

F.lli CAMPION srl

Via A. De Gasperi 45
45025 Fratta Polesine (RO) - Italy
tel. +39.0425.668686 - fax +39.0425.668688
www.palicampion.it - mail@palicampion.it



Fratta Polesine il 05.11.2008

Spett.le:
KROMISS-BIS sp zoo
Ul. Legionow, 92
42202 CZESTOCHOWA - POLONIA

MATERIAL :

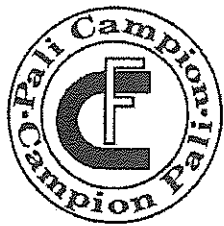
Product Code	Q.ty (N°)	Description	Reference
CM32.5/P	04	High mast with mobile mt 32.5 a.g. with base plate to be fixed through 26 anchor bolts M24 (out of scope of supply), manufactured according to the workshop drawing CM32.5/P 1958-08 composed of: - polygonal high mast mt 32.5 a.g., Db.700 - dt 240 with base plate D.860. - trailing head; - mobile crown - frame set for floodlights and ballasts support for sport field lighting; - electric plant composed of n. 2 lines sect. 5x10 sqmm completed with all accessories CEE for the correct operation of the floodlight.	Ns. C.O. A/001958/2008 del 11.09.2008 Vs. ordine n. 0121/0908/CE- A/Z del 08.09.2008
P1000/C/32/R	01	Hoisting electric unit <i>trolley mounted</i> composed of: - electric hoist KITO art. KF100 carriage load kg. 1000 direct gear, kg 2000 driven gear 75869 - mt 67 gauged chain D. 7.1 - trolley mounted unit galvanised steel completed with rubber wheels.	Ns. C.O. A/001958/2008 del 11.09.2008 Your order n. 0121/0908/CE- A/Z del 08.09.2008

This leaflet contents all documents (certificates, drawings, lists, schemes and handbooks) referred to the above mentioned supply.

Enclosed Documents for CM32.5/P:

- Declaration of conformity CE;
- Workshop drawing cod. CM32.5/P 1958/08;
- certificate of conformity for hoisting unit;
- electric scheme high mast with mobile crown (block and distribution box wiring.) and list of electric material.

PALIE TORRI IN ACCIAIO STEEL COLUMNS AND MASTS



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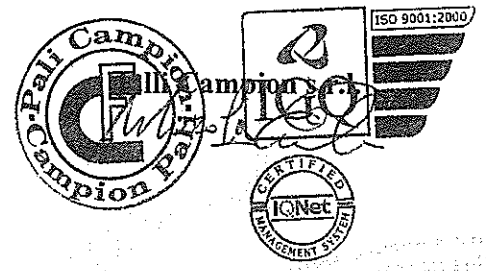


For the hoisting unit P1000/C/32/R:

- certificate of conformity for hoisting unit;
- certificate for hoisting unit.

Furthermore we enclose also::

- assembling and maintenance instructions, for high mast with mobile crown type CM32.5/P including maintenance handbook.;
- operating and safety instructions of chain electric hoists Kito (leaflet N. KF-0003-MCE).





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ISO 9001:2000

CONFORMITY DECLARATION

Accordino to Machinery Directive 89/392 CEE and subsequent amendements- Encolsure II A

The undersigned manufacturer :

F.lli Campion s.r.l.
via A. de Gasperi, 45/B
45025 Fratta Polesine (RO) - Italia

as manufacturer of mast with mobile crown :

type TROLLEY

model CM32.5/P

code number 1240; 1241; 1242; 1243.

Year of construction 2008

Declares that:


**THE MAST WITH MOBILE CROWN COMPLIES WITH
THE FOLLOWING COMMUNITY STANDARD:**

**Machinery Directive 89/392 CEE and following integration: 91/368 CEE - 93/68 CEE
Low tension directive 73/23 CEE - 93/68 CEE**

The applied unified standard are:

**UNI EN 292 part 1 e 2 (safety of the machinery)
CEI EN 60204-1 (safety of the electric and electronic equipment)
UNI EN ISO 9001:2000 (quality assurance)**

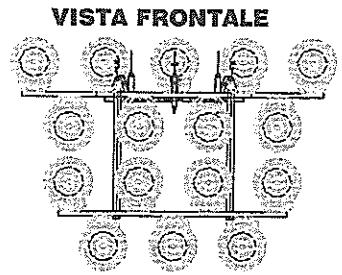
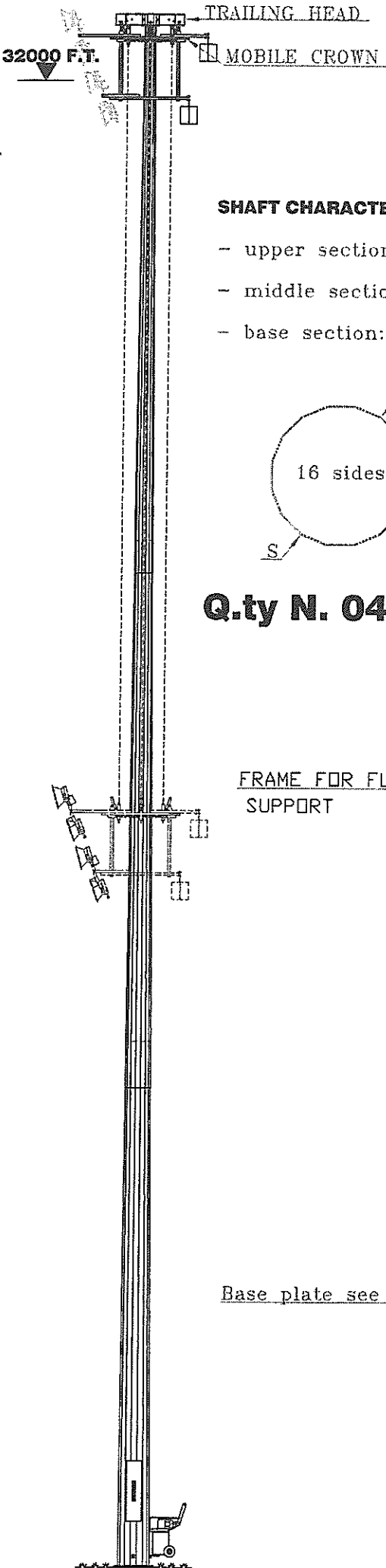
Considering what above mentioned we further point out that:

- the  mark is stamped on the mast .

Fratta Polesine li 05.11.2008

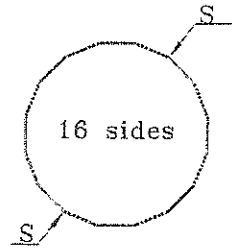
Sole manager
F.lli Campion Otello
Ufficiale
F.lli CAMPION s.r.l.
L'Amministratore....

MOD. CAMPION_V.DWG REV.01 (09/04) - Questo disegno è di proprietà della Pali Campion srl. Ne è vietata la riproduzione anche parziale, nonché la presentazione a terzi senza la nostra esplicita autorizzazione.



SHAFT CHARACTERISTICS FOR CM32.5/P MAST:

- upper section: length 11100; D.405; d.240; sp.4; overlapping 700
- middle section: length 11800; D.558; d.383; th.4; overlapping 1000
- base section: length 11300; D.700; d.532; th.5



DIMENSIONS IN MILLIMETRES

- S = longitudinal MAG welding
- top section n. 1 welding
 - middle section n. 2 welding
 - base section n. 2 weldings

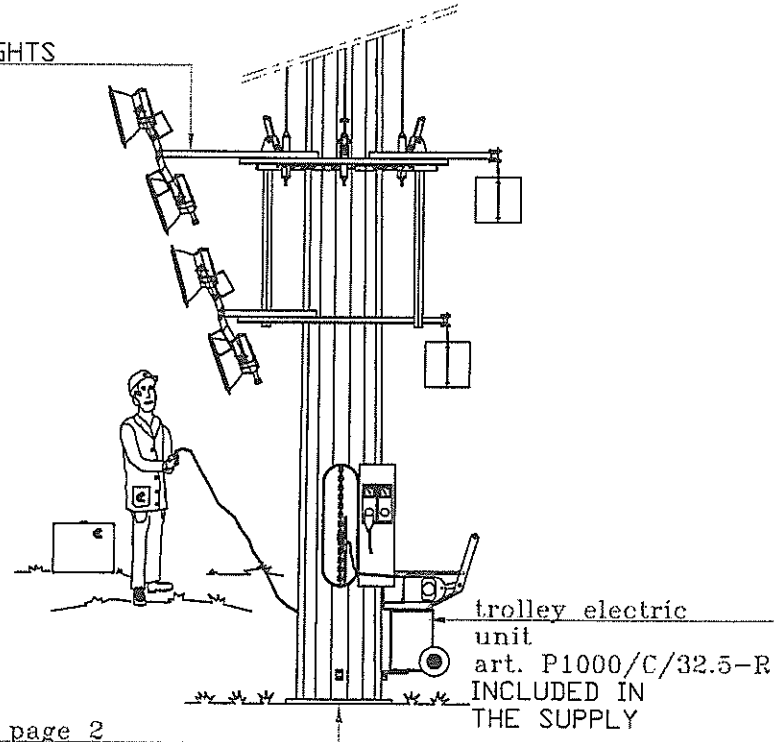
Material:
steel grade S355J0 EN10025 (Fe510C)

Protection:
BLANK

Q.ty N. 04

MOVEMENT DETAIL

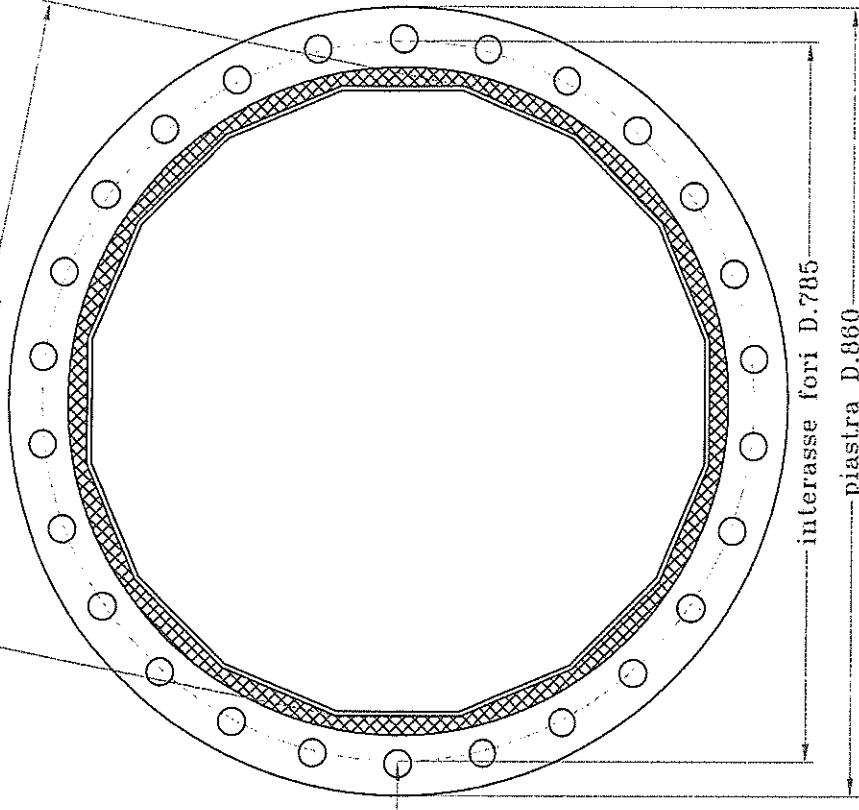
FRAME FOR FLOODLIGHTS SUPPORT



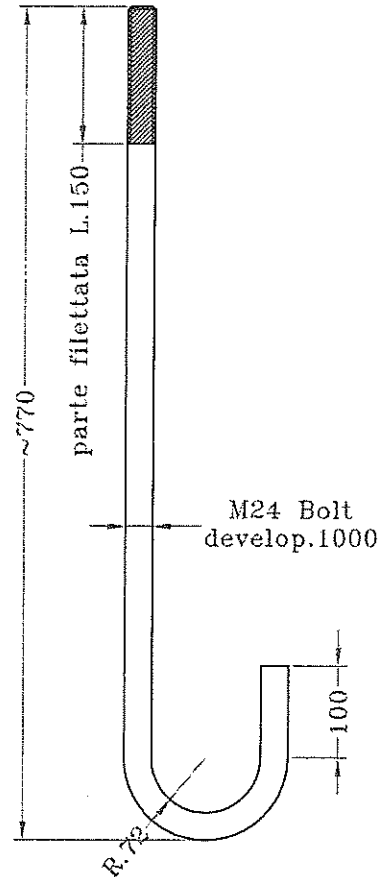
00 N.REV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE CODICE	Marabese E. DISEGNATORE PAGINA	Marabese E. APPROVAZIONE FORMATO STAMPA
		CM32.5/P 1958-08	1/---	A4
		OGGETTO torre portafari a corona mobile mt 32.5 f.t. su piastra di base per illuminazione impianto elettrico	ISO9001:2000	
		CLIENTE KROMISS-BIS (POLONIA)	RIF.ORDINE C.O.1958/08	
		EMISSIONE	CONTROLLO PRODUZIONE	
Pali Campion srl - Fratta Pol. RO ITALY - Tel 0425669886 - Fax 0425669886 - mail@palicampion.it - www.palicampion.it				

BASE PLATE WORKSHOP DETAIL

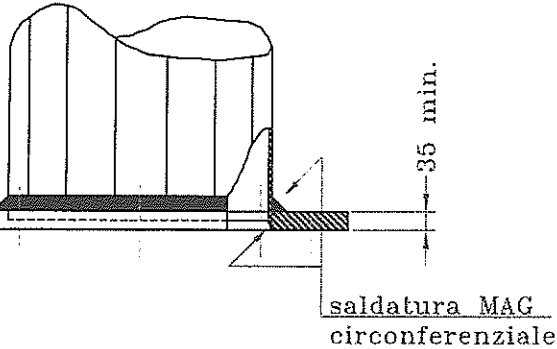
MOD. CAMPION_V.DWG REV.01 (09/04) - Questo disegno è di proprietà della Pali Campion srl. Ne è vietata la riproduzione anche parziale, nonché la presentazione a terzi senza la nostra esplicita autorizzazione.



Dimension detail for anchor bolts M24
 OUT OF SCOPE OF SUPPLY



- middle nut M24
OUT OF SCOPE OF SUPPLY
- high nut M24
OUT OF SCOPE OF SUPPLY
- plane washers
OUT OF SCOPE OF SUPPLY
- M24 high nuts
OUT OF SCOPE OF SUPPLY

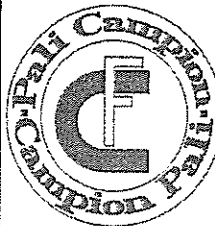



DIMENSIONS IN MILLIMETRES

- Materials:
- plate S355JO EN10025 (Fe510C) OUT OF SCOPE OF SUPPLY
 - bolts S355JO EN10025 (Fe510C) OUT OF SCOPE OF SUPPLY
 - bolts and nuts class 8.8 OUT OF SCOPE OF SUPPLY

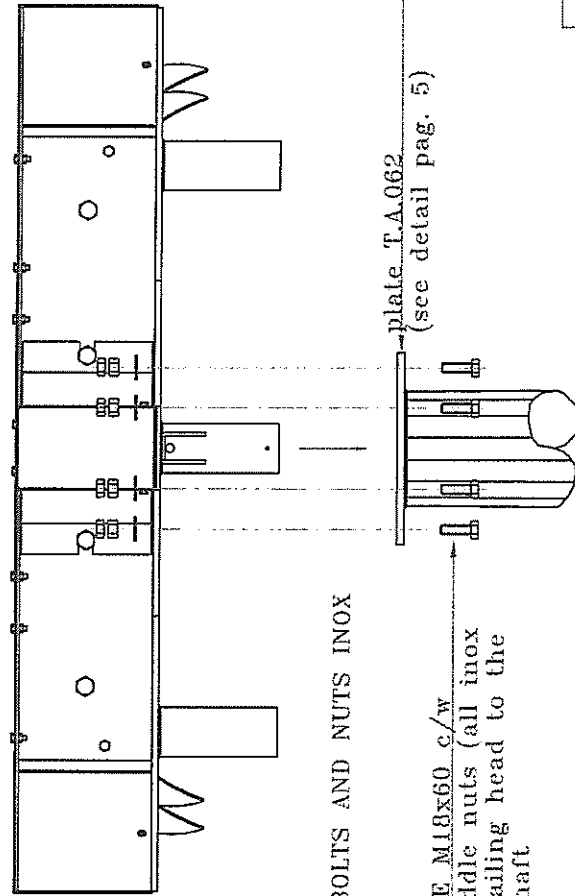
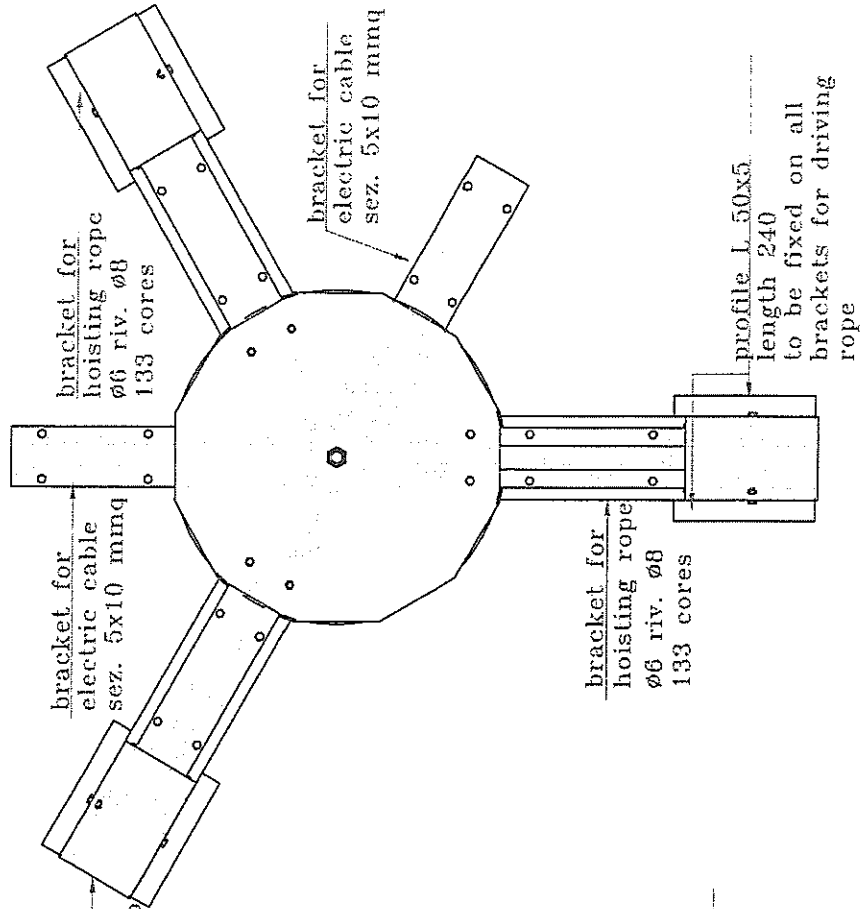
Protection
 - plate (and column) HOT DIP GALVANISED

Q.ty N. 04 plates

00 N.REV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
		CODICE PIA.BA.	PAGINA 2/14	FORMATO STAMPA A4
OGGETTO high mast with mobile crown mt 32.5 f.t. art. CM32.5/P. - ANCHOR BOLTS AND BASE PLATE DETAIL -			ISO9001:2000	
CLIENTE KROMISS-BIS (POLONIA)		RIF.ORDINE C.O.1958/08		
EMISSIONE	CONTROLLO	PRODUZIONE		
Pali Campion srl - Fratta Pol. RD ITALY - Tel 0425668686 - Fax 0425668689 - mail@palicampion.it - www.palicampion.it				

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TRAILING HEAD ASSEMBLING DRAWING



N.B. ALL BOLTS AND NUTS INOX

n. 6 screw TE M18x60 c/w high and middle nuts (all inox to fix the trailing head to the top of the shaft

plate T.A.062 (see detail pag. 5)

N. 2 BRACKET FOR ELECTRIC CABLE (cable 5G10)

Q.ty N. 4 trailing head

DIMENSIONS IN MILLIMETRES

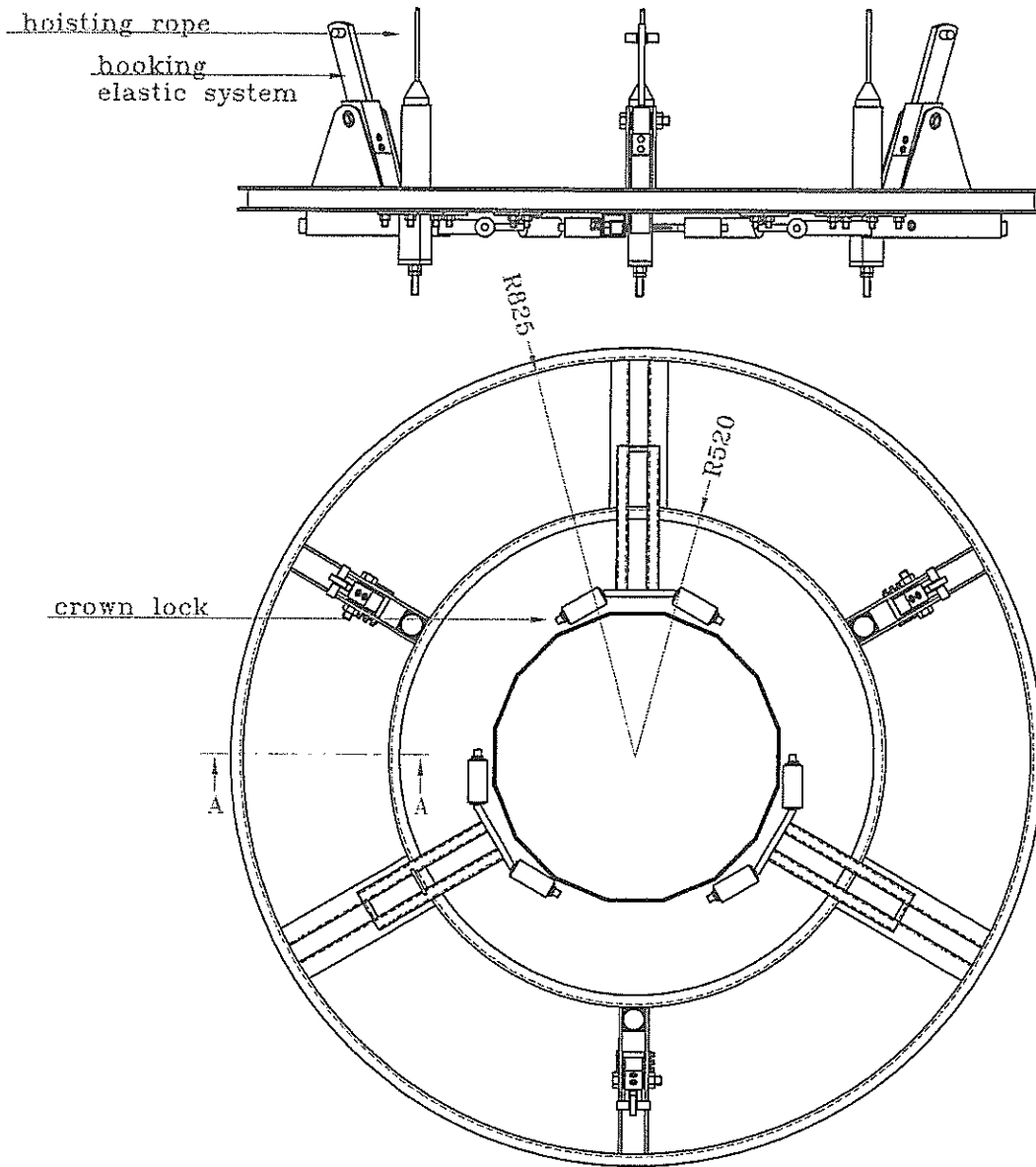
Material:
steel grade S235JR EN10025 (Fe360B)

Protection
HOT DIP GALVANISATION

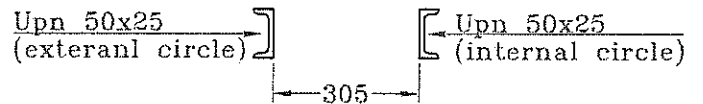
00 N. REV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE CODICE	Marabosc E. DESIGNAZIONE PAGINA	Marabosc E. APPROVAZIONE FORMATO STAMPA
TDT3CM-2C5X10-CM32.5		3/	A4	ISO9001:2000
DESCRIZIONE: high mast with mobile crown mt 42.5 ag. art. CM32.5/P - TRAILING HEAD DETAIL		CLIENTE KROMISS-BIS (POLONIA)	REP. UGINE C.O.1958/08	CE CERTIFIED MANAGEMENT
EMISIONE KROMISS-BIS (POLONIA)		CONTROLLO	F.lli Campion srl - Fratella Pol. F.lli Campion Tel. 0425660006 - Fax 0425660008 - mail@fllcampion.it - www.fllcampion.it	

MOD. CAMPION_V.DWG REV.01 (09/04) - Questo disegno è di proprietà della P. I. Campion srl. Ne è vietata la riproduzione anche parziale, nonché la presentazione a terzi senza la nostra esplicita autorizzazione.

