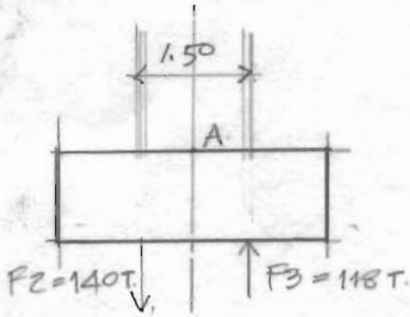


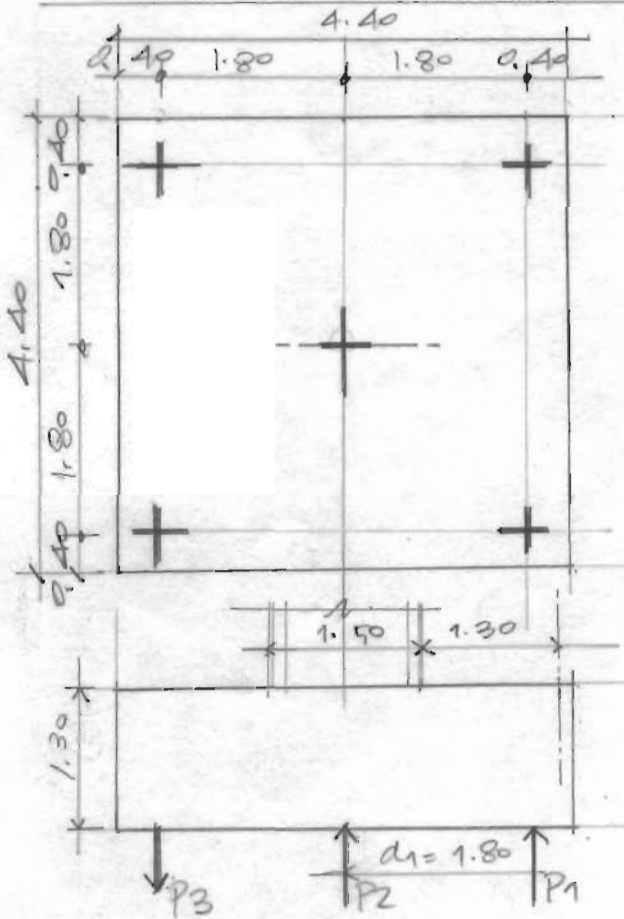
# TRUSS TOWER CRANES.

Содержание: расчеты и чертежи № 6751.

ALFA TYPE A803 (A5-A6)



$F_2 = 140 \text{ T}, F_3 = 118 \text{ T}$  (WITH BALLAST & NO SERVICE)  
 $DL = 37 \text{ T}$  (WITHOUT LOAD & BALLAST)  
 $\therefore$  Moment at column =  $140(0.75) + 118(0.75)$   
 $= 193.5 \text{ T-M}$   
 $V = 140 - 118 = 22 \text{ T}$   
 $\therefore$  Total weight =  $22 + 37 = 59 \text{ TON}$



weight  $4.40 \times 4.40 \times 1.40 = 65.05 \text{ TON}$   
 $V = 59 + 65 = 124 \text{ TON}$  (21.8 TON/pile)

$P_1 = \frac{P \pm Md_1}{n \cdot \Sigma d^2}$   
 $\Sigma d^2 = 4(1.8)^2 = 12.96 \text{ m}^2$   
 $P_1 = \frac{124}{5} + \frac{193.5(1.80)}{12.96} = 51.68 \text{ TON}$   
 $P_2 = \frac{124}{5} = 24.80 \text{ TON}$   
 $P_3 = 24.8 - 26.875 = -2.075 \text{ TON}$

Moment  $M = 108.53$

$M = 2 \times 51.68 \times 1.05 = 108.53 \text{ T-M}$

$d = \sqrt{\frac{108.53 \times 1000}{4.40 \times 9.81}} = 49.93 \text{ CM. USE } 1.30 \text{ M.}$

диаметр арматуры 0.25 м. (расстояние между стержнями)

