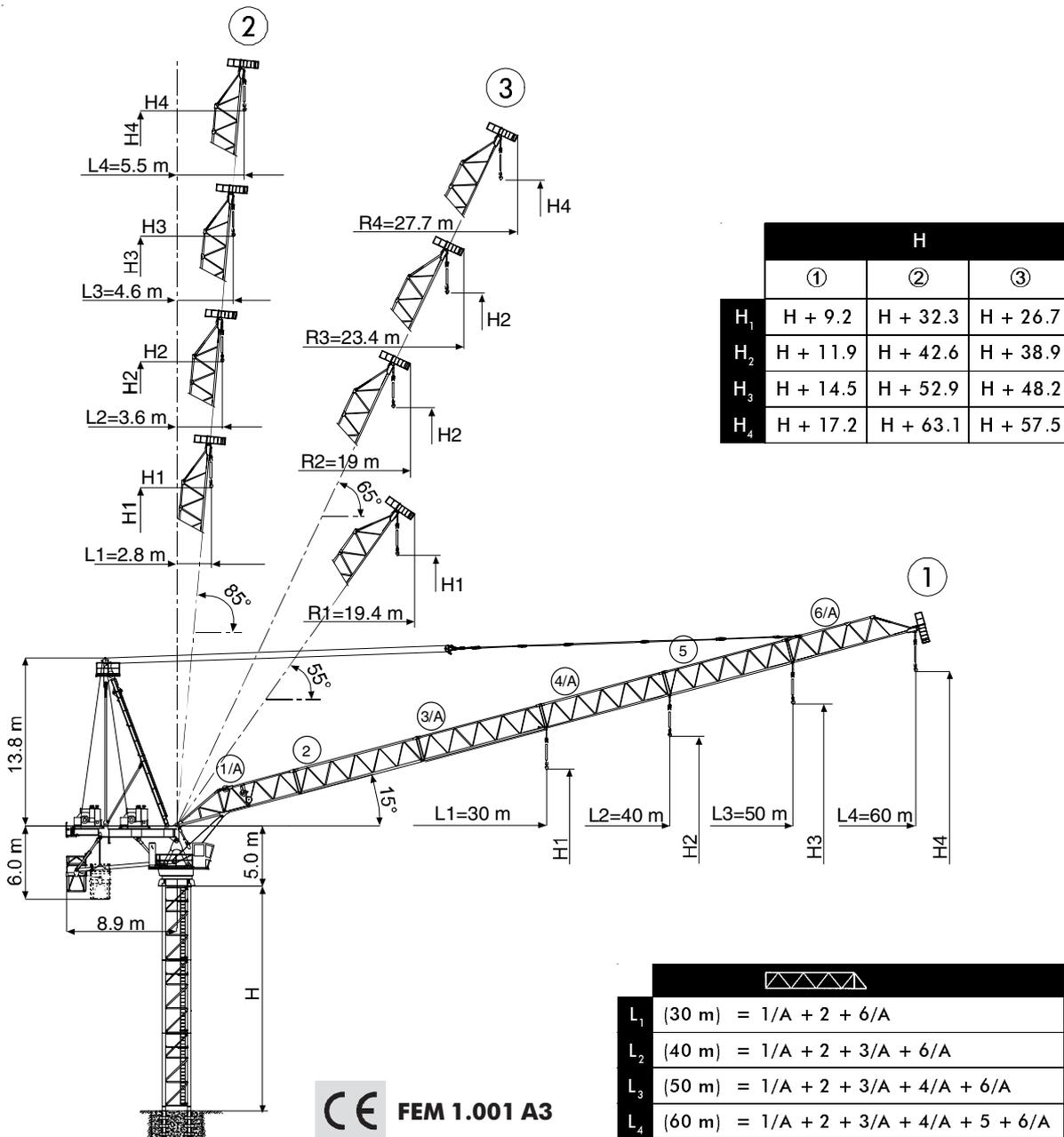
Technical Specifications

- 1 SPECIFICATIONS SHEET**
- 2 CRANE CLASSIFICATION**
- 3 LOAD HANDLING DEVICES**
- 4 WORK ENVIRONMENT**
- 5 MAIN CRANE COMPONENTS**
- 5.1 DRIVE ASSEMBLIES (GENERAL INFORMATION)**