MOBILE CROWN



section A - A



DIMENSIONS IN MILLIMETRES

Material:
steel grade S235JR EN10025 (Fe360B)

Protection:
HOT DIP GALVANISATION

mobile crown N. 04

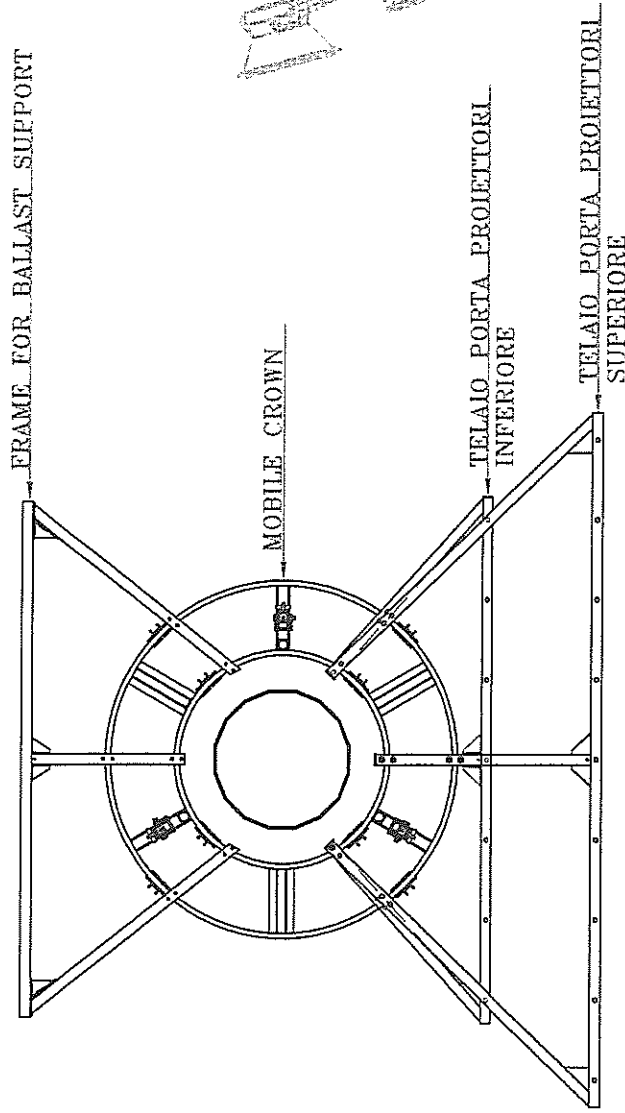
crown lock N. 12

PREPARED FOR N. 2 LINES FOR FLOODLIGHTS FEEDING
- LINE 1 SECTION 5010 mmq
- LINE 2 SECTION 5010 mmq

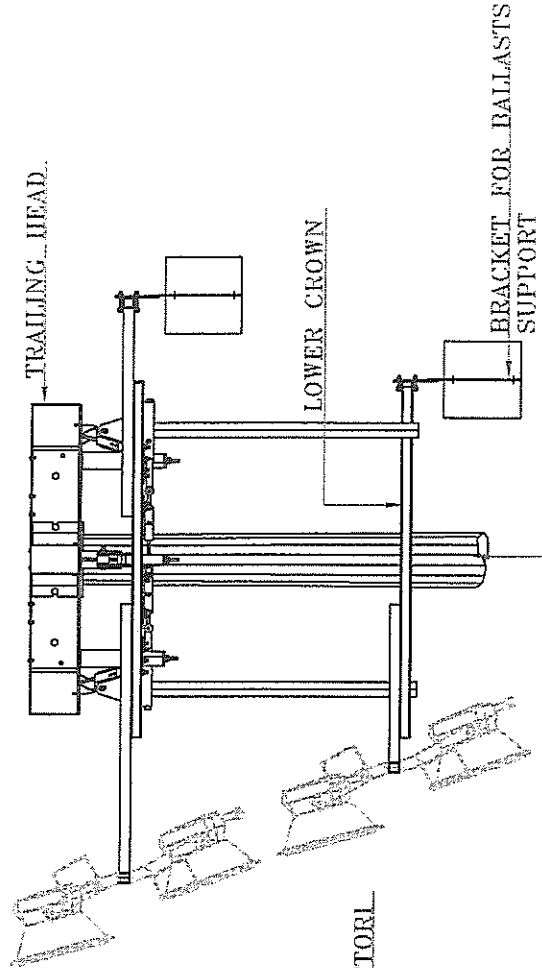
00 N.REV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISGNATORE	Marabese E. APPROVAZIONE
		CODICE CORONAMOBILECM	PAGINA 4/---	FORMATO STAMPA A4
		OGGETTO torre portafari a corona mobile mt 32.5 l.t. art. CM32.5/P - COMPLESSIVO CORONA MOBILE -	ISO9001:2000 	
		CLIENTE KROMISS-BIS (POLONIA)	RIF.ORDINE C.O.1958/08	
		EMMISSIONE	CONTROLLO	PRODUZIONE
P.I. Campion srl - Pratta Fel. RD ITALY - Tel 0425868086 - Fax 0425869608 - mail@policampion.it - www.policampion.it				

MOD. CAMPION_V.DWG REV.01 (09/04) - Questo disegno è di proprietà della Campion srl. Ne è vietata la riproduzione anche parziale, nonché la presentazione a terzi senza la nostra esplicita autorizzazione

TOP VIEW

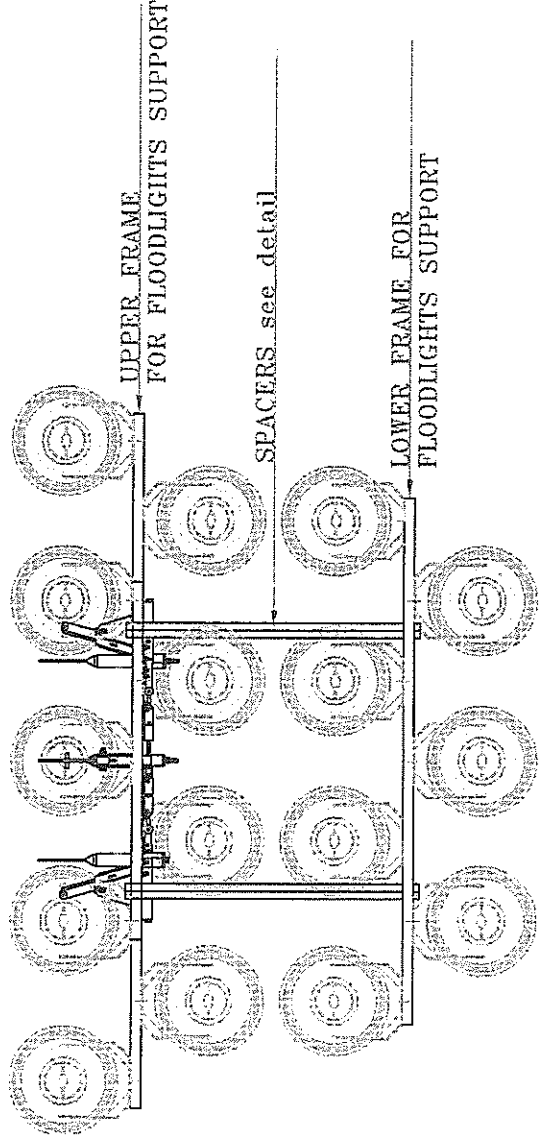


SIDE VIEW



SUACT see detail page 1

FRONT VIEW



00 N. REV.	25.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISSEMINATORE	Marabese E. APPROVAZIONE FORMATO STAMPA
		DEMO	PAGINA	A4
		OGGETTO: high mast with mobile crown mt 32.5 ag. art. C925/P		ISO9001:2000
		- FRAME FOR FLOODLIGHTS SUPPORT -		
		CLIENTE KROMISS-BIS (POLONIA)	REP. ORDINE C.O. 1958/08	
		EMISSORE	CONTROLLO	
			PRODUZIONE	
P.lh Campion srl - Pratta Val. RD ITALY - Tel 0422668606 - Fax 0422668608 - mail@policampion.it - www.policampion.it				

 METALSIDER spa	CERTIFICATO DI LABORATORIO LABORATORY CERTIFICATE UNI EN 10204 3.1	DATA-DATE 02/10/2008 DOCUMENTO - DOCUMENT 3872
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CLIENTE - CUSTOMER : ENTE DI COLLAUDO - INSPECTOR:	OFF.F.LLI CAMPION SRL G.Q. METALSIDER	ORDINE-ORDER WORK N.: 1271-1228 NS.CONFERMA-ID. NUMBER: 540105-540103
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PRODOTTI - PRODUCTS					
RIF.N.*	QUALITA' - QUALITY	FORMATO - SIZE		IDENT.PROD. COLATA	LOTTO - ITEM
		mm		IDENTIFICATION PRODUCT-HEAT	
15387	S355J0 EN 10025-2:2004	5	x 2000	15387 ← BASE	1-2
10833	S355J0 EN 10025-2:2004	4	x 1500	10833 ← INTERMEDIO	2

CARATTERISTICHE MECCANICHE RICHIESTE - MECHANICAL PROPERTY REQUIREMENTS																	
QUALITA' QUALITY	PROVA DI TRAZIONE TENSILE STRESS			PROVA DI PIEGA * BEND TEST			PROVA DI RESILIENZA IMPACT TEST				PROVA DI DUREZZA HARDNESS TEST						
	* R _{el}	R _m	A	180°		90°	D	* TIPO - TYPE		TEMP.	ENERGIA	H B	H R B	H R C	VALORE - VALUE		
	YIELD	TENSILE	EL					KW	KCU	°C	JOULE						
	min		min							min							
N/mm ² - MPa		%															
S355J0 EN 10025-2:2004	T	355	470+630	20	/	/	/	/	#	##	/	#N/D	#N/D	/	/	/	/

* ORIENTAMENTO PROVETTA L LONGITUDINALE T TRASVERSALE Z SPESSORE D DIAGONALE
 DIRECTION TEST SPECIMEN
 • PIEGA: a SPESSORE PROVETTA

CARATTERISTICHE MECCANICHE RISCONTRATE - MECHANICAL TEST RESULTS															
PROVETTA DI TRAZIONE TENSILE SAMPLE				PROVETTA DI TRAZIONE TENSILE SAMPLE						PROVE DI RESILIENZA IMPACT TEST				PROVA DI PIEGA	PROVA DI DUREZZA
RIF.N.*	DIMENSIONI SIZE	AREA AREA	L.UTILE LENGTH	SNERV. YELD		ROTTURA TENSILE		ALLUNGAMENTO ELONGATION		VALORI SINGOLI INDIVIDUAL VALUE			MEDIA MEAN	BEND TEST	HARDNESS TEST
	mm	S ₀ min ²	L ₀ mm	F _{el} N	R _{el} N/mm ² MPa	F _m N	R _m N/mm ² MPa	L _u mm	PERCENT.	JOULE					
									%	1	2	3	X		
15387	5 x 20	100	60	47500	475	56900	569	75	25	/	/	/	/	/	/
10833	4 x 20	80	50	34000	425	45700	571	64	27	/	/	/	/	/	/

ANALISI CHIMICA QUANTOMETRICA - CHECK ANALYSIS													
RIF.N.	%C	%Si	%Mn	%P	%S	%Al	%Nb	%V	%Mo	%Ni	%Cr	%Cu	%Ti
15387	0,171	0,014	0,753	0,015	0,017	0,030							
10833	0,180	0,026	1,440	0,015	0,007	0,031							

MATERIALE IMPIEGATO NELLA COSTRUZIONE
 DI Franca intermedia e Base per
 DI NS. PRODUZIONE torni cm325 P
 RIF. ORDINE..... 1958/08.....
 CLIENTE..... KROMISS-BIS.....
 OFF. F.LLI CAMPION s.r.l.

COPIA CONFORME ALL'ORIGINALE

NOTE: CONTROLLO DIMENSIONALE E DELL'ASPETTO SUPERFICIALE SODDISFACENTE LA QUALITA' CONFORME ALL'ORDINE

NS. D.D.T. 6674 DEL 02/10/2008

ESEGUITO DA Test made by METALSIDER S.p.A	TECNICO DEL COLLAUDO Technical tester Mambelli Davide	RESPONSABILE DI LABORATORIO Chief of the testing lab Fantini Antonio	ENTE DI COLLAUDO Inspector	COMMITTENTE Customer
--	--	---	-------------------------------	-------------------------

 METALSIDER spa	CERTIFICATO DI LABORATORIO LABORATORY CERTIFICATE UNI EN 10204 3.1	DATA-DATE
		02/10/2008
		DOCUMENTO - DOCUMENT
		3871

CLIENTE - CUSTOMER :	OFF.F.LLI CAMPION SRL	ORDINE-ORDER WORK N.:	1228
ENTE DI COLLAUDO - INSPECTOR:	G.Q. METALSIDER	NS.CONFERMA-ID. NUMBER:	540103

PRODOTTI - PRODUCTS				
RIF.N.*	QUALITA' - QUALITY	FORMATO - SIZE mm	IDENT.PROD. COLATA IDENTIFICATION PRODUCT-HEAT	LOTTO - ITEM
13879	S355J0 EN 10025-2:2004	4 x 1250 KG. 1800	13879	4

CARATTERISTICHE MECCANICHE RICHIESTE - MECHANICAL PROPERTY REQUIREMENTS																	
QUALITA' QUALITY	PROVA DI TRAZIONE TENSILE STRESS			PROVA DI PIEGA * BEND TEST			PROVA DI RESILIENZA IMPACT TEST				PROVA DI DUREZZA HARDNESS TEST						
	* R _{eL}	R _m	A	180°		90°	D	TIPO - TYPE		TEMP.	ENERGIA	H B	H R B	H R C	VALORE - VALUE		
	YELD	TENSILE	EL					KW	KCU	°C	JOULE						
	min		min								min						
N/mm ² - MPa		%															
S355J0 EN 10025-2:2004	T	355	470+630	20	/	/	/	/	L	X	/	0	27	/	/	/	/

* ORIENTAMENTO PROVETTA L LONGITUDINALE T TRASVERSALE Z SPESSORE D DIAGONALE
DIRECTION TEST SPECIMEN
• PIEGA: a SPESSORE PROVETTA

CARATTERISTICHE MECCANICHE RISCOstrate - MECHANICAL TEST RESULTS																
PROVETTA DI TRAZIONE TENSILE SAMPLE				PROVETTA DI TRAZIONE TENSILE SAMPLE						PROVE DI RESILIENZA IMPACT TEST				PROVA DI PIEGA	PROVA DI DUREZZA	
RIF.N.*	DIMENSIONI SIZE	AREA AREA	L.UTILE LENGTH	SNERV. YELD		ROTTURA TENSILE		ALLUNGAMENTO ELONGATION		VALORI SINGOLI INDIVIDUAL VALUE				MEDIA MEAN	BEND TEST	HARDNESS TEST
	mm	S ₀ mm ²	L ₀ mm	F _{el} N	R _{el} N/mm ² MPa	F _m N	R _m N/mm ² MPa	L _u mm	PERCENT. %	JOULE						
										1	2	3	X			
13879	4 x 20	80	50	39800	498	45700	571	63	26	/	/	/	/	/	/	

ANALISI CHIMICA QUANTOMETRICA - CHECK ANALYSIS

MATERIALE IMPIEGATO NELLA COSTRUZIONE :
 DI Punta per torni CM32.5P
 DI NS. PRODUZIONE.
 RIF. C. D. N. 1952/08
 CLIENTE KROMISS-BIS
 OFF. F.LLI CAMPION s.r.l.

COPIA CONFORME ALL'ORIGINALE

13879	%C	%Si	%Mn	%P	%S	%Al	%Nb	%V	%Mo	%Ni	%Cr	%Cu	%Ti
	0,079	0,017	0,837	0,019	0,016	0,039							

NOTE: CONTROLLO DIMENSIONALE E DELL'ASPETTO SUPERFICIALE SODDISFACENTE LA QUALITA' CONFORME ALL'ORDINE

NS. D.D.T. 6674 DEL 02/10/2008

ESEGUITO DA Test made by	TECNICO DEL COLLAUDO Technical tester	RESPONSABILE DI LABORATORIO Chief of the testing lab	ENTE DI COLLAUDO Inspector	COMMITTENTE Customer
METALSIDER S.p.A	Mambelli Davide	Fantini Antonio		



05.06.2008
C. Q.

Spett.le
F.LLI CAMPION SRL
VIA A. DE GASPERI
IT-45025 FRATTA POLESINE RO

F U N I D I A C C I A I O
W I R E R O P E

Attestato "CE" di conformità n.0 PG4024269/08/010 1/ 1
Certificate "CE" of conformance

In accordo al DPR 459 del 24.07.1996 e alle Direttive 89/392/CEE,
91/368/CEE, 93/44/CEE e 93/68/CEE
According to DPR 459 of 24.07.1996 and Directive 89/392/CEE,
91/368/CEE, 93/44/CEE and 93/68/CEE

Si certifica che la fune e' conforme a:

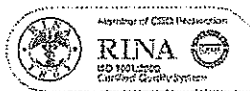
We herewith certify that the wire rope is conforming to: -

Vs Ordine/Your order	N. M/000474/08	Data/date	01.04.2008
Vs Rif./Your ref.			
Ns Conferma/Order Confirmation	4024269	Data/date	01.04.2008
Quantità/number	M 2.000,00		
Diametro nominale/nominal diam.	8,00 mm		
Tipo Fune/Type wire rope	TEL 4 D.6 RIV.D.8 NERO POL+ETI		
Formazione/Construction	49 FILI		
Senso di avvolgimento	Crociato dx		
Lay direction and type	Right hand Regular Lay		
Classe resistenza/Rope grade daN/mm ²	177 daN/mm ²		
Preformazione/Preformation	Si - Yes		
Massa nominale/Unit mass	0,142 PL (Kg/Metro)		
Diam. fili esterni/Outer wires dia.	0,65 mm		
Fune acciaio/Wire rope	Zincato cl.B - Galvanized Class B		
Carico rottura minimo - MBL	2.510 daN		
GRADO DI EFFICIENZA DELL'APPLICAZIONE/APPLICATION EFFICIENCY			
TESTE FUSE/SOCKETING 1 - PRESSATI/SWAGING	0,9		
Norma/Specification	-		
Richieste extra/Extra requirements			
Carico rottura effettivo	-		
Actual breaking force	-		
Identificazione/Identification	0800191283		

I Prodotti Forniti sono marcati in Accordo DPR 459 del 24/07/1996

REDAELLI TECNA S.p.A. - DIVISIONE TECI
Quality Assurance Dept.

(This document is electronically generated and valid without sign.)





F.lli CAMPION srl

Via A. De Gasperi 45
45025 Fratta Polesine (RO) - Italy
tel. +39.0425.668686 - fax +39.0425.668688
www.palicampion.it - mail@palicampion.it



**LIST OF ELECTRIC MATERIAL EMPLOYED IN MANUFACTURING OF HIGH MAST
WITH MOBILE CROWN art. CM32.5/P
- TROLLEY MOVEMENT -**

CUSTOMER: KROMISS-BIS (POLONIA)
Rif.: C.O. N. 1958/2008

FLOODLIGHTS FEEDING LINE - LINE 1

Q.ty	material	Manufacturer's name and item	Compliance to the standard
N. 1	SOCKET WITH LOCK SWITCH AND FUSE HOLDER BASE - IP65 380V 63A 3P+N+T	ILME Art. KI6365IB5	CEI EN60309-1 E -2 CEI EN60529
N. 1	STRAIGHT MOBILE PLUG TIGHT LOW TENSION - IP67-380V 63A 3P+N+T	ILME Art. PEW6365SV	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2
mt 35	CABLE sez. 5x10 sqmm	ARISTONCAVI / PIRELLI NSHTOU-J 5G10	VDE 0250c8.75 PAR.814
N. 1	DISTRIBUTION BOX (fixed to the mobile crown)	SEE DETAIL	

PALIE TORRI IN ACCIAIO STEEL COLUMNS AND MASTS



F.lli CAMPION srl

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45025 Fratta Polesine (RO) – Italy
tel. +39.0425.668686 – fax +39.0425.668688
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**LIST OF ELECTRIC MATERIAL EMPLOYED IN MANUFACTURING OF HIGH MAST
WITH MOBILE CROWN art. CM32.5/P
- TROLLEY MOVEMENT -**

CUSTOMER: KROMISS-BIS (POLONIA)
Rif.: C.O. N. 1958/2008

FLOODLIGHTS FEEDING LINE – LINE 2

Q.ty	material	Manufacturer's name and item	Compliance to the standard
N. 1	SOCKET WITH LOCK SWITCH AND FUSE HOLDER BASE – IP65 380V 63A 3P+N+T	ILME Art. KI6365IB5	CEI EN60309-1 E -2 CEI EN60529
N. 1	STRAIGHT MOBILE PLUG TIGHT LOW TENSION - IP67-380V 63A 3P+N+T	ILME Art. PEW6365SV	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2
mt 35	CABLE sez. 5x10 sqmm	ARISTONCAVI / PIRELLI NSHTOU-J 5G10	VDE 0250c8.75 PAR.814
N. 1	DISTRIBUTION BOX <i>(fixed to the mobile crown)</i>	SEE DETAIL	

PALIE TORRI IN ACCIAIO STEEL COLUMNS AND MASTS



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**LIST OF ELECTRIC MATERIAL EMPLOYED IN MANUFACTURING OF HIGH MAST
WITH MOBILE CROWN art. CM32.5/P
- TROLLEY MOVEMENT -**

CUSTOMER: KROMISS-BIS (POLONIA)
Rif.: C.O. N. 1958/2008

DISTRIBUTION BOX (for L1 and L2)

Q.ty	material	Manufacturer's name and item	Compliance to the standard
N. 1	MODULAR BOX COMPLETED WITH BOTTOM PLATE	G.E. Art. APO 31	IEC529
N. 1	TERMINAL BOARD MADE WITH TERMINALS OF DIFFERENT SECTIONS <i>(see "sche.ele.cab." enclosed)</i>	CABUR	Vedi catalogo.
N. 1	FIXED PLUG AT 90° TIGHT LOW TENSION - IP67-380V 32A 3P+N+T	PALAZZOLI Art. 476426	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2
N. 1	PROTECTION COVER	PALAZZOLI Art. 476925	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2

SAFETY DEVICE

Q.ty	material	Manufacturer's name and item	Compliance to the standard
N. 1	LEVER SWITCH LIMITER	COMEPI BM1E71Z11	CENELEC EN50041
mt 1.5	NEOPRENE CABLE 3x1.5 sqmm	PIRELLI N07RN-F	CEI 20-19 CEI20-35 CENELEC HD22.4 S2
N. 1	MOBILE PLUG STRAIGH, TIGHT LOW TENSION - IP67-110V 16A 2P+T	GEWISS GW60023	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2

PALI E TORRI IN ACCIAIO STEEL COLUMNS AND MASTS



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**LIST OF ELECTRIC MATERIAL EMPLOYED IN MANUFACTURING OF HIGH MAST
WITH MOBILE CROWN art. CM32.5/P
- TROLLEY MOVEMENT -**

CUSTOMER: KROMISS-BIS (POLONIA)
Rif.: C.O. N. 1958/2008

THE SAFETY DEVICE IS LOCATED INSIDE THE OPENING AT THE BASE OF THE SHAFT AND IF HAS TO BE WIRED DURING MAINTENANCE PHASES TO THE PURPOSE MADE SOCKET PROVIDED ON THE HOISTING UNIT.
SUCH DEVICE WILL ADJUST THE HOOKING - UNHOOKING OF THE MOBILE CROWN TO THE TRAILING HEAD.

