

REV.	ISSUE	FIRMA SIGNATURE	DATA DATE	DATA DATE	FIRMA SIGN.



DATA

DATE

FIRMA

SIGNATURE

PAG.

PAGE

REVISIONE
ISSUE

0

2-4-1998

6 / 9

CRANE NOT IN OPERATION
WITH OUT WIND

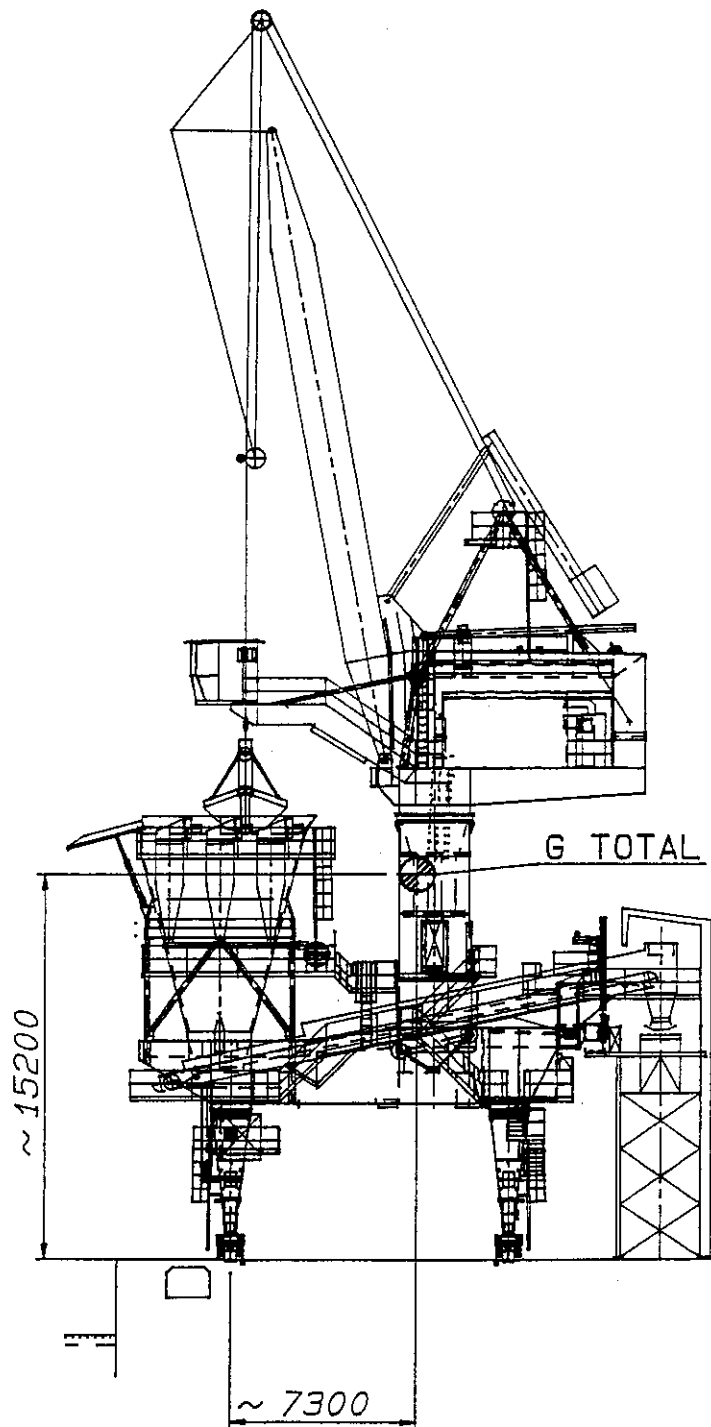
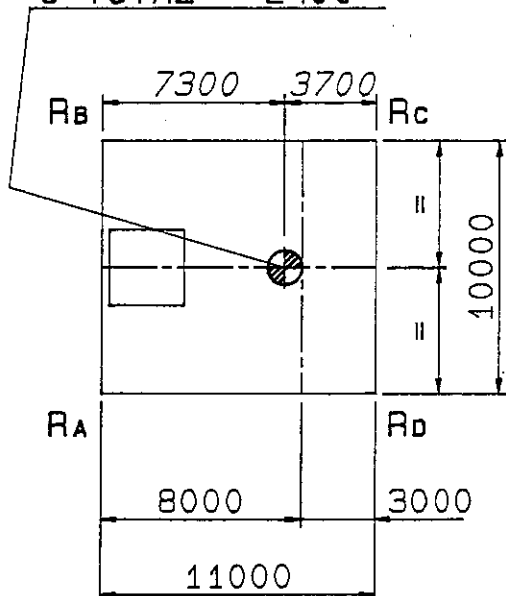
$$R_A = 70 \text{ t}$$

$$R_B = 70 \text{ t}$$

$$R_C = 140 \text{ t}$$

$$R_D = 140 \text{ t}$$

G TOTAL = 240t



DATA
DATEFIRMA
SIGNATUREPAG.
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ISSUE

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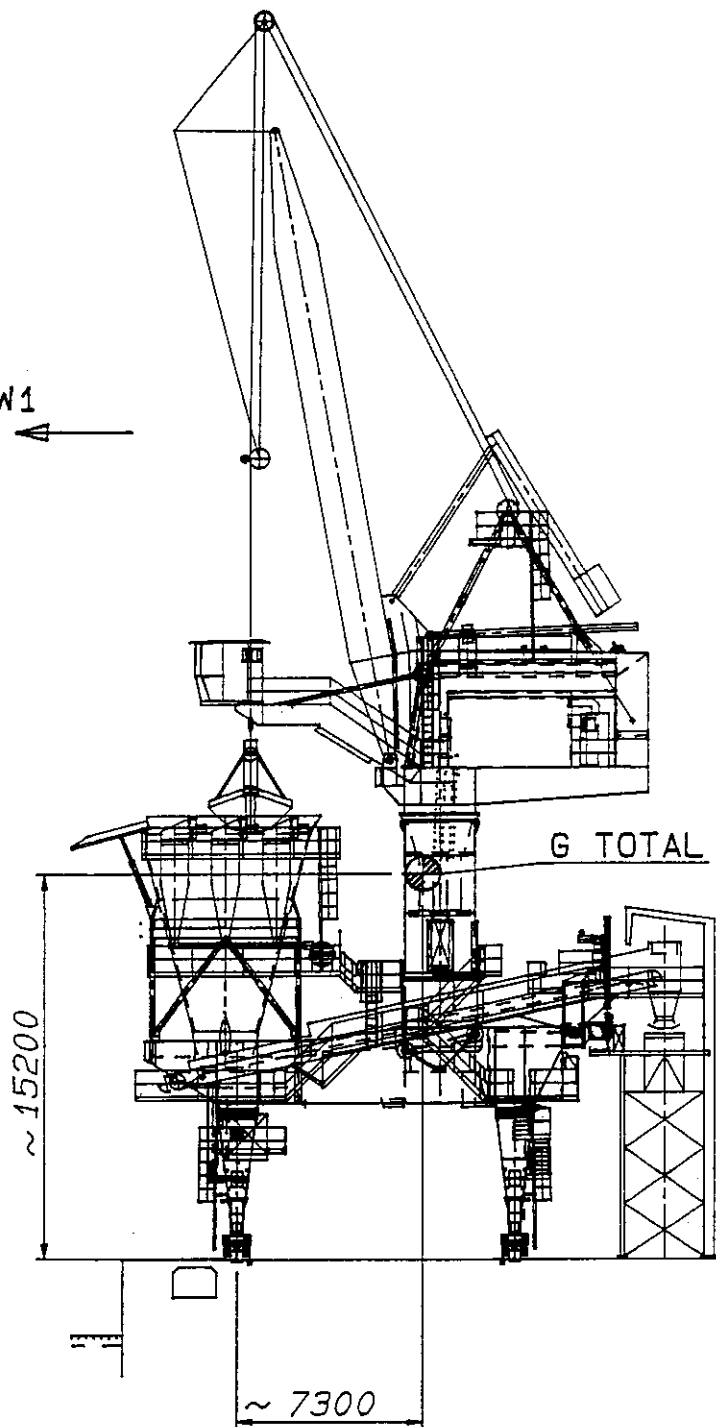
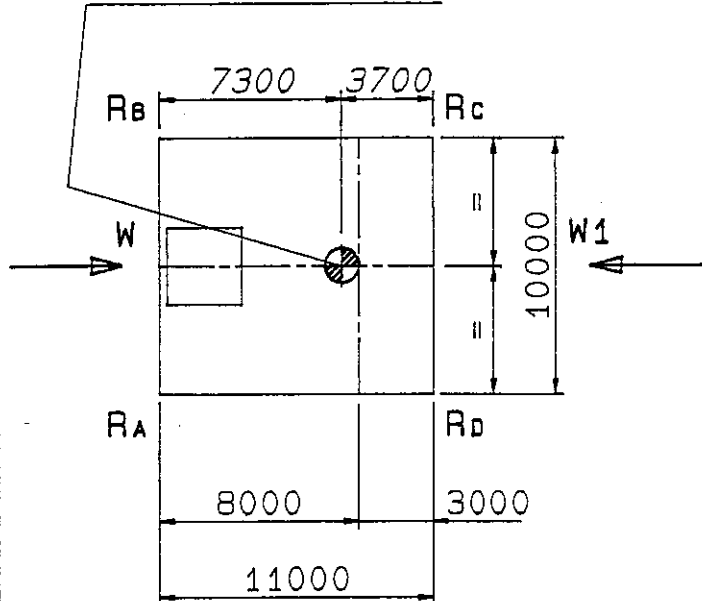
2-4-1998

SR

7 / 9

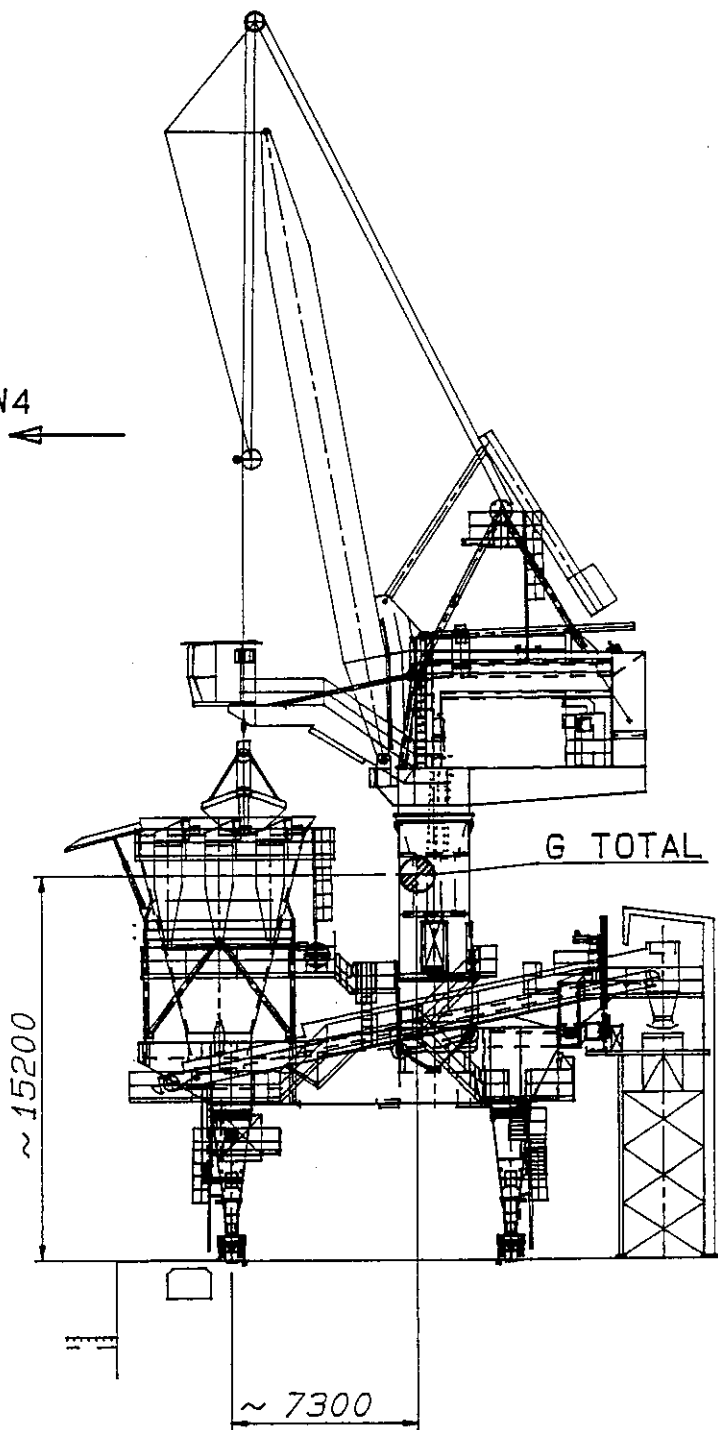
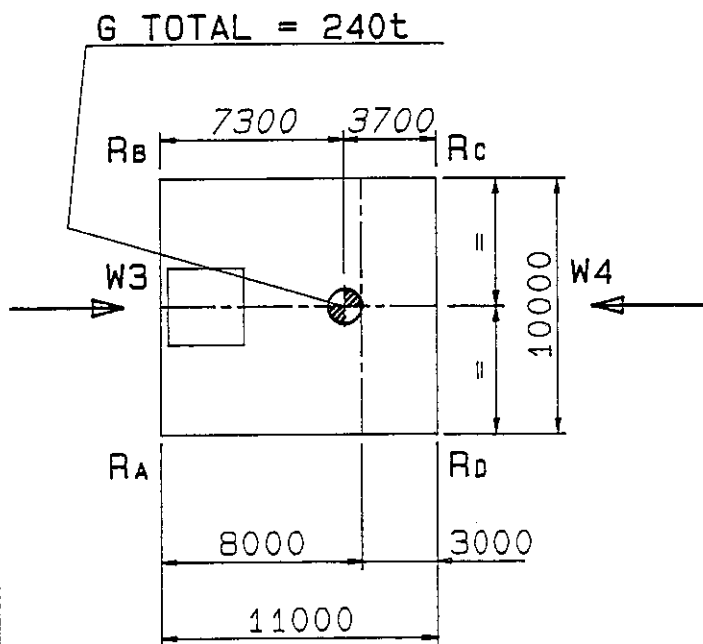
CRANE NOT IN OPERATIONWIND 25 Kg/m² = 72 Km/h

G TOTAL = 240t

WITH W $R_A = 60 \text{ t}$ $R_B = 60 \text{ t}$ $R_C = 150 \text{ t}$ $R_D = 150 \text{ t}$ WITH W₁ $R_A = 80 \text{ t}$ $R_B = 80 \text{ t}$ $R_C = 130 \text{ t}$ $R_D = 130 \text{ t}$



CRANE NOT IN OPERATION
WIND 110 Kg/m² = 151 Km/h



WITH W3

RA = 19 t

RB = 19 t

RC = 185 t

RD = 185 t

WITH W4

RA = 115 t

RB = 115 t

RC = 89 t

RD = 89 t

DATA
DATEFIRMA
SIGNATUREPAG.
PAGEREVISIONE
ISSUE

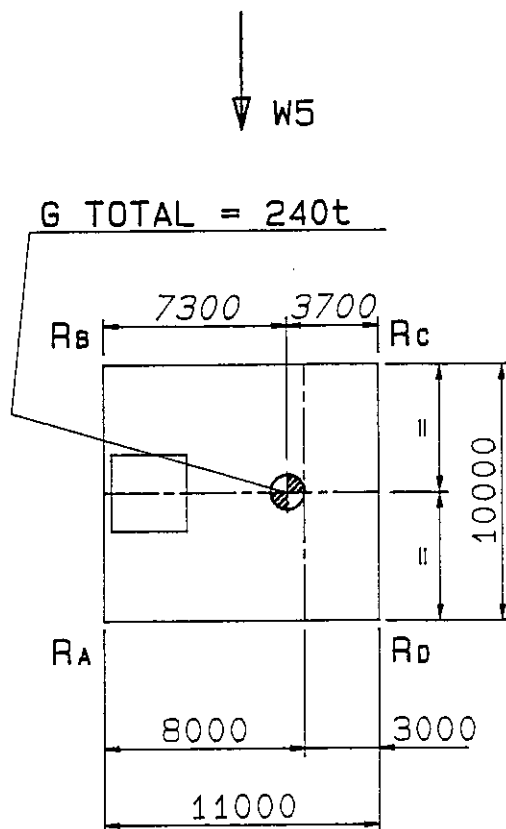
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2-4-1948