Chapter 2



- Gru a torre a braccio impennabile
- Luffing Jib Tower Crane • Grue à tour à flèche relevable
- Turmdrehkran mit Steilstellung-Ausleger
- Grua torre de pluma abatible



THE ULTIMATE CRANE™

CTL 630-32 HD23



CTL 630-32

Diagramma di portata
Load Diagram

I
GB

Courbes de charges
Lastkurven

F
D

Curvas de cargas

E

CTL 630-32

		20	22	25	27	30	35	40	45	50	55	60
16 t	- 35 m	16,00	16,00	16,00	16,00	16,00	16,00	13,90	12,27	10,96	9,89	9,00
16 t	- 41,9 m	16,00	16,00	16,00	16,00	16,00	16,00	16,00	14,82	13,20		
32 t	- 21,8 m	32,00	31,78	27,80	25,64	22,93	19,46	16,85	14,82	13,20		
16 t	- 40 m	16,00	16,00	16,00	16,00	16,00	16,00	16,00				
32 t	- 22,6 m	32,00	32,00	28,84	26,60	23,80	20,20	17,50				
16 t	- 30 m	16,00	16,00	16,00	16,00	16,00						
32 t	- 22,8 m	32,00	32,00	29,08	26,82	24,00						

Altre installazioni
Other configurations

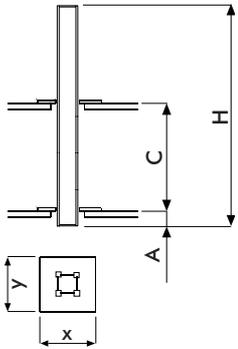
I
GB

Autres implantations
Aufstellmöglichkeiten

F
D

Otras implantaciones

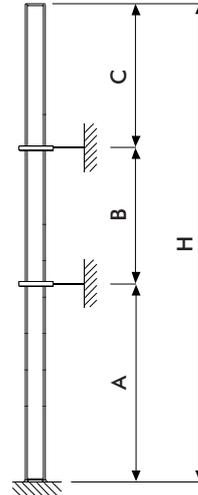
E



i

Gru climbing
Bottom climbing crane
Télescopage sur dalles
Kletterkrane im Gebäude
Telescopage grua trepadora

I
GB
F
D
E



i

Gru ancorata
Crane tied to the structure
Grue ancrée
Geankerter Kran
Grúa anclada

I
GB
F
D
E

	HD23 R1		HD23 R2	
	[m]		[m]	
	L _{3,4}	L _{1,2}	L _{3,4}	L _{1,2}
A _{min/max}	30/30		30/54	30/60
B _{min/max}	24/30		24-30	24/36
C _{max}	24-(30●)	30-(36●)	24-(30●)	30-(36●)
H _{max}	30.38	36.38	60.4	66.4