$A_s = \frac{108.53 \times 1000 \times 100}{1400 \times 0.88 \times 130} = 67.76 \text{ cm}^2$

$\Sigma \sigma = \frac{2 \times 51.68 \times 1000}{12.12 \times 0.88 \times 130} = 74.56 \text{ cm}$

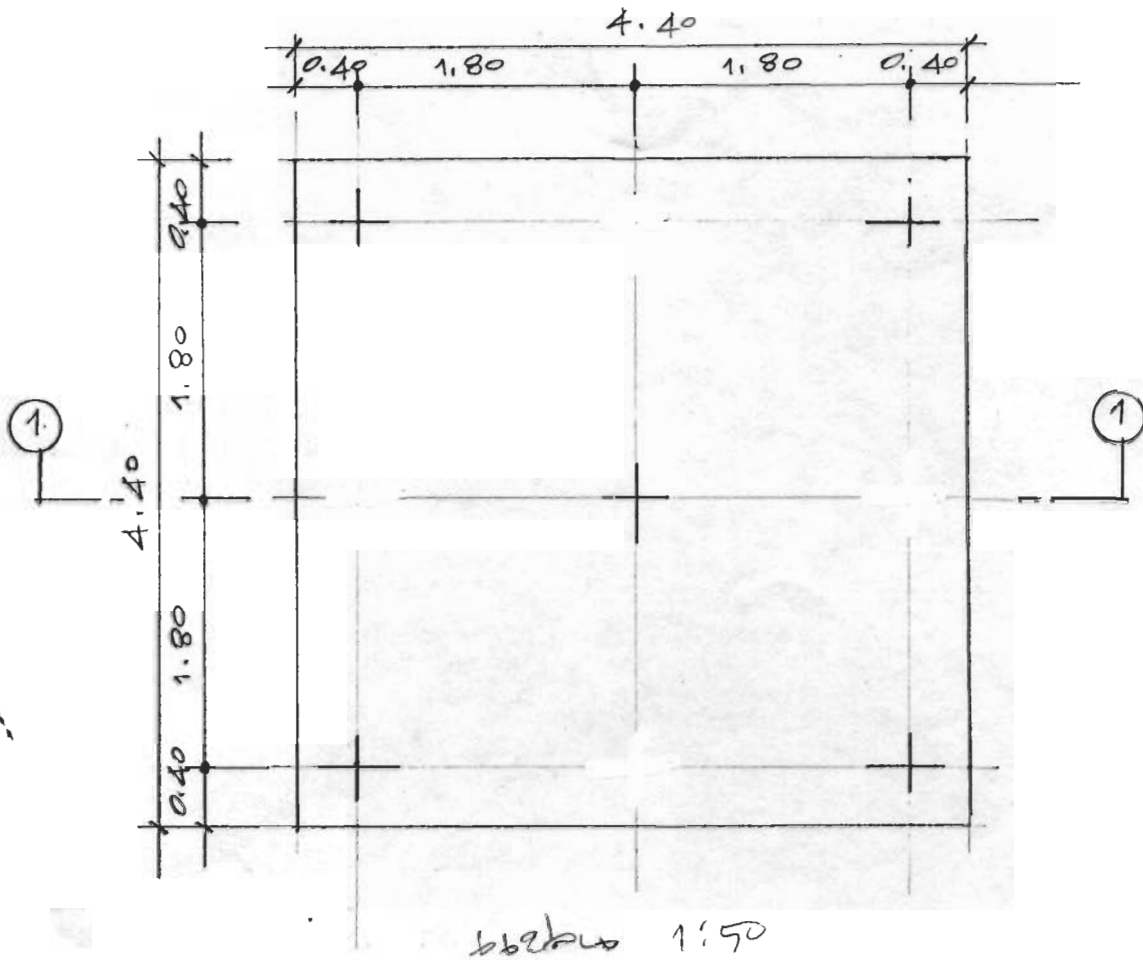