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SIGNATURE

9 / 9

CRANE NOT IN OPERATION

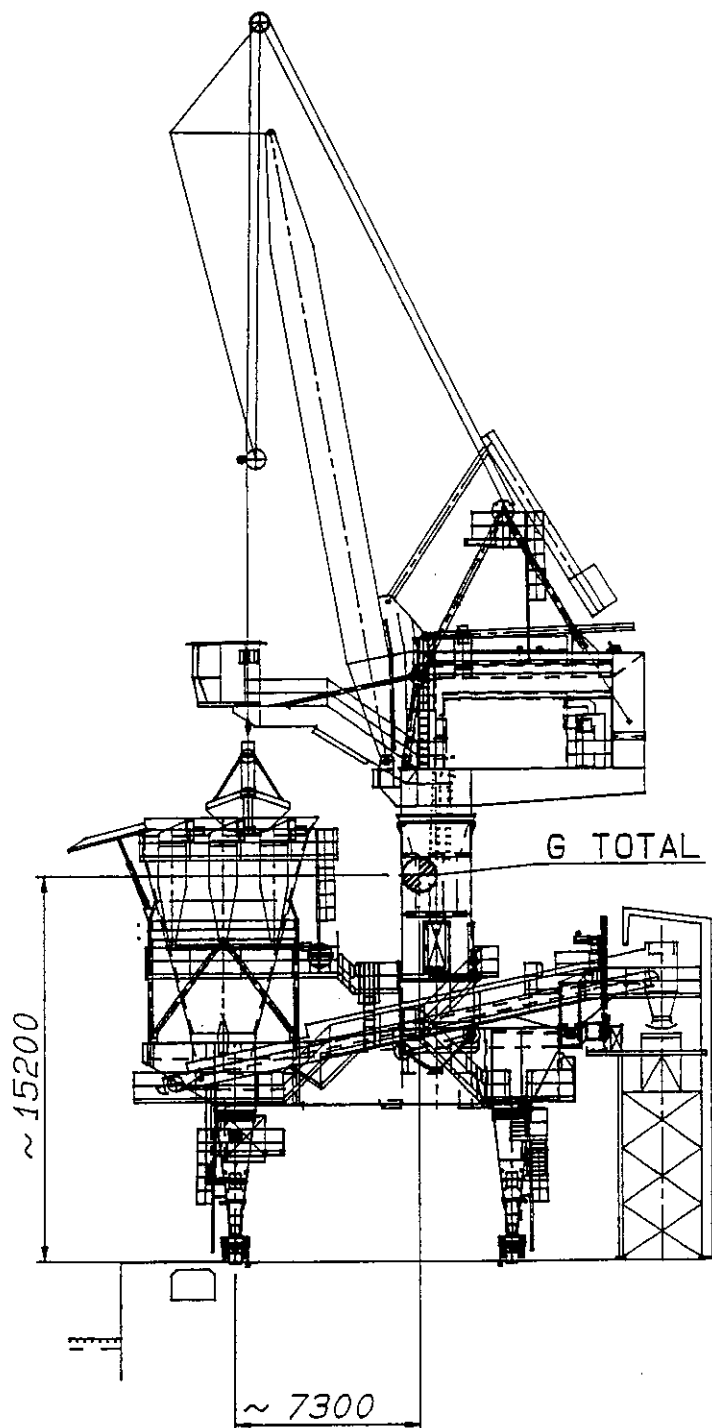
WIND 110 Kg/m² = 151 Km/h

↑ W6

WITH W5

R_A = 14 tR_B = 120 tR_C = 190 tR_D = 84 t

WITH W6

R_A = 120 tR_B = 14 tR_C = 84 tR_D = 190 t

SCHEMA DI MONTAGGIO VEDI DIS.423601
ASSEMBLY DIAGRAM SEE DWG.423601

Kg 3160

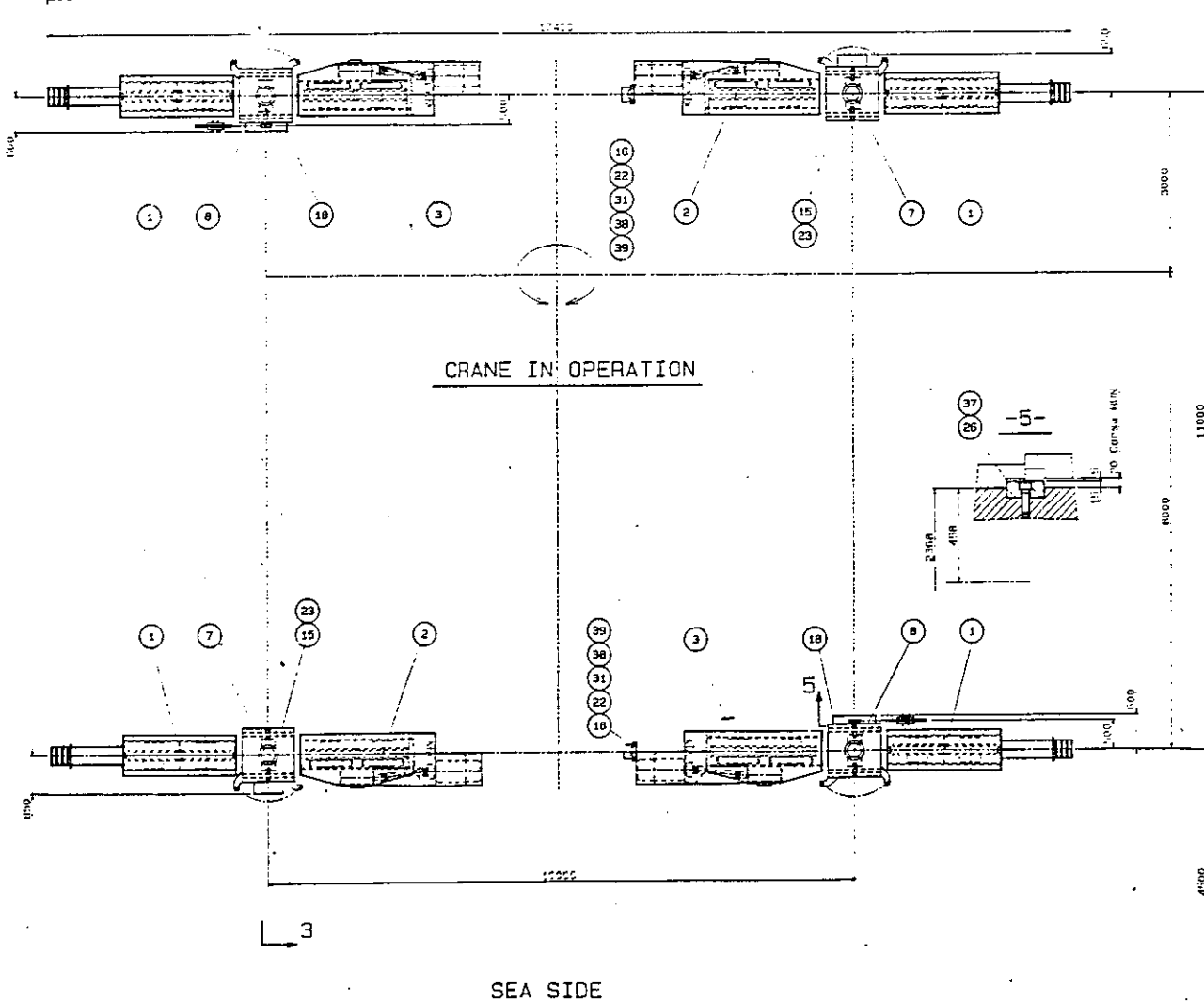
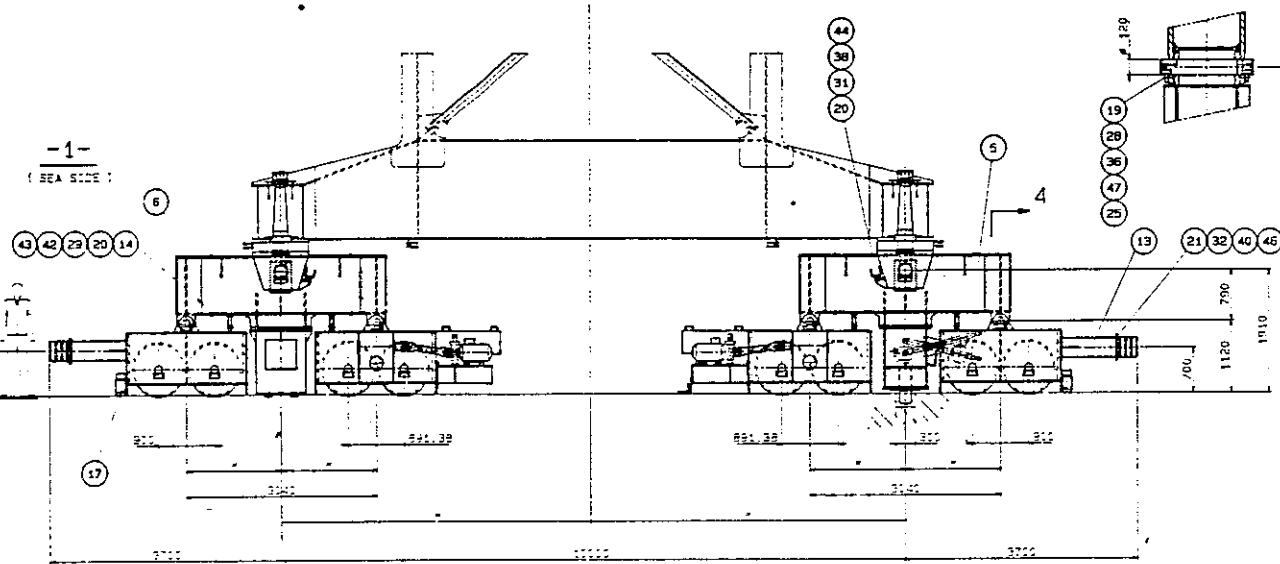
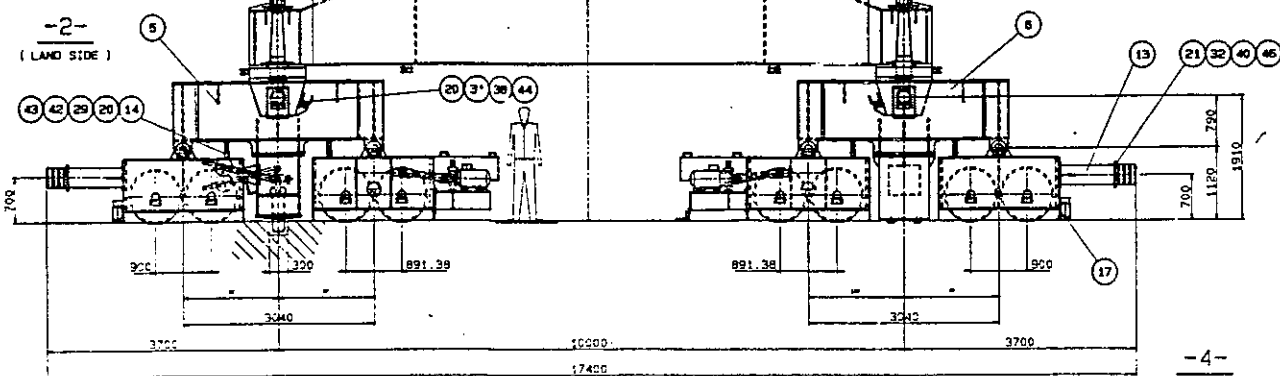
82						
81						
80						
79						
78						
77						
76						
75						
74	Galvanized	Wascher 13	5	6592	R80	
73	"	Wascher A25	5	1751	C72	
72	"	Wascher A21	8	1751	C72	
71	"	Wascher A17	26	1751	C72	
70	"	Wascher A13	26	1751	C72	
69						
68						
67	"	Nut M24	5	5588	6 S	
66	"	Nut M16	6	5588	6 S	
65	"	Nut M12	2	5588	6 S	
64	"	Nut M10	8	5588	6 S	
63						
62						
61	"	Screw M24 x 60	5	5739	8.8	
60	"	Screw M20 x 40	8	5739	8.8	
59	"	Screw M16 x 60	2	5739	8.8	
58	"	Screw M16 x 40	12	5739	8.8	
57	"	Screw M16 x 35	4	5739	8.8	
56	"	Screw M12 x 90	2	5737	8.8	
55	"	Screw M12 x 50	2	5739	8.8	
54	"	Screw M12 x 30	8	5739	8.8	
53						
52						
51	"	Screw M 8 x 35	2	5739	8.8	
50	"	Screw M 8 x 20	8	5739	8.8	
49	Galvanized	Screw M 8 x 25	2	5449	4 S	
48						
47		Handwheel M12x30 Tipe LP 60	5		ATAL	
46						
45		Motor 160L	1			95
44	465556	Brake #250	1			37
43						
42						
41	Galvanized	Screw rivet #3.5	4		Acc.	
40	485999	Plate	1			
39		Plug T9 1/4" Gas	2	5210	G.M.	
38		Lubricator B1/4" Gas	2	7662		
37		Air-hole SFP30-16x15+F	1		Eleso	
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT

36		Ring nut GUK 90x2	1			
35		Key 16x10x90	1	92	C 40	
34		Key 28x16x140	1	92	C 40	
33		Angus MIM 6090	1			
32		Angus MIM 125160	1			
31		Bearing 30313	2		SKF	6
30		Bearing 22222CC/W33	1		SKF	5
29		Bearing 6318	1		SKF	5
28	1.030.7.7530	Worm screw torque	1			65
27	465579	Cardan shaft	1			15
26	1.500.0.0501	Oil level Type B	1			0.3
25	464652/A	Drive wheel	2			1188
24	1.109.0.3102	Gasket	1			0.1
23	1.030.7.8007	Protection for gears	1			34
22	423598	Frame x motor/brake	1		RIGHT	165
21	443440	Protection mot./bra.	1		RIGHT	49
20						
19	1.030.4.8504	Coovering	2			2
18	0.141.12.000	Stop plate	4			8
17	0.145.01.006	Locking disc	1			0.3
16	1.030.7.6000	Sleeve	1			5.5
15	1.109.0.3010	Coovering	1			4.5
14	0.250.38.023	Spacer	4			4
13	0.251.33.012	Spacer	2			0.4
12	0.254.63.015	Spacer	1			1
11	0.249.17.022	Spacer	1			0.6
10	465571	Pin #130	2			120
9	1.030.7.4002	Pinion M14 - Z13	1			48
8	0.281.15.100	Coovering	1			1.5
7	0.283.15.100	Coovering	1			2
6	0.283.22.004	Coovering	1			3
5	465574	Brake band #250	1			17.5
4	1.030.7.3000	Flange	1			31
3	1.030.7.3503	Hub	1			42
2	1.030.7.3001	Flange	1			19.5
1	423594	Housing	1			1165

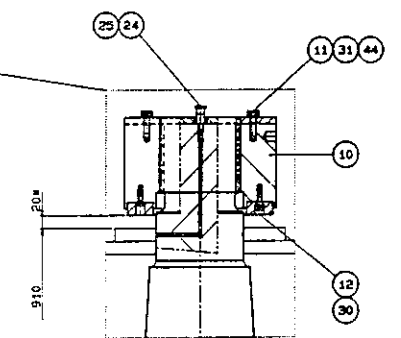
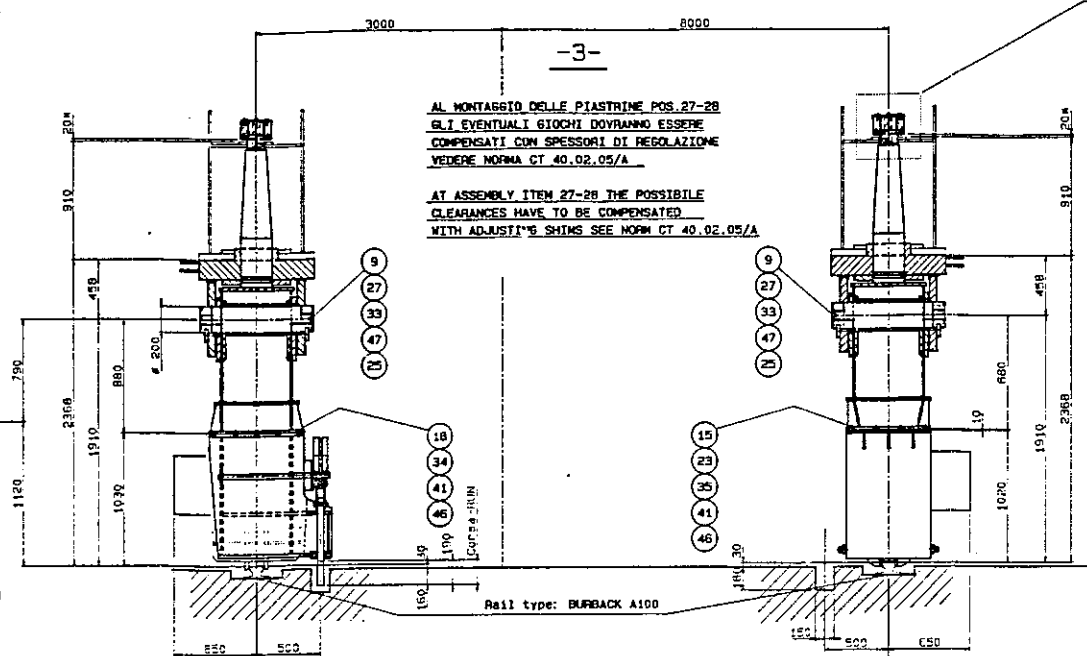
CERETTI TANFANI S.p.A.			
MILANO - ITALY			
RIDUTTORE TIPO REDUCER TYPE		WORM GEAR	
N° SERIE SERIAL N°	S.1085	CLASSE CLASS	M 5
POTENZA POWER	12,5 kW	GIRO/MIN R.P.M./MIN	1740
RAPPORTO RATIO	1:45/	ANNO YEAR	1995
CARATTERISTICHE DEL LUBRIFICANTE/LUBRICANT CHARACTERISTICS			
BLASIA 320 (Agip)			

TECHNIPETROL SpA		APPROVAL OF THIS DRAWING IS RESTRICTED TO THE GENERAL CHARACTERISTICS OF THE DESIGN AND TO PRINCIPAL DIMENSIONS ONLY. CORRECTIONS, IF ANY, SHALL BE NOTED THEREON OR IN A TECHNIPETROL APPROVAL LETTER WITH THIS APPROVAL TECHNIPETROL DOES NOT ASSUME ANY RESPONSIBILITY FOR THE CORRECTNESS OF THE DESIGN AND THE CONSTRUCTION NOR FOR THE PERFORMANCE OF THE EQUIPMENT AND ITS SAFETY IN ACCORDANCE WITH THE REQUIREMENT OF THE ORDER.	
PROJ: SUGAR REFINERY		APPROVED	
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA		APPROVED AS NOTED	
MATERIAL REQUISITION No.		NOT APPROVED	
2551 MR		FINAL DRAWING	
ITEM		APPROVAL SECTION BY DATE	
		RD Dwg. CODE:	

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV. ISSUE	VARIAZIONI / MODIFICATIONS					
E						
D						
C						
B						
A						
		DISEGNATO DRAWN BY		DISEGNATO DRAWN BY		SCALA SCALE
		* Bolzani		* Bolzani		//
		CONTROLLATO CONTROLLED		CONTROLLATO CONTROLLED		
		* VISTO APPROVED		* VISTO APPROVED		DATA DATE
						1995
Ceretti impianti Tanfani di sollevamento e trasporto 20020 Certano Legheto (MI) Via Milano 10/12 ITALIA						
PROPRIETÀ RISERVATA. A termini di legge la ST CERETTI TANFANI S.p.A. si riserva la proprietà del presente disegno, che pertanto non può essere né riprodotto né comunicato a terzi senza la esplicita preventiva autorizzazione della ST CERETTI TANFANI S.p.A. DESIGN AND DETAIL SHOWN ON THIS DOCUMENT ARE ST CERETTI TANFANI'S PROPERTY AND MUST NOT BE USED OR COPIED WITHOUT THEIR AUTHORIZATION. ALL RIGHT OF DESIGN AND INVENTION ARE RESERVED.						
Bilanciamento motore per ruote #800 Driven bogie for wheels #800			Ricevuto da / Taken from:			
INSIEME DESTRO RIGHT ASSEMBLY			S.1085 443428			



$$V = \frac{n}{R_{YST}} \times \frac{Z_1}{Z_2} \times 3,14 \times \rho_M = \frac{1740}{45} \times \frac{13}{50} \times 3,14 \times 0,800 = 25,25 \text{ м/л'}$$



20* Quota da rispettare durante il montaggio della ghiera pos.10 ed il posizionamento della chivetta pos.11.

20# DIMENSION TO BE RESPECTED DURING THE ASSEMBLY OF THE NUT RING
ITEM 10 AND THE KEY POSITIONING ITEM 11.

Al montaggio in officina, proteggere tutti i perni con:
" LOCTITE ANTIGRIPPANTE "

AT ERECTION IN WORKSHOP GREASE THE PINS WITH
" LOCTITE ANTIS" "ZE" PASTE

-For the description of the belts see document CTE 32.54 The belts in material p.8 should be tightened by means of a symmetrical approach with the following signifying numeric:

SALVATIZED BELTS	
WEL	312 mm
WEL	383 mm
WEL	454 mm
WEL	525 mm

TOTAL WEIGHT : Kg 42920

[illegible]

TECHNIPETROL <i>Appl</i>		Approved by the National Security Council on 11-11-60 This document contains information which is classified as "Secret" under the provisions of Executive Order 11652, dated 5-22-60, and is to be controlled, stored, handled, transmitted, and disposed of in accordance with the provisions of that order. It is to be destroyed when it is no longer needed for official use.	
FROM: SAULAN REPRESENTATIVE		APPROVED ☐	
CLIENT: UNITED STATES CO. - JESSON - S. JAVANA		APPROVED AS NOTED ☐	
NATIONAL INCLUSION BY:		NOT APPROVED ☐	
DOW 1001 422701		FINAL COMMENTS	
APPROVED ☐		COMMENTS	
11-4-01 A Z		NO DOW CODE 5450	

[illegible]

SCHEMA DI MONTAGGIO VEDI DIS.423601
ASSEMBLY DIAGRAM SEE DWG.423601

Kg 3160

CERETTI TANFANI S.p.A. MILANO - ITALY			
RIDUTTORE TIPO REDUCER TYPE		WORM GEAR	
N° SERIE SERIAL N°	S.1085	CLASSE CLASS	M 5
POTENZA POWER	12,5 kW	GIRI/MIN R.P.M./MIN	1740
RAPPORTO RATIO	1:45/ =	ANNO YEAR	1995
CARATTERISTICHE DEL LUBRIFICANTE/LUBRICANT CHARACTERISTICS			
BLASIA 320 (Agip)			

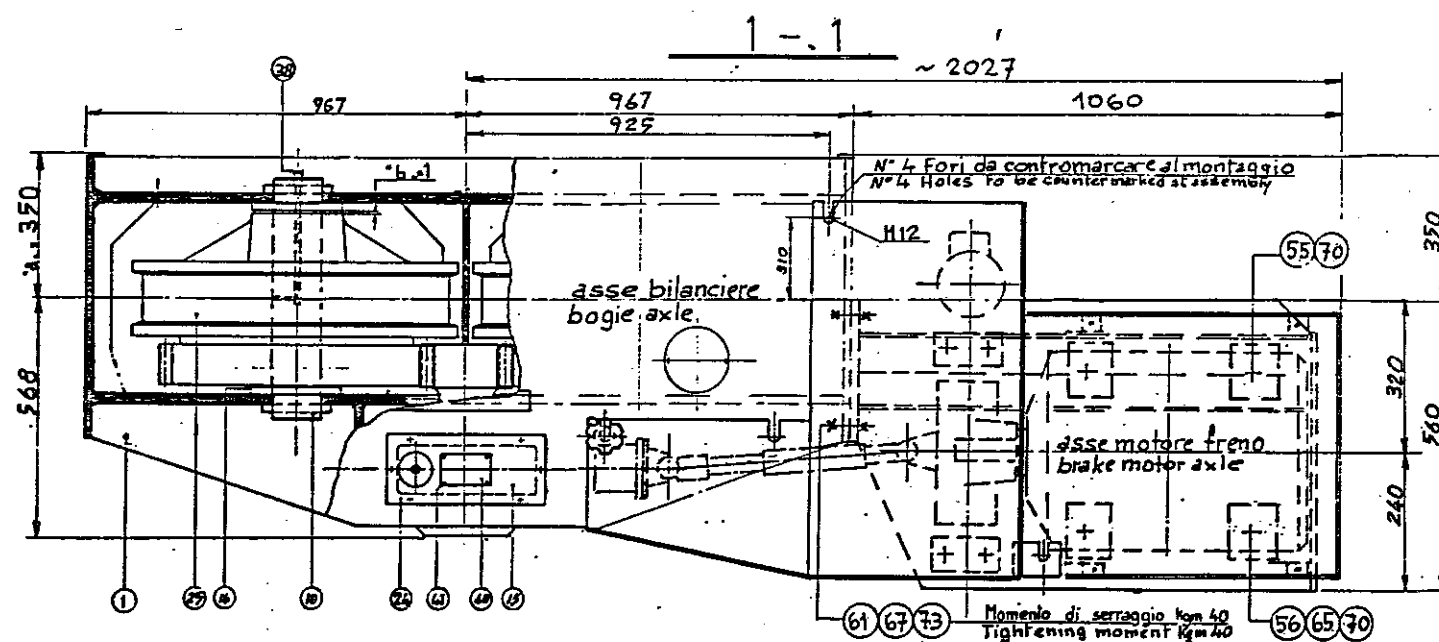
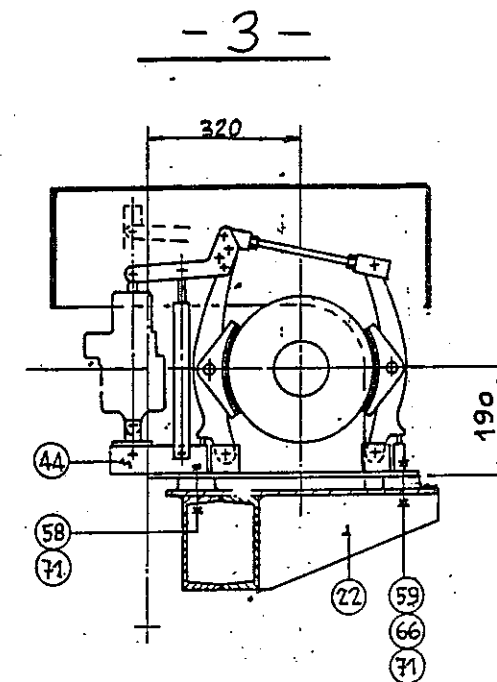
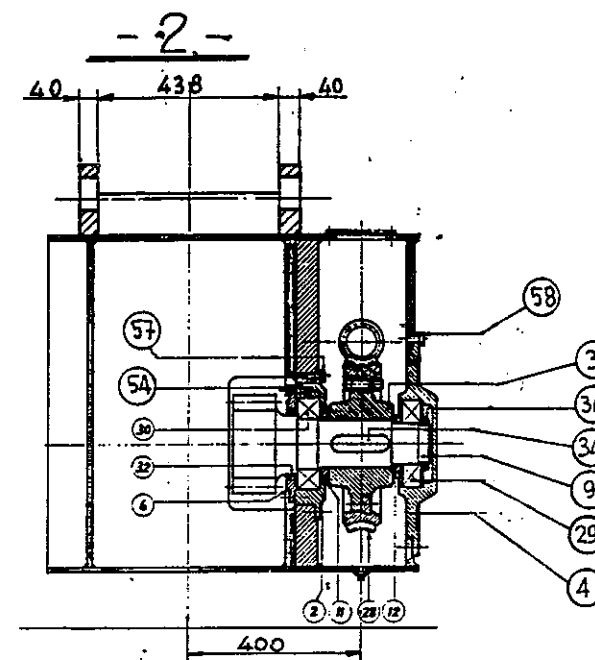
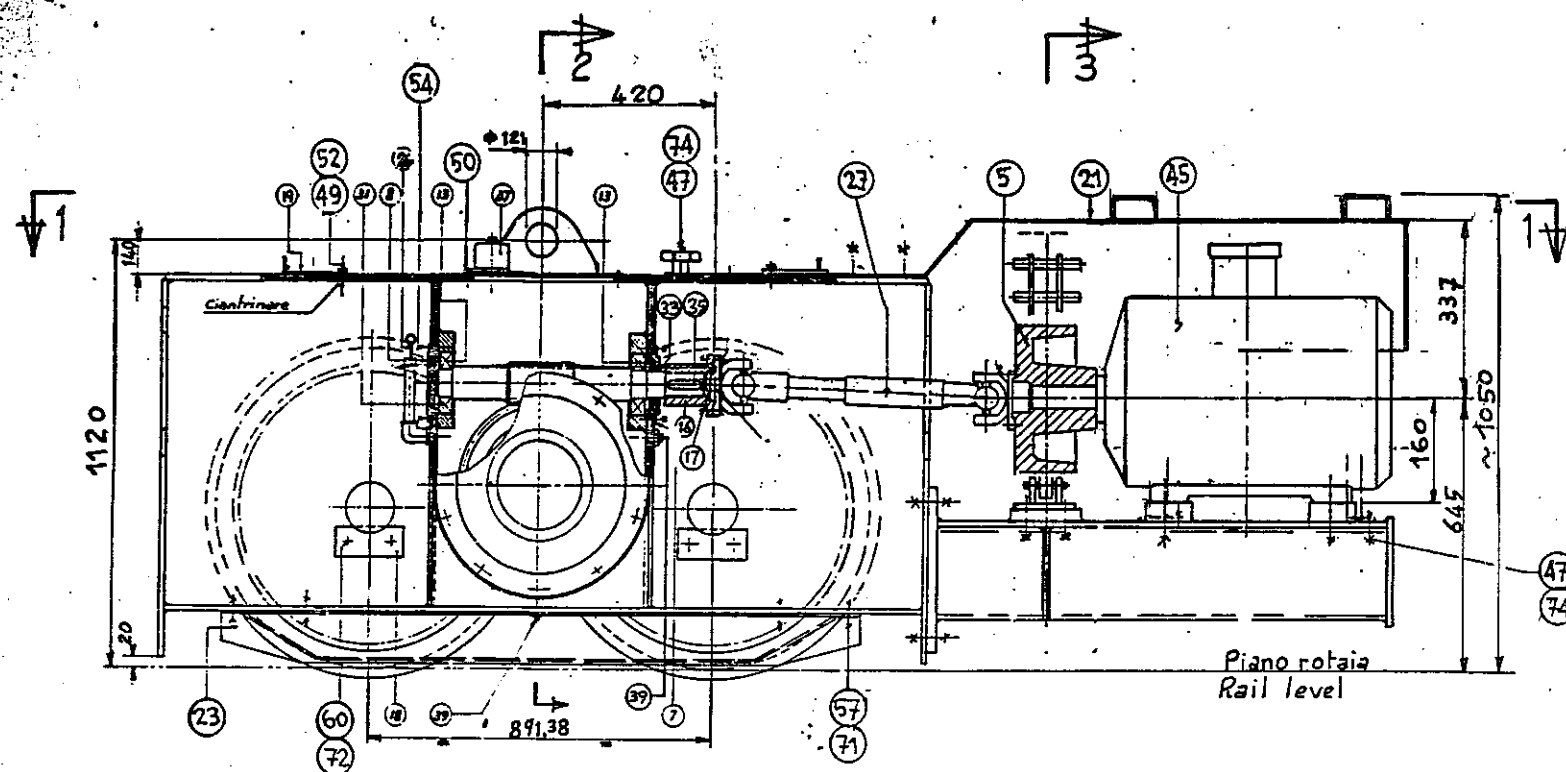
82						
81						
80						
79						
78						
77						
76						
75						
74	Galvanized	Wascher 13	5	6592	R80	
73	" "	Wascher A25	5	1751	C72	
72	" "	Wascher A21	8	1751	C72	
71	" "	Wascher A17	26	1751	C72	
70	" "	Wascher A13	26	1751	C72	
69						
68						
67	" "	Nut M24	5	5588	6 S	
66	" "	Nut M16	6	5588	6 S	
65	" "	Nut M12	2	5588	6 S	
64	" "	Nut M10	8	5588	6 S	
63						
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61	" "	Screw M24 x 60	5	5739	8.8	
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57	" "	Screw M16 x 35	4	5739	8.8	
56	" "	Screw M12 x 90	2	5737	8.8	
55	" "	Screw M12 x 50	2	5739	8.8	
54	" "	Screw M12 x 30	8	5739	8.8	
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51	" "	Screw M 8 x 35	2	5739	8.8	
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47		Handwheel M12x30 Tipe LP 60	5		ATAL	
46						
45		Motor 160L	1			95
44	465556	Brake #250	1			37
43						
42						
41	Galvanized	Screw rivet #3.5	4		Acc.	
40	485999	Plate	1			
39		Plug T9 1/4" Gas	2	5210	G.M.	
38		Lubricator B1/4" Gas	2	7662		
37		Air-hole SFP30-16x15,4	1		Elesa	
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT

36		Ring nut GUK 90x2	1			
35		Key 16x10x90	1	92	C 40	
34		Key 28x16x140	1	92	C 40	
33		Angus MIM 6090	1			
32		Angus MIM 125160	1			
31		Bearing 30313	2		SKF	6
30		Bearing 2222CC/W33	1		SKF	5
29		Bearing 6318	1		SKF	5
28	1.030.7.7530	Worm screw torque	1			65
27	465579	Cardan shaft	1			15
26	1.500.0.0501	Oil level Type B	1			0.3
25	464652/A	Drive wheel	2			1188
24	1.109.0.3102	Gasket	1			0.1
23	1.030.7.8007	Protection for gears	1			34
22	423599	Frame x motor/brake	1		LEFT	165
21	443439	Protection mot./bra.	1		LEFT	49
20						
19	1.030.A.8504	Coovering	2			2
18	0.141.12.000	Stop plate	4			8
17	0.145.01.006	Locking disc	1			0.3
16	1.030.7.6000	Sleeve	1			5.5
15	1.109.0.3010	Coovering	1			4.5
14	0.250.38.023	Spacer	4			4
13	0.251.33.012	Spacer	2			0.4
12	0.254.63.015	Spacer	1			1
11	0.249.17.022	Spacer	1			0.6
10	465571	Pin #130	2			120
9	1.030.7.4002	Pinion #14 - Z13	1			48
8	0.281.15.100	Coovering	1			1.5
7	0.283.15.100	Coovering	1			2
6	0.283.22.004	Coovering	1			3
5	465574	Brake band #250	1			17.5
4	1.030.7.3000	Flange	1			31
3	1.030.7.3503	Hub	1			42
2	1.030.7.3001	Flange	1			19.5
1	423594	Housing	1			1165

TECHNIPETROL SpA		APPROVAL OF THIS DRAWING IS RESTRICTED TO THE GENERAL CHARACTERISTICS OF THE DESIGN AND TO PRINCIPAL DIMENSIONS ONLY. CORRECTIONS IF ANY, SHALL BE MADE THEREON OR IN A TECHNIPETROL APPROVAL LETTER. WITH THIS APPROVAL TECHNIPETROL DOES NOT ASSUME ANY RESPONSIBILITY NEITHER FOR THE CORRECTNESS OF THE DESIGN AND THE CONSTRUCTION NOR FOR THE PERFORMANCE OF THE EQUIPMENT AND ITS SAFETY IN ACCORDANCE WITH THE REQUIREMENT OF THE ORDER.	
PROJ.: SUGAR REFINERY	APPROVED		
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA	APPROVED AS NOTED		
MATERIAL REQUISITION No.	NOT APPROVED		
2651 MR	FINAL DRAWING		
ITEM	APPROVAL SECTION	BY	DATE
	RD DWG. CODE:		

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV. ISSUE	VARIAZIONI / MODIFICATIONS					
E						
D						
C						
B						
A						
					DESEGNATO BY RAVELLI	SCALA SCALE 1:1
					CONTROLLATO CONTROLLED	
					VISTO APPROVED	DATA 28/7/95

Ceretti Tanfani impianti di sollevamento e trasporto		PROPRIETÀ RISERVATA. A termini di legge la CT CERETTI TANFANI S.p.A. si riserva la proprietà del presente disegno, che pertanto non può essere né riprodotto né comunicato o usato senza la esplicita preventiva autorizzazione della CT CERETTI TANFANI S.p.A.	
20020 Cariano Leghetto (MI) Via Milano 10/12 ITALIA		DESIGN AND DETAIL SHOWN ON THIS DOCUMENT ARE CT CERETTI TANFANI'S PROPERTY AND MUST NOT BE USED OR COPIED WITHOUT THEIR AUTHORIZATION. ALL RIGHT OF DESIGN AND INVENTION ARE RESERVED.	
Bilanciere motore per ruote #800 Driven bogie for wheels #800		Ricevuto da / Taken from:	
INSIEME SINISTRO LEFT ASSEMBLY		S.1085 443427	

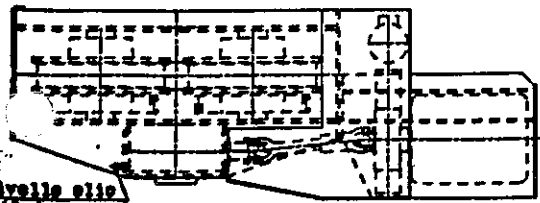
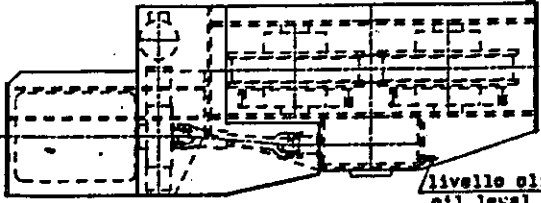


NB: IL DISEGNO RAPPRESENTA IL TELAIO SINISTRO

NOTE: THE DRAWING SHOWS THE LEFT FRAME

NOTE PER IL MONTAGGIO	NOTES FOR THE ASSEMBLY
1) AGGIUSTARE I DISTANZIALI POS.13 IN MODO CHE LA VITE ABBA UN GIUOCO ASSIALE DI 0.1 mm.	1) ADJUST THE SPACERS ITEM 13 IN ORDER THAT THE SCREW HAS AN END FLOAT OF 0.1 mm.
2) DETERMINARE CON ESATTEZZA LO SPESSORE DEL DISTANZIALE POS.11 IN MODO CHE LA CORONA RISULTI PERFETTAMENTE CENTRATA CON LA V.S.F.	2) PRECISELY DETERMINE THE THICKNESS OF THE SPACER ITEM 11 IN ORDER THAT THE GEAR IS PERFECTLY TRUE WITH THE WORM SCREW.
3) ALLINEARE LE RUOTE RISPETTANDO LA QUOTA "a" AGGIUSTANDO LA POS.14 FINO AD OTTENERE IL GIUOCO "b" CONSENTITO.	3) ALIGN THE WHEELS RESPECTING THE DIMENSION "a" BY ADJUSTING ITEM 14 UP TO OBTAIN THE ADMITTABLE CLEARANCE "b"
4) A MONTAGGIO ULTIMATO IN OFFICINA INGRASSARE CON VISCOLITE LE DUE CORONE E IL PIGNONE.	4) AFTER COMPLETION OF THE ASSEMBLY AT WORKSHOP GREASE THE TWO GEARS AND THE PINION WITH VISCOLITE.
5) AL MONTAGGIO IN OFFICINA RIEMPIRE DI GRASSO LE SEDI DEI CUSCINETTI.	5) AT THE ASSEMBLY IN THE WORKSHOP FILL THE BEARINGS HOUSING WITH GREASE.

TECHNIPETROL SpA	
PROJ. SUGAR REFINERY	APPROVED
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA	APPROVED AS NOTED
MATERIAL REQUISITION NO.	NOT APPROVED
2861 SR	FINAL CHANGES
REV.	SECTION
0	NO CHG. CODE

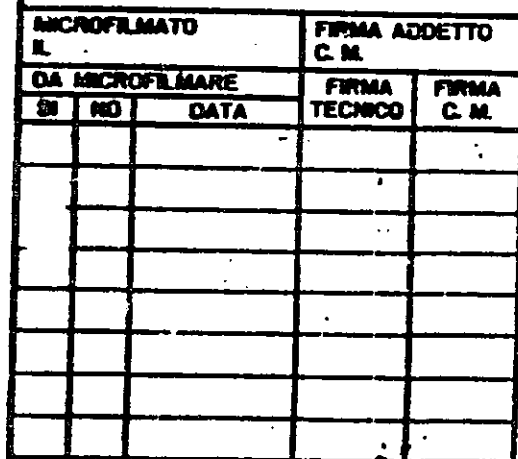
MONTAGGIO BILANCIERE SINISTRO LEFT BOGIE ASSEMBLY	MONTAGGIO BILANCIERE DESTRO RIGHT BOGIE ASSEMBLY
	
livello olio oil level	livello olio oil level

-AL MONTAGGIO DELLE PIASTRINE (POS.18) GLI EVENTUALI GIOCHI DOVRANNO ESSERE COMPENSATI CON SPESSORI DI REGOLAZIONE. VEDERE NORMA CT 40.02.05/A

-DURING PLATE ASSEMBLY (ITEM 18) THE EVENTUAL CLEARANCES WILL BE COMPENSATED WITH REGULATION THICKNESSES. SEE CT STANDARD 40.02.05/A

VARIANTE / MODIFICAZIONE		DATA	REDAZIONE	VERIFICA	APPROVAZIONE
A					
B					
C					
D					
E					

Ceretti impianti di sollevamento Tanfani e trasporto	
Bilanciamento motore per ruote #000	
Driven bogie for wheels #000	
SCHEMA DI MONTAGGIO ASSEMBLY DIAGRAM	
S.1085	



Insieme			Ruota (WHEEL)		
Disegno	A	B	Disegno	Modello	Peso
1.020.7.0700	155	75	1.020.7.3010	40143	460
1.020.7.0701	155	85	1.020.7.3011	40143	470
1.020.7.0702	155	95	1.020.7.3012	40143	440
462 807	190	130	462 808	40945	465

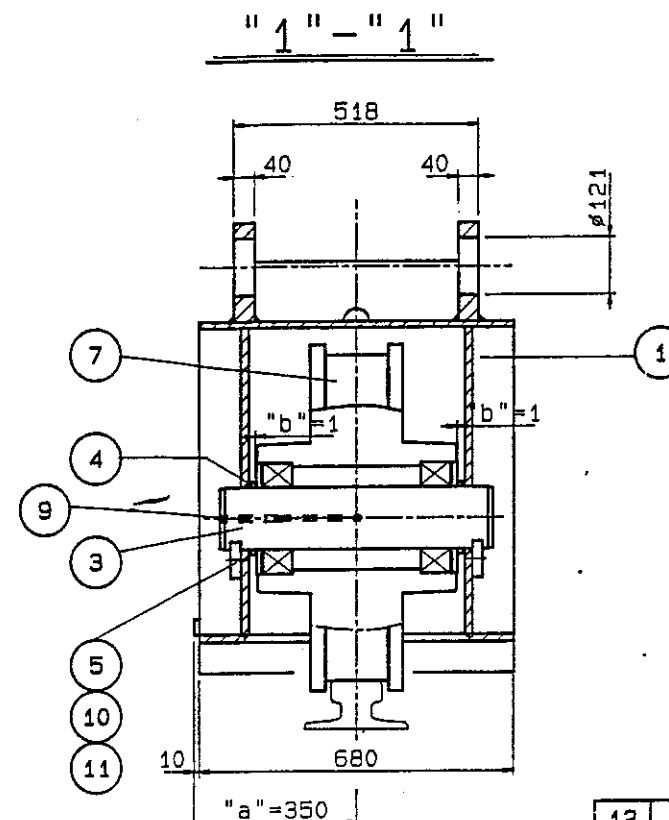
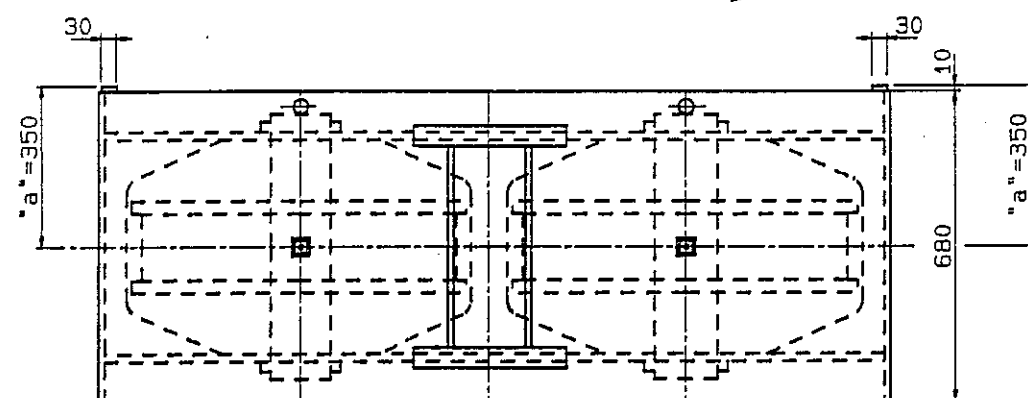
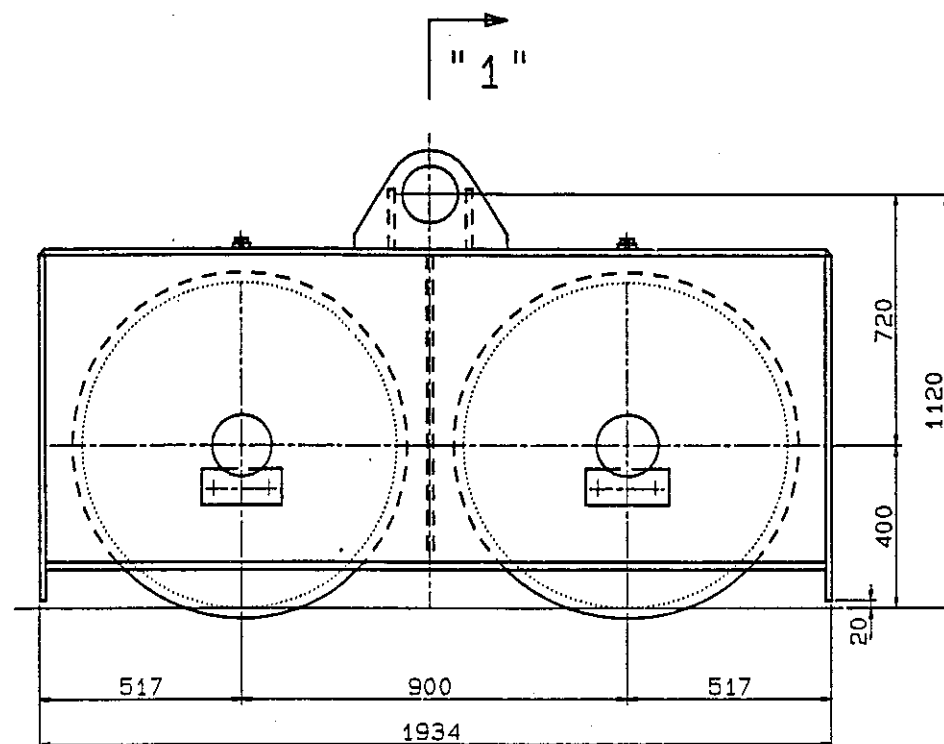
POS.		PEZZI	DENOMINAZIONE		UNI o MODELLO	MATERIALE	DISEGNO o NOTE		PESO
VARIAZIONI		SIGLE	DATA				DISEGNATO		SCALE
	E						Benedict M.R.		/
	D						CONTROLLATO		
	C						[Signature] [Signature]		
	B						[Signature] [Signature]		
A				[Signature] 8-10-99 [Signature] 1-5			VISTO [Signature]		DATA 13-1 93

**ASSEMBLY
INSIEME**

PROPRIETÀ RISERVATA. A termini di legge la società e i titolari o p.s. si riserva la proprietà del presente disegno che pertanto non può essere né riprodotto né caricato su un TDFI senza la esplicita preventiva AUTORIZZAZIONE della società e i titolari o p.s.

5.1518	ROST	Ric. 462'807
	508	Co. 5.507

464652 /A



-AL MONTAGGIO DELLE PIASTRINE (POS.5) GLI EVENTUALI GIOCHI DOVRANNO ESSERE COMPENSATI CON SPESSORI DI REGOLAZIONE. VEDERE NORMA CT 40.02.05.

-DURING PLATE ASSEMBLY (ITEM 5) THE EVENTUAL CLEARANCES WILL BE COMPENSATED WITH REGULATION THICKNESSES. SEE CT STANDARD 40.02.05.

Peso tot.kg.1885.