i

Consultateci

I

Consult us

GB

Nous consulter

F

Auf Anfrage

D

Consultarnos

E



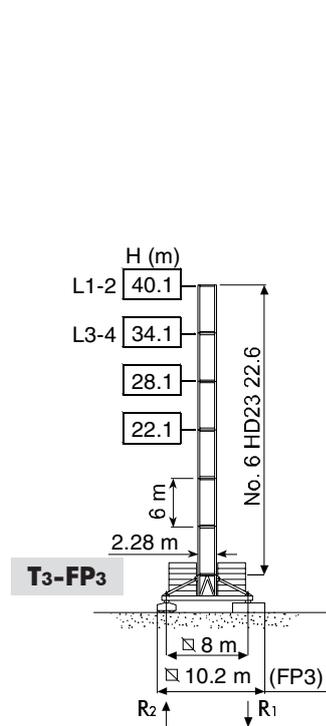
CTL 630-32

Torre **I**
Tower **GB**

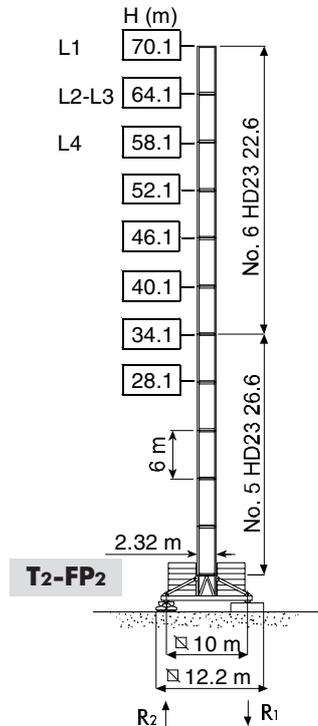
Tour **F**
Turm **D**

Mástil **E**

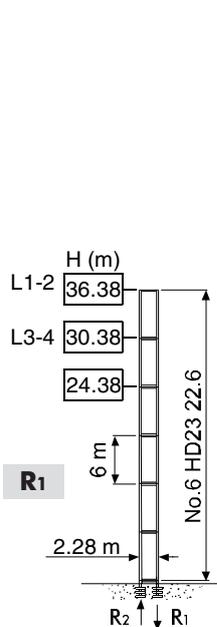
HD23



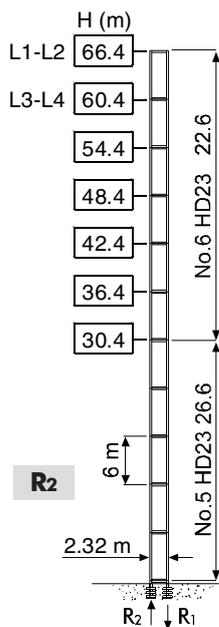
R1	1600 kN ●	1300 kN ◄
R2		
	140 t	



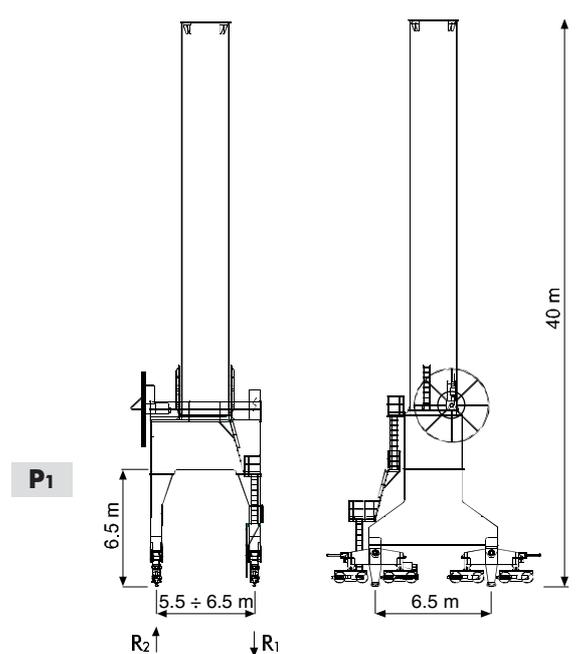
R1	1900 kN ●	1800 kN ◄
R2		
	180 t	



R1	3600 kN ●	3200 kN ◄
R2	2560 kN ●	2350 kN ◄
	116 t	



R1	4550 kN ●	5580 kN ◄
R2	3350 kN ●	4600 kN ◄
	148 t	



R1	I	I
R2		I
	250 t	



CTL 630-32

Meccanismi **I** Mechanisms **GB** Mécanismes **F** Antriebe **D** Mecanismos **E**