*N.B. THE SUPPLY INCLUDES 1 EXTENTION FOR FLOODLIGHTS TEST AT GROUND ,
LOCATED ON HOISTING UNIT art. P1000/C/32/R.*

EXTENTION FOR FLOODLIGHTS TEST AT GROUND

Q.ty	material	Manufacturer's name and item	Compliance to the standard
N. 1	STRAIGHT MOBILE PLUG, LOW TENSION - IP67-380V 63A 3P+N+T	ILME Art. PEW6365SV	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2
mt 5	CABLE sez. 5x6 mmq	N07RN-F 5G6	CEI 20 - 19 CEI 20 - 35
N. 1	MOBILE SOCKET STRAIGHT, LOW TENSION - IP67-380V 32A 3P+N+T	ILME Art. PEW3265PV	CEI EN60309-1 IEC60309-1 CEI EN60309-2 IEC60309-2

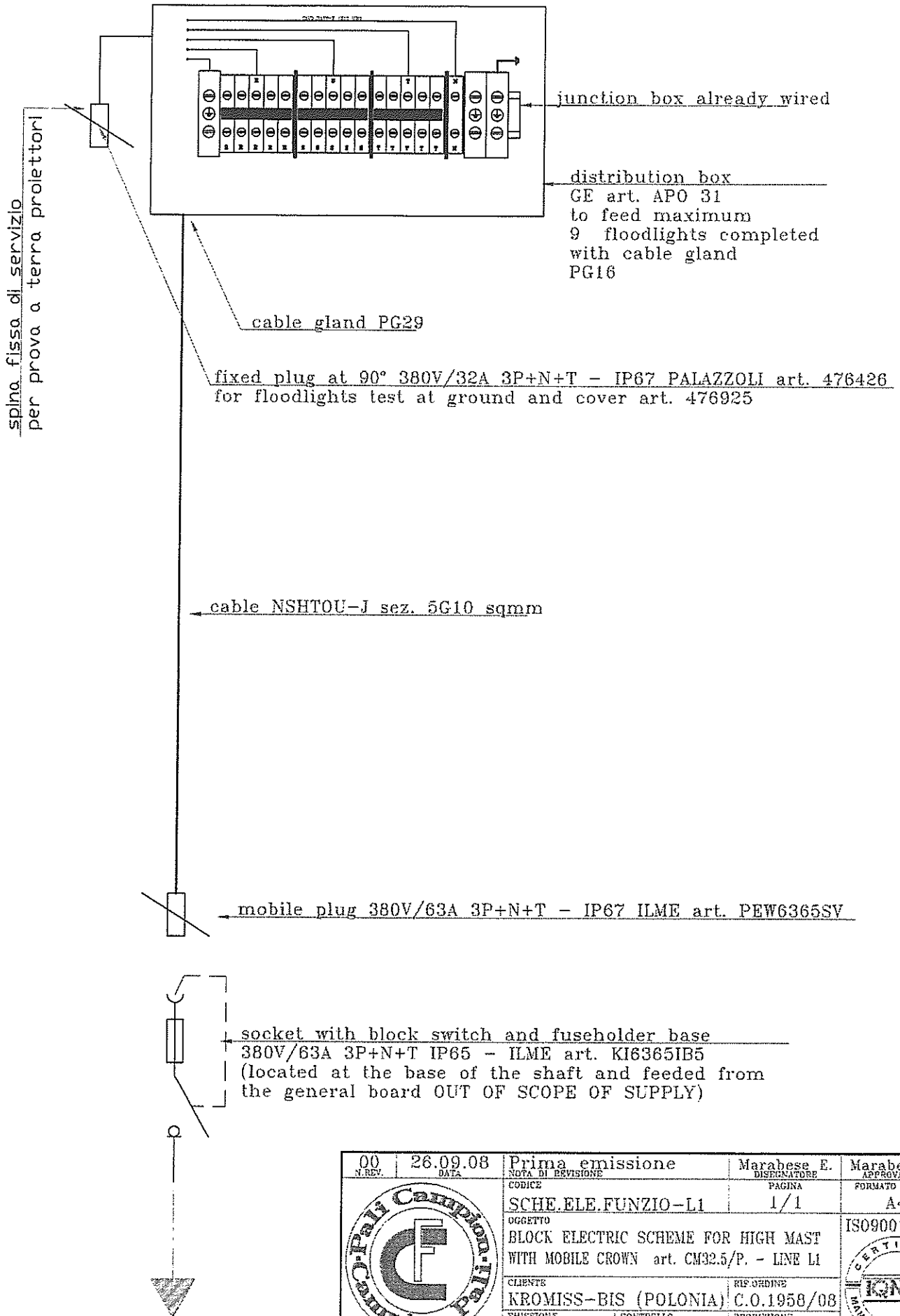
Enclosed :

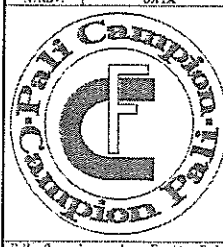

- Block electric scheme "sche.ele.funzio.";
- Terminal board wiring scheme "sche.ele.cab.";
- Certificate of conformity of electric cable .

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ELECTRIC SCHEME FOR HIGH MASTA WITH MOBILE CROWN mt 32.5 a.g.

- FLOODLIGHTS FEEDING - LINE 1 -



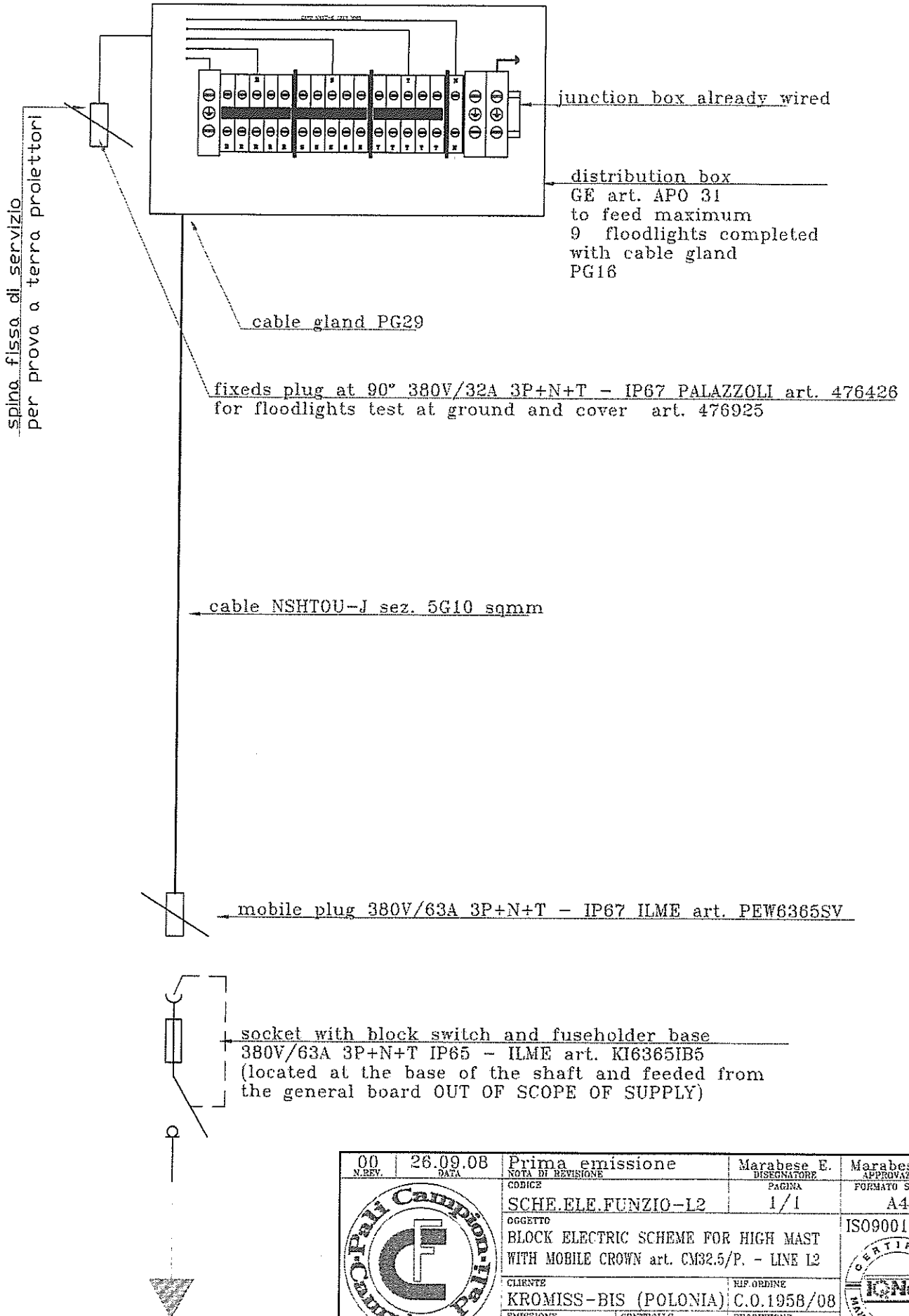
00 N.REV.	26.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
		CODICE SCHE.ELE.FUNZIO-L1	PAGINA 1/1	FORMATO STAMPA A4
		OGGETTO BLOCK ELECTRIC SCHEME FOR HIGH MAST WITH MOBILE CROWN art. CM32.5/P. - LINE L1	ISO9001:2000 	
		CLIENTE KROMISS-BIS (POLONIA)	RIF.ORDINE C.O.1958/08	
		EMISSIONE	CONTROLLI	PRODUZIONE
P.lli Campion srl - Frotta Pol. RO ITALY - Tel 0425663606 - Fax 0425669600 - mail@palicampion.it - www.palicampion.it				

TO THE GENERAL BOARD



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ELECTRIC SCHEME FOR HIGH MASTA WITH MOBILE CROWN mt 32.5 a.g.

- FLOODLIGHTS FEEDING - LINE 2 -



AL QUADRO GENERALE

00 N.REV.	26.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
		CODICE SCHE.ELE.FUNZIO-L2	PAGINA 1/1	FORMATO STAMPA A4
		OGGETTO BLOCK ELECTRIC SCHEME FOR HIGH MAST WITH MOBILE CROWN art. CM32.5/P. - LINE L2	ISO9001:2000 	
		CLIENTE KROMISS-BIS (POLONIA)	RIF.ORDINE C.O.1958/08	
		EMISSIONE	CONTROLLATO	PRODUZIONE
Pali Campion srl - Pratta Pol. BO ITALY - Tel 0425669600 - Fax 0425669609 - mail@palicampion.it - www.palicampion.it				



ARISTONCAVI



ISO 9001:2000 n. 9125.ARIS

Laboratorio di Prova

ARISTONCAVI S.p.A.
Via Luigi Einaudi, 8
36040 BRENDOLA
VICENZA – Italy

<http://www.aristoncavi.com>
e-mail : g.coaro@aristoncavi.com
Tel : 0444 749900
Fax : 0444 749800

DICHIARAZIONE DI CONFORMITA'
DECLARATION OF CONFORMITY n. 463/2007

Mod 086.0

Cliente – Customer :

F.LLI CAMPION SRL
VIA A. DE GASPERI NR.45
45025 FRATTA POLESINE (RO)

Ordine – Order n. :
M/000529/07 issued on 17/04/2007

Materiale – Material :
NSHTÖU-J 0,6/1kV 5x4 mm² NERO

Meters : 520

Destinazione del materiale – Delivery point :

F.LLI CAMPION SRL
VIA A. DE GASPERI NR.45
45025 FRATTA POLESINE (RO)

Con il presente si attesta che, presso il nostro laboratorio sono state eseguite le prove di collaudo del materiale fornito a fronte dell'ordine di acquisto da Voi conferitoci. Visto l'esito delle prove suddette, si certifica che il materiale in oggetto e' conforme a quello richiesto nel vostro Ordine e alle seguenti prescrizioni.

We herewith state that our laboratory has tested the material we are supplying you as per the purchase order you placed with us. On the basis of the results of above tests, we certify that the material in object complies with the goods requested under your order and also complies with the following regulations :

Norme – Standars :
CEI 20-29 (IEC 228) Classe 5 ; DIN VDE 0250 Teil 814

Note – Remarks :
ORV 07 1159 – ORD. PROD. (Work number) OPR 07 3014

Documento di spedizione – Shipment number :
BOV 07/004942 del 30/11/2007

Data – Date :
06/12/2007

Sign Quality Control Head



Funi Attrezzature per sollevamento SpA



Sede legale: Milano - Via S. Primo, 4
Capitale Sociale € 520.000,00
Trib. di Milano 195276-5505-26
C.C.I.A.A. Milano 1042062
Cod. Fiscale 05854380150
Partita I.V.A. 05854380150

DICHIARAZIONE DI CONFORMITA'

ai sensi della Direttiva Macchine 98/37/CE – Allegato II A

La F.A.S. S.p.A. sotto la propria responsabilità dichiara che il seguente paranco:

Tipo paranco: KF25S1
Portata: 250
Matricola: 76035
Anno: 2007

è nuovo di fabbrica ed è conforme alle seguenti direttive comunitarie :

- Direttiva Macchine 98/37/CE
- Direttiva bassa tensione 73/23 CEE
- Direttiva Compatibilità Elettromagnetica 89/336 CEE – 92/31 CEE

ed è conforme alle seguenti Norme Armonizzate e Norme Nazionali :

Norme armonizzate :

- ⇒ EN-292 parte 1 e 2 (sicurezze del macchinario)
- ⇒ EN-60204-1 (sicurezza degli equipaggiamenti)
- ⇒ EN-60439-1 (apparecchiatura elettriche in b.t.)
- ⇒ EN-50081-1.2 (compatibilità elettromagnetica – emissioni)
- ⇒ EN-50082-1.1 (compatibilità elettromagnetica – immunità)
- ⇒ EN-418 (arresti di emergenza)

Norme nazionali e regole tecniche :

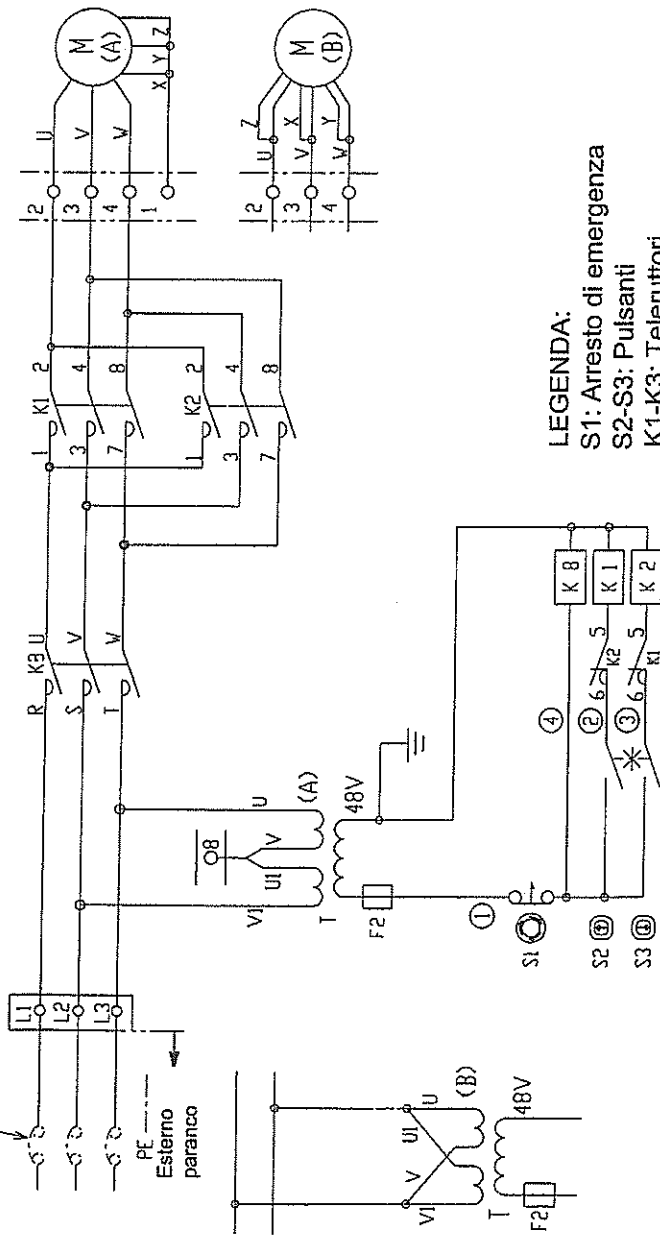
- ⇒ FEM 9.511 (classificazione dei meccanismi)
- ⇒ FEM 9.681 (scelta dei motori di sollevamento)
- ⇒ FEM 9.682 (scelta dei motori di sollevamento)
- ⇒ FEM 9.761 (limitatore di carico)
- ⇒ FEM 9.941 (simbologia dei comandi)
- ⇒ FEM 9.755 (periodo di lavoro sicuro S.W.P.)
- ⇒ FEM 9.811 (specifiche dei paranchi elettrici)

Si dichiara inoltre che, conformemente all'allegato V della Direttiva Macchine :

- La marcatura CE è apposta sulla macchina .
- Il fascicolo tecnico è a disposizione presso la sede del Fabbricante.

Cinisello Balsamo, 25/10/2007

Prevedere sezionatore con fusibili o interruttore magnetotermico come indicato nel Manuale d'Istruzione



LEGENDA:

- S1: Arresto di emergenza
- S2-S3: Pulsanti
- K1-K3: Teleruttori
- K8: Teleruttore di linea
- T: Trasformatore
- F2: Fusibile
- *: Blocco meccanico
- (H): Basetta paranco
- ①-④: Numerazione cavo pulsantiera

Alimentazione

(A)	(B)
400 V 230 V	50 Hz - 3 fasi
440 V 255 V	50 Hz - 3 fasi
440 V 255 V	60 Hz - 3 fasi
460 V 265 V	60 Hz - 3 fasi

Apparecchiatura B.T.: 48 V

PARANCO

KF25S1/1G	KF50S1/1G	KF100S1/1G
KF25S2/1G	KF50S2/1G	KF100S2/1G
KF25S1/2	KF50S1/2	KF100S1/2
KF25S2/2	KF50S2/2	KF100S2/2
KF25S1/2S	KF50S1/2S	KF100S1/2S
KF25S2/2S	KF50S2/2S	KF100S2/2S

E6RR010P99223



SCHEMA ELETTRICO PARANCHI

PROV.	DATA	NAME	SCALE	SHEET N°
23.10.02	S. Scarpetta			1/1

PROV.	DATA	DESCRIPTION	FILE	JOB N°
			SE0066	
			SE0066	



Funi Attrezzature per sollevamento SpA



Sede legale: Milano - Via S. Primo, 4
 Capitale Sociale € 520.000,00
 Trib. di Milano 195276-5505-26
 C.C.I.A.A. Milano 1042062
 Cod. Fiscale 05854380150
 Partita I.V.A. 05854380150

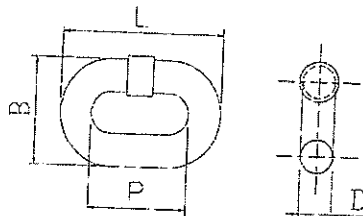
CERTIFICATO CATENE PARANCHI

(Attestato in base al comma 4 dell'allegato al D.P.R. 673 DEL 21.07.1982)

Certificate hoist chain/Certificat de la chaîne du palan/Bescheinigung hebezeugkette

Costruttore/Purchaser/Constructeur/Hersteller : KITO Corporation, Yamanashi Japan
 Distributore/Distributor/Distributeur/Händler : F.A.S. S.p.A. Via dei Lavoratori, 118/120 Cinisello B.mo (MI)

Dimensioni nominali/Characteristic values/Dimensions nominales/Nennabmessungen



	Diametro nominale Nominal diameter Diamètre nominal Nenndurchmesser	Passo Pitch Pas Teilung	Lunghezza esterna Outside length Longueur extérieure Aussenlänge	Larghezza Width Largeur Breite	Peso Weight Poids Gewicht
	D (mm)	P (mm)	L (mm)	B (mm)	Kg/m
Valore Characteristic values Valeur Wert	5.0	15.0	25.0	18.0	0.55
Tolleranze Permanent deviation Tolérance Abweichung	+/- 0.2	+0.29/-0	/	/	/

Metodo di saldatura	: induzione	Trattamento termico	: indurimento superficiale e bonifica
Method of welding	: resistance butt welding	Heat treatment	: case hardened and temper
Méthode de soudure	: par induction	Traitement thermique	: durcissement superficiel et bonification
Schweißverfahren	: induktionsschweissen	Wärmebehandlung	: einsatzgehartete und vergütung

- ◆ Carico di rottura minimo/Breaking force/Force de rupture/Bruchlast: kN 31,50
- ◆ Carico massimo di lavoro/Working load limit/Capacité de levage/Max. betriebslast: Kg 500 (2m - M5)
- ◆ Carico di prova/Manufacturing proof force/Charge d'essai/Prüflast: kN 20,00
- ◆ Allungamento totale minimo a rottura/Total ultimate elongation/Allongement avant rupture/Bruchdehnung: 10%
- ◆ Norme di riferimento/Manufactured to/Norme de référence/Hergestellt nach : EN 818/7 - ISO 3077
- ◆ Prove sulla catena/Proof test on chain/Essais effectués sur la chaîne/Prüfungen der kette: EN 818/1-7
- ◆ Esito delle prove/Result of tests/Résultat des essais/Ergebnis der prüfung: Positivo-Faultless-Positif-Fehlerfrei

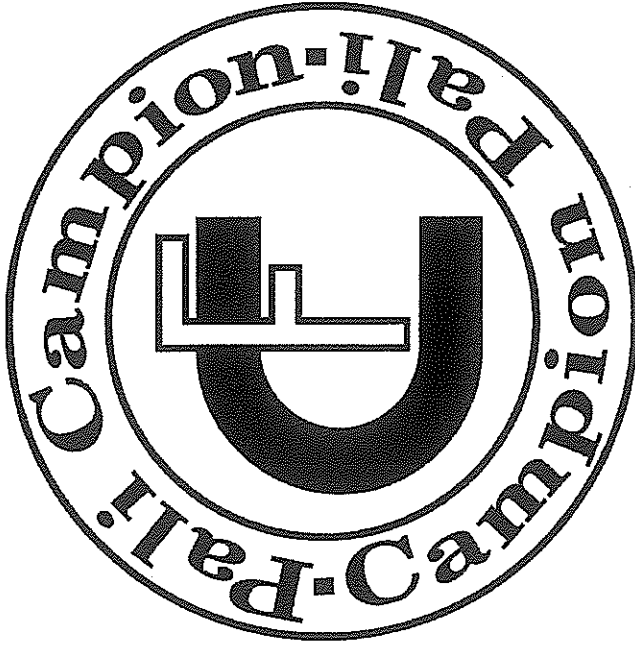
Cinisello Balsamo, 11/09/2008

F.A.S. S.p.A.
 Funi e Attrezzature per il Sollevamento

RESPONSABILE PRODOTTO
 FABIO SOMMA

F. Somma

CE



ASSEMBLING AND MAINTENANCE INSTRUCTIONS FOR HIHG MAST WITH MOBILE CROWN
- TROLLEY MOUNTED SYSTEM -

Type CM32.5/P

F.lli Campion srl

Via A. de Gasperi, 45 B, 45025 Fratta Polesine (RO) ITALY
☎ (0039) 425/668686 (r.a) fax (0039) 425/668688
<http://www.palicampion.it>
mail @palicampion.it



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Via A. De Gasperi 45
45025 Fratta Polesine (RO) – Italy
tel. +39.0425.668686 – fax +39.0425.668688
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UNLOADING AND STOCKING OF HIGH MAST

UNLOADING

Unloading must be carried out with a suitable device (see page 1 for loads of the elements and safety schedule 1 of the safety plane).

STOCKING

Elements, trailing head, mobile crown, brackets and structural iron works, can be stocked outside

Trolley mounted electric unit, door, distribution box, bolts and nuts must be stocked in a dry and covered place.