Total weight kg.1885

12					
11	Galvanized	Washer A 21	8	1751	C 72
10	Galvanized	Screw M 20 x 40	8	5739	8.8
9		Lubricator B1/4"Gas	2	7662	
8					
7	464658/A	Idle wheel	2		902
6					
5	0.141.12.000	Stop plate	4		8
4	0.250.38.023	Spacer	4		4
3	465571	Pin #130	2		120
2					
1	423589	Housing	1		850

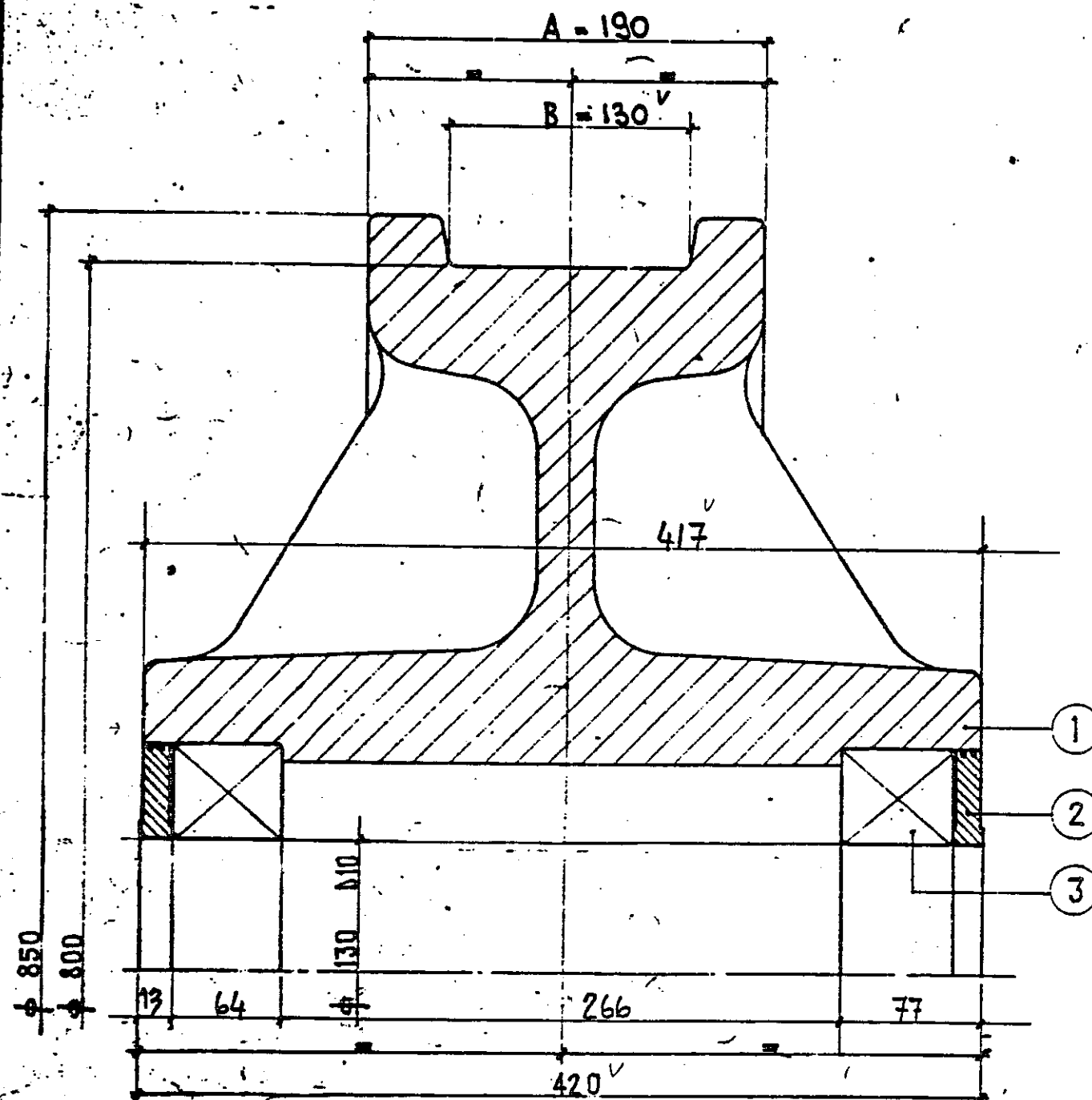
TECHNIPETROL SpA		APPROVAL OF THIS DRAWING IS RESTRICTED TO THE GENERAL CHARACTERISTICS OF THE DESIGN AND TO PRINCIPAL DIMENSIONS ONLY. DIMENSIONS IF ANY SHALL BE NOTED THEREON OR IN A TECHNICAL APPROVAL LETTER. WITH THIS APPROVAL TECHNIPETROL DOES NOT ASSUME ANY RESPONSIBILITY NEITHER FOR THE CORRECTNESS OF THE DESIGN AND THE CONSTRUCTION NOR FOR THE PERFORMANCE OF THE EQUIPMENT AND ITS SAFETY IN ACCORDANCE WITH THE REQUIREMENT OF THE ORDER.	
PROJ. SUGAR REFINERY	CLIENT UNITED SUGAR CO. - JEDDAH - S. ARABIA	APPROVED	
MATERIAL REQUISITION No.	2551 MR	APPROVED AS NOTED	
ITEM		NOT APPROVED	
		FINAL DRAWING	
		APPROVAL SECTION BY DATE	
		RD Dwg. CODE:	

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV.	VARIAZIONI / MODIFICATIONS	DATA SIGN.	DATA DATE	DATA DATE	DATA SIGN.	SCALE
ISSUE						
E						
D						
C						
B						
A						

Ceretti impianti Tanfani e trasporto 20020 Cariano Laghetto (MI) Via Milano 10/12 ITALIA		PROPRIETA' RISERVATA. A termini di legge la OT CERETTI TANFANI S.p.A. si riserva la proprieta' del presente disegno, che pertanto non puo' essere ne' riprodotto ne' copiato a terzi senza la esplicita preventiva autorizzazione della OT CERETTI TANFANI S.p.A. DESIGN AND DETAIL SHOWN ON THIS DOCUMENT ARE OF CERETTI TANFANI'S PROPERTY AND MUST NOT BE USED OR COPIED WITHOUT THEIR AUTHORIZATION. ALL RIGHT OF DESIGN AND INVENTION ARE RESERVED.	
Bilanciere folle per ruota #800 Idle bogie for wheels #800		Ricevuto da / Taken from:	
INSIEME ASSEMBLY		S.1085 443426	

- NB: Allineare le ruote rispettando la quota "a" aggiustando la pos.4 fino ad ottenere il giuoco "b" consentito.
- Al montaggio in officina riempire di grasso le sedi dei cuscinetti.
- NB: Align the wheels respecting the dimension "a" by adjusting item 4 up to obtain the admittable clearance "b".
- At the assembly in the workshop fill the bearings housing with grease.

Disegno Base 1.020.7.0000



Insieme			Ruota		
A	B	Disegno	Disegno	Modello	Peso
155	75	1.020.7.0512	1.020.7.3002	40141	420
155	85	1.020.7.0513	1.020.7.3003	40141	410
155	95	1.020.7.0514	1.020.7.3004	40141	400
190	130	462 810	462 811	40 946	425

Peso: 451 Kg

4					
3	2	Cuscinetto 22226E	130/230x64 (Bearing)		218
2	2	Coperchielli (Cover)	Fe.00	0.257-17.003	44
1	1	Ruota (Wheel)	40 946 42 Gr. Mo4 Bonif	462 811 A	425

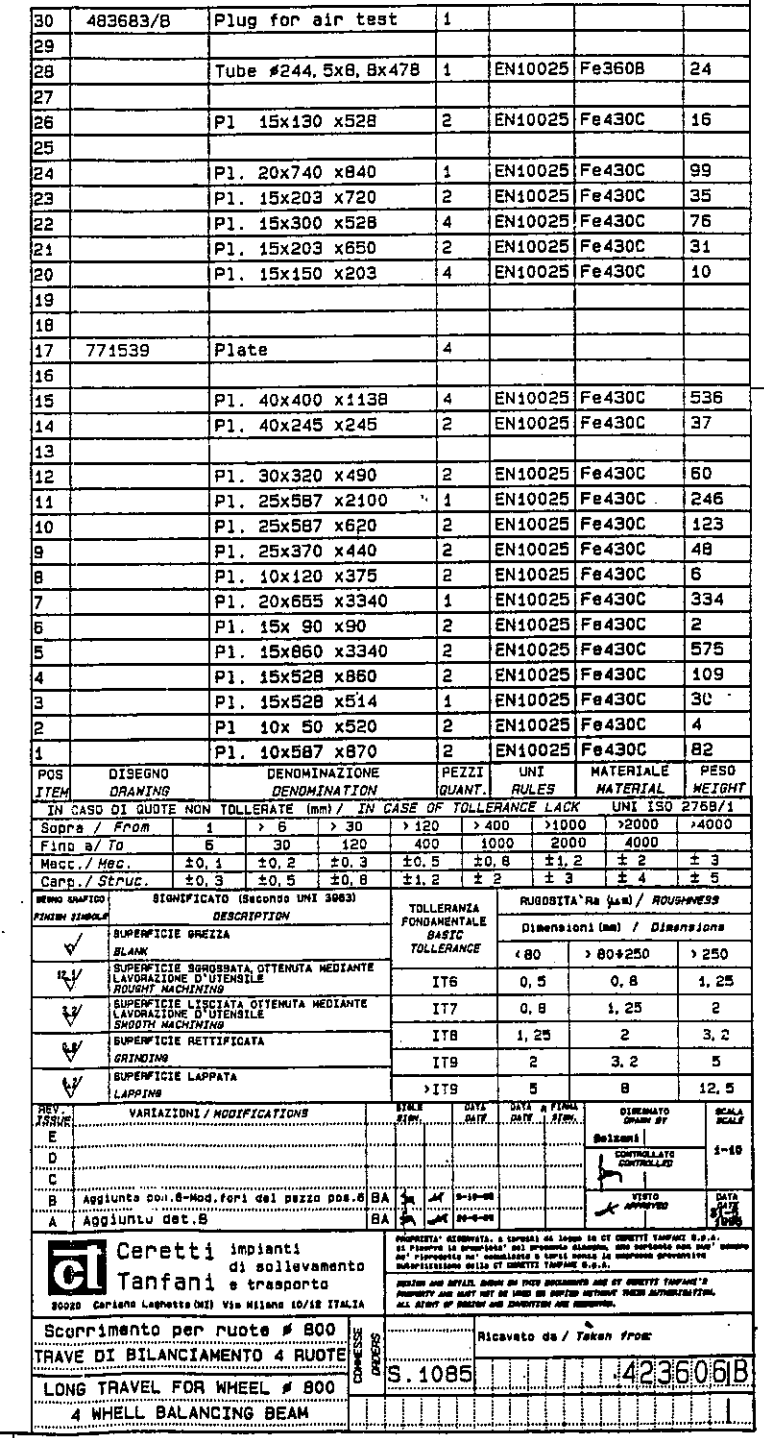
POS.	PEZZI	DENOMINAZIONE	MODELLO	MATERIALE	DISEGNO - NOTE	PESO
		SIGLE	DATA		DISEGNATO	SCALE
		E			Disegnato	
		D			CONTROLLATO	
		C				
		B			VISTO	DATA
		A	18-10-93	Aggiorn. pos. 1		15-1-93

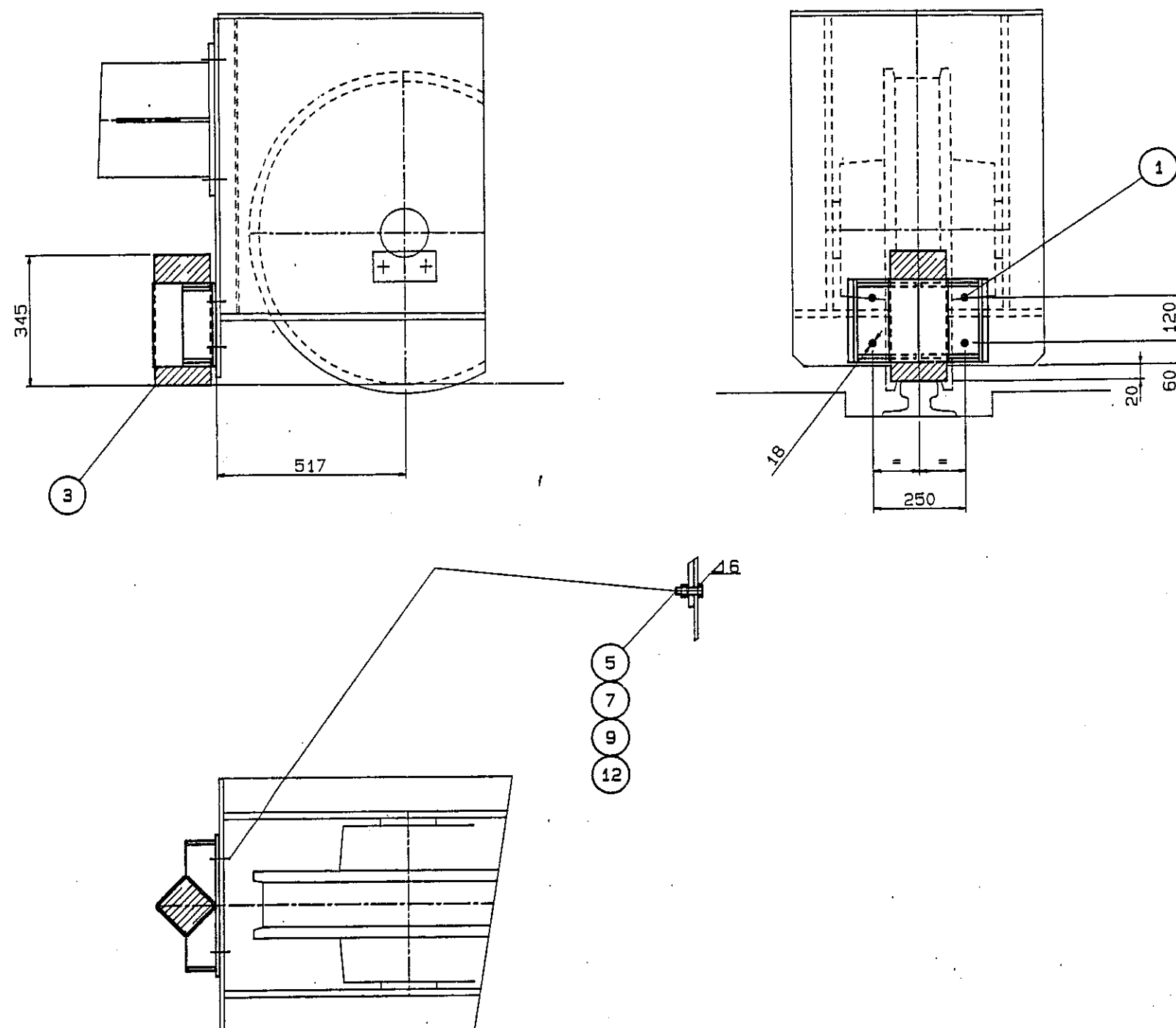
coretti e tanfani s.p.a. - milano

PROPRIETA' RISERVATA - A termini di legge in coretti e tanfani s.p.a. si riserva la proprieta' del presente disegno, che pertanto non puo' essere in nessun caso comunicato o usato senza la esplicita' autorizzazione della coretti e tanfani s.p.a.

Ruota folle B - ϕ 800	sim.	S. 1518	3087.2	
Idle wheel			S. 507	462 810
ASSEMBLY			464 658	/A

INFORMATO	FIRMA ADOETTO
CA. DI PROVAZIONE	C.M.
DATA	FIRMA TECNICO
	C.M.





Kg 21

12		Supplementary bogie machining				
11						
10						
9	Galvanized	Washer A 17	4	1751	C72	
8						
7	" "	Nut M 16	4	5588	6S	
6						
5	Galvanized	Screw M16 x50	4	5737	8.8	
4						
3	486442	Rail cleaning	1			3
2						
1	465591	Support	1			17

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV. ISSUE	VARIAZIONI / MODIFICATIONS		SIZE SIGN.	DATE	DATE	SCALE
E						1-10
D						
C						
B						
A						

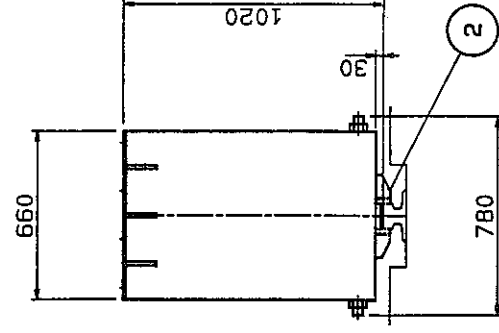
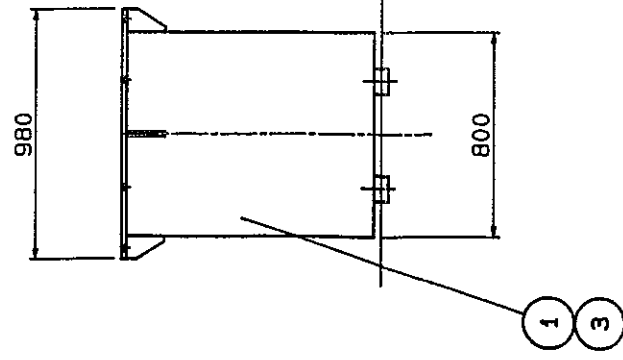
Ceretti impianti
di sollevamento
Tanfani e trasporto

20020 Ceriano Laghetto (MI) Via Milano 10/12 ITALIA

PROPRIETÀ RISERVATA. A termini di legge in CT CERETTI TANFANI S.p.A.
di proprietà in proprietà del presente disegno, che pertanto non può essere
né riprodotto né copiato o usato senza la concessione preventiva
dell'autorizzazione della CT CERETTI TANFANI S.p.A.

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Pulisci rotaie INSIEME RAIL CLEANING ASSEMBLY	CONNESSE ORDERS	Ricavato da / Taken from: S.105- 443437
--	--------------------	--



4				
3	486812	Operating installat.	1	
2	443510	Jaws assembly		
1	423865	Autom. rail clamps		F=250kN

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNITA' RULES	MATERIALE MATERIAL	PESO WEIGHT
REV ASSISE	VARIAZIONI / MODIFICATIONS		DATA DATE	DATA R FIRM DATE SIGN.	DISEGNATO DRAWN BY	SCALA SCALE
E					Bozzani	1-20
D					CONTROLLATO CONTROLLED	
C						
B					VISTO APPROVED	DATA DATE
A						30-09-88



**Ceretti
Tanfani** e trasporto

20020 Carpianto Leghetto (MI) Via Milano 10/12 ITALIA

Scorrimonto

TENAGLIA AUTOMATICA DA 250 KN

LONG TRAVEL

ANCHORING DEVICE

PROPRIETA' RISERVATA. A termini di legge la CT CERETTI TANFANI S.p.A.
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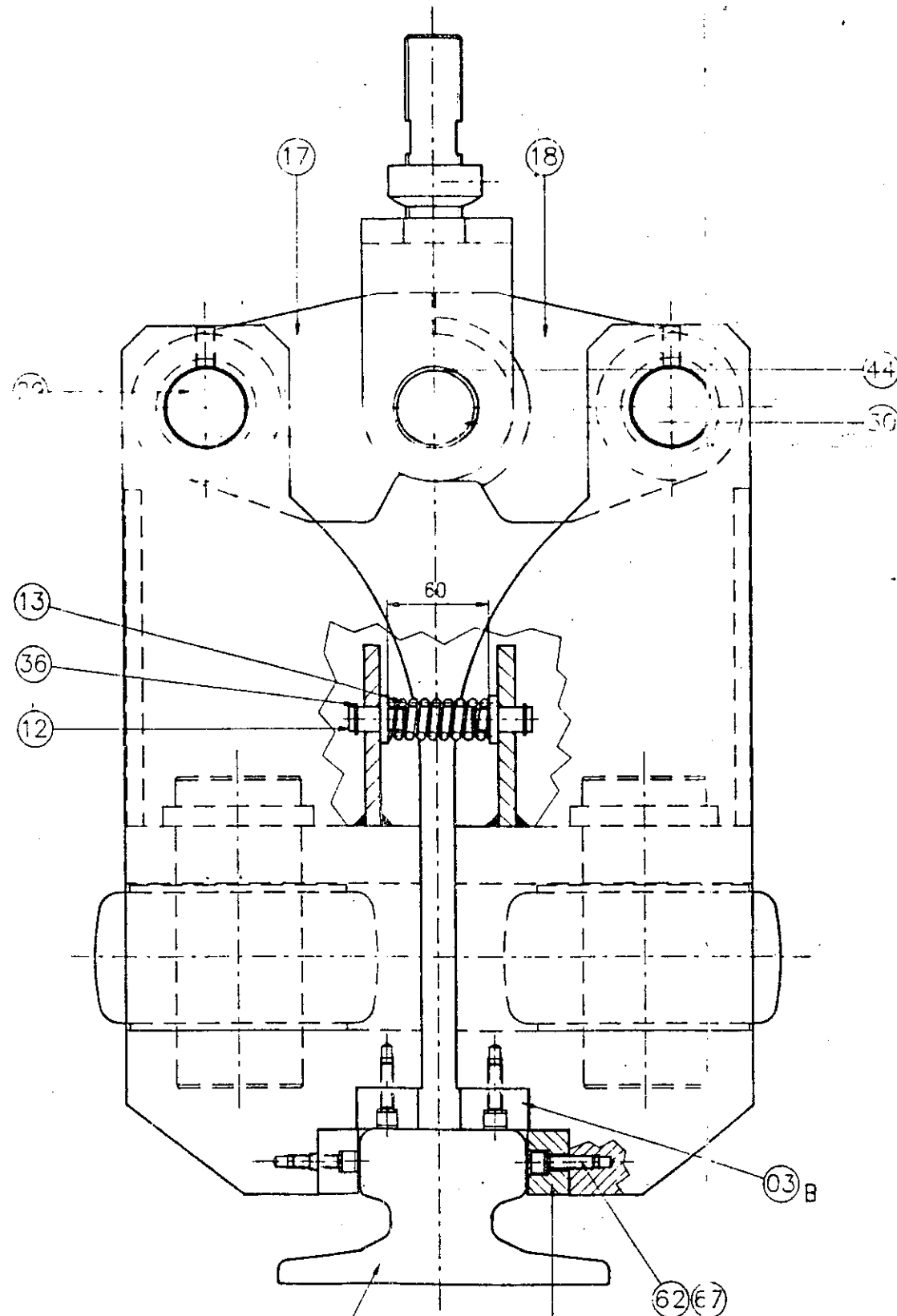
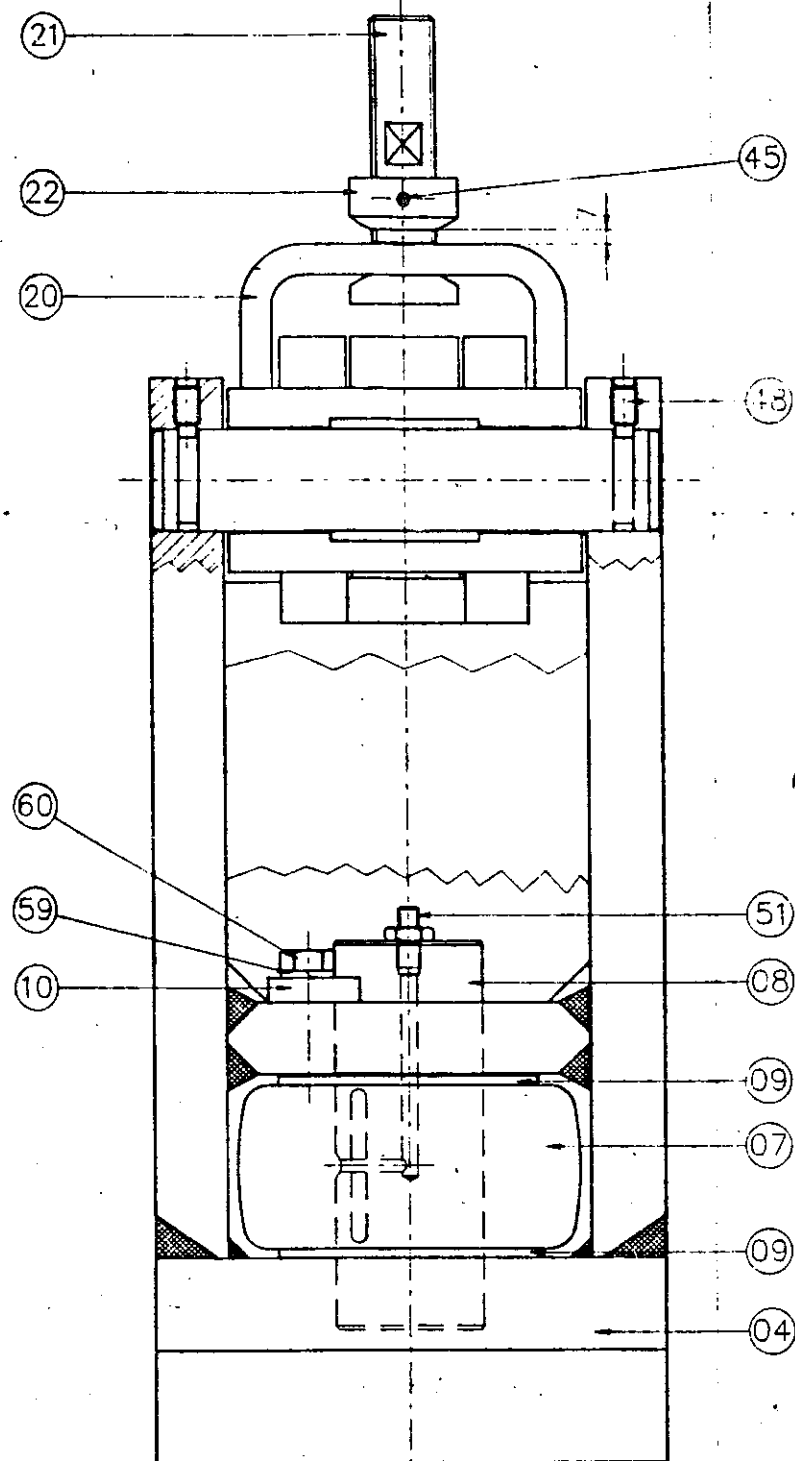
ORDERS