	SRWB 102 160/5	301 * kVA	400 V - 50 Hz
	SRWB 122 160/5	325 * kVA	460 V - 60 Hz
	110 AWL 160	297 * kVA	400 V - 50 Hz / 460 V - 60 Hz
			2000/14/CE

* Gru senza traslazione / Crane without travelling equipment / Grue sans translation / Krane ohne Schienenfahren / Grúa sin traslación

		m/min	t	kW			
	SRWB 102 160/5 50 Hz		0 ⇨ 32	16	102	600 m	
			0 ⇨ 50	10			
			0 ⇨ 80	6			
	SRWB 122 160/5 60 Hz		0 ⇨ 125	3.5			
				0 ⇨ 16			32
				0 ⇨ 25			20
				0 ⇨ 40			12
110 AWL 160 LLC D1		0 ⇨ 63	7				
			0 ⇨ 38	16			
			0 ⇨ 60	10			
			0 ⇨ 96	6			
		0 ⇨ 150	3.5				
			0 ⇨ 19	32			
			0 ⇨ 30	20			
110			0 ⇨ 48	12			
		0 ⇨ 76	7				
			0 ⇨ 26	16			
			0 ⇨ 36	11.3			
	0 ⇨ 50		8.1				
		0 ⇨ 69	5.6				
		0 ⇨ 80	0.8				
		0 ⇨ 13	32				
		0 ⇨ 18	22.6				
	0 ⇨ 25	16.2					
	0 ⇨ 35	11.2					
		0 ⇨ 40	1.6				

	LWL 11000	2.8 min	110 kW
	SCC 2 2 132 L	0 ⇨ 0.65 r.p.m.	2 × 14 kW
	● TVF 2RT 4M11	0 ⇨ 24 m/min	4 × 11 kW
	▲ TSR 4RG 4M8	12 ⇨ 24 m/min	4 × 80 Nm
	■ TVF 4RT 8M11	0 ⇨ 24 m/min	8 × 11 kW
	i		

	●	▲	■
	Max. H [m]		
T ₃	28.1	40.1	40.1
T ₂	40.1	70.1	70.1
P ₁	-	40	40

	Sollevamento	I	Hoisting	GB	Levage	F	Heben	D	Elevación	E
	Brandeggio		Luffing		Relevage		Ausleger-Einziehen		Elevación de pluma	
	Rotazione		Slewing		Orientation		Schwenken		Orientación	
	Traslazione		Travelling		Translation		Schienenfahren		Traslación	
	Direttiva sul livello acustico		Directive on noise level		Directive sur le niveau acoustique		Richtlinie für den Schall-Leistungspegel		Directiva sobre el nivel acustico	
	Consultateci		Consult us		Nous consulter		Auf Anfrage		Consultarnos	
	Potenza totale richiesta		Power requirements		Puissance totale nécessaire		Geforderte Stromstärke		Potencia necesaria	
	Alimentazione		Power supply		Alimentation		Stromversorgung		Alimentación	

Gru Comedil s.r.l.

A Terex Company

Via S. Egidio 42/A, 33074 Fontanafredda (PN) - Italy
Tel. (+39) 0434 567 311 - Telefax (+39) 0434 998631

Internet e-mail: info@comedil.com
Internet home page: www.comedil.com

Divisione Automontanti

Via Alessandrina, 25 - 20095 Cusano Milanino (MI) - Italy
Tel. (+39) 02 613 16011 - Telefax (+39) 02 613 16034

Internet e-mail: info.CBR@comedil.com

2

CRANE CLASSIFICATION

Standards for structural calculations of the crane: FEM 1.001

Machine grade: A3 (A2 for the jib ranges)

Standards for the electrical components: CEI - EN 60204 - 1

3

LOAD HANDLING DEVICES

32 t (70,560 lbs) - hook UNI 946 S / DIN 15401 .