IMPORTANT

THE TROLLEY MOUNTED ELECTRIC UNIT, WHEN NOT USED, MUST ALWAYS BE KEPT UNDER DECK AND IN A DRY PLACE



F.lli CAMPION srl

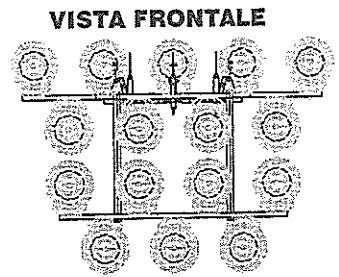
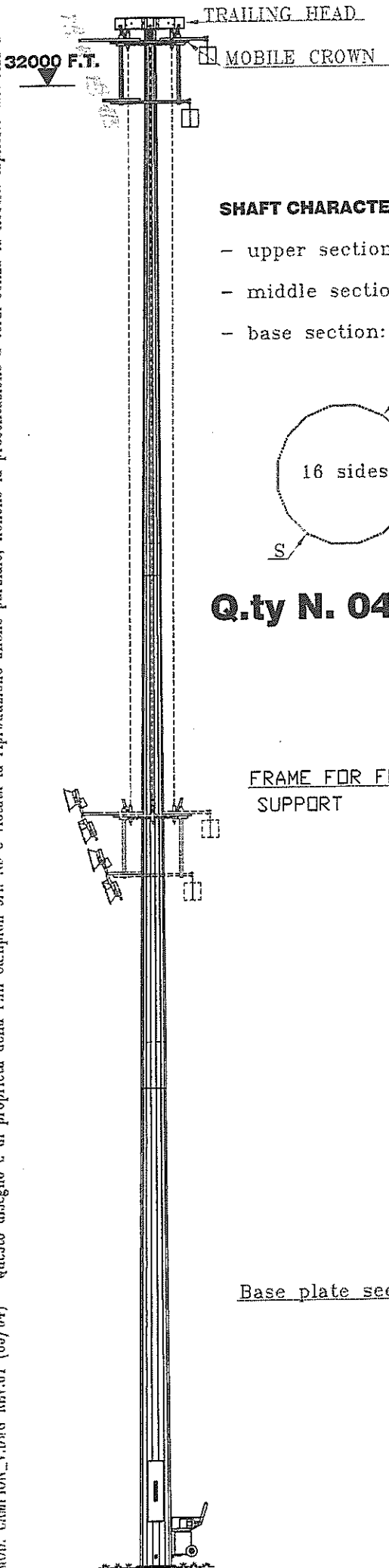
Via A. De Gasperi 45
45025 Fratta Polesine (RO) - Italy
tel. +39.0425.668686 - fax +39.0425.668688
www.palicampion.it - mail@palicampion.it



SUMMARY

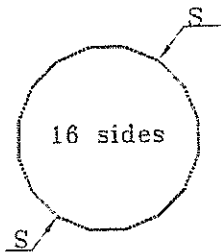
- **WORKSHOP DRAWING**
- **SEZIONE A OPERATION INSTRUCTIONS**
- **SECTION B HOISTING ROPES ADJUSTING**
- **SECTION C *MOVEMENT AND FINAL ADJUSTING***
- ***WARNING***
- ***MAINTENANCE HANDBOOK FOR HIGH MAST WITH MOBIEL CROWN***

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SHAFT CHARACTERISTICS FOR CM32.5/P MAST:

- upper section: length 11100; D.405; d.240; sp.4; overlapping 700
- middle section: length 11800; D.558; d.383; th.4; overlapping 1000
- base section: length 11300; D.700; d.532; th.5



DIMENSIONS IN MILLIMETRES

- S = longitudinal MAG welding
- top section n. 1 welding
 - middle section n. 2 welding
 - base section n. 2 weldings

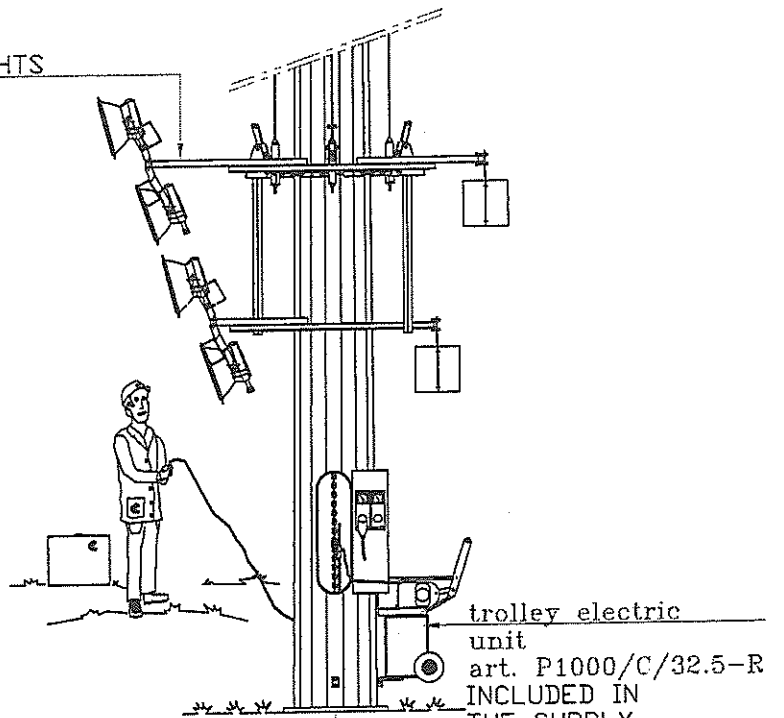
Material:
steel grade S355J0 EN10025 (Fe510C)

Q.ty N. 04

Protection:
BLANK

MOVEMENT DETAIL

FRAME FOR FLOODLIGHTS SUPPORT

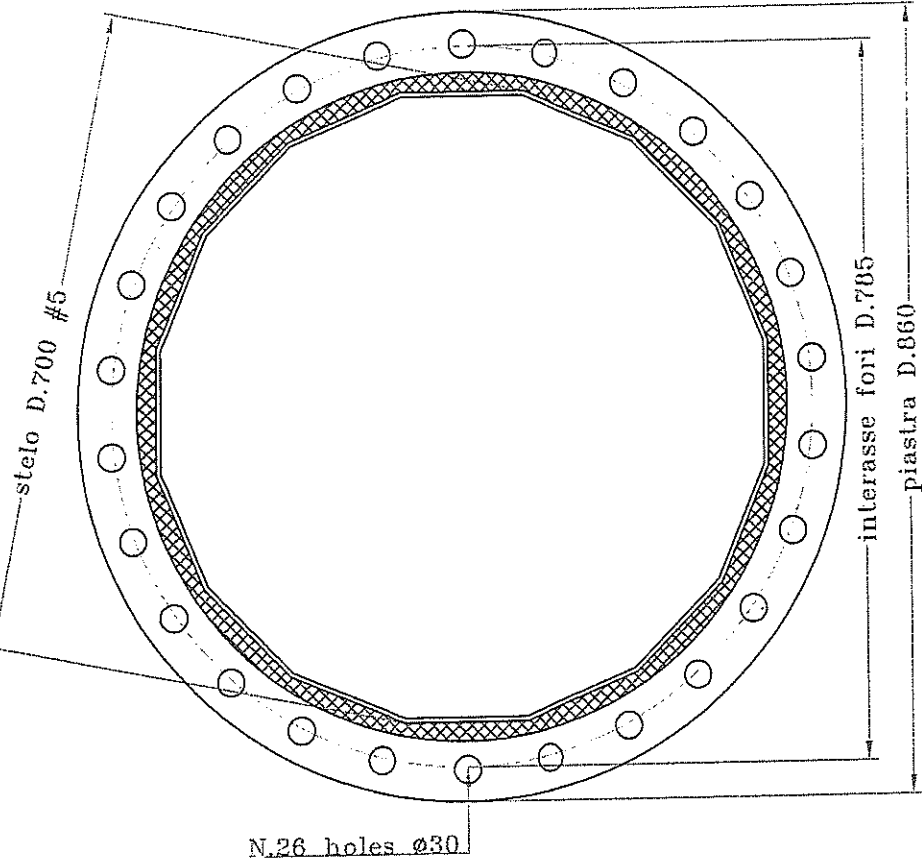


Base plate see detail page 2

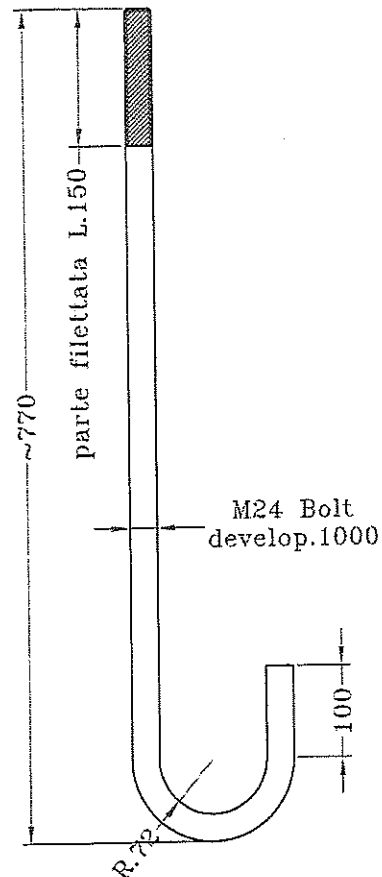
00 N.REV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
CODICE		CM32.5/P 1958-08	PAGINA	FORMATO STAMPA
			1/___	A4
OGGETTO		torre portafari a corona mobile mt 32.5 f.t. su piastra di base per illuminazione impianto elettrico		ISO9001:2000
CLIENTE		KROMISS-BIS (POLONIA)		
EMISIONE		RIP.ORDINE C.O.1958/08		
CONTROLLO		PRODUZIONE		
F.lli Campion srl - Fratta Pst. RD ITALY - Tel 0425366646 - Fax 0425669668 - mail@policampion.it - www.policampion.it				

MOD. CAMPION_V.DWG REV.01 (09/04) - Questo disegno è di proprietà della F.Hi Campion srl. Ne è vietata la riproduzione anche parziale, nonché la presentazione a terzi senza la nostra esplicita autorizzazione.

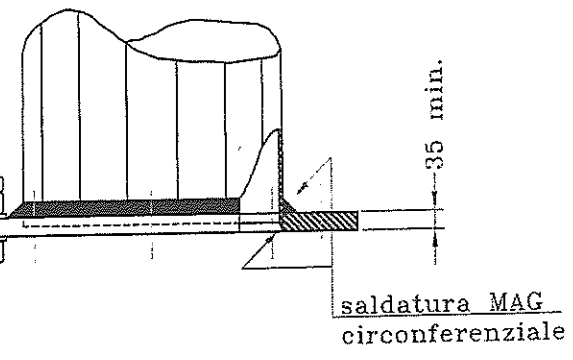
BASE PLATE WORKSHOP DETAIL



Dimension detail for anchor bolts M24
OUT OF SCOPE OF SUPPLY



- σ middle nut M24
OUT OF SCOPE OF SUPPLY
- σ high nut M24
OUT OF SCOPE OF SUPPLY
- σ plane washers
OUT OF SCOPE OF SUPPLY
- σ M24 high nuts
OUT OF SCOPE OF SUPPLY
- σ M24 anchor bolts hooked
type development 1000 with
threaded part length 150
OUT OF SCOPE OF SUPPLY



DIMENSIONS IN MILLIMETRES

- Materials:
- plate S355J0 EN10025 (Fe510C) OUT OF SCOPE OF SUPPLY
 - bolts S355J0 EN10025 (Fe510C) OUT OF SCOPE OF SUPPLY
 - bolts and nuts class 8.8 OUT OF SCOPE OF SUPPLY

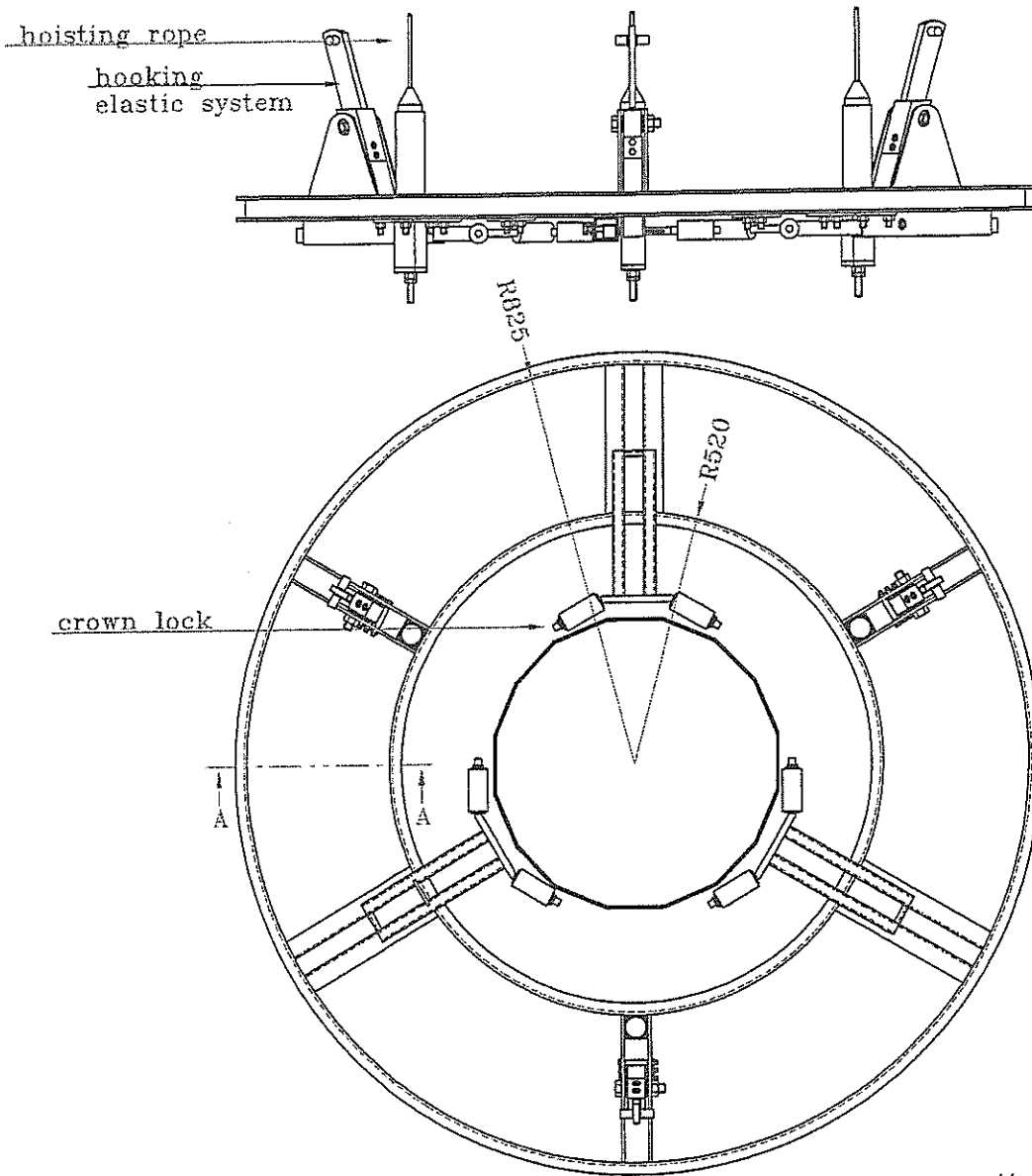
Protection
 - plate (and column) HOT DIP GALVANISED

Q.ty N. 04 plates

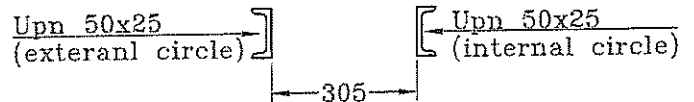
00 N.EV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
		CODICE	PAGINA	FORMATO STAMPA
		PIA.BA.	2/14	A4
		OGGETTO	ISO9001:2000	
		high mast with mobile crown mt 32.5 f.t. art. CM32.5/P. - ANCHOR BOLTS AND BASE PLATE DETAIL -		
		CLIENTE	RIP.ORDINE	
		KROMISS-BIS (POLONIA)	C.O.1958/08	
		EMISSIONE	PRODUZIONE	
		CONTROLLO		

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MOBILE CROWN



section A - A



DIMENSIONS IN MILLIMETRES

Material:
steel grade S235JR EN10025 (Fe360B)

Protection:
HOT DIP GALVANISATION

mobile crown N. 04

crown lock N. 12

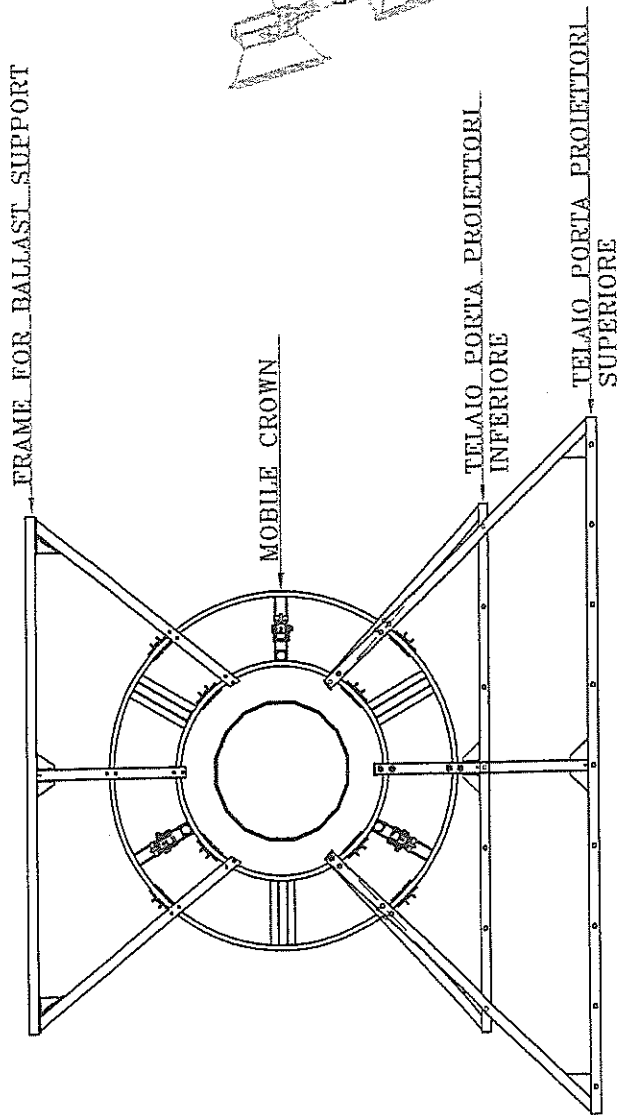
PREPARED FOR N. 2 LINES FOR FLOODLIGHTS FEEDING

- LINE 1 SECTION 5G10 mmq
- LINE 2 SECTION 5G10 mmq

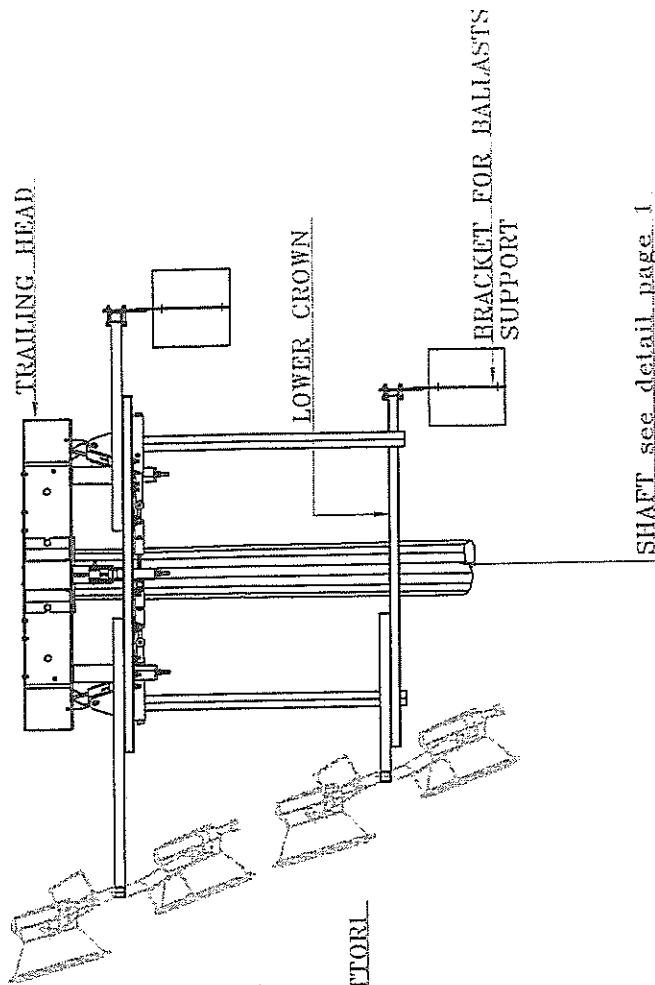
00 N.REV.	23.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
		CODICE	PAGINA	FORMATO STAMPA
		CORONAMOBILECM	4 / ---	A4
		OGGETTO	ISO9001:2000	
		torre portafari a corona mobile mt 32,5 I.L. art. CM32,5/P - COMPLESSIVO CORONA MOBILE -	CERTIFIED Net MANAGEMENT SYSTEM	
		CLIENTE	RIF.ORDINE	
		KROMISS-BIS (POLONIA)	C.O.1958/08	
		EMISIONE	CONTROLLO	PRODUZIONE
F.lli Campion srl - Frotta Pol. RO ITALY - Tel 0425663606 - Fax 0425663989 - mail@policampion.it - www.policampion.it				

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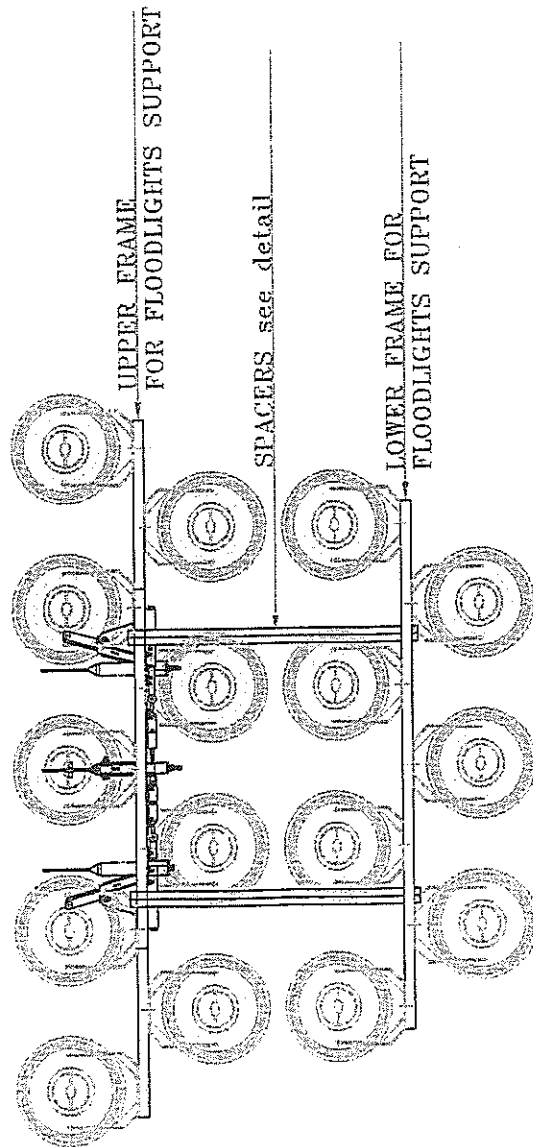
TOP VIEW



SIDE VIEW



FRONT VIEW

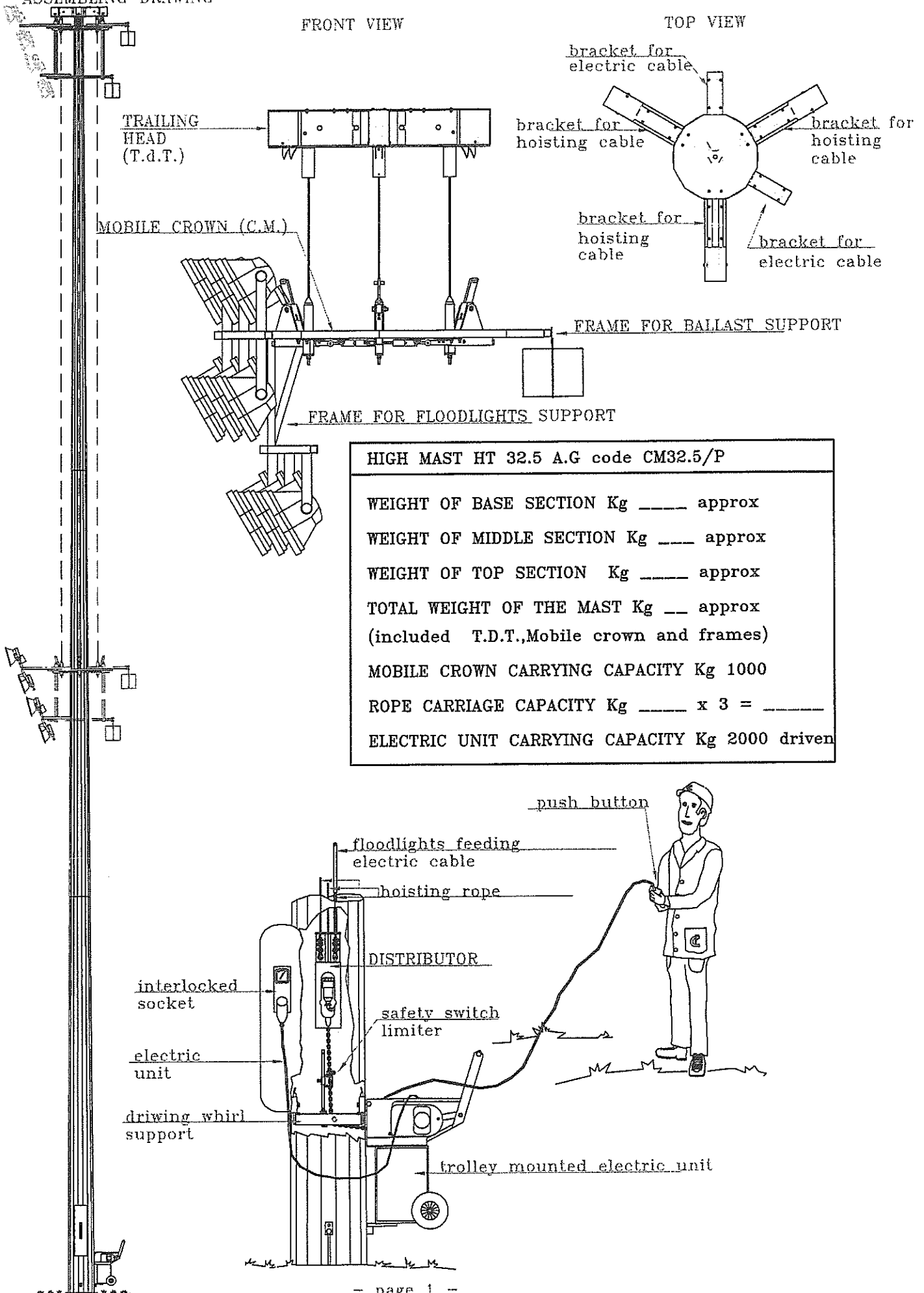


00 N. REV.	25.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DESIGNAZIONE FIGURA	Marabese E. FORNITORE FORNITURA
		DEMOM	5/	A4
		OGGETTO: high mast with mobile crown mt 32.5 a.g. art. CM25/1 - FRAME FOR FLOODLIGHTS SUPPORT -		ISO9001:2001
		CLIENTE KROMISS-BIS (POLONIA)	TRF.ORDINE C.O.1958/08	
		EMISSIONE CONTROLLO	PROTEZIONE	
F.lli Campion srl - Fraitto Tol. RO ITALY - Tel 0425668000 - Fax 0425668000 - mail:f.lli@campion.it - www.f.lli.componi.it				

ASSEMBLING DRAWING

FRONT VIEW

TOP VIEW



HIGH MAST HT 32.5 A.G code CM32.5/P	
WEIGHT OF BASE SECTION Kg	_____ approx
WEIGHT OF MIDDLE SECTION Kg	_____ approx
WEIGHT OF TOP SECTION Kg	_____ approx
TOTAL WEIGHT OF THE MAST Kg	__ approx (included T.D.T., Mobile crown and frames)
MOBILE CROWN CARRYING CAPACITY Kg	1000
ROPE CARRIAGE CAPACITY Kg	_____ x 3 = _____
ELECTRIC UNIT CARRYING CAPACITY Kg	2000 driven

OPERATING INSTRUCTIONS

SECTION 9

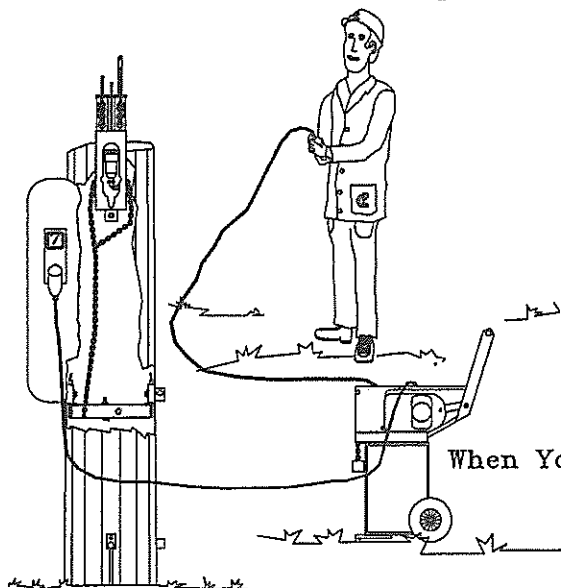
A.1 Connect feeding cable to the socket at the base of the shaft.