COMMERCE

Ricevato da / Taken from:

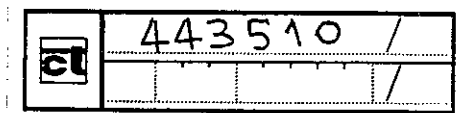
S.1085

465829



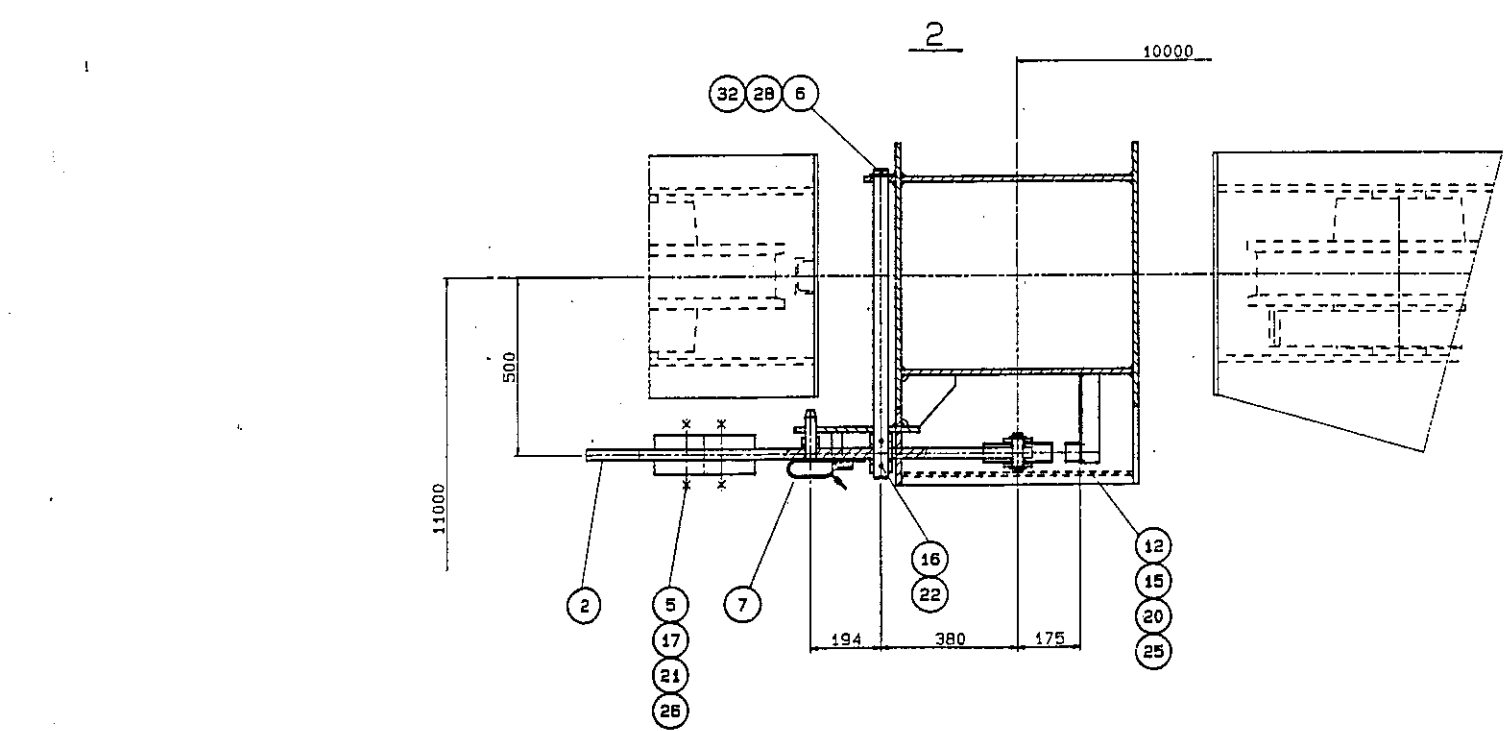
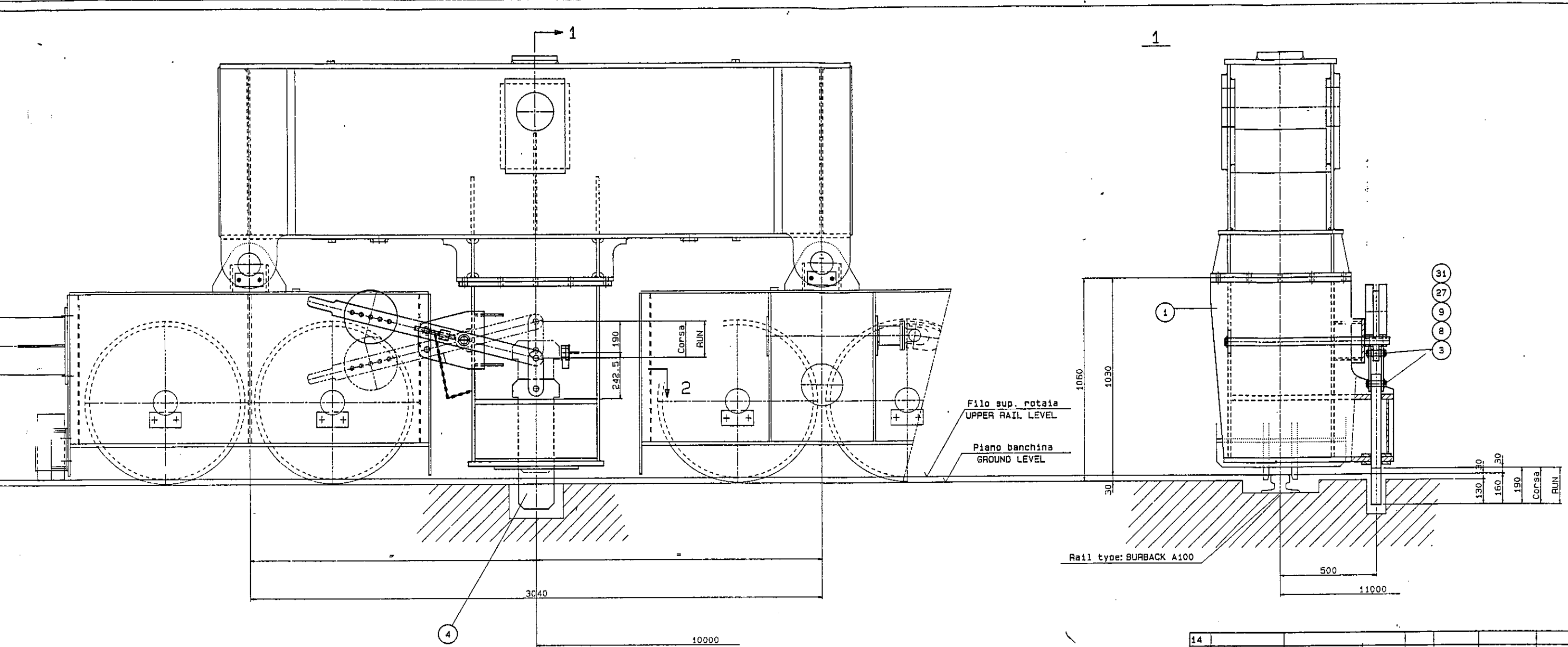
RAIL A 100
DIN 536

S.1085 30-S-96



FOR REFERENCES SEE DWG. TE1149-103

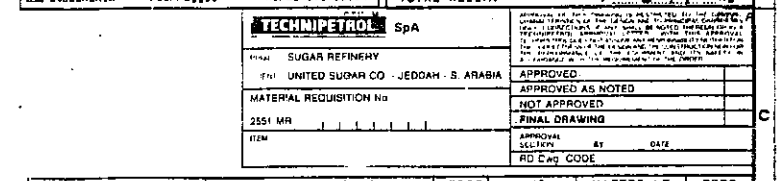
Pos.	Qty	Description	Esp.	date	sign.	Reference
		Changes				
						Titolo : AUTOMATIC RAIL CLAMPS
						F = 250 kN . RAIL A100
						JAWS ASSEMBLY.
Scale	Drawn by : RR	This drawing is exclusive property of RMA srl. It cannot be used, duplicated, distributed or shown without explicit permission by RMA srl.				
1:2,5	Verified by :	Dis. TE 1149-103/A				
	Date : 15.12.95	Factory in Capua P.le (km) 100 S. / 100 S. - 01100 - 01100				
		Replace n°				
		Replaced by n°				



POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
35						
34						
33						
32	GALVANIZED	Split pin A 8x 55	1	1336	A 00	
31	"	Split pin A 8x 45	4	1336	A 00	
30						
29						
28	"	Wascher 40	1	1750	Acc.	
27	"	Wascher 30	4	1750	Acc.	
26	"	Wascher A 21	2	1751	C 72	
25	"	Wascher A 5.3	4	1751	C 72	
24						
23						
22	"	Nut Nylstop	2	N/70/110M		
21	"	Nut M 20	2	5588	6 S	
20	"	Nut M 5	4	5588	6 S	
19						
18						
17	"	Screw M 20x 150	2	5739	8.8	
16	"	Screw M 10x 80	2	5739	8.8	
15	GALVANIZED	Screw M 5x 30	4	5739	8.8	
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT

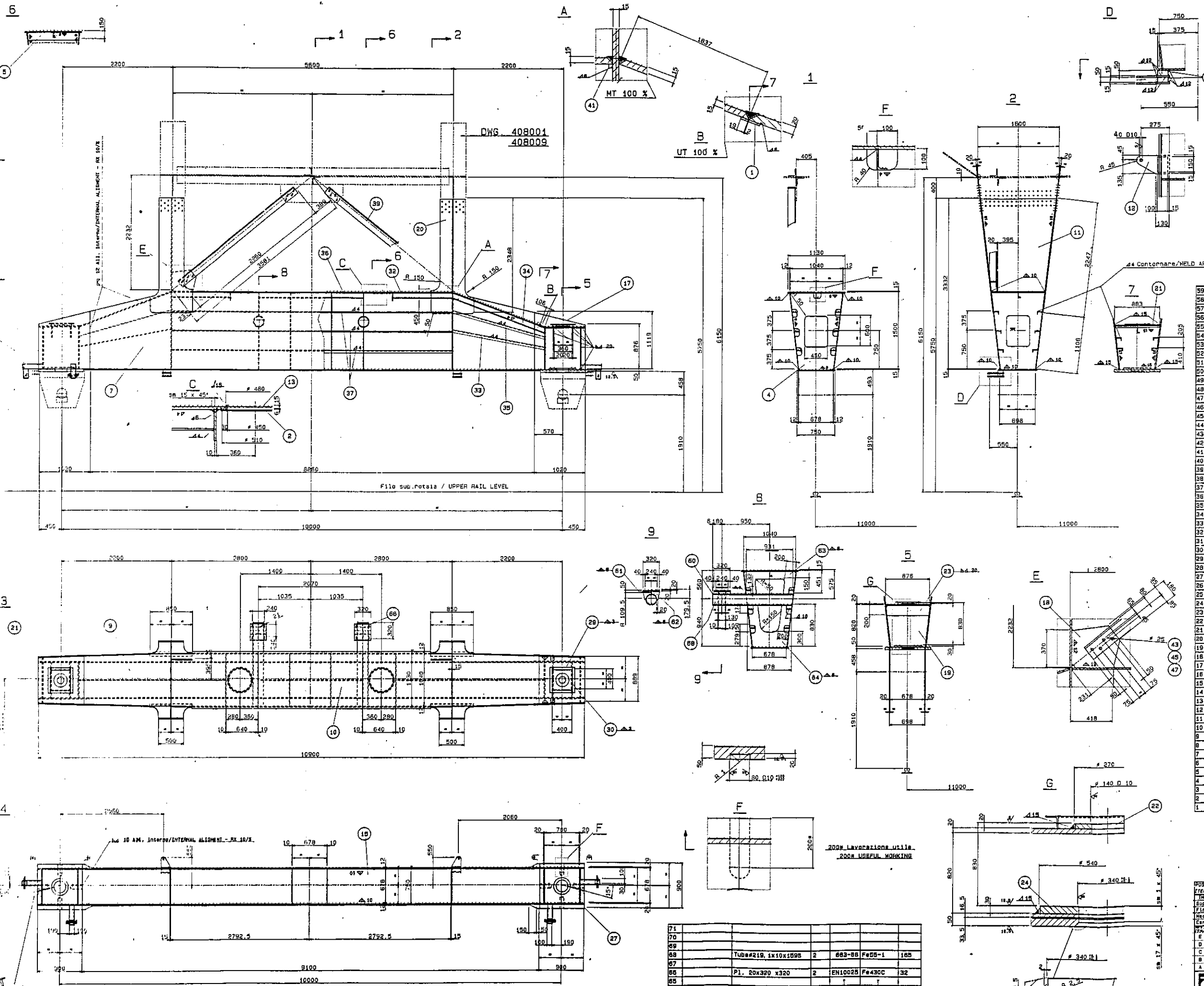
14						
13						
12	SCHMERSAL	Limit switch	1	IFL 30-384-11ZPG	0.3	
11						
10						
9	486441	Spacer	2		0.06	
8	486440	Pin	2		1	
7	465590	Pin	1		2	
6	465589	Shaft	1		8.5	
5	486439	Counterweight	4		82	
4	486437	Plate	1		53	
3	486438	Connecting rod	2		2.6	
2	465588	Lever	1		24	
1	423612	Frame	1		475	

TECHNIPETROL SpA SUGAR REFINERY CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA MATERIAL REQUEST NO. 2551 MR APPROVAL: _____ RD DWG CODE: _____		APPROVED AS NOTED NOT APPROVED FINAL DRAWING APPROVAL: _____ RD DWG CODE: _____				
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
VARIATIONI / MODIFICATIONS DATA / DATE: _____ AUT. / AUTH.: _____ VER. / VER.: _____ C B A						
Ceretti impianti di sollevamento e trasporto 20090 Carisio (Lombardia) - Italia Lema verticale di ancoraggio INSIEME ANCHORING VERTICAL PLATE ASSEMBLY						
RICEVUTO DA / TAKEN FROM: _____ DATA / DATE: 6.10.85 423611						1



18 - The fixing of plate slabs, 1mm thickness has to be carried out with M4 screws exclusively on 10 and 8 mm thickness (stiffening angle bars and portal's inner division plate).

18 - Il fissaggio delle lastre di lamiera sp.1mm va fatto con viti M4 esclusivamente sugli spessori 10 e 8 mm (Angolari di irrigidimento e lamiera del portale di divisione interna.)



NOTA PER COSTRUZIONE DELLO SCALO

Per la costruzione dello scalo si dovranno osservare le seguenti norme:

1. La struttura deve essere costruita in acciaio al carbonio S235JR o S275JR.

2. La saldatura deve essere eseguita a caldo, secondo le norme UNI EN ISO 5817.

3. La pittura deve essere applicata secondo le norme UNI EN ISO 12944.

4. La protezione catodica deve essere installata secondo le norme UNI EN ISO 15713.

5. La manutenzione deve essere eseguita secondo le norme UNI EN ISO 15713.

6. La sicurezza deve essere garantita durante tutta la vita della struttura.

7. La documentazione deve essere conservata per tutta la vita della struttura.

8. La struttura deve essere costruita in conformità con il progetto approvato.

9. La struttura deve essere costruita in conformità con le norme vigenti.

10. La struttura deve essere costruita in conformità con le norme vigenti.

ITEM	DESCRIPTION	QUANTITY	UNIT	MATERIAL	WEIGHT
59	Galvanized Washer A21	8	1751	C72	
58	Nut M20	8	5588	BS	
55	Galvanized Screw M20 x200	4	5738	8.8	
54	Tube 100x100x6x396	4	EN10025	Fe360C	29
52	Tube 100x100x6x175	4	"	"	13
51	Tube 25x2.3 x120	4	"	"	0.5
50	P1. 5x90 x90	8	EN10025	Fe360C	4
49					
48	Galvanized Washer 25	16	5714	C50Bon.	
46	Galvanized Nut M24	8	5713	8.8	
44	Galvanized Screw M24 x70	8	5712	10.9	
42	Square bar 10x10x40	2	EN10025	Fe360C	
40	L150x15 x2980	2		Fe360C	200
38	L100x50x8 x5585	8			302
36	L100x50x8 x2080	1			18.5
35	L100x50x8 x1907	4			69
34	L100x50x8 x1982	2			35
33	L100x50x8 x1863	4			67
32	L100x50x8 x1182	2			21
31					
30	L 50x5 x500	4			7
29	L 50x5 x400	4		Fe360C	6
28					
27	P1. 50x800 x900	2		Fe430C	610
26	P1. 50x100 x150	4			24
25					
24	P1. 30x540/340	2			65
23	P1. 20x200 x876	4			108
22	P1. 20x270/140	2			16
21	P1. 20x922 x883	2			255
20	P1. 20x850 x2247	4			800
19	P1. 20x820 x876	4			460
18	P1. 20x415 x480	2			55
17	P1. 20x1020x1119	4			650
16					
15	P1. 15x900 x9100	1			918
14					
13	P1. 15x480	2			43
12	P1. 15x180 x320	4			22
11	P1. 15x1481x3332	2			800
10	P1. 15x130x5565	1			757
9	P1. 15x1040x1637	2			416
8					
7	P1. 12x1510x8660	2			2450
6					
5	P1. 10x180 x1040	2			25
4	P1. 10x1040x1500	2			190
3					
2	P1. 6x510/450	2			15
1	P1. 6x50 x893	2	EN10025	Fe430C	4

TECNIPERSON S.p.A.

PROGETTO: **SCALO PORTUALE**

PROGETTISTA: **ING. ROBERTO BIANCHI**

VERIFICATO: **ING. ROBERTO BIANCHI**

APPROVATO: **ING. ROBERTO BIANCHI**

DATA: **10/05/2024**

SCALE: **1:50**

PRODOTTORE: **ING. ROBERTO BIANCHI**

REVISIONI:

REV.	DESCRIPTION	DATE
1	PROGETTO	10/05/2024

Caratteristiche tecniche:

1. La struttura deve essere costruita in acciaio al carbonio S235JR o S275JR.

2. La saldatura deve essere eseguita a caldo, secondo le norme UNI EN ISO 5817.

3. La pittura deve essere applicata secondo le norme UNI EN ISO 12944.

4. La protezione catodica deve essere installata secondo le norme UNI EN ISO 15713.

5. La manutenzione deve essere eseguita secondo le norme UNI EN ISO 15713.

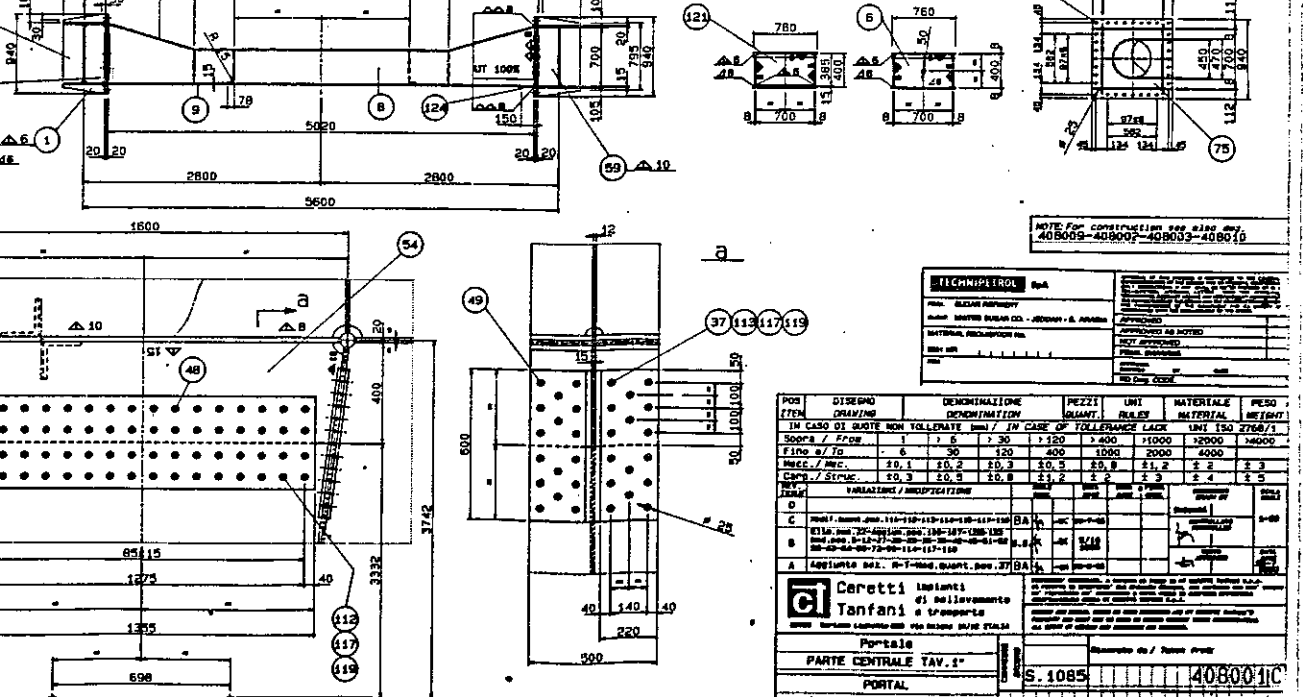
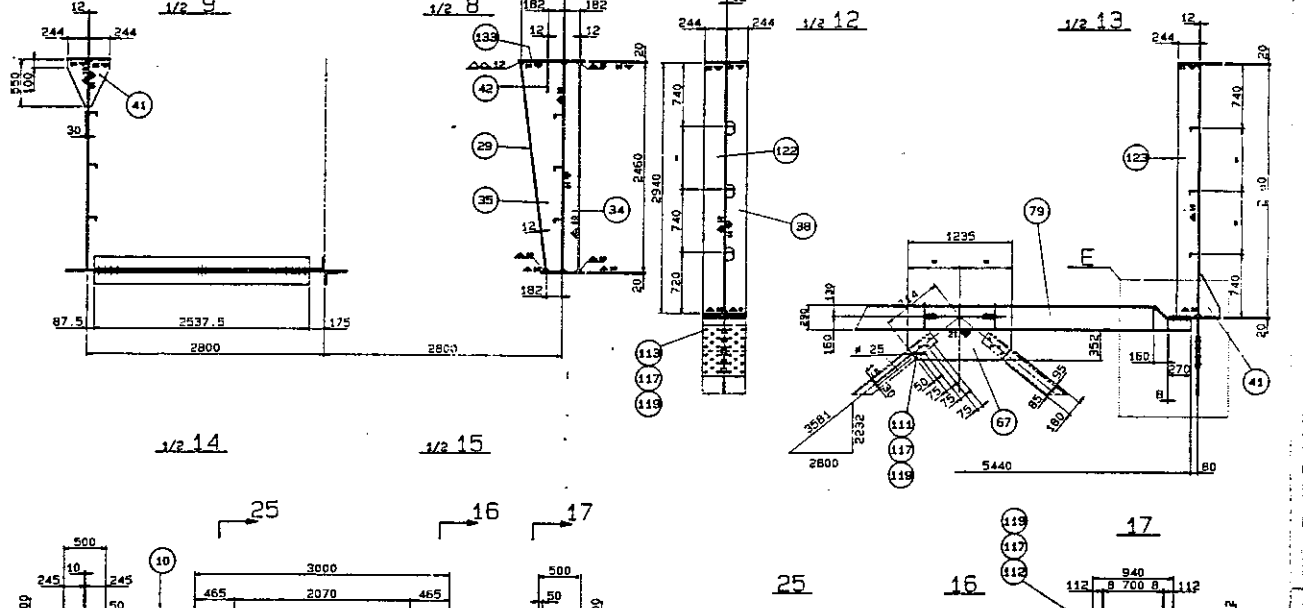
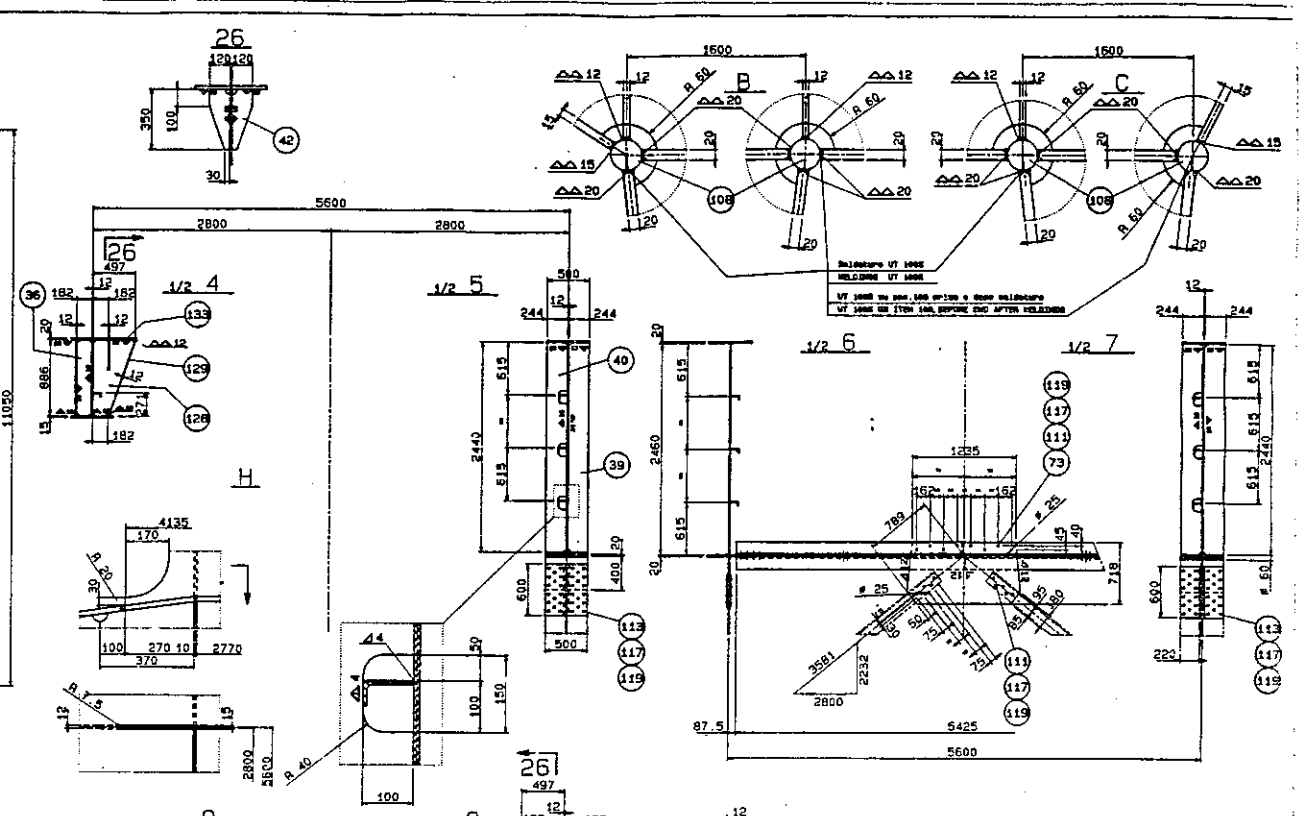
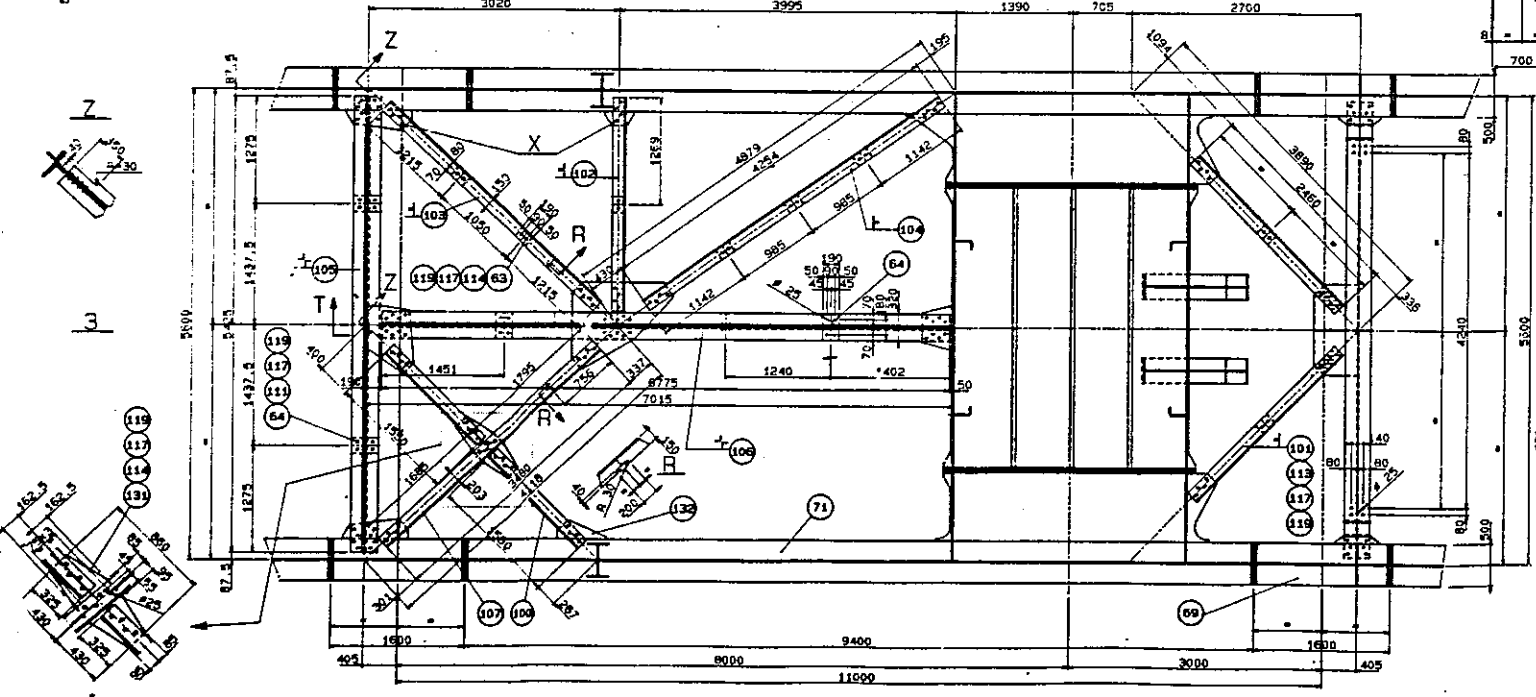
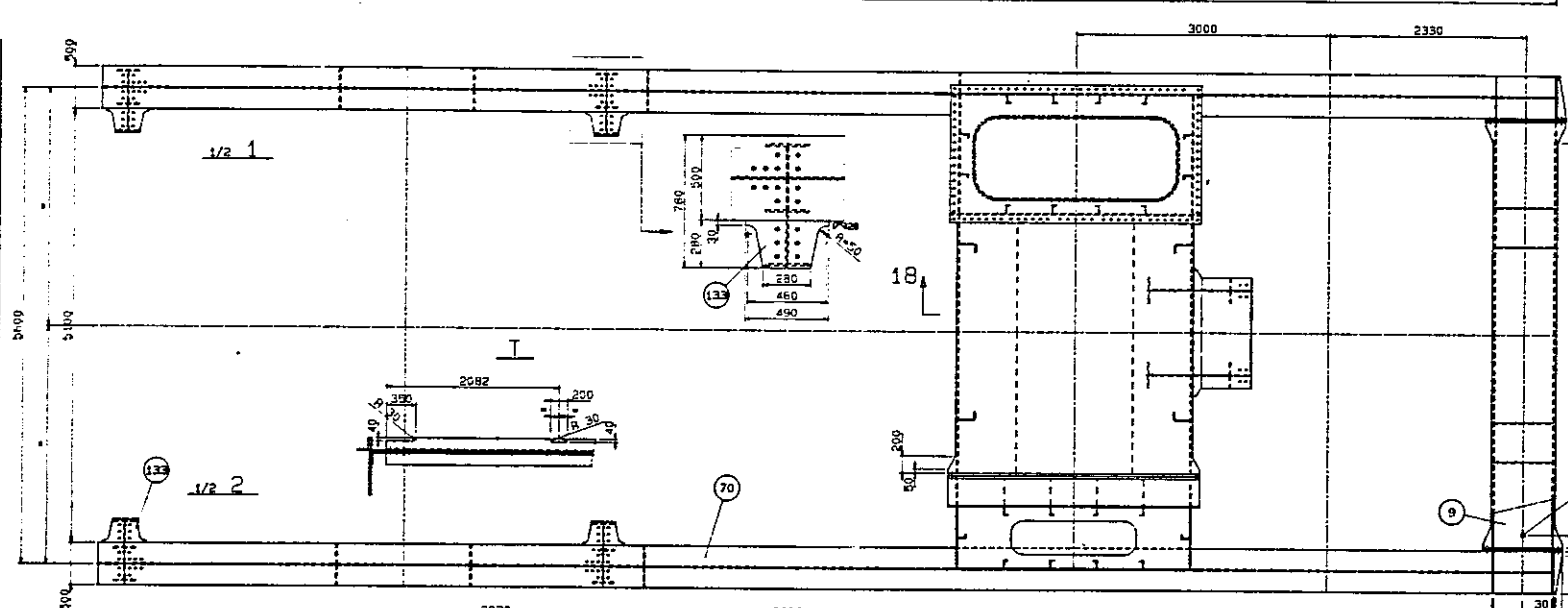
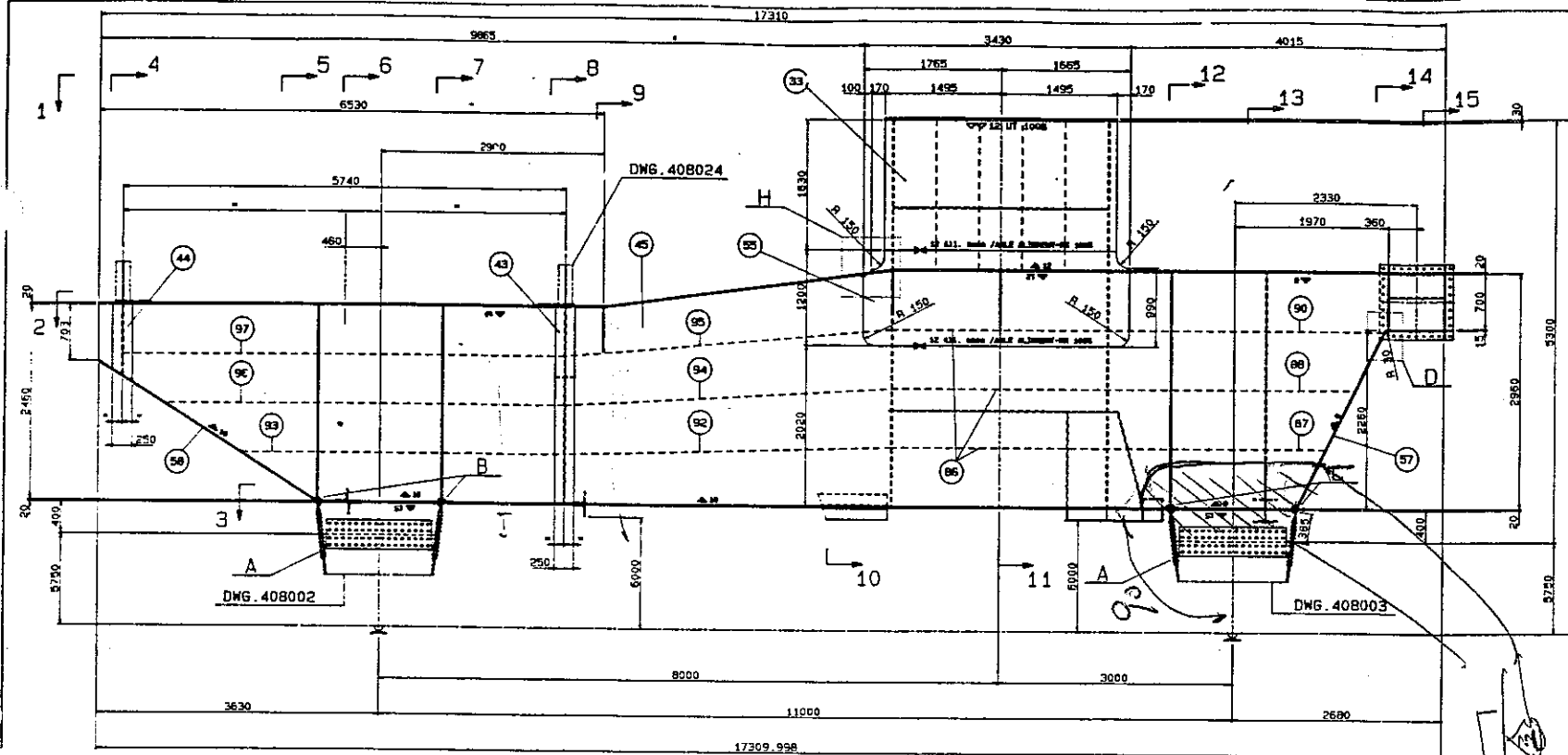
6. La sicurezza deve essere garantita durante tutta la vita della struttura.

7. La documentazione deve essere conservata per tutta la vita della struttura.

8. La struttura deve essere costruita in conformità con il progetto approvato.

9. La struttura deve essere costruita in conformità con le norme vigenti.

10. La struttura deve essere costruita in conformità con le norme vigenti.



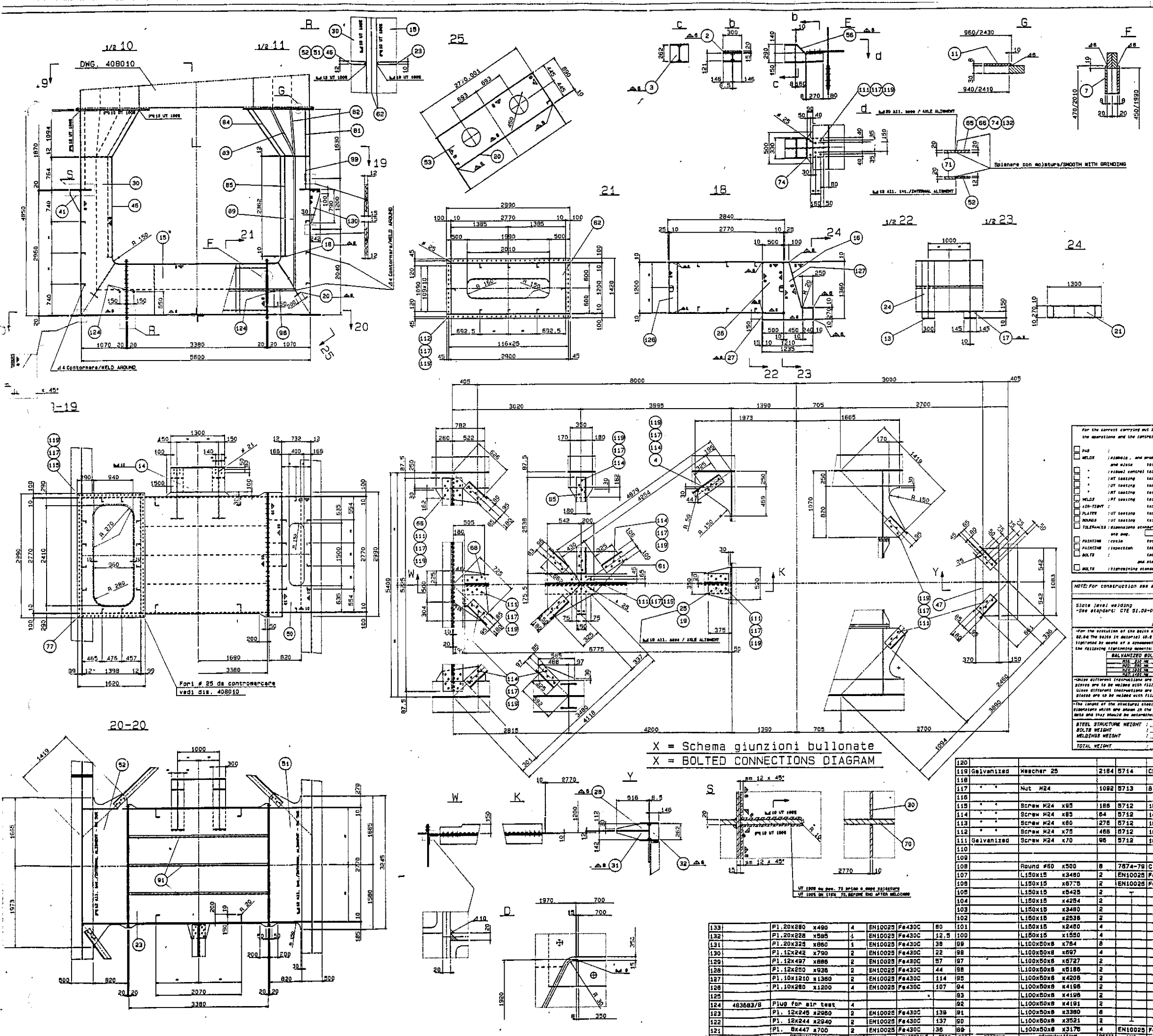
NOTE FOR CONSTRUCTION: See also DWG. 408009-408007-408003-408010

POS.	DISEGNO	DETERMINAZIONE	PEZZI	UNITA	MATERIALE	PECO
ITEM	QUANTITA'	UNITA	QUANTITA'	UNITA	UNITA	UNITA
IN CASO DI QUOTE NON VOLANTE IN CASO DI TOLLERANZA LACK UNITA 150 2700/1						
1	1	1	1	1	1	1
2	1	1	1	1	1	1
3	1	1	1	1	1	1
4	1	1	1	1	1	1
5	1	1	1	1	1	1
6	1	1	1	1	1	1
7	1	1	1	1	1	1
8	1	1	1	1	1	1
9	1	1	1	1	1	1
10	1	1	1	1	1	1
11	1	1	1	1	1	1
12	1	1	1	1	1	1
13	1	1	1	1	1	1
14	1	1	1	1	1	1
15	1	1	1	1	1	1
16	1	1	1	1	1	1
17	1	1	1	1	1	1
18	1	1	1	1	1	1
19	1	1	1	1	1	1