4

WORK ENVIRONMENT



- Working temperature: **0 °C ➔ 40 °C** (upon the customer's request, cranes withstanding temperatures up to -20 °C can be supplied)
- Maximum relative humidity: **90%**
- Maximum wind speed:

<u>during assembly</u>	14	m/s	(~50 km/h)
<u>in service</u>	20	m/s	(~72 km/h)
<u>out of service</u>	42	m/s	(~150 km/h)



U.S. Customery units

- Working temperature: **32 °F ➔ 104 °F** (upon the customer's request, cranes withstanding temperatures up to -4 °F can be supplied)
- Maximum relative humidity: **90%**
- Maximum wind speed:

<u>during assembly</u>	46	ft/s	(~31 mph)
<u>in service</u>	66	ft/s	(~45 mph)
<u>out of service</u>	138	ft/s	(~93 mph)

- Maximum front surface:

the maximum admitted surface exposed to the wind in corrispondence of the full load allowed at a certain jib length during hoisting is obtained by the ratio:

$$A = \frac{0.03 \times P}{q \times 1.2} \quad \text{where}$$

A = Front surface exposed to the wind [m²]
P = Weight of the load hanging from the hook [daN]
q = Pressure factor = $\frac{v^2}{16}$ [daN/m²]
v = Wind speed [m/s]