A.2 Before You hook the trolley mounted electric unit proceed with the following instructions (dis. 36):

- Feed the hoist, connecting it to the socket.
- connect the safety socket to the switch limiter;
- Verify the correct sequence of the phases.

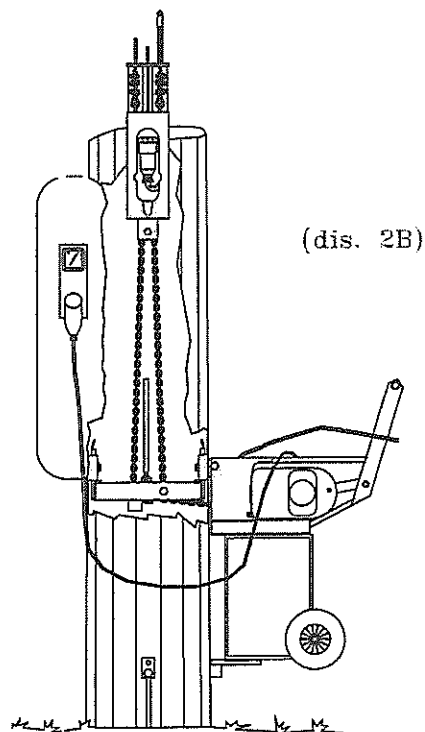
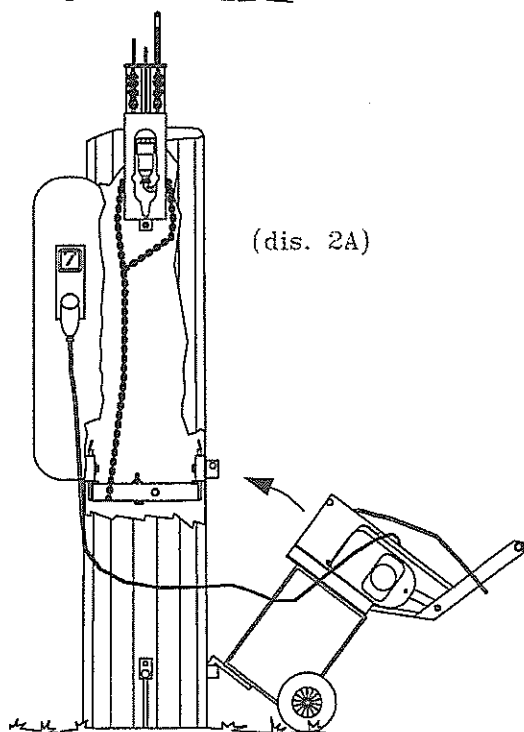
(ot on the contrary if You press "DISCESA" "DOWN" chain must go outside the hoist).

You have to invert the "IN" phases on the socket



When You have verified the above proceed as follow:

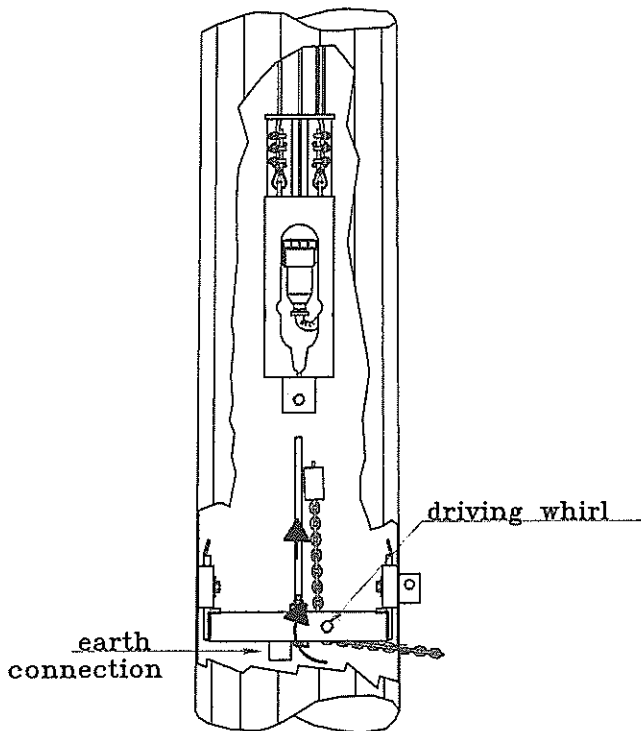
A.3 Feed the hoist and let
mt 1.5 - 2 chain come out



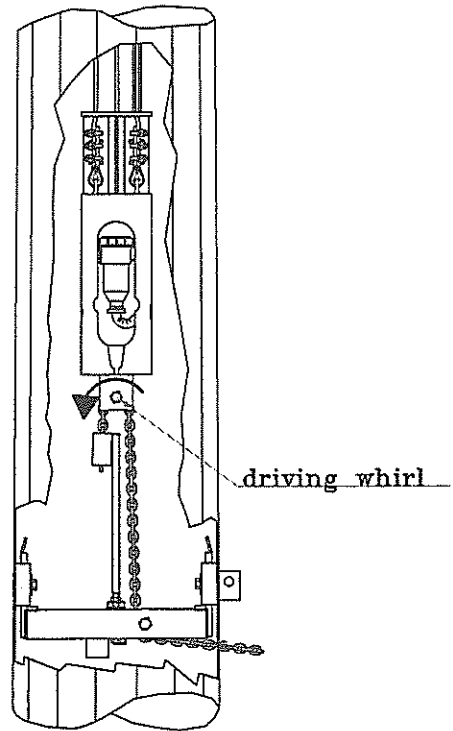
A.4 Hook the unit to the shaft locking it with the purpose made screw (dis. 2A e 2B).

A.5 Put the distributor under stress (pressing "SALITA" "UP") so that the safety chain fixed to the distributor is not more under stress.
Now the safety chain has to be taken out and the Mobile Crown remain suspended due to the electric hoist (whose chain is fixed to the distributor).

PHASE A



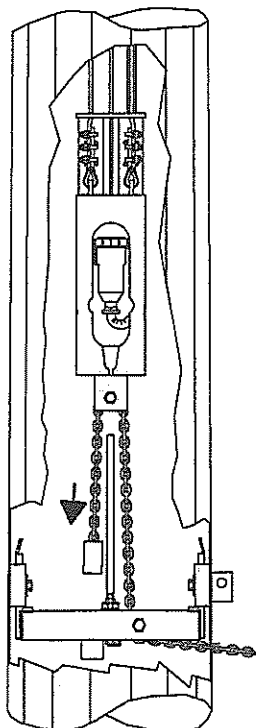
PHASE B



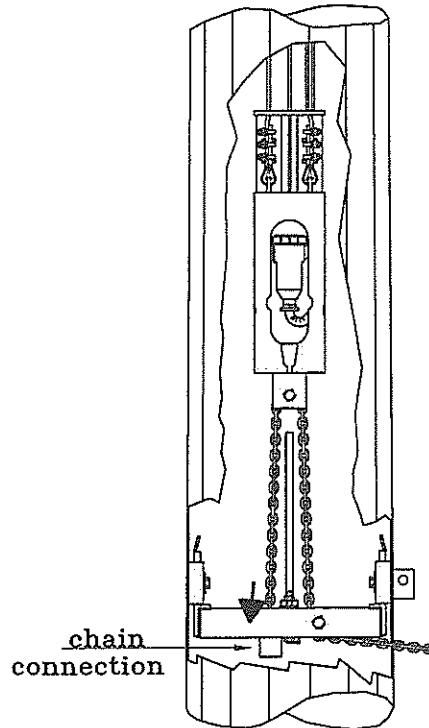
PHASE A: pass the chain through the driving whirl installed on the high mast

PHASE B: pass the chain through the driving whirl installed on the distributor

PHASE C



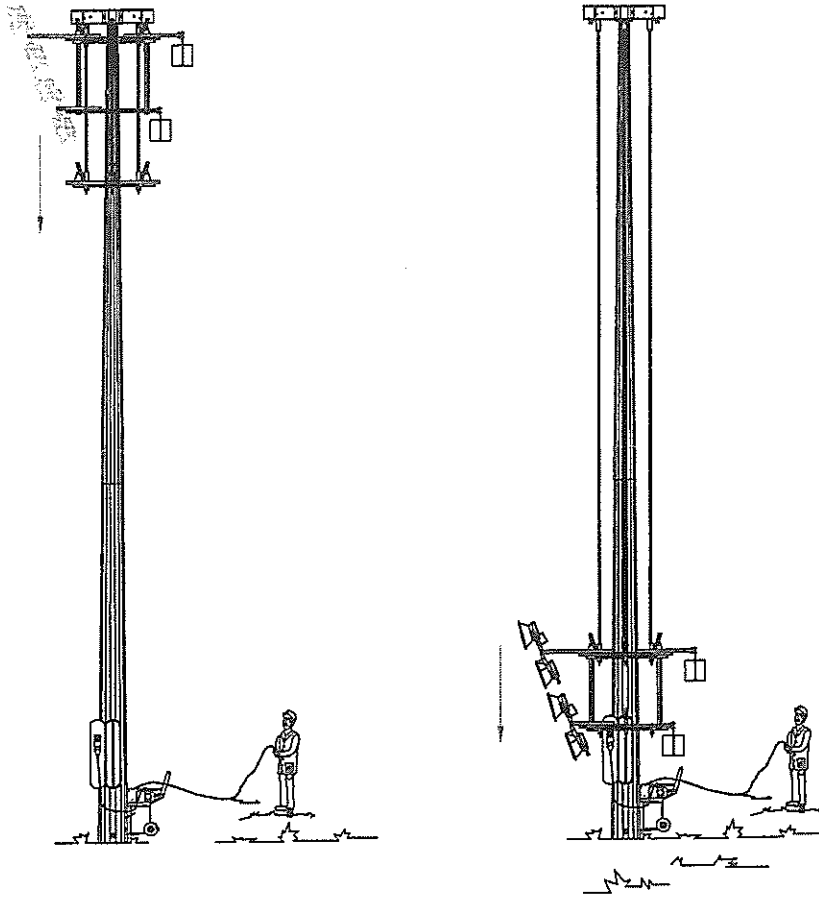
PHASE D



PHASE C: Lower the chain towards the driving whirl support

PHASE D: insert the chain into the groove of the driving whirl support

DURING THE ABOVE MENTIONED OPERATIONS THE CHAIN MUST HAVE ITS MESHES ALWAYS AT AN RIGHT ANGLE



- To carry out the following operations, do not stay under the mobile crown and make the following to unhook and lower the Mobile Crown:
 - Push "UP" (SALITA) on the press button which acts the electric unit until the switch (which locks the unit) acts;
 - Push "DOWN" (DISCESA) to lower the mobile crown
- Make the maintenance mentioned by us (see WARNING) and/or of the floodlights to this purpose use the extention for floodlights test at ground included with the trolley mounted electric unit, and follow the instructions mentioned in section 6.
- When maintenance has been done proceed as follow to raise and lock the crown
 - Push "UP" (SALITA) until the distributor appears on the opening door;
 - Wait a little bit to let the Crown adjust;
 - From now on proceed in the raising by "clicking" until the distributor arrives at approx 10 cm from the switch lever;
 - Then proceed with a continous raising until the switch lever acts locking the electric hoist (this coincide with the click of the connecting rods which arrive into their groove) ;
 - Push "DOWN" (DISCESA) to hook the Mobile Crown to the Trailing head
Now, due to the hooking between Mobile crown and trailing head the three ropes are released and the distributor will be free either at sight (the distributor will spin around itself) and also when You will check it nad the ropes (You have to verify that all is free)
- Take the chain of the electric unit out of the distributor
- Take out the trolley unit out of the shaft, take out the feeding plug, the safety switch limiter and close the door
- Pass the safety chain through the distributor and fix it to the drving whirl support
- Feed the floodlights, inserting the CEE plugs on their sockets and close the switch
- Close the door



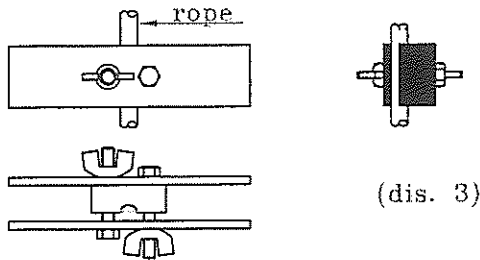
If all the three connection rods don't hook, when You push "DOWN" (DISCESA) to hook the mobile crown, since one or more hosting ropes o più are not released for the weight of the crown itself, the distributor will tilt towards the rope/s which is/are still under stress; You have therefore act on "UP" (SALITA) and "DOWN"(DISCESA) buttons to unhook the connecting rod still hooked

Lower the Mobile Crown and repeat the adjusting of the ropes (section 7).
If the connecting rods do not hooks it is surely because the ropes are properly adjusted

ROPE ADJUSTING

SECTION B

B.1 First instruction of the section is that all the below mentioned operations are made always from the same operator. These operations are between the most important ones, and if they are properly executed the working of the mast won't have any problem in the future.



B.2 If the Crown when loaded, is unbalanced level it acting on the 3 tie rods.

B.3 take the three ropes adjuster (dis. 3).

B.4 Fix well the 3 rope adjusters on the ropes at approx 70 - 80 cm from the base of the centering pivot (dis. 4).

B.5 Raise the mobile crown until You see the distributor appears on the opening door at the base. When the distributor appears the ropes adjuster stroke on the pivots of the trailing head.

B.6 Lower the Mobile Crown

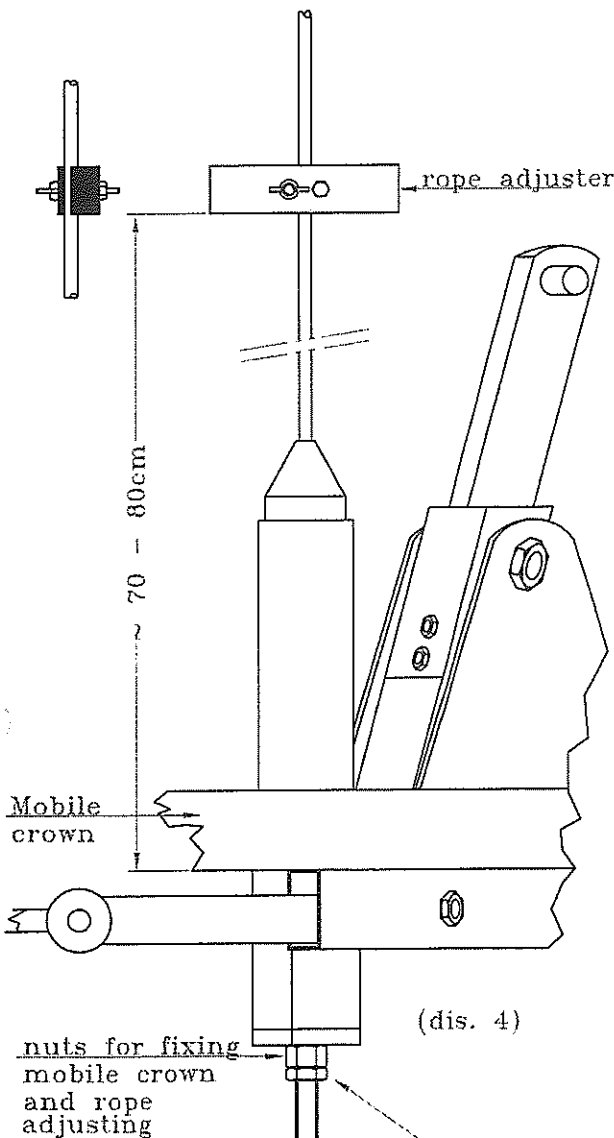
B.7 Measure the distance that You have now between the rope adjuster and the base of the centering pivot or any other reference point, provided that this reference is always the same on all the measure taken on all other ropes.

B.8 The different measures that You may find must be levelled tightening or untightening the nuts of the Mobile Crown.

B.9 Repeat the operation described from item B.4 to item B.8. When You take the new measures, You should not find any difference, and if You find it they should be only few mm and they must be levelled.

B.10 TAKE OUT THE THREE ROPE ADJUSTER (Don't forget them fixed on the ropes otherwise the Mobile crown doesn't work properly).

N.B. IF DURING THE MEASURES TAKEN IN ITEM 7.9 YOU WILL FIND BIG DIFFERENCES BETWEEN THE DISTANCES OF THE THREE ROPES, MAY BE THAT ONE ROPE ADJUSTER HAS LOOSED REPEAT THE ADJUSTING OPERATIONS



acts on these nuts to level the difference in length between three ropes

ADJUSTING EXPAMPLE

You find the following measures:

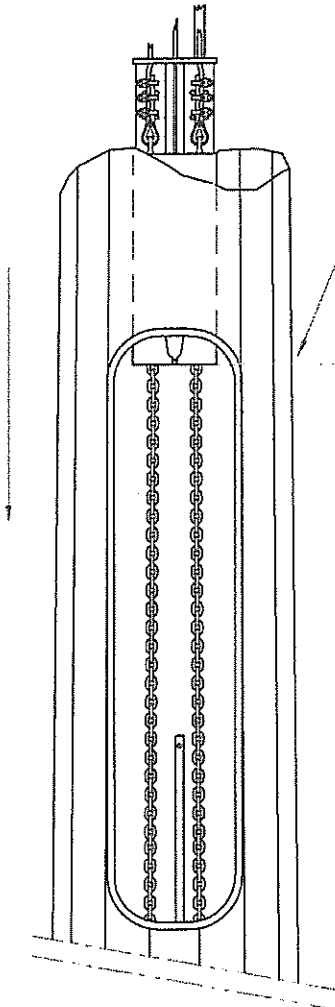
- rope A cm 43;
- rope B cm 45;
- rope C cm 46.

Act on the tie rod until ropes A and C are at cm 45.

MOVEMENT AND FINAL ADJUSTMENT

SECTION C

Proceed then, with the operation to hook and unhook the Mobile Crown from the trailing head



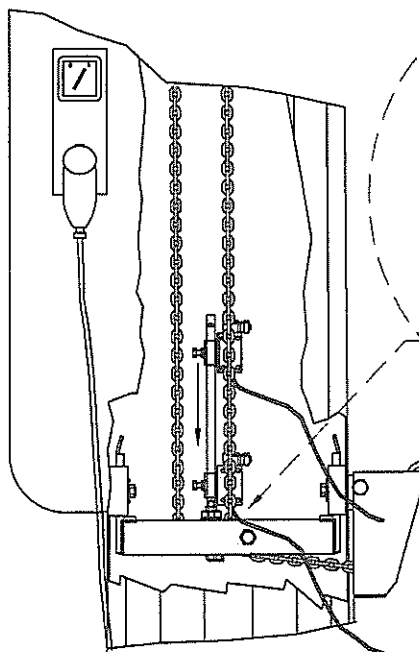
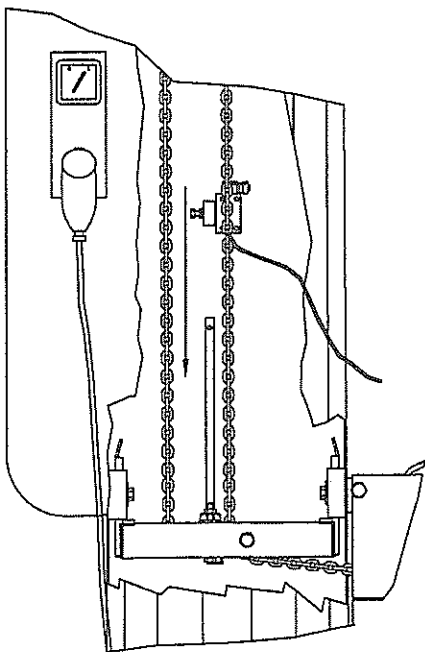
(dwg. 5)

from now on proceed by "clicking"

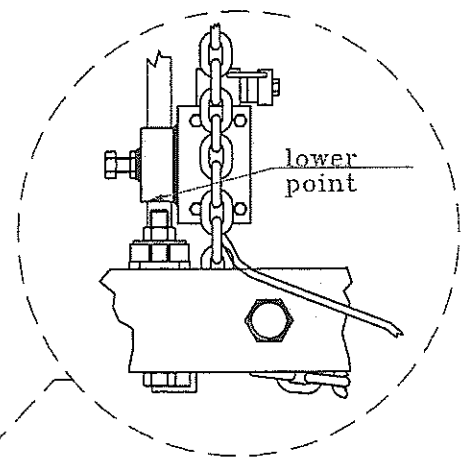
- C.1 Once You take the 3 rope adjuster out, raise the Mobile Crown, press "UP" (SALITA) on the push button which controls the trolley electric unit)
When the distributor appears on the opening door (dwg. 5) You pass from a continuous raising to a raise by click. This is to make easier the entering of the centering pivots of the mobile crown into those of the trailing head. When the distributor pass approx 10cm the adjusting rod You proceed in a continuous click until You hear the click of the connecting rods.
Now press "DOWN" (DISCESA) and the Crown will hook to the trailing head.
After this operation the three ropes will be released and the crown will be suspended than to the hooking of the the trailing head

N.B. If You will hear just one click this means that the ropes are well adjusted

- C.2 Unhook the Mobile Crown, press "UP" (SALITA) button until You hear the click of the connecting rods Press than "DOWN" (DISCESA) to lower the crown.
- C.3 Repeat operations mentioned in C.1 and C.2 3 - 4 times



(dis. 6)

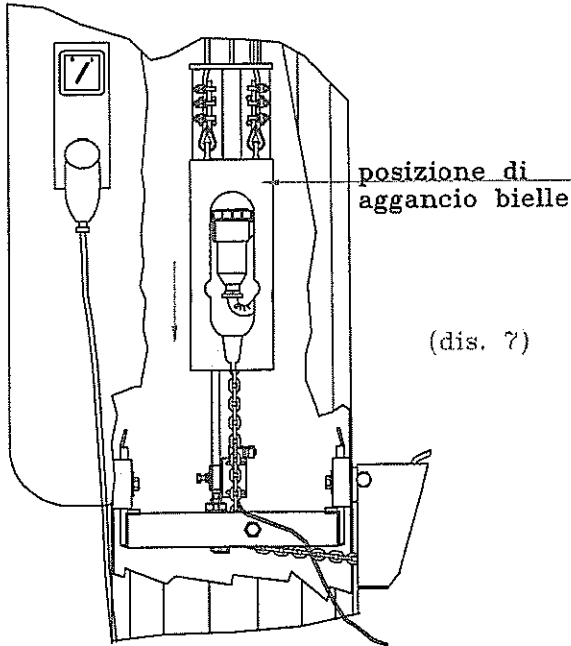


lower point

C.4 Now You have to adjust the safety switch limiter.