USE DB25 @ 0.25# (17 DB25) #

- Dowel Bar = - 2.075 TON/PILE  
 #DB25 = 0.62 TON/16cm

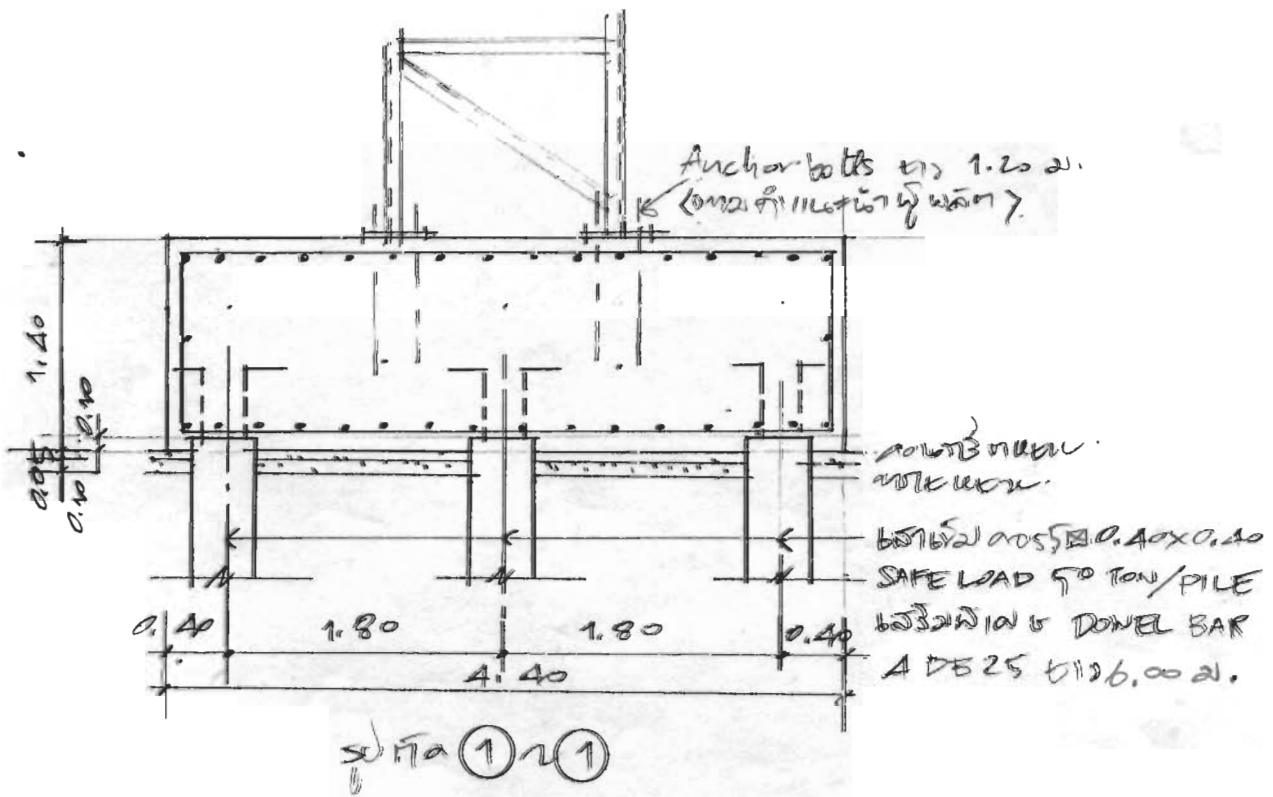
$\sigma = \frac{620}{\frac{\pi}{4}(2.5)^2} = 126 \text{ KSC} > 1400 \text{ KSC}$