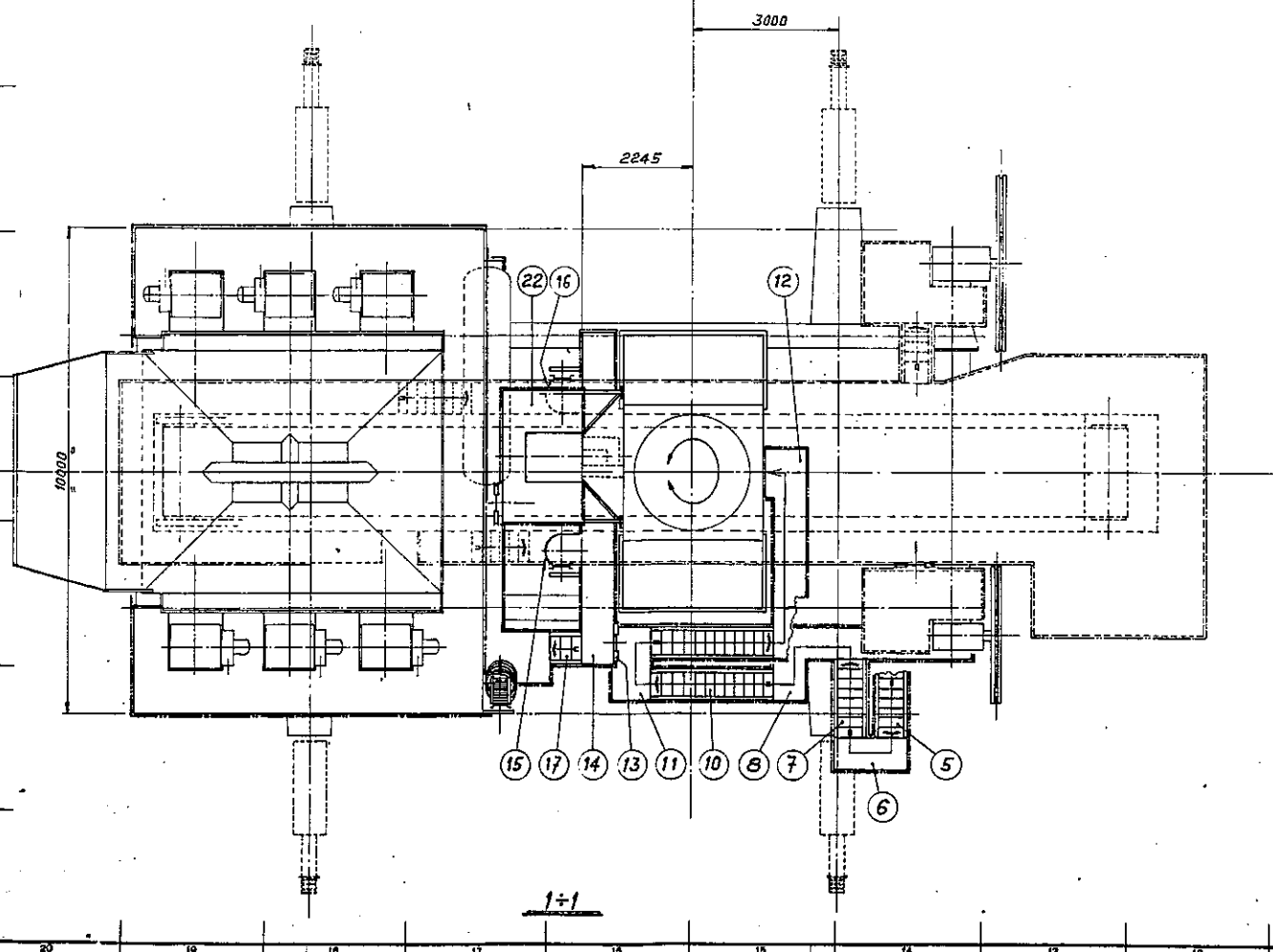
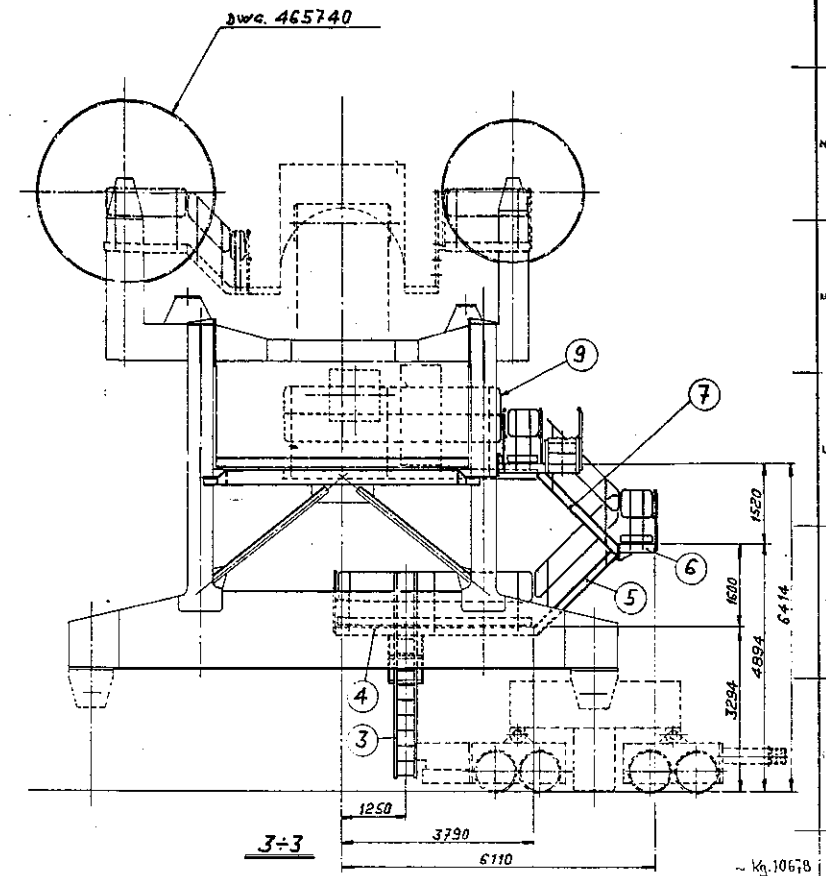
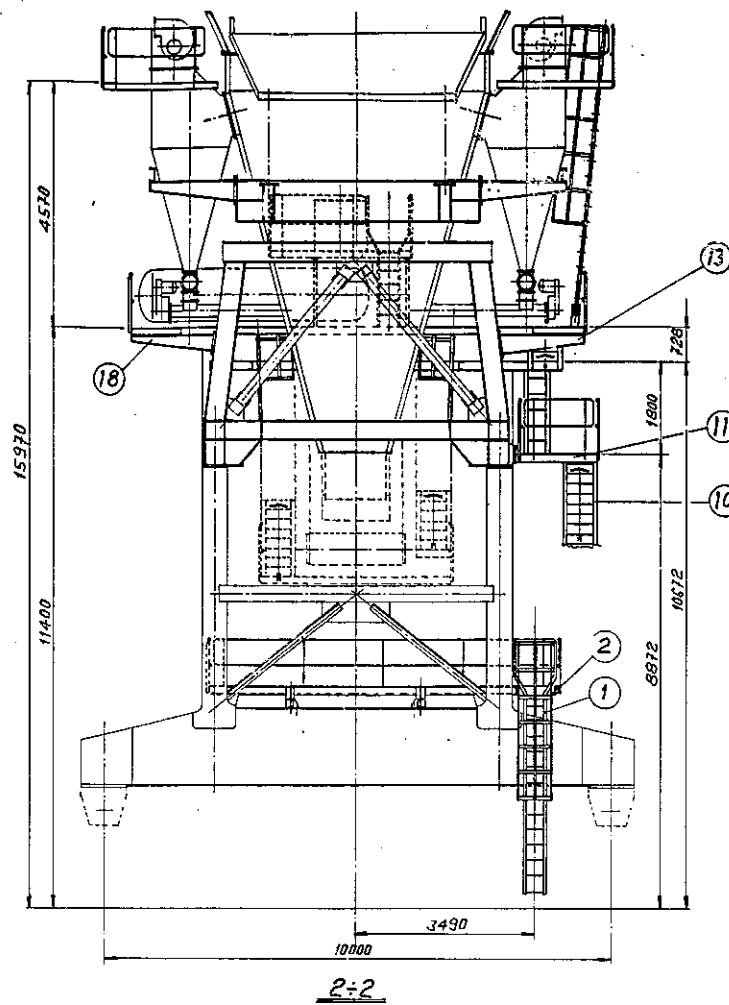
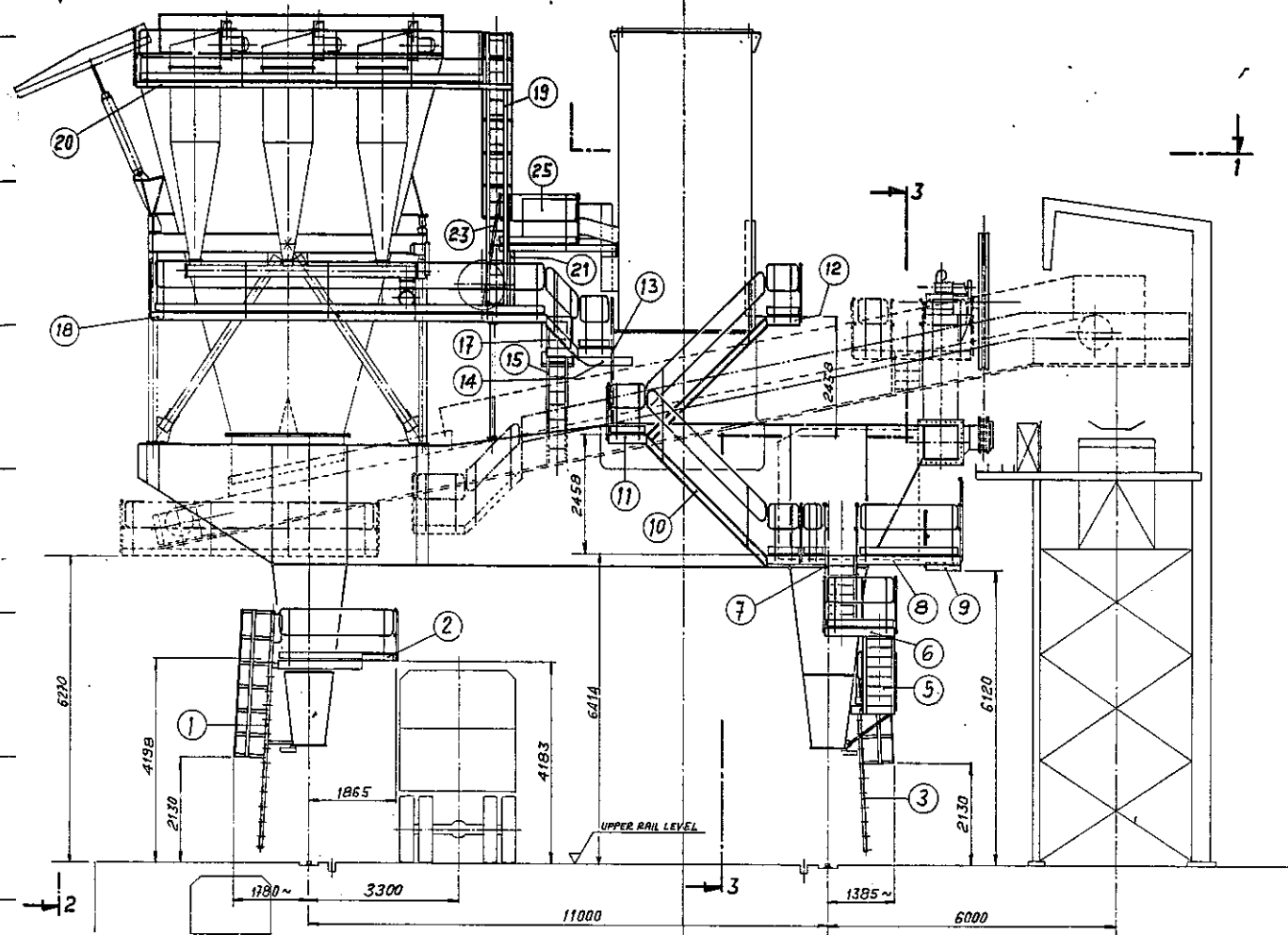
Carretti di sollevamento
Tanfani

PARTE CENTRALE TAV. 1°
PORTAL
CENTRAL PART TABLE 1°

S. 1085 408001C



88	L100x50x8	x3148	2	EN10025	Fe360B	57
87	L100x50x8	x2775	2			50
86	L100x50x8	x2770	2			150
85	L100x50x8	x2362	8			170
84	L100x50x8	x1434	8			103
83	L100x50x8	x1257	4			45
82	L100x50x8	x1097	4			40
81	L100x50x8	x1094	8			78
80						
79	HE 300A	x5440	1		Fe360B	470
78						
77	P1. 30x1620x2990		2		Fe430C	1250
76						
75	P1. 20x940 x940		4			453
74	P1. 20x90 x500		2			14
73	P1. 20x718 x1953		1			115
72	P1. 20x500 x9340		8			241
71	P1. 20x500 x9340		2			1494
70	P1. 20x500 x17344		4			2775
69	P1. 20x500 x1540		2			493
68	P1. 20x564 x804		1			55
67	P1. 20x352 x1235		1			70
66	P1. 20x239 x782		2			50
65	P1. 20x162 x950		1			8
64	P1. 20x190 x320		5			48
63	P1. 20x150 x190		7			32
62	P1. 20x1420x2950		4			1571
61	P1. 20x1041x1219		1			123
60						
59	P1. 15x500 x940		2			105
58	P1. 15x500 x3306		2			597
57	P1. 15x500 x3236		2			388
56	P1. 15x300 x473		2			34
55	P1. 15x1200x3430		2			944
54	P1. 15x400 x1565		4			300
53	P1. 12x690 x2770		2			412
52	P1. 12x620 x3732		1			260
51	P1. 12x620 x3338		1			245
50	P1. 12x732 x2770		2			274
49	P1. 12x500 x600		8			230
48	P1. 12x370 x1355		8			385
47	P1. 12x370 x1083		1			38
46	P1. 12x2990x4082		2			2343
45	P1. 12x2960x17310		2			7550
44	P1. 12x250 x967		2			46
43	P1. 12x250 x2460		2			118
42	P1. 12x120 x350		8			23
41	P1. 12x244 x550		8			80
40	P1. 12x244 x2440		4			229
39	P1. 12x244 x2440		4			226
38	P1. 12x244 x2940		2			130
37	P1. 12x220 x600		16			202
36	P1. 12x182 x888		2			31
35	P1. 12x497 x2460		2			160
34	P1. 12x182 x2460		2			86
33	P1. 12x1630x2990		2			936
32	P1. 12x146 x262		1			4
31	P1. 12x146 x516		1			7
30	P1. 12x1397x4850		4			1700
29	P1. 12x250 x2478		2			117
28	P1. 12x112 x516		1			8
27	P1. 10x150 x300		2			7
26	P1. 10x500 x1200		2			96
25	P1. 10x375 x520		1			16
24	P1. 10x300 x1200		2			58
23	P1. 10x2990x3380		2			1525
22						
21	P1. 10x272 x1300		1			28
20	P1. 10x200 x2770		2			89
19	P1. 10x150 x325		1			4
18	P1. 10x150 x2770		2			66
17	P1. 10x145 x150		4			7
16	P1. 10x1300x1405		2			292
15	P1. 10x1200x3380		2			649
14	P1. 10x100 x1500		1			12
13	P1. 10x300 x1235		2			59
12	P1. 8x470		4			44
11	P1. 8x960 x2430		2			299
10	P1. 8x780 x5104		1			248
9	P1. 8x780 x5020		1			244
8	P1. 8x700 x5020		2			450
7	P1. 8x470 x2010		4			242
6	P1. 8x400 x700		2			36
5	P1. 8x245 x700		4			48
4	P1. 8x150 x325		1			3
3	P1. 8x146 x262		4			10
2	P1. 8x121 x146		4			5
1	P1. 8x100 x500		12	EN10025	Fe430C	38



ITEM	DESCRIPTION	QTY	UNIT	MATERIAL	WEIGHT
25	486675	CONDITIONER	1		203
24					
23	443502	LADDER	1		51
22	408069	PLATFORM	1		408
21	423795	PLATFORM SUPPORTING	1		102
20	408066	PLATFORM	1		2240
19	423733	LADDER	1		150
18	408065/A	PLATFORM	1		2527
17	423772	STAIRS	1		85
16	423771	LADDER	1		70
15	423770	LADDER	1		70
14	423769/A	PLATFORM	1		681
13	443547	LADDER	1		71
12	408064	PLATFORM	1		550
11	423768	PLATFORM	1		215
10	423728	STAIRS	2		428
9	408063/A	PLATFORM	1		411
8	408062	PLATFORM	1		470
7	423727	STAIRS	1		148
6	423726	PLATFORM	1		158
5	423725	STAIRS	1		158
4	423724	PLATFORM	1		345
3	423723	LADDER	1		118
2	408042	PLATFORM	1		860
1	423722	LADDER	1		153

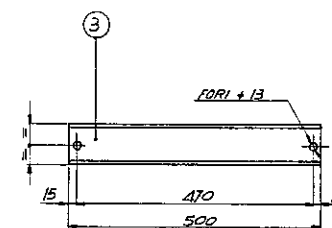
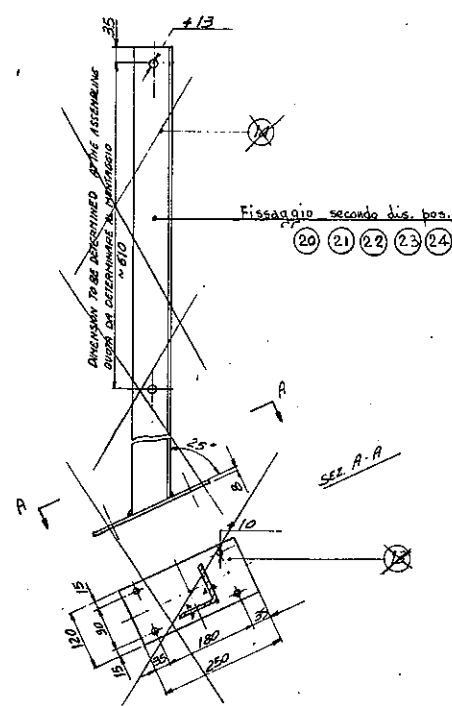
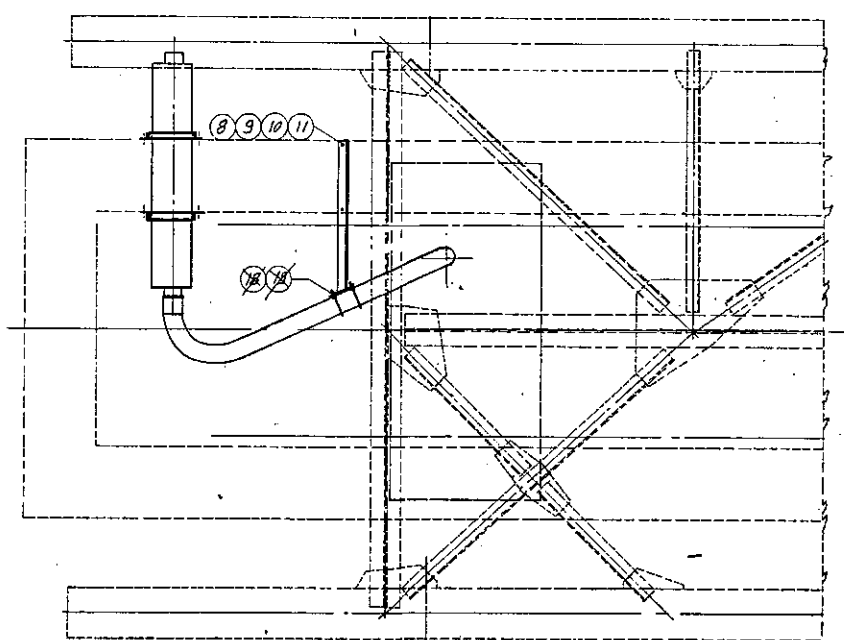
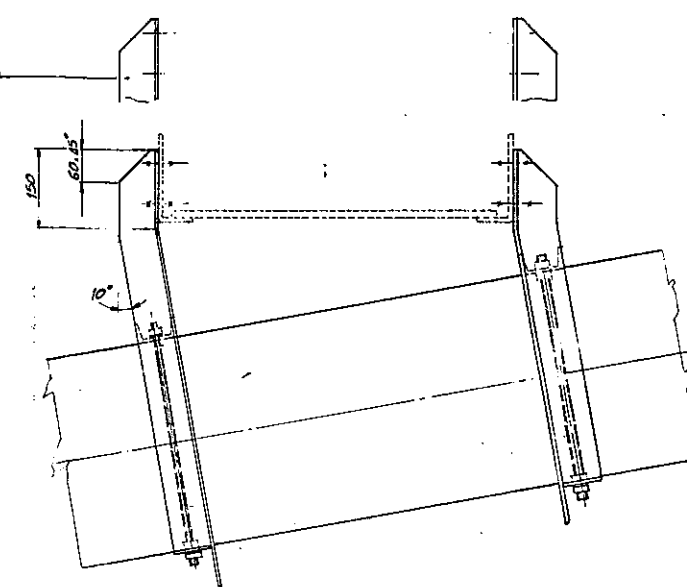
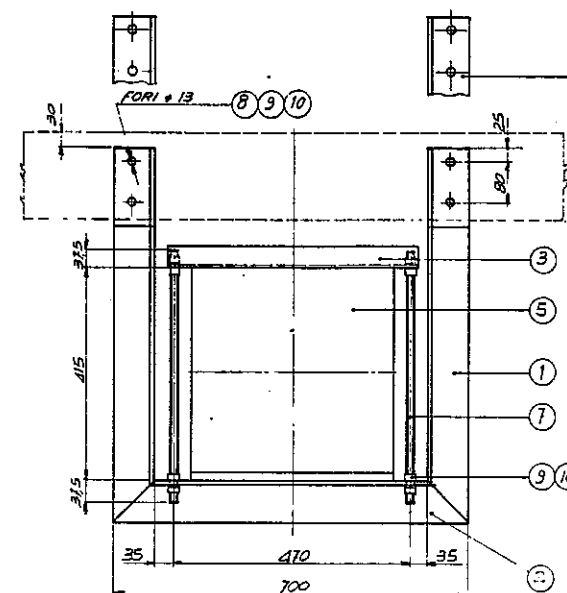
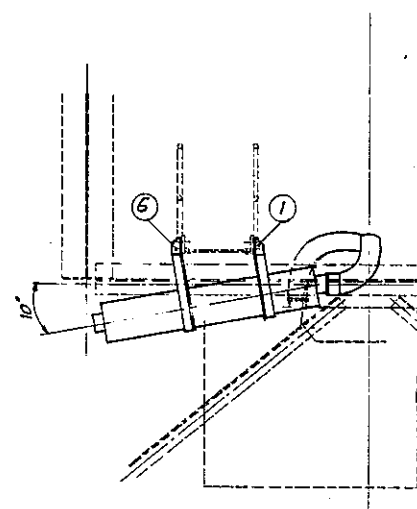
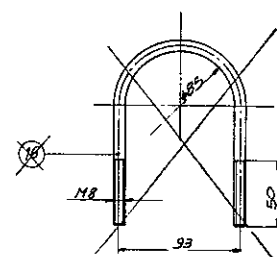
TECHNIPETROL S.p.A.