First of all put the knob so that it is in right position referred to the longitudinal axis of the mast.

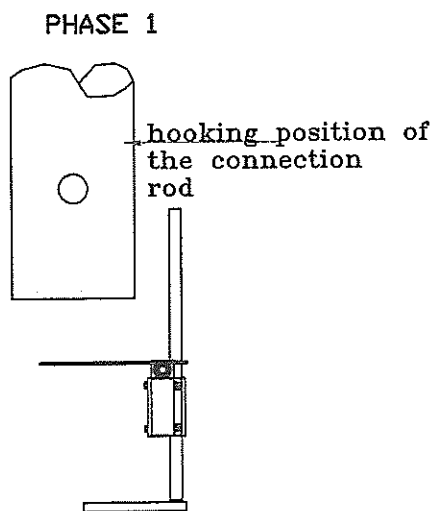
The switch limiter must be inserted through the adjusting rod (dis. 6) and then put This operation must be done when the distributor doesn't appear on the door



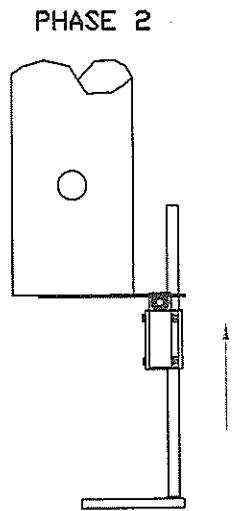
C.5 make one hooking operation, and stop the trolley unit when the click of the connecting rods on top happens (dis. 7). You can well hear it. During normal service, when the click of the connecting rods happens, the switch limiter must act locking the trolley unit

C.6 Lift the switch limiter along the guide rod until you do not hear that the knob, locked in the raising from the distributor, makes the contacts for the switch limiter intervene (opening the feeding circuit of the unit). In this position, with some millimeter of tolerance downwards lock the switch limiter (dis. 8).

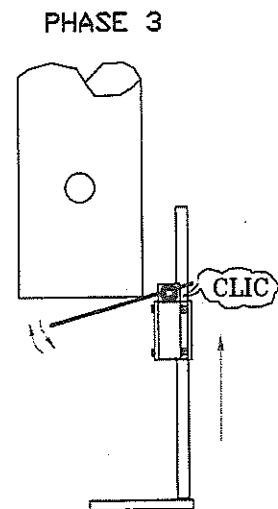
NOTE The knob of the switch limiter is of shapeless type and it can therefore be shaped according to your needs.



Lock the distributor when the connecting rods hook



raise the switch limiter along the rod



when the switch limiter knob will touch the distributor it will be locked on its raising Proceed until You hear the switch limiter intervention Lock it in this position

(dis. 8)

C.7 Verify the right working of the mast, repeating the operations mentioned in item 8.2 e 8.3, that must be as follow:
Suppose that the mobile crown is hooked to the trailing head

in the meantime the switch limiter act to lock the trolley unit.

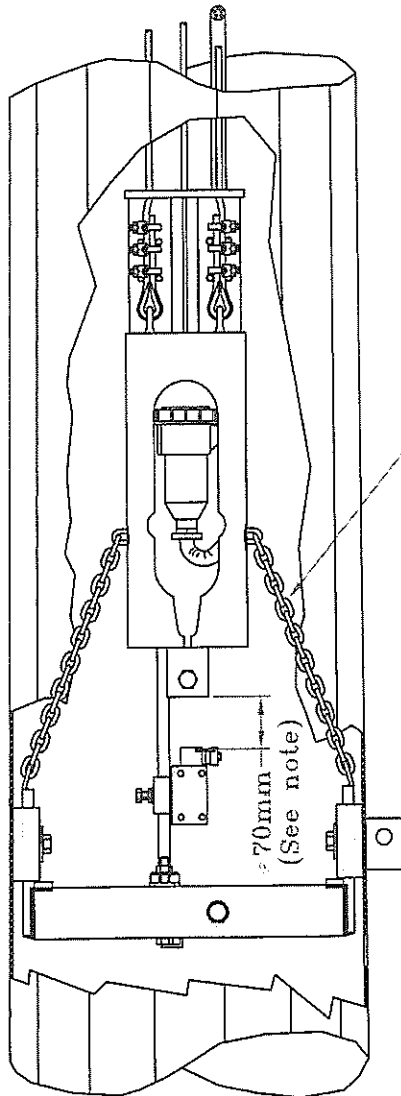
maintenance.

- RAISING OF THE C.M. (hook the mobile crown to the trailing head Press "SALITA" button to raise the Crown

Proceed with the continuous raising until the distributor doesn't appear on the door proceed then with the raising by "click" until the distributor is approx 10 cm from the rod of the switch limiter.

At this stage proceed in the continuous rising until the switch limiter doesn't act this coincides with the entering of the connecting rods in their grooves Push then "DISCESA" to hook the mobile crown to the trailing head

- C.8 Repeat the operation mentioned in item C.7 2-3 times to verify and make the final test
- C.9 Take the chain out of the electric unit and close the door for chain entering
- C.10 Pass the chain through the 2 holes of the distributor and fix it then on the 2 rings welded on the driving whirl support (dis. 35).



security chain to be passed through the distributor and fix to the driving whirl support

NOTE:

the level indicated in the drawing represents the distance between the switch limiter rod and the base of the distributor when the mobile crown is hooked the trailing head and then the ropes are released

(dis. 9)

C.11 Connect the floodlights feeding cable to the sockets and close the switches

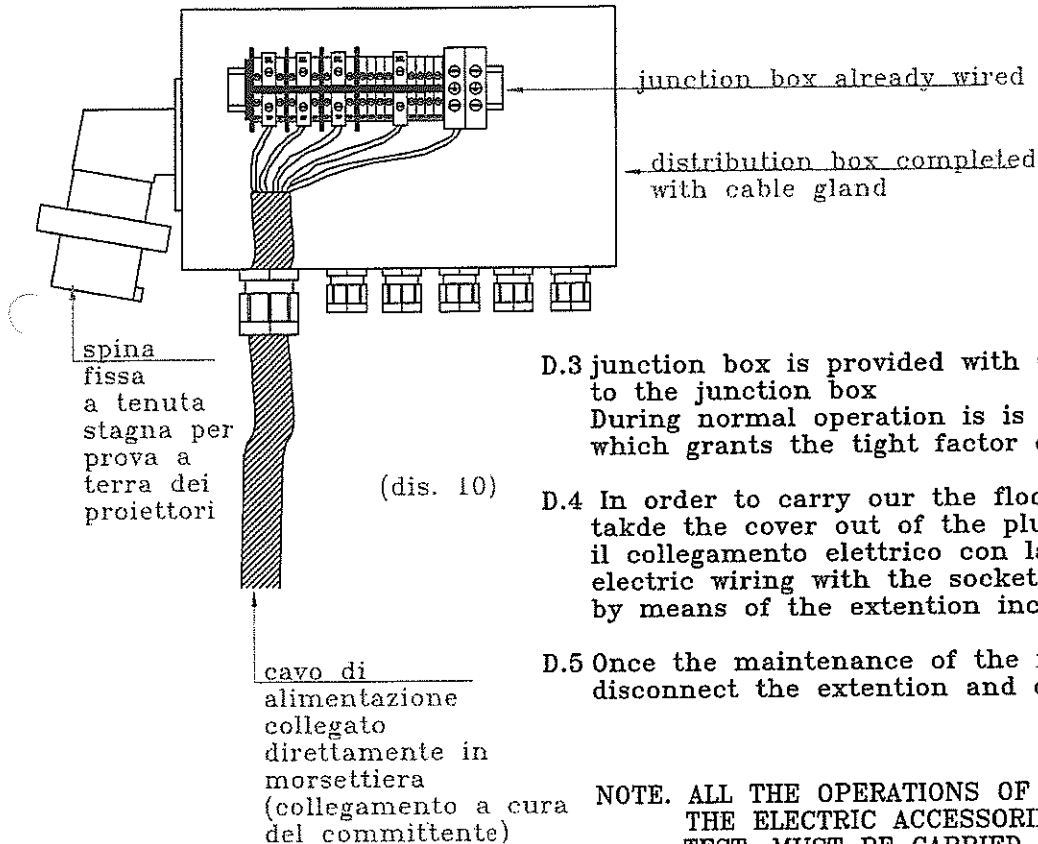
C.12 Close the door

WIRING AND FLOODLIGHTS TEST AT GROUND

SECTION D

D.1 Floodlights are feeded by n. 2 five poles lines with same carriage capacity

Floodlights will be connected to the junction box according to the electric scheme SCH.ELE.CAB.



D.3 junction box is provided with CEE plug connected to the junction box
During normal operation is closed with a cover which grants the tight factor degree IP67 (dis. 30).

D.4 In order to carry out the floodlights TEST AT GROUND take the cover out of the plug and establish the electric connection with the socket at the base of the shaft by means of the extension included in the supply.

D.5 Once the maintenance of the floodlights is done, disconnect the extension and close the door

NOTE. ALL THE OPERATIONS OF CONNECTING-DISCONNECTING THE ELECTRIC ACCESSORIES TO CARRY OUT THE ABOVE TEST, MUST BE CARRIED OUT WITH THE SWITCH OF THE INTERLOCKED SOCKET IN "O" POSITION, THAT IS WITHOUT TENSION.
ONCE THE CONNECTIONS ARE ESTABLISHED, YOU CAN PUT THE SWITCH IN THE WORKING POSITION (1).

IMPORTANT

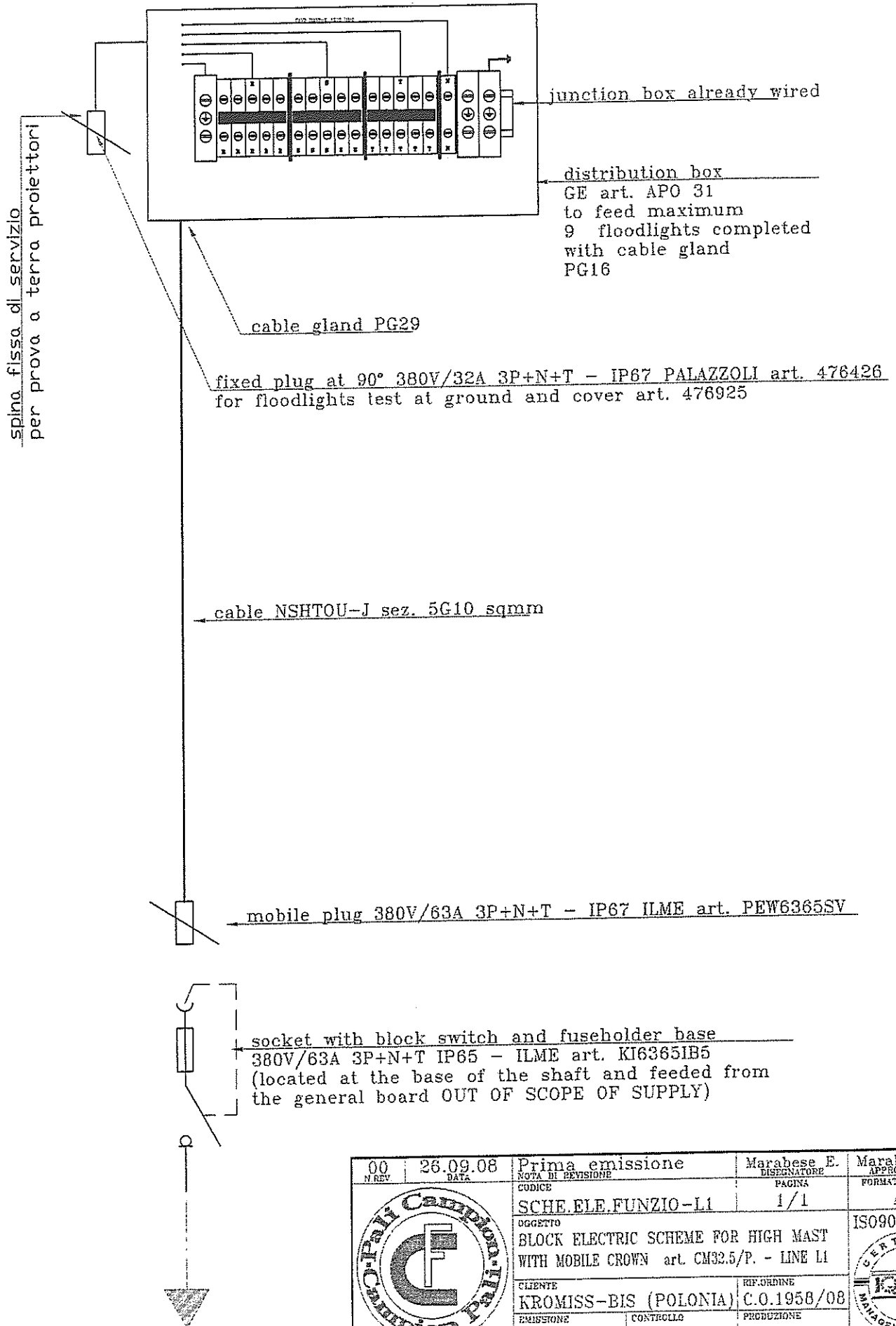
Each feeding line for floodlights is feeded by means of interlocked socket with fuse holder board.
It is therefore necessary to foresee in the control board of the mast suitable safety and handling devices according to the standard in force.

D.6 When You connect the feeding cables to the interlocked socket at the base of the shaft, it is right that the connecting direction of the phases is the same on both sockets, and on all 6 masts, allowing thus, the operator which will effect the maintenance in the future to use either LINE 1 or LINE 2 without causing any problem due to the inversion of the operating logic of the unit

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ELECTRIC SCHEME FOR HIGH MASTA WITH MOBILE CROWN mt 32.5 a.g.

- FLOODLIGHTS FEEDING - LINE 1 -



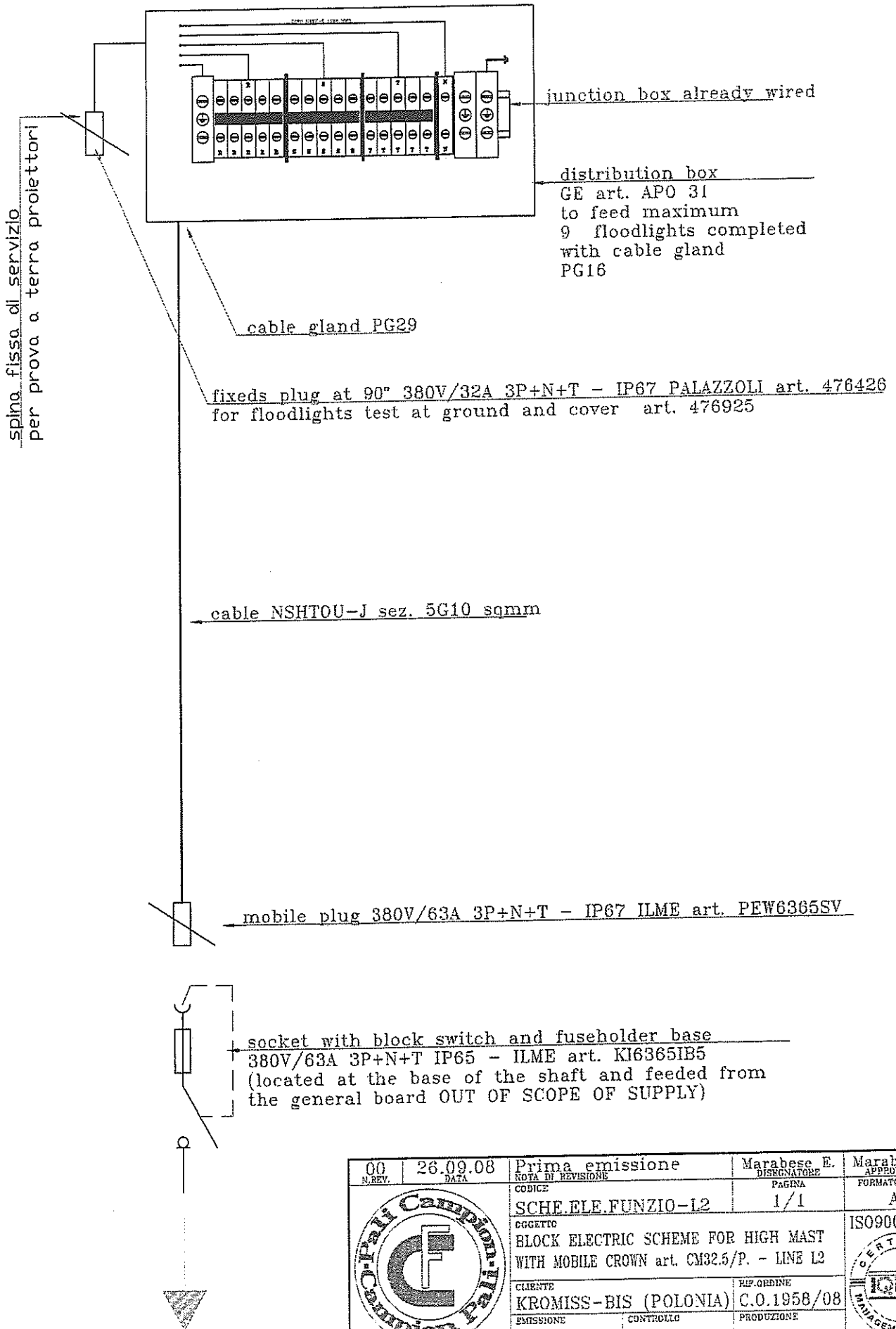
TO THE GENERAL BOARD

00 N.REV.	26.09.08 DATA	Prima emissione NOTA DI REVISIONE CODICE	Marabese E. DISEGNATORE PAGINA	Marabese E. APPROVAZIONE FORMATO STAMPA
		SCHE.ELE.FUNZIO-L1	1/1	A4
		OGGETTO BLOCK ELECTRIC SCHEME FOR HIGH MAST WITH MOBILE CROWN art. CM32.5/P. - LINE L1	ISO9001:2000	
		CLIENTE KROMISS-BIS (POLONIA)	RIF.ORDINE C.O.1958/08	
		EMISSIONE	CONTROLLO	
F.Hi Campion srl - Prato Pol. RO ITALY - Tel 0425666666 - Fax 0425666666 - mail@palcampion.it - www.palcampion.it				

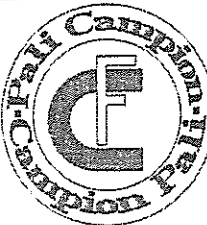

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ELECTRIC SCHEME FOR HIGH MASTA WITH MOBILE CROWN mt 32.5 a.g.

- FLOODLIGHTS FEEDING - LINE 2 -

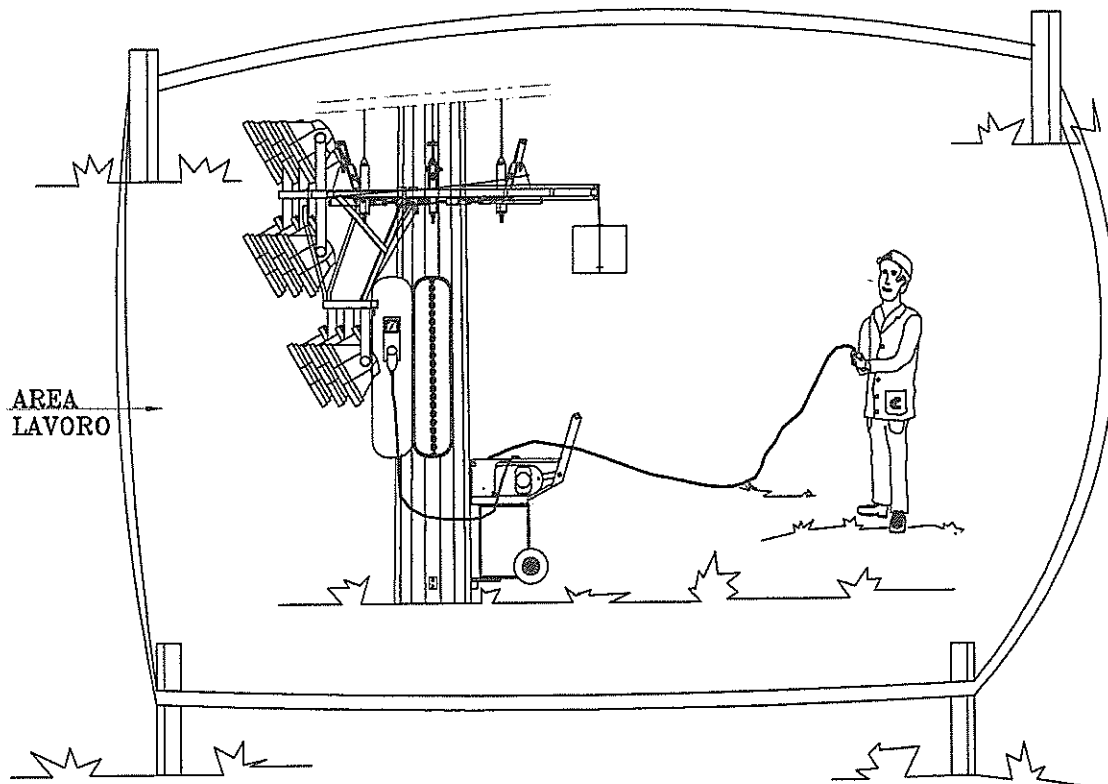


AL QUADRO GENERALE

00 N.REV.	26.09.08 DATA	Prima emissione NOTA DI REVISIONE	Marabese E. DISEGNATORE	Marabese E. APPROVAZIONE
		CODICE SCHE.ELE.FUNZIO-L2	PAGINA 1/1	FORMATO STAMPA A4
		OGGETTO BLOCK ELECTRIC SCHEME FOR HIGH MAST WITH MOBILE CROWN art. CM32.5/P. - LINE L2	ISO9001:2000 	
		CLIENTE KROMISS-BIS (POLONIA)	RIP.ORDINE C.O.1958/08	
		EMISSIONE	CONTROLLO	PRODUZIONE
F.lli Campion srl - Fratta Pol. BO ITALY - Tel 0425668686 - Fax 0425669600 - mail@policampion.it - www.policampion.it				

WARNING

- Do not stay under the mobile crown during the RAISING/LOWERING operations
- Delimit the area where you will carry out the maintenance operations by means of transennae or strips (dis. 36).



(dis. 11)

- Carry out the HOOKING AND UNHOOKING operation twice a year at least (every six month).
- When you make maintenance of the floodlights you always check also the ropes and tightening of the bolts and nuts
- Report all the maintenance on the enclosed register;
- Once a year schedule a check of the trolley mounted electric unit as mentioned in the enclosed maintenance book of the hoist.
- The chain supplied with the electric unit must always be lubricated
- If for lighting purposes You need a different arrangement of the floodlights on the mobile crown, you have to repeat the operations mentioned in section 9 "ROPES ADJUSTEMENT".
- The maintenance operation must be carried out only with good weather conditions (without wind)
- The operator who carry out the maintenace of the mast must be aware of the instructions mentioned in this book.
- If for lighting purposes You need a different arrangement of the floodlights on the mobile crown, you have to repeat the operations mentioned in section 9 "ROPES ADJUSTEMENT".

- pagina 10 -



F.lli CAMPION srl

Via A. De Gasperi 45
45025 Fratta Polesine (RO) - Italy
tel. +39.0425.668686 - fax +39.0425.668688
www.palicampion.it - mail@palicampion.it



PALIE TORRI IN ACCIAIO STEEL COLUMNS AND MASTS

MAINTENANCE BOOK
FOR HIGH MAST WITH
MOBILE CROWN



F.lli CAMPION srl

Via A. De Gasperi 45
45025 Fratta Polesine (RO) - Italy
tel. +39.0425.668686 - fax +39.0425.668688
www.palicampion.it - mail@palicampion.it



MAINTENANCE

Foreword:

Maintenance referred to the lighting high mast *must be carried out by authorised operator* to do this, who must be aware of the employing instructions and of the movement system.

In case You have to substitute elements, these must be original spare parts.

Maintenance of electric hoist must be carried out according to what it is mentioned in the employing and safety book included in the supply.

1 Maintenance:

In order to grant the correct operating of the high mast a MAINTENANCE PROGRAM has been realized

We defined 3 key-periods to carry out the maintenance; They are listed below with the description of what You have to do and verify:

- **six month maintenance (TYPE A)** it consists of a check – up of the mobile crown taken to the ground level, of all the elements which are part of it, and also a check of the various electric components, and a check of what it is located inside the shaft.
- **maintenance after 5 year (TYPE B)** It takes again all the operations of maintenance TYPE A, and furthermore it requires a careful check of the part on the top of the shaft.
- **maintenance after 10° year (TIPO C)** It takes again all the operations of maintenance TYPE A and TYPE B, and furthermore it requires a check of the structure (mast, base plate) in order to verify the conditions of the zinc coating.