6 DB DOWEL BAR #DB25 L10 6.00 M. OK

DB  
 №.6751



бетон 1:50



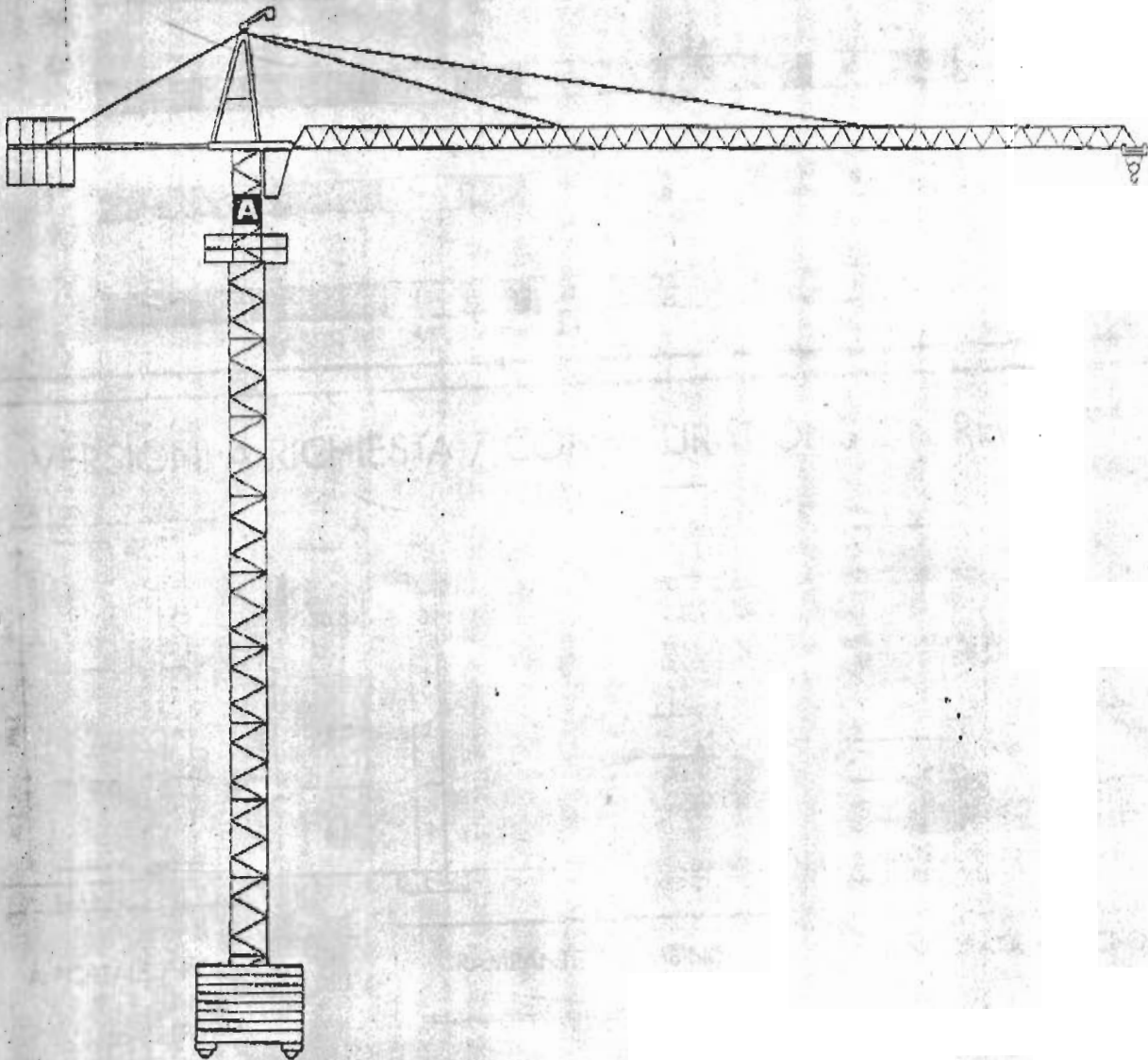
с/п/а ① ② ①

BT  
160751

# ALFA

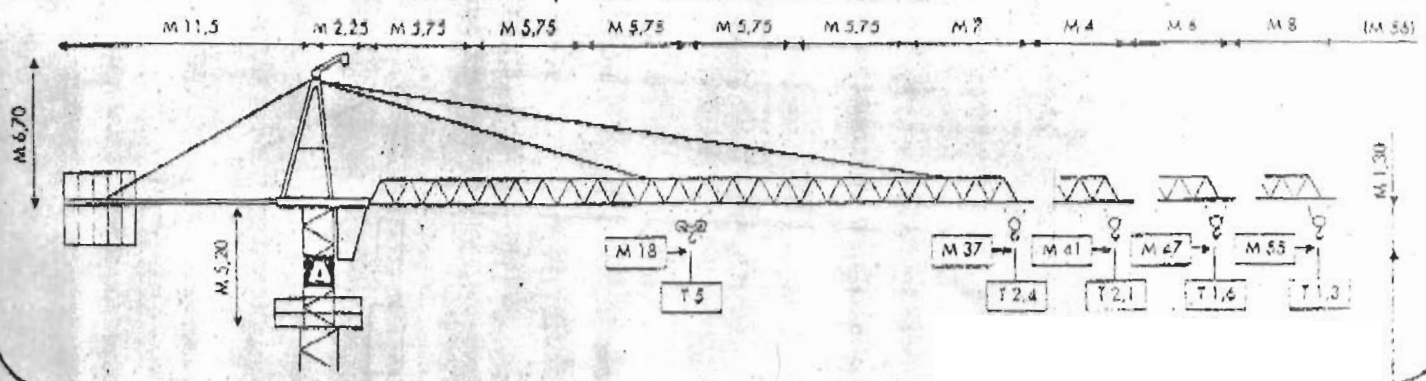
FA 1992

GRUPPO FINALFA

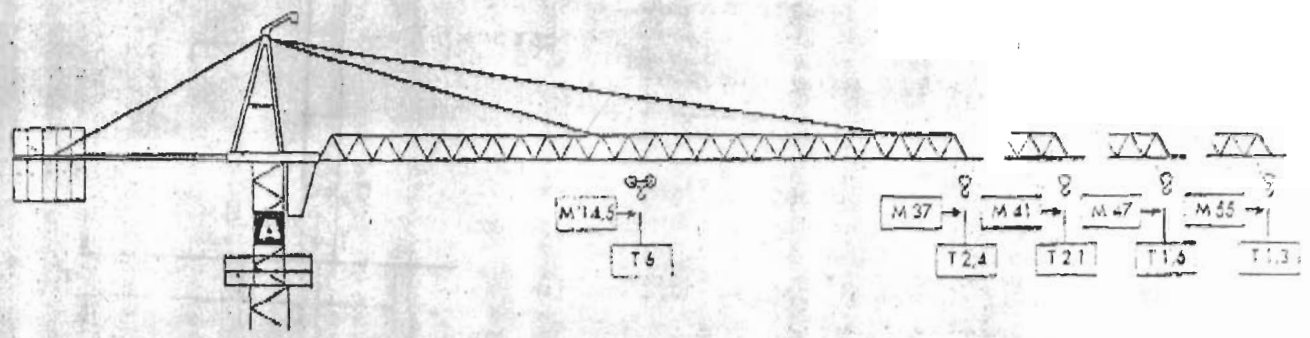


# HYDROMATIC A803S

### MODELLO/TYPE A 803 B5S - A5S - CITY. 55



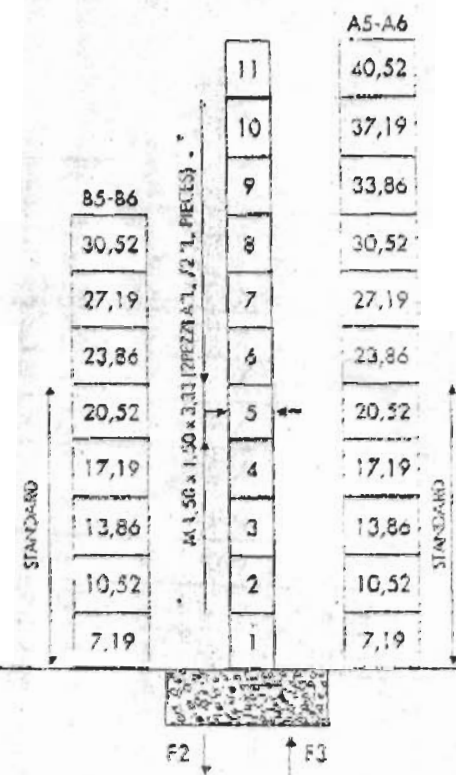