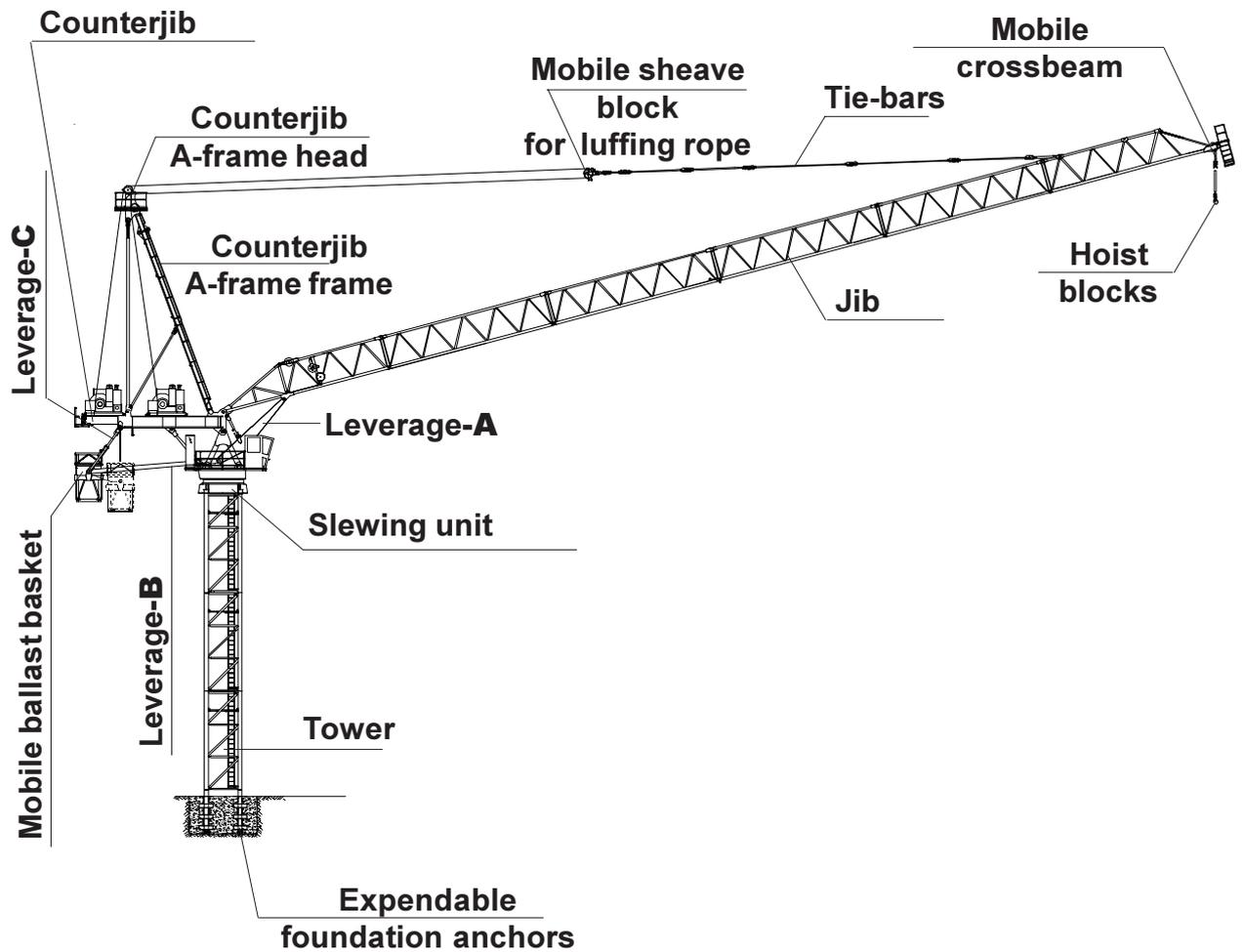
Important



The crane cannot be used in an explosive work environment or a work environment subject to fire risks. Also it cannot be operated in a work environment where flameproof devices are required.

5

MAIN CRANE COMPONENTS



Undercarriage

Found in the following configurations:

- "FP"** fixed base on 4 ballast blocks connected to the undercarriage edges and additional base ballast on the undercarriage;
- "T"** ballasted travelling platform mounted on tracks that ride along rails.

Base ballast

Made of self-supporting reinforced concrete blocks, it consists of four additional special concrete blocks to be placed under and bolt-connected to the edges of the undercarriage ("FP" installation only).

Tower

All tower sections are made of different HEM-sectioned stanchions depending on the tower type (HD23 22 or 26). Lugs are welded externally on one side, specifically designed for the tower raising by top climbing unit.

The tower denominations must be interpreted as follows:

example:

HD 23 22.6 : HD type tower element > width 23 dm (8 ft) > stanchion thickness = 22 mm (0.87in.) > height 6 m (20 ft) approx..

Counterjib

A structure bearing the hoisting and luffing winch.

It is equipped with side catwalks protected by handrails for the operators' safety.

Slewing unit

It consists of a lower slewing ring support (connected to the tower) and a motorized upper slewing ring support (which rotates together with the upper part of the crane) with the slewing ring placed in the middle.

Jib

It consists of 6 triangular sections.

Diagonals are made from round-hollow bars; the upper and longitudinal spars from square-hollow bars.

A service platform allowing access to the hoist blocks and the mobile crossbeam is placed on the jib point.

It is equipped with a safety cable (for the whole length of the jib) thus allowing the crane operators and maintenance engineers to fasten themselves with the special safety belt when walking along it.

A-frame / A-frame head

CTL 630 A-frame consists of three sections and is secured directly to the counterjib.

On the A-frame head are the pulleys which form the A-frame sheave block.

The A-frame consists also of ladders and of a service platform to make assembling and maintenance easier.

Leverages / Mobile ballast basket / Counterweights

There are three types of leverages:

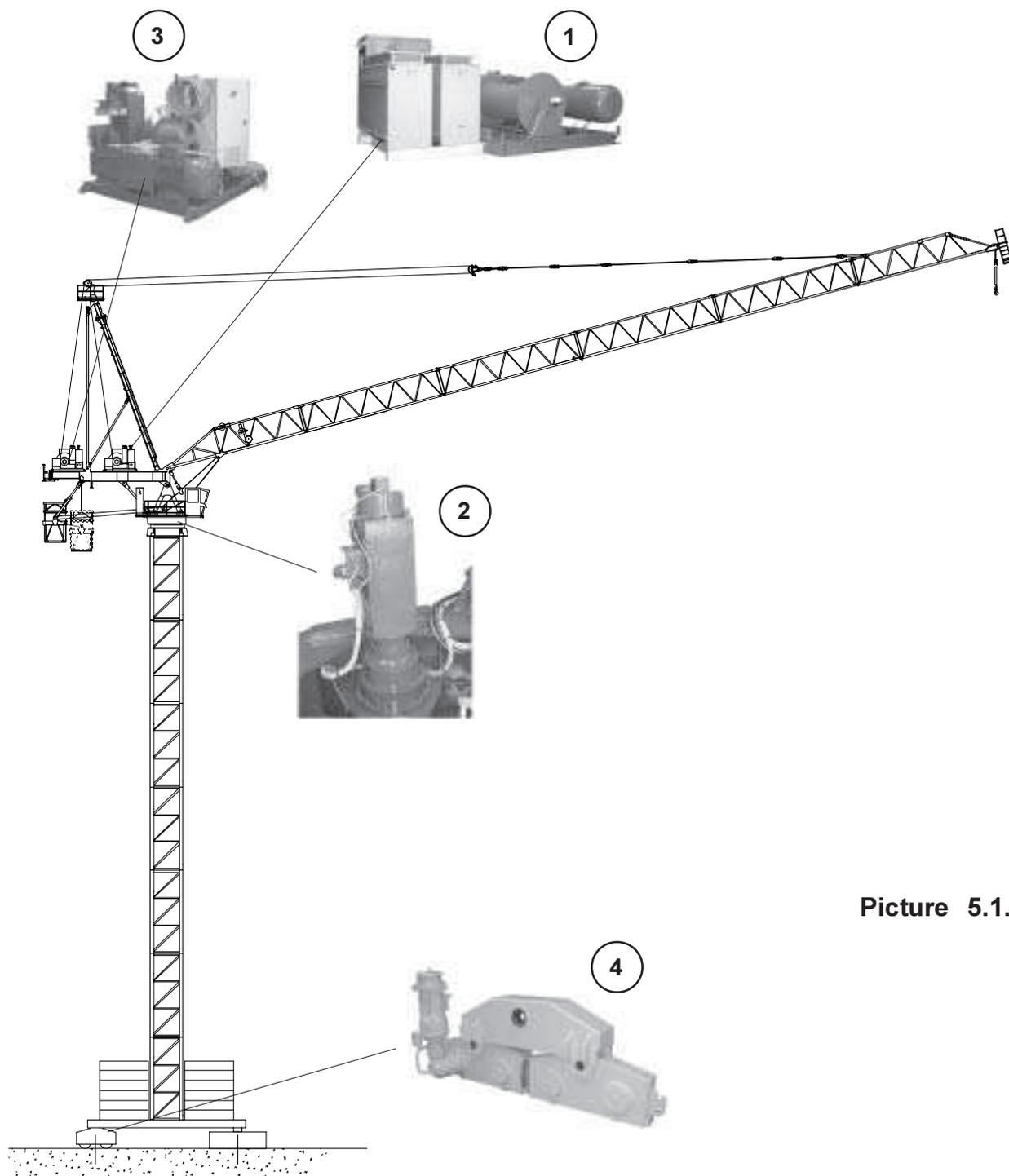
- leverage "A" : connected to jib section-01;
- leverages "B" and "C" : connected to the counterjib and to the mobile ballast basket.

Platforms are assembled on leverage "B" to allow the erectors to place the counterweights in the mobile ballast basket.

There are two types of counterweights to be placed partly in the special basket and partly in the support placed at the end of the counterjib.

The quantity and layout of the counterweights are specified in **chapter 3B - "Counterweight"** of the crane operation manual.

5.1 DRIVE ASSEMBLIES (GENERAL INFORMATION)



Picture 5.1.1

1) HOIST WINCH

see **Chapter 9** of the crane operation manual for technical specifications

2) SLEWING UNIT

see **Chapter 13** of the crane operation manual for technical specifications

3) LUFFING WINCH

see **Chapter 11** of the crane operation manual for technical specifications

4) TRAVELLING UNIT

see **Chapter 12** of the crane operation manual for technical specifications