ALL THE OPERATIONS OF MAINTENANCE AND CHECKING, MUST BE REGISTERED IN THE PURPOSE MADE SCHEDULES INCLUDED IN THIS BOOK.



F.lli CAMPION srl

Via A. De Gasperi 45
45025 Fratta Polesine (RO) - Italy
tel. +39.0425.668686 - fax +39.0425.668688
www.palicampion.it - mail@palicampion.it



MAINTENANCE PROGRAMM

TABLE FOR FIRST MAINTENANCES

FIRST MAINTENANCES :	TYPE A	TYPE B	TYPE C
Verify that the earth device is connected to the structure and it works properly	YES	YES	YES
Verify that the door locking device works properly	YES	YES	YES
Verify that the safety chain is located as per instructions, not so stressed	YES	YES	YES
Verify that the electric wiring at the base of the mast works properly	YES	YES	YES
Verify that the phase sequence allow the hosting unit to operate according to the right logic (check by feeding the hoisting unit)	YES	YES	YES
Verify that the switch limiter works properly (connect hosting unit and verify that acting on the rod kept downward it doesn't operate in "RASING" position)	YES	YES	YES
Verify the state of the hoisting cables and the electric cable on the distributor which mustn't be under stress (with hooked mobile crown)	YES	YES	YES
Verify tightening of the clamps on the hoisting cables (on the distributor)	YES	YES	YES

TABLE FOR MOBILE CROWN MAINTENANCE

WITH LOWERED MOBILE CROWN:	TYPE A	TYPE B	TYPE C
Verify that the covering of the hoisting cables and electric cables is in perfect condition	YES	YES	YES
Verify the tightening of all bolts and nuts	YES	YES	YES
Verify the tightening of all clamps on the hoisting cables	YES	YES	YES
Verify the state of the connecting rods of the hooking elastic system	YES	YES	YES
Verify that the brackets for floodlights and ballast fixing are perfectly fastened to the mobile crown	YES	YES	YES
Verify that electric cables are in good conditions and that wiring on the box, floodlights and ballasts (on floodlights and ballasts optional but advised) are not oxidized so that the lighting system cannot operate properly	YES	YES	YES
Verify that distribution boxes grant the declared protection degree and that the connection with accessories is not oxidized so that the lighting system cannot operate properly	YES	YES	YES
Verify the correct balance of the mobile crown	YES	YES	YES
Verify the floodlights lighting (at ground)	YES	YES	YES
WITH MOBILE CROWN IN OPERATING CONDITIONS	TYPE A	TYPE B	TYPE C
Verify that the hooking and unhooking operations of the mobile crown to the trailing head happen regularly	YES	YES	YES
Verify that the switch limiter is properly located	YES	YES	YES

If mobile crown is provided with safety brake system :

MAINTENANCE OF MOBILE CROWN (at round)	TIPO A	TIPO B	TIPO C
Verify state of the springs	YES	YES	YES
Verify state of polyamide pulleys	YES	YES	YES

* we suggest to substitute the material .



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TABLE FOR MAINTENANCE OF TRAILING HEAD

MAINTENANCE OF TRAILING HEAD	TYPE A	TYPE B	TYPE C
Verify tightening of fixing bolts of trailing head to the shaft	NO	YES	YES
Verify state of structural works	NO	YES	YES
Verify state of polyamide pulley, and pivots	NO	YES	YES

TABLE FOR MAINTENANCE OF THE STRUCTURE

MAINTENANCE OF THE STRUCTURE	TYPE A	TYPE B	TYPE C
Verify state of the structure and of the zinc-coating	NO	NO	YES

TABLE FOR MAINTENANCE OF HOSTING UNIT

MAINTENANCE OF THE HOISTING UNIT	TYPE A	TYPE B	TYPE C
The operator must verify what is mentioned in the safety and maintenance instructions of the hoisting unit included in the supply .	/	/	/

The maintenance program above mentioned is meant for a normal environment, such as interchange, parking area etc.

For particular environment the maintenance program must be realised together with the engineer –and contractor, considering the worst conditions under which the structure will operate .

Furthermore if the time given by F.lli Campion s.r.l. may turn out to be too long or small to the persons which will take care of the plant, these times can be revised according to the real need of the plant

Parts worn or not suitable to grant safe and proper operating of the high mast, will be substituted only with original spare parts.

Otherwise guarantee according to the law will expire.



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CHECKING PROCESS :

TYPE MAST WITH MOBILE CROWN.	PART WHICH IS SUBJECTED TO THE CONTROL	METHOD OF CONTROL	NORMAL CONDITIONS	REMEDY
ALL MODELS	INTERLOCKED SOCKET	Verify state of external structure Verify operation making several check of opening/closing of the circuit	The main characteristic of the interlocked socket is that it doesn't allow the withdrawing of the plug when the circuit is closed (position I), and the circuit cannot be closed (pass form O to I) if you do not insert the suitable plug first	If the above listed conditions do not happen, proceed to substitute the plug with one having the same characteristics
ALL MODELS	STEEL CABLE POLYPROPYLENE SHEATHED	Verify state of the coating, tightening of the clamps on the hoisting cable and of the threaded tie rod	The covering of the hosting cable must be perfect all over its length; without grinding or bending. Terminals must be well made and verified times to times.	In case You see damages on the covering and consequently abrasion of the hosting cables You have to ask for a technician to evaluate the real entity of the damage and if you need to substitute the hoisting cables.
ALL MODELS	ELECTRIC CABLE	Verify state of the covering	Cable must have a perfect covering, and when the mobile crown is down it mustn't be stressed but quite softly loosed .	In case You see damages on the covering You have to ask for a technician to evaluate the real entity of the damage and if you need to substitute the cables In case when the mobile crown is lowered You see the cable is stressed. Loose it acting on the blocks

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CHECKING PROCESS:

TYPE MAST C.W. MOBILE CROWN.	PART WHICH IS SUBJECTED TO THE CONTROL	METHOD OF CONTROL	NORMAL CONDITIONS	REMEDY
ALL MODELS	ELECTRIC WIRING	Verify state of all electric wiring .	All wiring must be properly done	In case You find electric wiring not properly done make new wiring and substitute if any electric cables.
ALL MODELS	FLOODLIGHTS AND BALLASTS BRACKETS	Verify straightness of floodlights brackets and squareness of ballast's ones and check tightening of bolts and nuts of mobile crown and floodlights .	Floodlights brackets must be straight even when they are loaded with floodlights and so it is also for the ballasts brackets .	Put the number of floodlights foreseen (You You foreseen one floodlight each bracket do not mount two of them) . Comply with the workshop design in order to avoid to install floodlights with different weights which can create stress conditions on the structural works.
ALL MODELS	HOOKING ELASTIC SYSTEM	Verify state of connecting rod	The structure must be perfect, There mustn't be bended parts, and the operating parts if stressed, must create the vibration of the above part (connecting rod)	IT IS THE MOST IMPORTANT PART OF THE MOVEMENT SYSTEM Every signal which is due to stress conditions or misligned conditions with the trailing head must be immediately advies so that it can be substitue.. If some elastic part have lost they elastic characteristic You can proceed to substitute all the system. It is necessary and suggested to substitute all three system and repeat the test for ropes adjusting and of the switch limiter



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TYPE MAST C/W MOBILE CROWN	PART WHICH IS SUBJECTED TO THE CONTROL	METHOD OF CONTROL	NORMAL CONDITIONS	REMEDY
ALL MODELS	BOLTS AND NUTS	Verify tightening of the bolts	Bolts must be perfectly tightened	If bolts are not tightened , tight them
ALL MODELS	POLYAMMIDE PULLEYS AND PIVOTS	Check the state of pulleys and sliding of cable, and pivots on the trailing head , of the pivots sustaining the hooking elastic system on the mobile crown, the driving whirl and its pivot inside the base of the mast	Pulleys must be perfects and they do not have wearing sign so to prejudice the sliding of the rope (on the trailing head) and of the chain (driving whirl). Pivot must be perfect and self lubricated bushes can turn free	If You find the above conditions You have to substitue weared pieces
ALL MODELS	SWITCH LIMITER	Verify the switch limiter act properly during the hooking and unhooking phases of the mobile crown to the trailing head.	MOBILE CROWN HOOKING. Switch limiter acts when the connecting rod enter into the trailing head groove, it founds everything free and so it makes a click and then it lies into the groove in its works positions MOBILE CROWN UNHOOKING Switch limiter acts when the connecting rod comes out from the hooking groove . Now the crown can be lowered (LOWERING) The switch limiter action avoid that the gear act into the hoist.	If during HOOKING AND UNHOOKING phases of the mobile crown to the trailing head the gear of the engine acts before than the switch limiter, You have to verify the state of the electric wiring, the state of the switch limiter rod, which may be not properly located , or verify the suitability of the switch limiter; its location on the adjusting rod must be modified until You reach the proper operation of the movement (It must hook and unhook without any acting of safety device of the engine). IN case You find a problem on the rod or on the electric wiring the switch limiter must be immediately substitute
ALL MODELS	CONNECTION OF THE GROUND RING	Verify that the metallic structure is connected to the ground line	The ground conductor must be wired to the purpose made connection on the shaft	In case it is not wired make wiring again



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TYPE MAST C/W MOBILE CROWN.	PART WHICH IS SUBJECTED TO THE CONTROL	METHOD OF CONTROL	NORMAL CONDITIONS	REMEDY
ALL MODELS	MOVEMENT ELECTRIC UNIT	Verify pressure of the wheel	Trolley must have 2 wheel with suitable pressure to allow easy movement and handling at site	If wheels are deflated inflate them and if they have holes substitute or repair them
ALL MODELS	ELECTRIC HOIST	The operator must read SAFETY AND EMPLOYING INSTRUCTION of hoist included in the supply		
ALL MODELS	CHAIN	The operator must read SAFETY AND EMPLOYING INSTRUCTION of hoist included in the supply		



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SPARE PARTE

TRAILING HEAD

CODE	DESCRIPTION
DISTRI	DISTRIBUTOR
KIT FUNI	SET OF 3 POLYPROPYLENE SHEATED ROPES WITH SUITABLE LENGTH COMPLETED WITH BOLTS FOR TERMINAL BOLTS
KIT CAVO	ELECTRIC CABLE FIVE CORES WITH SUITABLE SECTION TO THE POWER INSTALLED COMPLETED WITH LOCK CABLE BLOCKS
KIT CARRU FUNE	N. 6 PULLEYS FOR HOISITNG CABLE COMPLETED WITH SELFLUBRICATED BUSHES AND INOX PIVOTS
KIT CARRU FUNE	N. 5 PULLEYS FOR ELECTRIC CABLE COMPLETED WITH SELFLUBRICATED BUSHES AND INOX PIVOTS

MOBILE CROWN

CODICE	DESCRIPTION
BLO.CO.	N. 1 CROWN LOCK
STA.PRO.	N. 1 FLOODIGHTS BRACKET
STA.REA.	N. 1 BALLASTS BRACKET
STA.CAS.ELE.	N. 1 DISTRIBUTION BOX BRACKET

SHAFT

CODICE	DESCRIPTION
PORTE.	N. 1 DOOR
PRE.INT.	N. 1 INTERLOCKED SOCKET 3F+N+T 380V AMPER SUITABLE TO THE INSTALLED POWER
SPI.VO.	N. 1 PLUG 3P+N+T 380V AMPER SUITABLE TO THE INSTALLED POWER
FINE.SICU.	N. 1 SAFETY SWITCH LIMITER
ASTA.REGO.	N. 1 SWITCH LIMTER ADJUSTING ROD
CATE.SICU.	N. 1 SAFETY CHAIN



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PALI E TORRI IN ACCIAIO STEEL COLUMNS AND MASTS

REGISTER OF
MAINTENANCE FOR HIGH
MAST WITH MOBILE
CROWN



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SIX-MONTH MAINTENANCE (TYPE A) MAST

DATE	OPERATION	RESULT	SIGNATURE	NOTE

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MAINTENANCE 5° YEAR (TYPE B) MAST

DATE	OPERATION	RESULT	SIGNATURE	NOTE

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MAINTENANCE 10° YEAR (TYPE C) MAST

DATE	OPERATION	RESULT	SIGNATURE	NOTE

PALI E TORRI IN ACCIAIO STEEL COLUMNS AND MASTS

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Installation Notes:

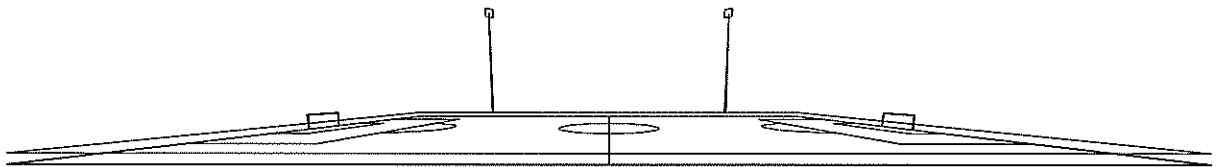
Customer:

Project Code:

Date:

21/07/2008

Notes:



DESIGNER NAME:

Address:

Tel.-Fax:

Performance in Lighting

Via Cesare Battisti 1 - 10123 Torino

Tel. 011/5069220

Remarks:

1.1 Area Information

Surface	Dimensions [m]	Angle[°]	Color	Coefficient Reflectance	Average Illum. [lux]	Ave.Luminance [cd/ml]
Ground	105.00x70.00	Plane	RGB=126,126,126	25%	694	55

Dimensions of Area Bounding Box [m]: 105.00x70.00x1.00
 Calculation Points Grid of Bounding Box [m]: direction X 10.00 - Y 10.00
 Specific Wattage of Working Plane [W/m2] 16.980
 Specific Lighting Power of the Working Plane [W/(m2 * 100lux)] 2.436
 Total Wattage [kW]: 124.800

1.2 Uniformity Installation Parameters

Surface	Results	Average	Minimum	Maximum	Min/Ave	Min/Max	Ave/Max
Working Plane (h=1.00 m)	Horizontal Illuminance (E)	697 lux	565 lux	801 lux	0.81	0.71	0.87
Ground	Horizontal Illuminance (E)	694 lux	571 lux	814 lux	0.82	0.70	0.85
Ground	Luminance (L)	55 cd/ml	45 cd/ml	65 cd/ml	0.82	0.70	0.85

Calculation Type

Dir.+Indir.(7 Inter-Reflections) + Furnit.

Light Pollution

Average Ratio - Rn -	Maximum Intensity
5.15 %	15335 cd/klm

Glare Indexes

Observer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
----------	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----

Direction of Observation

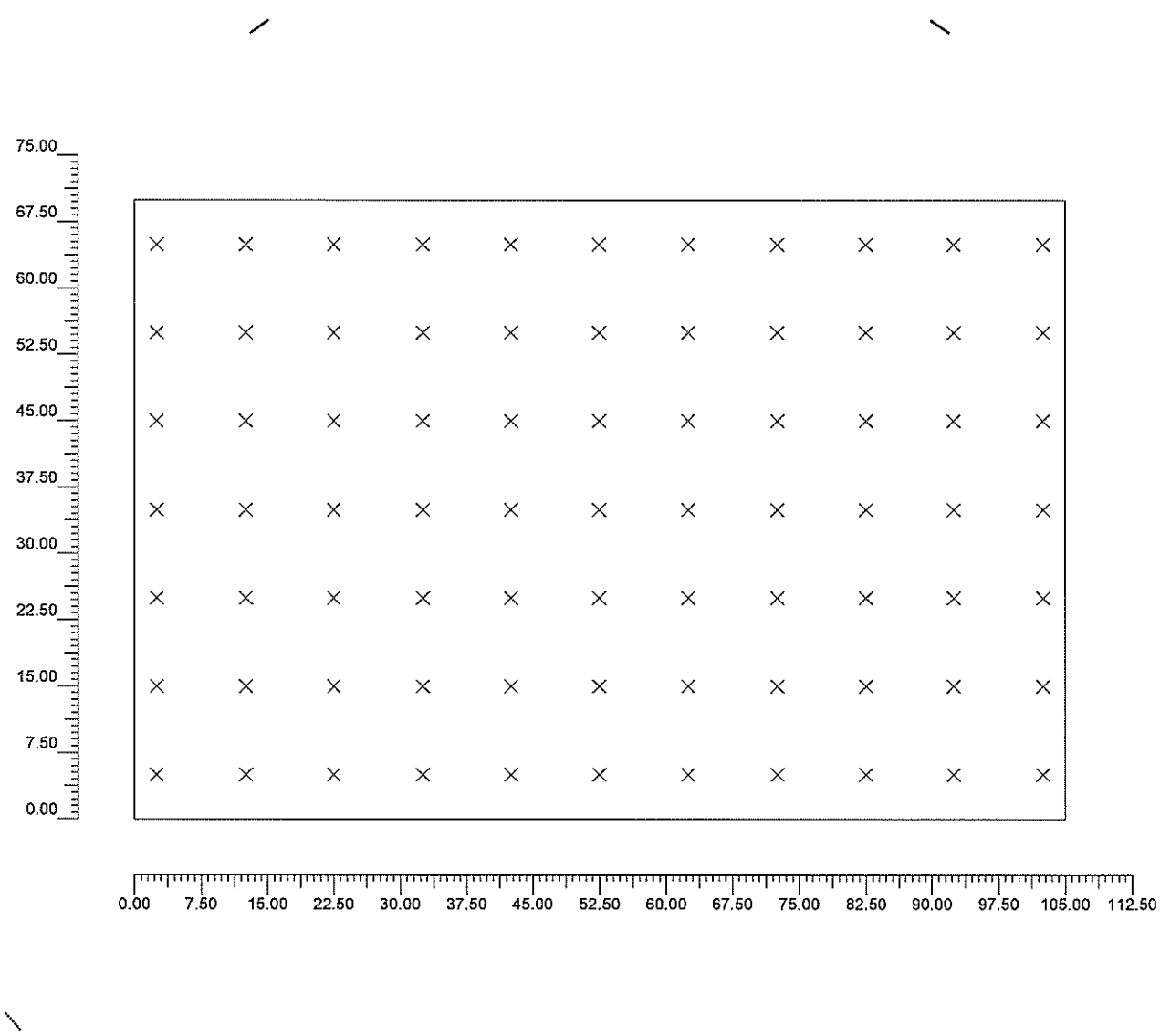
Mast (x=-65.60 y=-57.80 z=hObs)	43	39	45	39	47	27	34	41	45	38	28	43	36	31	33	30	41	41	43
Mast (x=-37.90 y=54.50 z=hObs)	39	35	34	30	33	29	32	45	43	37	38	41	39	34	30	17	36	20	17
Mast (x=38.90 y=54.50 z=hObs)	39	45	43	37	33	38	41	35	34	30	29	32	36	20	30	17	39	34	17
Mast (x=66.60 y=-57.80 z=hObs)	43	41	45	38	47	28	43	39	45	39	27	34	41	41	33	43	36	31	30

Observer	Observer Position	Observer	Observer Position	Observer	Observer Position
1	(x=0.50;y=0.00;z=1.50)m	2	(x=26.75;y=0.00;z=1.50)m	3	(x=26.75;y=-17.50;z=1.50)m
4	(x=26.75;y=-35.00;z=1.50)m	5	(x=0.50;y=-35.00;z=1.50)m	6	(x=53.00;y=-35.00;z=1.50)m
7	(x=53.00;y=0.00;z=1.50)m	8	(x=-25.75;y=0.00;z=1.50)m	9	(x=-25.75;y=-17.50;z=1.50)m
10	(x=-25.75;y=-35.00;z=1.50)m	11	(x=-52.00;y=-35.00;z=1.50)m	12	(x=-52.00;y=0.00;z=1.50)m
13	(x=26.75;y=17.50;z=1.50)m	14	(x=26.75;y=35.00;z=1.50)m	15	(x=0.50;y=35.00;z=1.50)m
16	(x=53.00;y=35.00;z=1.50)m	17	(x=-25.75;y=17.50;z=1.50)m	18	(x=-25.75;y=35.00;z=1.50)m
19	(x=-52.00;y=35.00;z=1.50)m				

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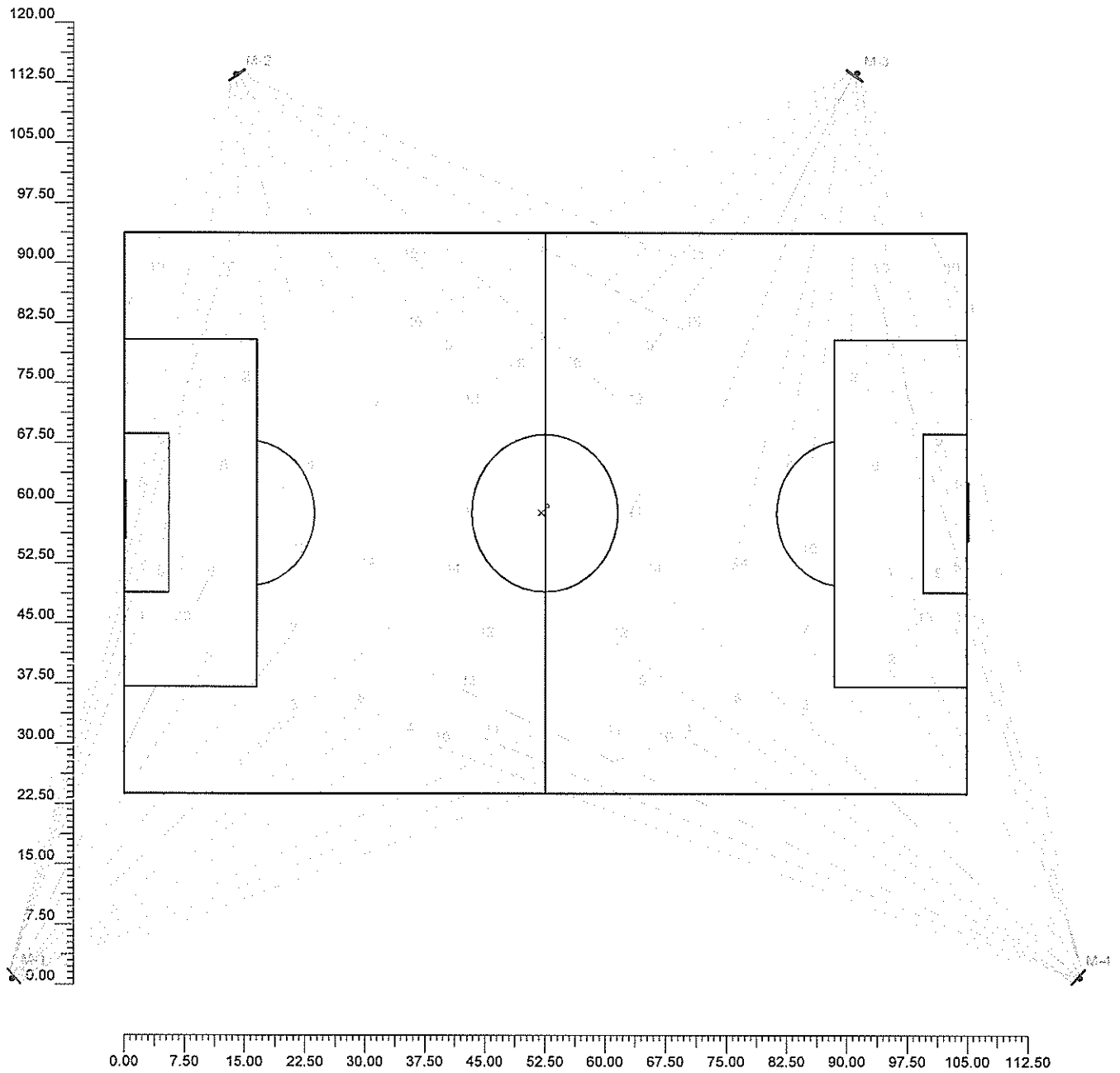
2.1 Working Plane 2D View and Calculation Grid