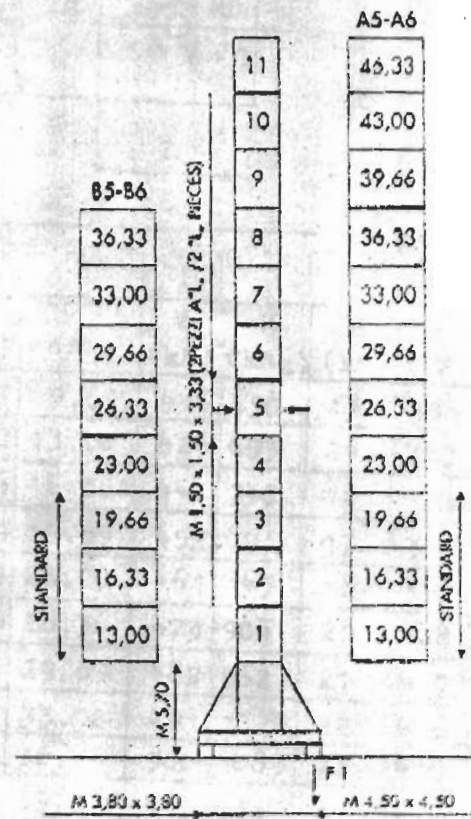
### A 803 B6S - A6S - CITY. 65



### COMPOSIZIONE TORRE/TOWER SECTIONS

TRASLANTE (FISSA SU CARRO - M 0,60)  
TRAVELLING (FIXED ON CARRIAGE - M 0,60)

FISSA SENZA CARRO  
FIXED WITHOUT CARRIAGE



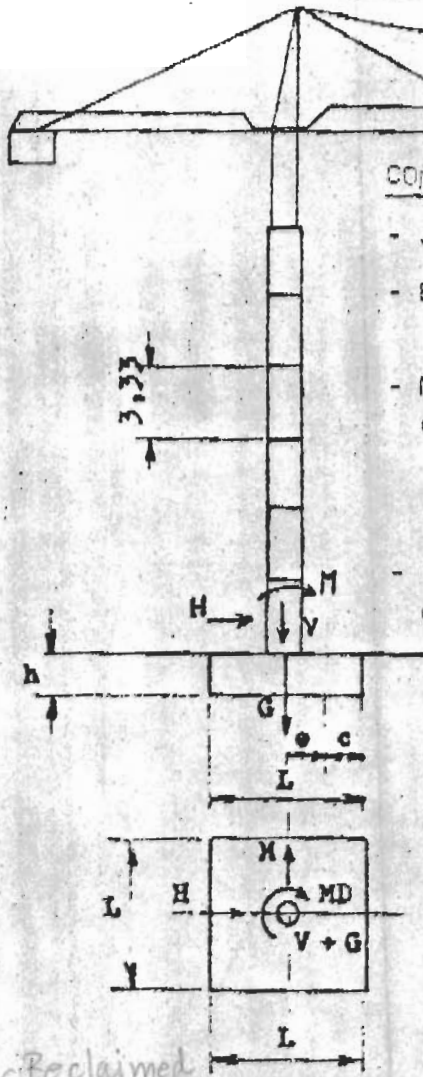
● IN ESERCIZIO / IN SERVICE  
■ FUORI ESERCIZIO / OUT OF SERVICE

F1	● T 65	■ T 66	F1	● T 69	■ T 86
	● T 37			● T 41	

F2	● T 94	■ T 81	F2	● T 107	■ T 140
F3	● T 69	■ T 60	F3	● T 81	■ T 118
	● T 34			● T 37	

AL CARRO (PECOME A RICHIESTA) / HOOK'S HEIGHT (SPECIAL ONE ON REQUEST)

CRANE A 303 A5-A8 ON ANCHORED MAST SECTION OR ON RECLAIMED FRAME SET - LOADS TRANSMITTED TO FOUNDATION PLINTH.



CONDITIONS FOR CRANE STABILITY :

- Jib free to slew with crane out of operation
- Eccentricity  $e = \frac{M \cdot H \cdot x_0}{V - G \times 8.81} = \frac{L}{3}$
- Maximum allowable ground pressure must not exceed

$$\sigma_B = \frac{3(V + G \times 8.81)}{3 \times L \times a}$$

- Trolley at minimum radius with crane out of operation

G = plinth weight (tonn)

Torque moment (only with crane in operation)

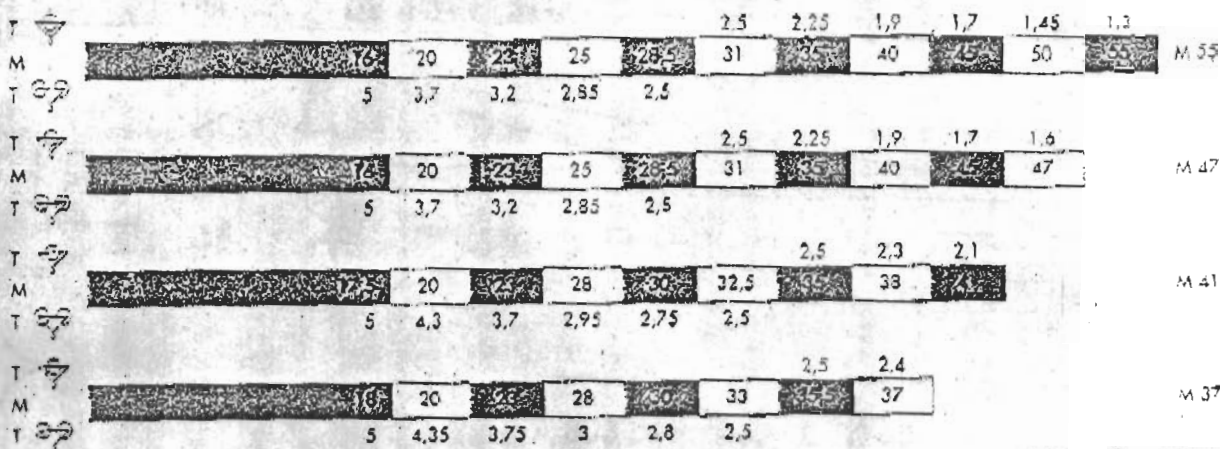
MD = 130 kNm

Reclaim

Reclaimed

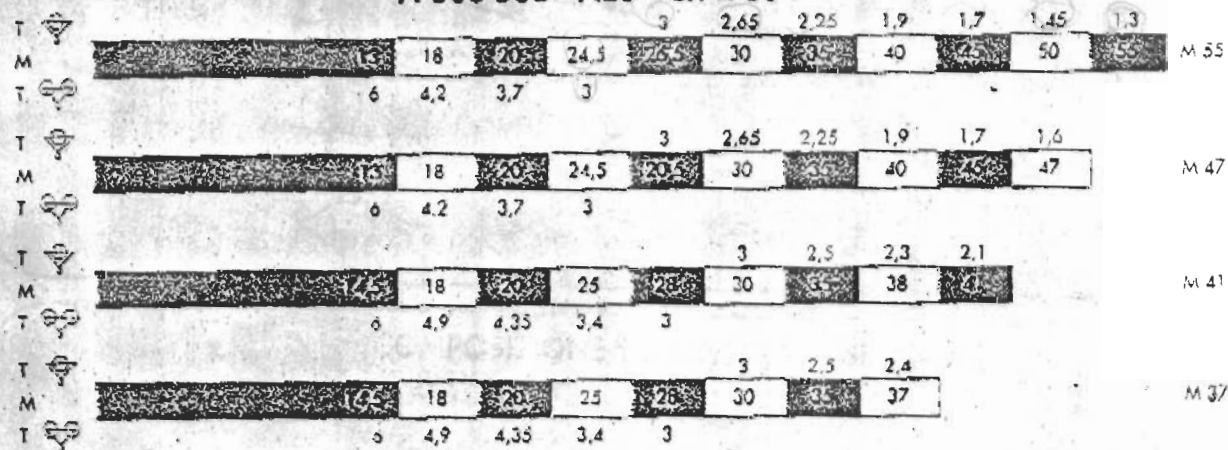
NO. OF TOWER SECTIONS	H. UNDER HOOK		CRANE IN OPERATION			CRANE OUT OF OPERATION								
	Reclaim med	Anchor fr mast.	V (kN)	M (kNm)	H (kN)	V (kN)	AREA I		AREA II		AREA III		AREA IV	
							M (kNm)	H (kN)	M (kNm)	H (kN)	M (kNm)	H (kN)	M (kNm)	H (kN)
1	7,49	9,69	416	650	13	351	/	/	/	/	/	/	/	/
2	10,52	13,02	428	693	14	363	/	/	/	/	/	/	/	/
3	13,86	16,36	440	740	16	375	/	/	/	/	/	/	/	/
4	17,19	19,69	452	791	17	386	/	/	/	/	/	/	/	/