Scale 1/750



2.2 2D Plane View

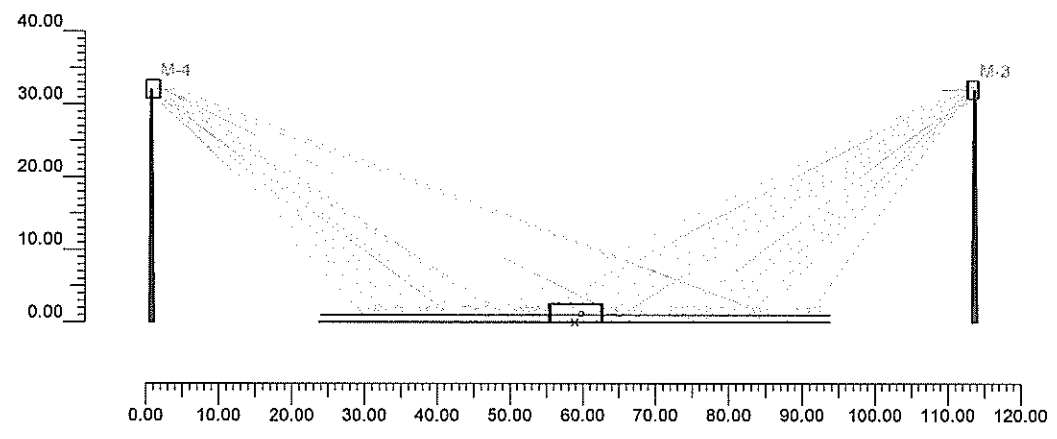
Scale 1/750





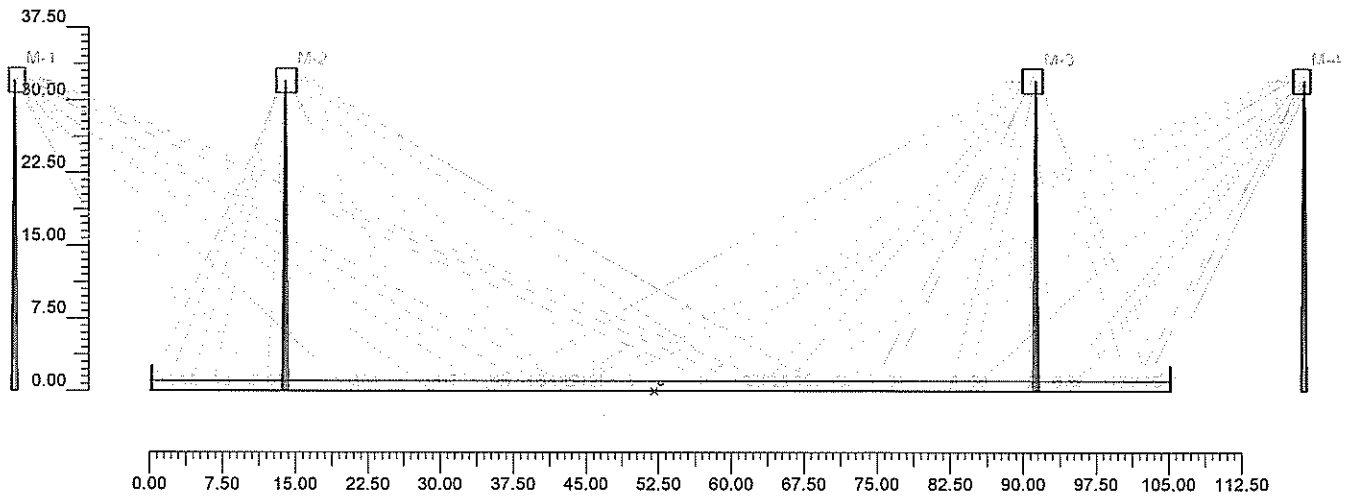
2.3 Lateral View

Scale 1/1000



2.4 Front View

Scale 1/750



3.1 Luminaire/Measurements Info

Ref.	Line	Luminaire Name (Measur. Name)	Luminaire Code (Measur. Code)	Luminaires N.	Ref.Lamps	Lamps N.
A	SBP - Ray	RAY 2000/34° - 12A (RAY/MB HU 2000-94 + ACC. 12A)	04003194 (061.)	28	LMP-A	1
B	SBP - Ray	RAY 2000/15° - 12A (RAY 2000/15 VTR TRASPARENT H=5)	04003094 (038 05/01/06 OL)	28	LMP-A	1
C	SBP - Ray	RAY 2000/7° - 12A (RAY/ENB HU 2000-94 + ACC. 12A)	04002994 (054.)	8	LMP-A	1

3.2 Lamps Info

Ref.Lamps	Type	Code	Flux [lm]	Wattage [W]	Color [°K]	N.
LMP-A	MD 1950	HQI-TS 2000/D/S	200000	1950	5800	64

3.3 Luminaire Table

Ref.	Lum.	On	Luminaire Position X[m] Y[m] Z[m]	Luminaire Rotation X[°] Y[°] Z[°]	Luminaire Code	Coeff. Mant.	Lamp Code	Flux [lm]
A	1	X	-66.22;-57.10;31.06	56;0;-20	04003194	0.80	HQI-TS 2000/D/S	1*200000
	2	X	-65.80;-57.56;31.06	55;0;-32				
	3	X	-65.40;-58.04;31.06	57;0;-46				
	4	X	-64.98;-58.50;31.06	61;0;-58				
	5	X	-66.22;-57.10;31.69	59;0;-18				
	6	X	-65.80;-57.56;31.69	60;0;-26				
	7	X	-65.40;-58.04;31.69	60;0;-39				
	8	X	-38.15;54.32;31.06	51;0;-179				
	9	X	-37.64;54.67;31.06	54;0;-144				
	10	X	-37.13;55.04;31.06	59;0;-171				
	11	X	-38.67;53.96;31.69	59;0;167				
	12	X	-38.16;54.32;31.69	57;0;178				
	13	X	-37.64;54.67;31.69	55;0;-159				
	14	X	-37.13;55.04;31.69	58;0;-138				
	15	X	39.16;54.33;31.06	51;0;179				
	16	X	38.64;54.67;31.06	54;0;144				
	17	X	38.13;55.04;31.06	59;0;171				
	18	X	39.67;53.96;31.69	59;0;-167				
	19	X	39.16;54.32;31.69	57;0;-178				
	20	X	38.65;54.69;31.69	55;0;159				
	21	X	38.13;55.04;31.69	58;0;138				
	22	X	67.22;-57.10;31.06	56;0;20				
	23	X	66.80;-57.56;31.06	55;0;32				
	24	X	66.40;-58.04;31.06	57;0;46				
	25	X	65.98;-58.50;31.06	61;0;58				
	26	X	67.22;-57.10;31.69	59;0;18				
	27	X	66.80;-57.56;31.69	60;0;26				
	28	X	66.40;-58.04;31.69	60;0;39				
B	1	X	-64.98;-58.50;31.69	60;0;-51	04003094	0.80	HQI-TS 2000/D/S	1*200000
	2	X	-66.22;-57.10;32.31	64;0;-16				
	3	X	-65.81;-57.57;32.31	70;0;-11				
	4	X	-65.40;-58.04;32.31	68;0;-68				
	5	X	-64.98;-58.50;32.31	66;0;-53				
	6	X	-65.81;-57.57;32.94	66;0;-47				
	7	X	-38.67;53.96;31.06	46;0;156				
	8	X	-38.67;53.96;32.31	63;0;172				
	9	X	-38.15;54.31;32.31	62;0;-173				
	10	X	-37.65;54.69;32.31	63;0;-153				
	11	X	-37.13;55.04;32.31	63;0;-131				
	12	X	-38.16;54.32;32.94	63;0;-166				

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Ref.	Lum.	On	Luminaire Position X[m] Y[m] Z[m]	Luminaire Rotation X[°] Y[°] Z[°]	Luminaire Code	Coeff. Mant.	Lamp Code	Flux [lm]
B	13	X	-37.65;54.69;32.94	62;0;-113	04003094	0.80	HQI-TS 2000/D/S	1*200000
	14	X	-37.13;55.04;32.94	63;0;-120				
	15	X	39.67;53.96;31.06	46;0;-156				
	16	X	39.67;53.96;32.31	63;0;-172				
	17	X	39.16;54.33;32.31	62;0;173				
	18	X	38.65;54.69;32.31	63;0;153				
	19	X	38.13;55.04;32.31	63;0;131				
	20	X	39.16;54.32;32.94	63;0;166				
	21	X	38.65;54.69;32.94	62;0;113				
	22	X	38.13;55.04;32.94	63;0;120				
	23	X	65.98;-58.50;31.69	60;0;51				
	24	X	67.22;-57.10;32.31	64;0;16				
	25	X	66.81;-57.57;32.31	70;0;11				
	26	X	66.39;-58.03;32.31	68;0;68				
	27	X	65.98;-58.50;32.31	66;0;53				
C	1	X	-66.22;-57.10;32.94	70;0;-17	04002994	0.80	HQI-TS 2000/D/S	1*200000
	2	X	-65.39;-58.03;32.94	69;0;-65				
	3	X	-64.98;-58.50;32.94	69;0;-70				
	4	X	-38.67;53.96;32.94	64;0;174				
	5	X	39.67;53.96;32.94	64;0;-174				
	6	X	67.22;-57.10;32.94	70;0;17				
	7	X	66.40;-58.04;32.94	69;0;65				
	8	X	65.98;-58.50;32.94	69;0;70				

3.4 Aiming Summary Table

Mast	Row	Column	Ref. 2D	On	Luminaire Position X[m] Y[m] Z[m]	Luminaire Rotation X[°] Y[°] Z[°]	Aiming X[m] Y[m] Z[m]	R.Axis [°]	Coeff. Mant.	Ref.			
M-1	(4)	(4)	M-1		(-65.60;-57.80;32.00)	(90;0;-48)							
					1	1	X	-66.22;-57.10;31.06	56;0;-20	-50.32;-13.96;0.00	0	0.80	A
					1	2	X	-65.80;-57.56;31.06	55;0;-32	-42.06;-19.20;0.00	-0	0.80	A
					1	3	X	-65.40;-58.04;31.06	57;0;-46	-31.41;-25.04;0.00	0	0.80	A
					1	4	X	-64.98;-58.50;31.06	61;0;-58	-16.82;-27.95;0.00	0	0.80	A
					2	1	X	-66.22;-57.10;31.69	59;0;-18	-50.12;-7.73;0.00	0	0.80	A
					2	2	X	-65.80;-57.56;31.69	60;0;-26	-41.66;-8.52;0.00	0	0.80	A
					2	3	X	-65.40;-58.04;31.69	60;0;-39	-31.41;-15.59;0.00	-0	0.80	A
					2	4	X	-64.98;-58.50;31.69	60;0;-51	-22.95;-24.24;0.00	0	0.80	B
					3	1	X	-66.22;-57.10;32.31	64;0;-16	-47.90;7.99;0.00	-0	0.80	B
					3	2	X	-65.81;-57.57;32.31	70;0;-11	-49.06;29.60;0.00	-0	0.80	B
					3	3	X	-65.40;-58.04;32.31	68;0;-68	8.09;-28.14;0.00	0	0.80	B
					3	4	X	-64.98;-58.50;32.31	66;0;-53	-7.84;-15.97;0.00	0	0.80	B
					4	1	X	-66.22;-57.10;32.94	70;0;-17	-40.10;29.53;0.00	0	0.80	C
					4	2	X	-65.81;-57.57;32.94	66;0;-47	-12.08;-8.04;0.00	0	0.80	B
					4	3	X	-65.39;-58.03;32.94	69;0;-65	11.10;-22.01;0.00	-0	0.80	C
4	4	X	-64.98;-58.50;32.94	69;0;-70	14.39;-29.00;0.00	0	0.80	C					
M-1_D2	(4)	(4)	M-2		(-37.90;54.50;32.00)	(90;0;-145)							
					1	4	X	-38.67;53.96;31.06	46;0;156	-52.02;24.61;0.00	0	0.80	B
					1	3	X	-38.15;54.32;31.06	51;0;-179	-37.37;15.91;0.00	0	0.80	A
					1	2	X	-37.64;54.67;31.06	54;0;-144	-12.08;19.91;0.00	0	0.80	A
					1	1	X	-37.13;55.04;31.06	59;0;-171	-29.35;4.94;0.00	0	0.80	A
					2	4	X	-38.67;53.96;31.69	59;0;167	-50.30;2.65;0.00	0	0.80	A
					2	3	X	-38.16;54.32;31.69	57;0;178	-40.04;4.84;0.00	0	0.80	A
					2	2	X	-37.64;54.67;31.69	55;0;-159	-21.08;12.48;0.00	0	0.80	A
					2	1	X	-37.13;55.04;31.69	58;0;-138	-2.99;17.54;-0.00	0	0.80	A
					3	4	X	-38.67;53.96;32.31	63;0;172	-47.89;-8.45;0.00	0	0.80	B
					3	3	X	-38.15;54.31;32.31	62;0;-173	-31.26;-5.57;0.00	0	0.80	B
					3	2	X	-37.65;54.69;32.31	63;0;-153	-9.64;-0.98;0.00	0	0.80	B
					3	1	X	-37.13;55.04;32.31	63;0;-131	10.70;13.11;0.00	0	0.80	B
					4	4	X	-38.67;53.96;32.94	64;0;174	-45.68;-14.07;0.00	0	0.80	C
					4	3	X	-38.16;54.32;32.94	63;0;-166	-22.72;-7.24;0.00	0	0.80	B
					4	2	X	-37.65;54.69;32.94	62;0;-113	18.41;31.28;0.00	0	0.80	B
4	1	X	-37.13;55.04;32.94	63;0;-120	17.75;22.78;0.00	0	0.80	B					

Mast	Row	Column	Ref. 2D	On	Luminaire Position			Luminaire Rotation			Aiming			R.Axis [°]	Coeff. Mant.	Ref.
					X[m]	Y[m]	Z[m]	X[°]	Y[°]	Z[°]	X[m]	Y[m]	Z[m]			
M-1_D2_D1	(4)	(4)	M-3		(38.90;54.50;32.00)			(90;0;145)								
	1	1	1	X	39.67;53.96;31.06			46;0;-156			53.02;24.62;0.00		-0	0.80	B	
	1	2	2	X	39.16;54.33;31.06			51;0;179			38.38;15.92;0.00		0	0.80	A	
	1	3	3	X	38.64;54.67;31.06			54;0;144			13.08;19.92;0.00		0	0.80	A	
	1	4	4	X	38.13;55.04;31.06			59;0;171			30.35;4.94;0.00		0	0.80	A	
	2	1	5	X	39.67;53.96;31.69			59;0;-167			51.30;2.65;0.00		0	0.80	A	
	2	2	6	X	39.16;54.32;31.69			57;0;-178			41.03;4.85;0.00		0	0.80	A	
	2	3	7	X	38.65;54.69;31.69			55;0;159			22.10;12.50;-0.00		0	0.80	A	
	2	4	8	X	38.13;55.04;31.69			58;0;138			3.99;17.54;-0.00		0	0.80	A	
	3	1	9	X	39.67;53.96;32.31			63;0;-172			48.89;-8.44;0.00		0	0.80	B	
	3	2	10	X	39.16;54.33;32.31			62;0;173			32.28;-5.55;0.00		0	0.80	B	
	3	3	11	X	38.65;54.69;32.31			63;0;153			10.66;-0.96;0.00		0	0.80	B	
	3	4	12	X	38.13;55.04;32.31			63;0;131			-9.71;13.10;0.00		0	0.80	B	
	4	1	13	X	39.67;53.96;32.94			64;0;-174			46.68;-14.08;0.00		0	0.80	C	
	4	2	14	X	39.16;54.32;32.94			63;0;166			23.72;-7.26;0.00		0	0.80	B	
	4	3	15	X	38.65;54.69;32.94			62;0;113			-17.42;31.28;0.00		0	0.80	B	
4	4	16	X	38.13;55.04;32.94			63;0;120			-16.76;22.77;0.00		0	0.80	B		
M-1_D1	(4)	(4)	M-4		(66.60;-57.80;32.00)			(90;0;48)								
	1	4	1	X	67.22;-57.10;31.06			56;0;20			51.32;-13.96;0.00		-0	0.80	A	
	1	3	2	X	66.80;-57.56;31.06			55;0;32			43.05;-19.20;0.00		-0	0.80	A	
	1	2	3	X	66.40;-58.04;31.06			57;0;46			32.41;-25.04;0.00		0	0.80	A	
	1	1	4	X	65.98;-58.50;31.06			61;0;58			17.81;-27.96;0.00		0	0.80	A	
	2	4	5	X	67.22;-57.10;31.69			59;0;18			51.12;-7.72;0.00		0	0.80	A	
	2	3	6	X	66.80;-57.56;31.69			60;0;26			42.67;-8.51;0.00		0	0.80	A	
	2	2	7	X	66.40;-58.04;31.69			60;0;39			32.41;-15.58;0.00		0	0.80	A	
	2	1	8	X	65.98;-58.50;31.69			60;0;51			23.95;-24.23;0.00		0	0.80	B	
	3	4	9	X	67.22;-57.10;32.31			64;0;16			48.90;7.99;0.00		0	0.80	B	
	3	3	10	X	66.81;-57.57;32.31			70;0;11			50.06;29.60;0.00		0	0.80	B	
	3	2	11	X	66.39;-58.03;32.31			68;0;68			-7.09;28.13;0.00		0	0.80	B	
	3	1	12	X	65.98;-58.50;32.31			66;0;53			8.84;-15.97;0.00		0	0.80	B	
	4	4	13	X	67.22;-57.10;32.94			70;0;17			41.09;29.55;0.00		-0	0.80	C	
	4	3	14	X	66.80;-57.56;32.94			66;0;47			13.06;-8.03;0.00		0	0.80	B	
	4	2	15	X	66.40;-58.04;32.94			69;0;65			-10.07;-22.02;0.00		0	0.80	C	
4	1	16	X	65.98;-58.50;32.94			69;0;70			-13.37;-29.00;0.00		0	0.80	C		

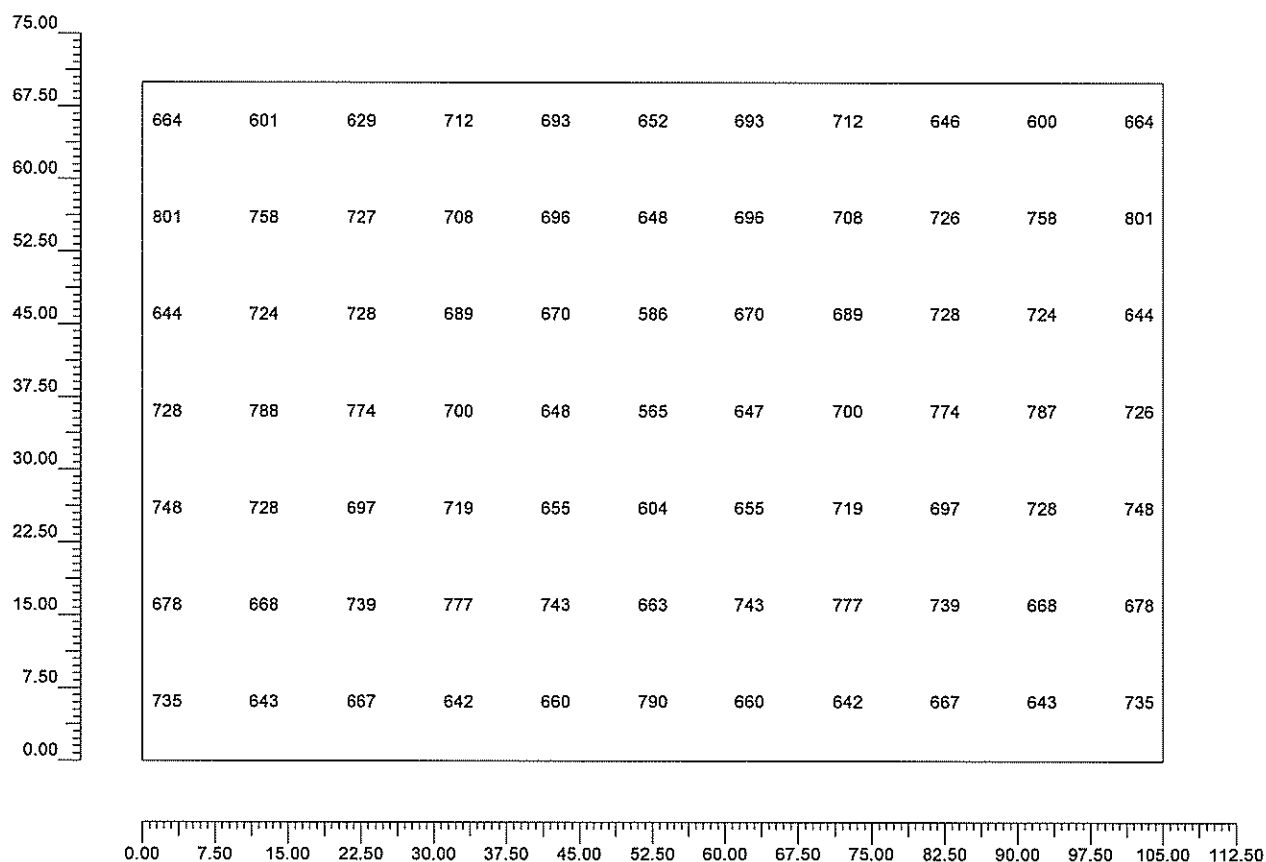
4.1 Horizontal Illuminance Values on the Working Plane

O (x:-52.00 y:-35.00 z:1.00)	Results	Average	Minimum	Maximum	Min/Ave	Min/Max	Ave/Max
DX:10.00 DY:10.00	Horizontal Illuminance (E)	697 lux	565 lux	801 lux	0.81	0.71	0.87

Calculation Type

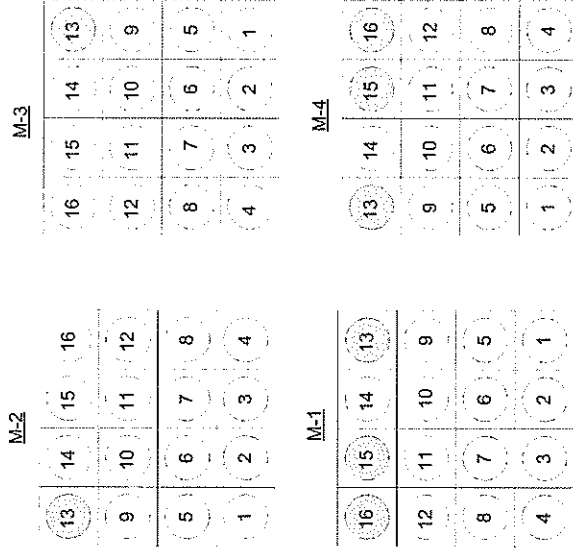
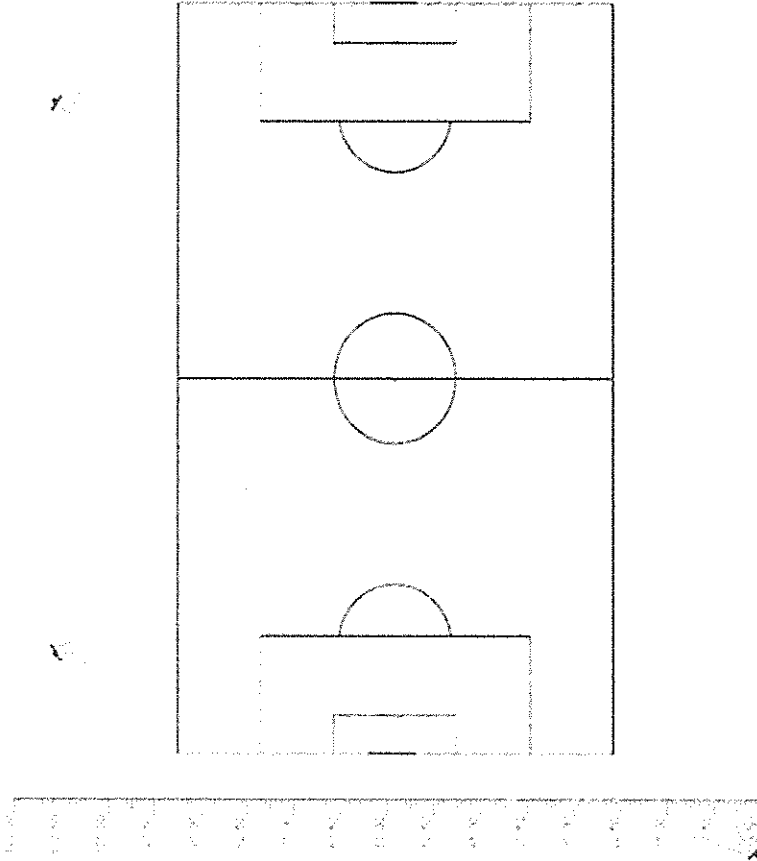
Dir.+Indir.(7 Inter-Reflections) + Furnit.

Scale 1/750



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Prožektorių išdėstymo ant atramų schema



- Ray 2000W/400V/7° - 12A HQL-TS
- Ray 2000W/400V/15° - 12A HQL-TS
- Ray 2000W/400V/34° - 12A HQL-TS

Atramų išdėstymo planas

UAB "LIGHT CONSULTING GROUP"		Aptarnaujama projektas: Šiaulių stadionas - Lietuva	
Ukės g.5, Vilnius LT-05308 Lietuva Tel: +370 6 278 47 65 Fax: +370 6 278 47 63 Mob: +370 85560032		Antrasis: Projektinių išdėstymų ant atramų	
E-mail: laura.karakeviciute@lkgroup.lt		Projekto numeris: LTV2008024/L	
		Projektavė: Laura Karakeviciute	
		Data: 22/11/2009	
Visas apžvelgti yra kompiuterinių spažduvinių rezultatai. Reikšmingi nesutapimai gali skirtis dėl žmogaus įtakimo, matavimų šviesumų išdėstymo išplanuose atvira.			