5	20,52	23,02	461	845	18	397	175	39	358	51	540	63	722	76
6	23,86	26,36	473	904	20	408	320	43	544	56	767	70	991	82
7	27,19	29,69	482	962	21	417	470	46	734	60	997	74	1261	88
8	30,52	33,02	491	1024	22	426	636	49	942	64	1249	80	1556	94
9	33,86	36,36	500	1089	23	433	817	53	1170	69	1522	85	1875	100
10	37,19	39,69	510	1157	24	444	1015	56	1417	73	1818	90	2220	107
11	40,52	43,02	519	1229	25	454	1230	60	1684	77	2137	95	/	/

A 803 B55 - A55 - CITY. 55



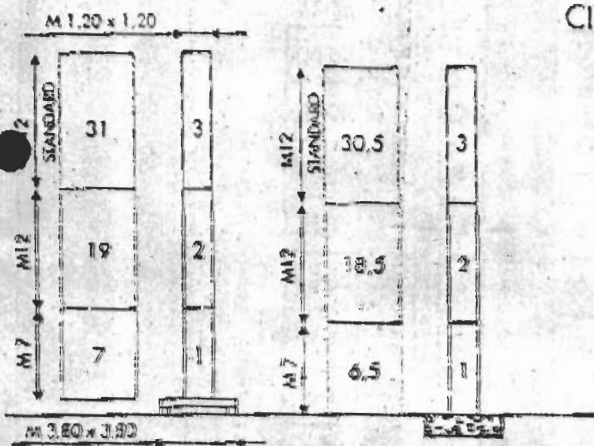
= - KG 200

A 803 B65 - A65 - CITY. 65



VERSIONI A RICHIESTA / CONFIGURATIONS ON REQUEST

CITY.



A PORTALE / PORTAL



RAMPANTE / CLIMBING



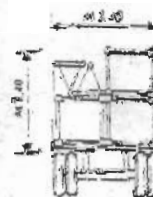
ANCORATA / ANCHORED



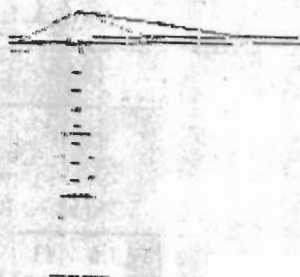
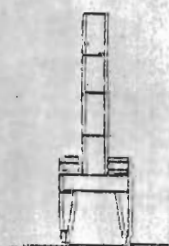
APPOGIATA AL SUOLO / RESTED ON GROUND



ZANCATÀ AL PUNTO / ANCHORED TO PLINTH



ANCORATA / ANCHORED



STATIC CRANE WITHOUT UNDERCARRIAGE ON REUSEABLE FRAME SET