SCALE: 1:100

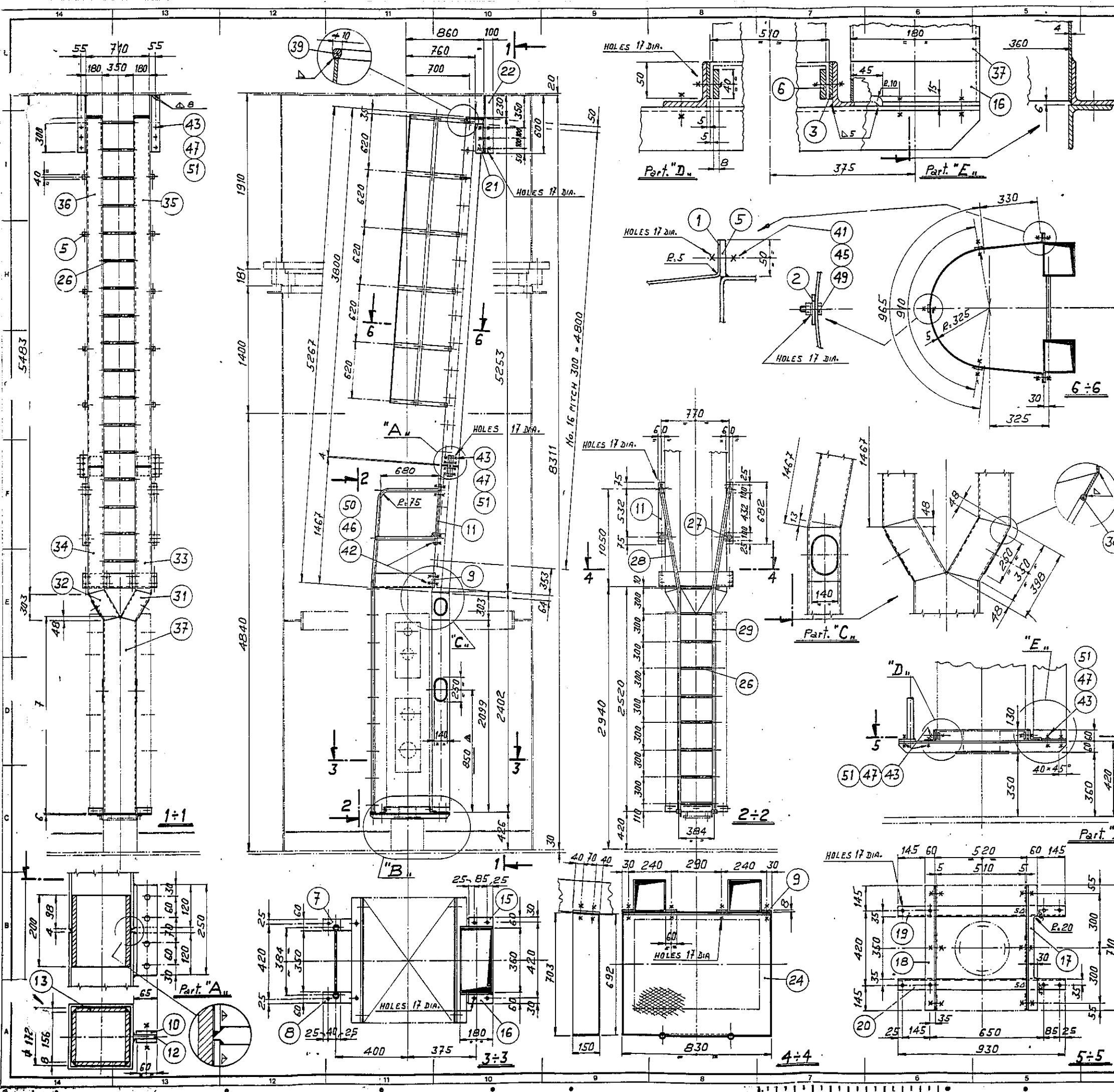
DATE: 12/10/11

71 N 03 4/8

ITEM	DESCRIPTION	QTY	UNIT	MATERIAL	WEIGHT
25	486675	CONDITIONER	1		203
24					
23	443502	LADDER	1		51
22	408069	PLATFORM	1		408
21	423795	PLATFORM SUPPORTING	1		102
20	408066	PLATFORM	1		2240
19	423733	LADDER	1		150
18	408065/A	PLATFORM	1		2527
17	423772	STAIRS	1		85
16	423771	LADDER	1		70
15	423770	LADDER	1		70
14	423769/A	PLATFORM	1		681
13	443547	LADDER	1		71
12	408064	PLATFORM	1		550
11	423768	PLATFORM	1		215
10	423728	STAIRS	2		428
9	408063/A	PLATFORM	1		411
8	408062	PLATFORM	1		470
7	423727	STAIRS	1		148
6	423726	PLATFORM	1		158
5	423725	STAIRS	1		158
4	423724	PLATFORM	1		345
3	423723	LADDER	1		118
2	408042	PLATFORM	1		860
1	423722	LADDER	1		153



26									
25									
24	Galvanized	WASHER A 17	8	1751	Steel				
23	"	NUT M 16	8	5588	GS				
22	Galvanized	Screw M 16 x 50	8	5739	8.8				
21	486815		1						
20	486814		1						
19	Inv. 56007	WASHER A 20	2	1751	Steel				
18	Inv. 56007	NUT M 16	8	5588	GS				
17									
16		WASHER	2		16200			0.4	
15									
14		L 80 x 8 l. 1500	1	EN 10025	Fe 360 B			11.5	
13		ROD 8 x 120 x 250	1	EN 10025	Fe 360 B			1.8	
12									
11	Galvanized	WASHER 13 x 24	2	6532	RO				
10	Galvanized	WASHER A 13	18	1751	Steel				
9	Galvanized	NUT M 12	26	5588	GS				
8	Galvanized	SCREW M 12 x 35	10	5739	8.8				
7		TURNED ROD M 12 x 130	4					1.1	
6		L 80 x 8 l. 715	2					15	
5	486665	EXHAUST GAS SILENCER ON 1100 HIGH POWER ENGINE	1					200	
4		ARTICULATED PIPE			Steel				
3		UPN 80 l. 500	2	EN 10025	Fe 360 B			8.5	
2		L 80 x 8 l. 700	2	EN 10025	Fe 360 B			13.5	
1		L 80 x 8 l. 650	2	EN 10025	Fe 360 B			12.5	
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNIT RATES	MATERIALI MATERIAL	PEZZI QUANT.	UNIT RATES	MATERIALI MATERIAL	PEZZI QUANT.
VARIAZIONI MODIFICATIONS									
1752 D									
8		Elim. preli 14-16-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-5							



ITEM	DISEGNO	DENOMINAZIONE	QUANT.	UNIT.	RULES	MATERIALE	PESCO
52		GALVANIZED WASHER 17	56	5714	C 50 Bm.	0.8	
50		" " A 17	16	1751	C 32	0.1	
49		GALVANIZED WASHER A 84	30	1751	C 32	0.1	
48							
47		GALVANIZED NUT M16	28	5713	B. B	1.3	
46		" " M16	16	5528	B. S	0.5	
45		GALVANIZED NUT M8	30	5528	B. S	0.2	
44							
43		GALVANIZED SCREW M16 x 50	28	5712	10.9	3.6	
42		" " M16 x 40	16	5739	B. B	1.6	
41		GALVANIZED SCREW M8 x 25	30	5739	B. B	0.5	
40							
39		ROUND 10 x 700	2	EN 10025	Fe 360 B	1	
38		" " 10 x 635	4	"	"	1	
37		TUBE 180x360x4x2147	1	EN 10025	Fe 360 B	6.3	
36		" " 180x180x3x3790	1	"	"	15	
35		" " 180x180x3x3790	1	"	"	15	
34		" " 180x180x3x1467	1	"	"	29	
33		" " 180x180x3x1467	1	"	"	29	
32		" " 180x180x3x398	1	"	"	7	
31		TUBE 180x180x3x398	1	EN 10025	Fe 360 B	7	
30							
29		TUBE 33.7x2.3x4210	1	EN 10025	Fe 360 B	7.3	
28		" " 33.7x2.3x4210	1	"	"	7.3	
27		" " 33.7x2.3x720	2	"	"	2.5	
26		TUBE 20x2x350	26	EN 10025	Fe 360 B	8	
25							
24		GROOVE PLATE 5x2x960x1100	1	EN 10025	Fe 360 B	41	
23							
22		100x10x600	2	EN 10025	Fe 360 B	18	
21		100x10x300	2	"	"	9	
20		60x6x930	1	"	"	5	
19		60x6x930	1	"	"	5	
18		60x6x710	1	"	"	4	
17		60x6x710	1	"	"	3.5	
16		60x6x180	1	"	"	1	
15		60x6x180	1	EN 10025	Fe 360 B	1	
14							
13		PLATE 8x156x200	8	EN 10025	Fe 430 B	15.5	
12		" " 8x65x120	4	"	"	2	
11		" " 8x60x682	4	"	"	10	
10		" " 8x60x250	4	"	"	3.5	
9		" " 8x60x150	4	"	"	2.5	
8		" " 8x60x90	1	"	"	0.5	
7		" " 8x60x90	1	"	"	0.5	
6		" " 8x40x710	2	"	"	3.5	
5		" " PLATE 8x40x50	12	EN 10025	Fe 430 B	1.5	
4							
3		PLATE 5x50x710	2	EN 10025	Fe 430 B	3	
2		5x40x3140	3	"	"	15	
1		PLATE 5x40x1720	6	EN 10025	Fe 430 B	16.5	
ITEM	DISEGNO	DENOMINAZIONE	QUANT.	UNIT.	RULES	MATERIALE	PESCO
	DRAWING	DENOMINATION	QTY	RULES	MATERIAL	WEIGHT	

For the correct carrying out interpretation of the operations and the control, see:

WELDS: SIMULS. and preparation rules
any slots: sec. spec. CTE 51.02.03
visual control: sec. spec. CTE 100.01
UT testing: sec. spec. CTE 120.01
RT testing: sec. spec. CTE 110.02
PT testing: sec. spec. CTE 120.01
AT testing: sec. spec. CTE 140.01
PLATES: UT testing: sec. spec. CTE 110.01
ROUNDS: UT testing: sec. spec. CTE 110.01
TOLERANCES: dimensions standard: CTE 50.04 and dwg.

PAINTING: CYCLE: sec. spec. CTE 160.02
PAINTING: INSPECTION: sec. spec. CTE 160.01
BOLTS: sec. spec. CTE 180.01
BOLTS: tightening standard: CTE 50.04

Slots level welding
- See standard: CTE 51.02-06/C

For the execution of the bolts see standard CTE 52.04. The bolts in material 10.9 should be tightened by means of a dynamic wrench with the following tightening moments:

GALVANIZED BOLTS	
M16	310 Nm
M20	560 Nm
M24	1035 Nm
M27	1480 Nm

Unless different instructions are given all the pieces are to be welded with fillet 4.3.3
Unless different instructions are given all the pieces are to be welded with fillet 4.3.3

The length of the structural steel and the plates dimensions which are shown in the tables are approximate and they should be determined through marking

STEEL STRUCTURE WEIGHT: ~ 474 kg
BOLTS WEIGHT: ~ 10 kg
WELDINGS WEIGHT: ~ 6 kg
TOTAL WEIGHT: ~ 490 kg

TECHNIPETROL SpA

PRODOTTORE: SUGAR REFINERY
CLIENTE: UNITED SUGAR CO. - JEDDAH - S. ARABIA

MATERIALE: SUGAR REFINERY

2581 MR

REVISIONI:

REVISIONI	DATA	CAUSA
1	12/95	MODIFICAZIONE

APPROVED AS NOTED

NOT APPROVED

FINAL DRAWING

REVISIONI:

REVISIONI	DATA	CAUSA
1	12/95	MODIFICAZIONE

REVISIONI:

REVISIONI	DATA	CAUSA
1	12/95	MODIFICAZIONE

Ceretti impianti
di sollevamento
Tantani e trasporto

20020 Carliano (Le) - Italia

PRODOTTORE: SUGAR REFINERY

CLIENTE: UNITED SUGAR CO. - JEDDAH - S. ARABIA

MATERIALE: SUGAR REFINERY

2581 MR

REVISIONI:

REVISIONI	DATA	CAUSA
1	12/95	MODIFICAZIONE

APPROVED AS NOTED

NOT APPROVED

FINAL DRAWING

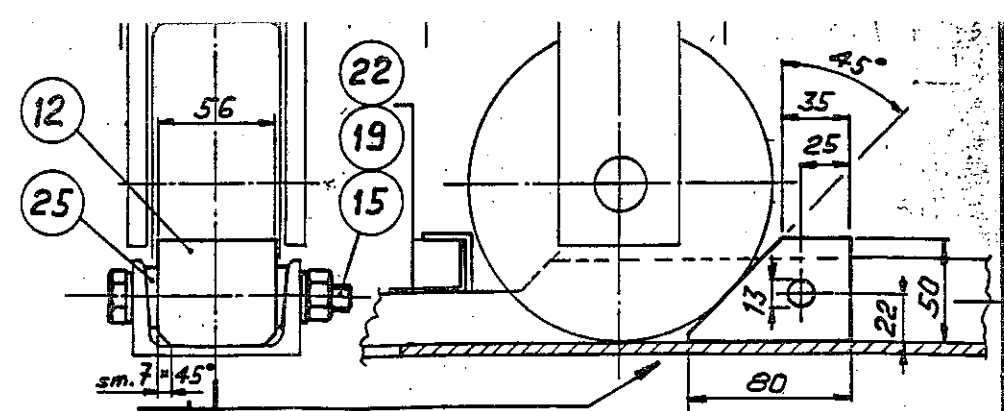
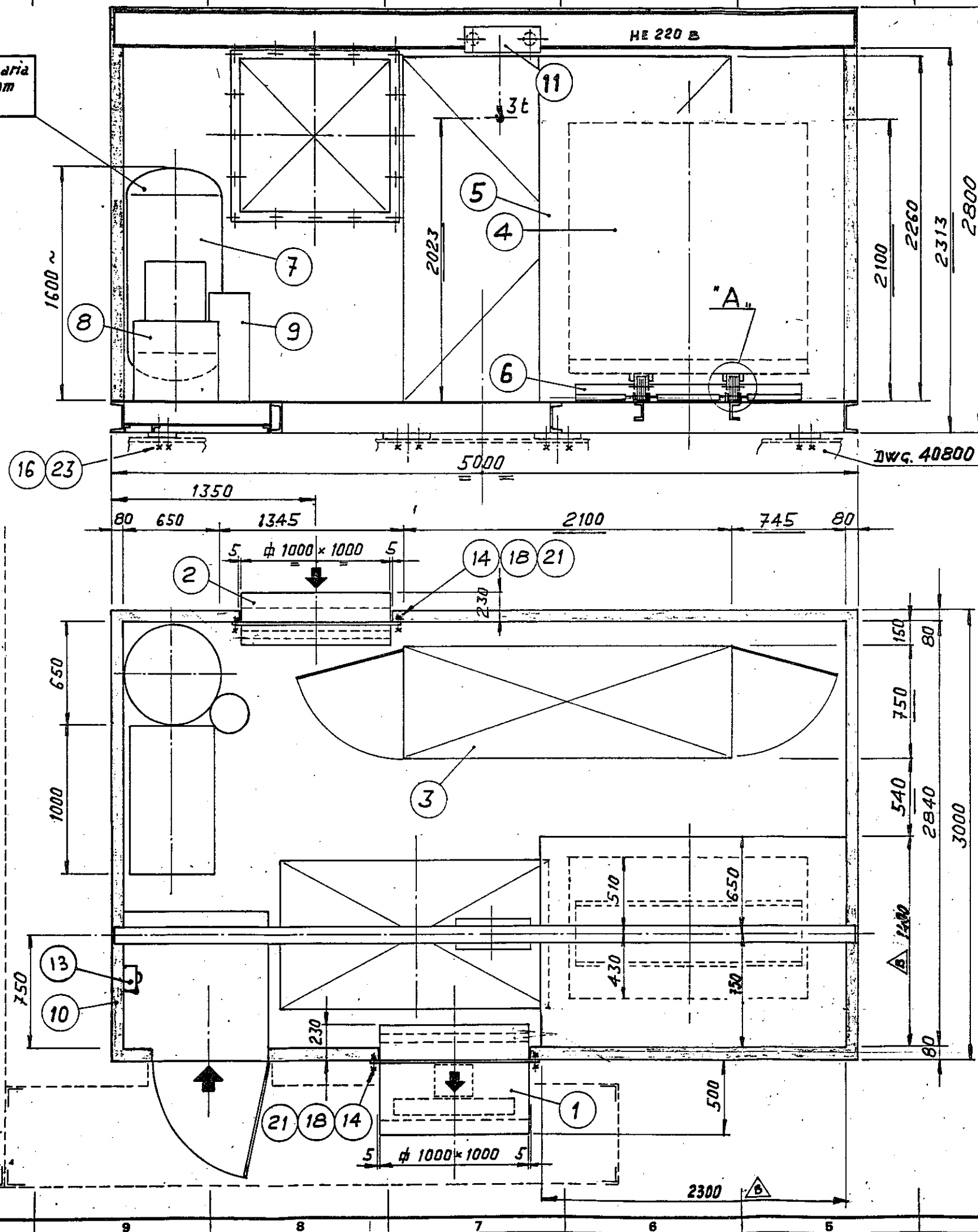
REVISIONI:

REVISIONI	DATA	CAUSA
1	12/95	MODIFICAZIONE

REVISIONI:

REVISIONI	DATA	CAUSA
1	12/95	MODIFICAZIONE

Schema impianto aria
Air plant diagram
dwg. 465887



ITEM	DESCRIPTION	QTY	UNIT	MATERIAL	WEIGHT
28					
27					
26					
25	GALVANIZED PLATE UPN: 13	6	5716	C 50	
24					
23	GALVANIZED WASHER 25	16	5714	C 50 Bon.	
22	" " 13	8	5714	C 50 Bon.	
21	GALVANIZED WASHER A13	32	1751	C 72	
20					
19	GALVANIZED NUT M12	4	5713	B. 8	9
18	GALVANIZED NUT M12	32	5588	6.5	
17					
16	GALVANIZED SCREW M 24 x 60	16	5712	10.9	
15	" " M 12 x 110	4	5712	10.9	
14	GALVANIZED SCREW M 12 x 30	32	5739	B. 8	
13	INTERPHONE	1			10
12	PLATE 50 x 56 x 80	4	EN 10025	Fe 360 B	5
11	486667 HOIST 3 ton.	1			130
10	408012/E ELECTRICAL CONTROL ROOM	1			3794
9	486774 DRIER	1			60
8	486771 MOTOR-DRIVEN COMPRESSOR	1			400
7	486773 TANK	1			160
6	465827 EXTRACTABLE FILTERS	1			1
5	486673/A TRANSFORMER PROTECTION	1			100
4	486672 TRANSFORMER	1			2900
3	486671/A MV CELL	1			1200
2	465622/A FILTER WITH GRID	1			1
1	465755 FAN WITH GRID	1			230
ITEM	DESCRIPTION	QTY	UNIT	MATERIAL	WEIGHT

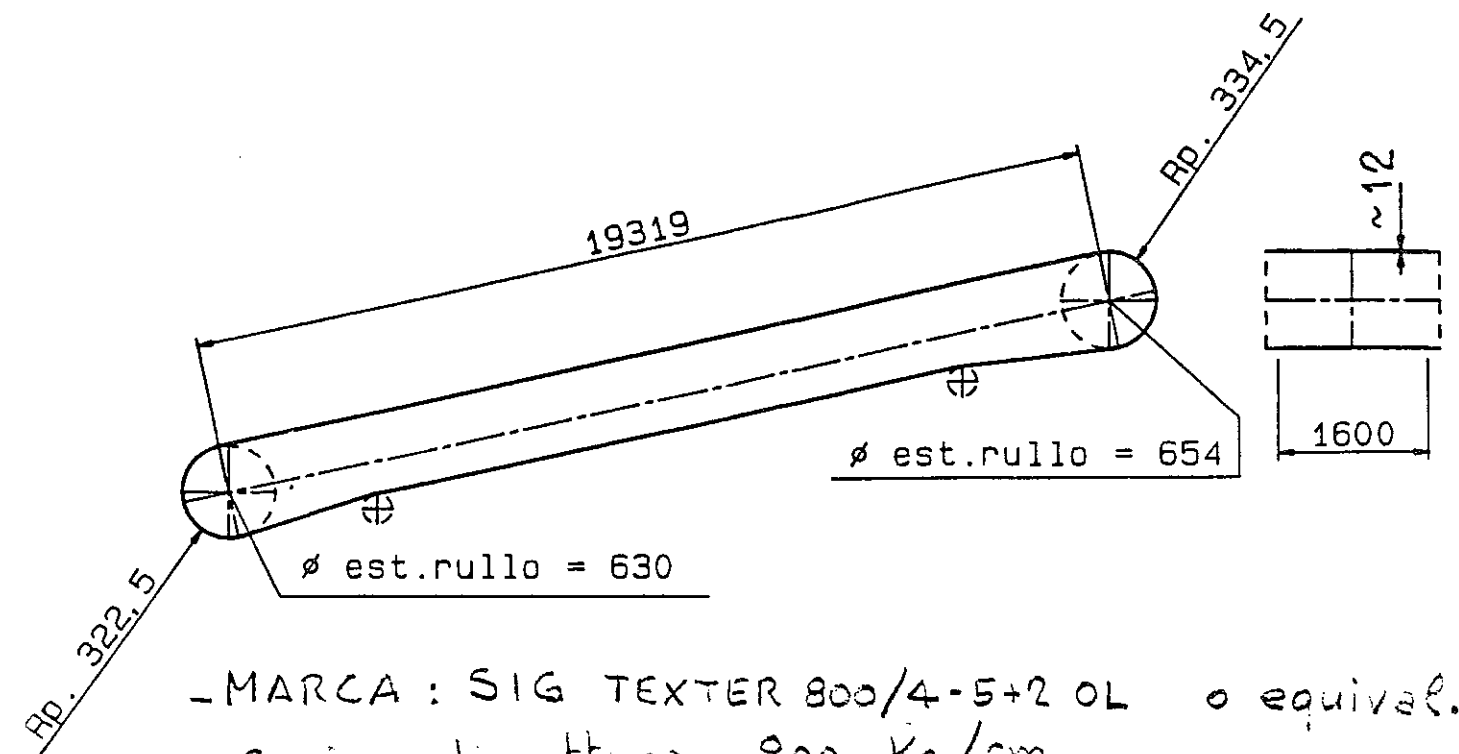
TECHNIPETROL SpA		APPROVED	
PROJ: SUGAR REFINERY		APPROVED AS NOTED	
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA		NOT APPROVED	
MATERIAL REQUISITION No.		FINAL DRAWING	
2561 MR		APPROVAL	
ITEM		DATE	
NO. Dwg. CODE:			

REV	ISSUE	VARIATIONI / MODIFICATIONS	SIGLA	DATA	DATA	DATA	DATA	DATA	DATA
E									
D									
C									
B		Mod. quote. A e pns. 5-7-8-9-10	5-7	14-3-86					
A		MODIFIED ITEM 3 e 10. mod. 13. I.A. P2	13	18-5-86					

Ceretti impianti
di sollevamento
e trasporto

20020 Coriano Legheto (RN) Via Milano 10/12 ITALIA

PORTALE		Ricevuto da / Taken from	
PORTAL			
CABINA APPARECCHIATURE		S-1085	
ELETTICHE - ASSIEME -		443571/A	
ELECTRICAL CONTROL			
ROOM - ASSEMBLY			



- MARCA : SIG TEXTER 800/4-5+2 OL o equival.
- Carico di rottura 800 Kg/cm
- Max carico di lavoro 100 Kg/cm
- NASTRO - B=1600 mm Sviluppo lunghezza finita = 39670 mm
- carico di lavoro 80 Kg/cm
- n° 4 tele: ~~sarà stabilito dal costruttore in funzione del carico di lavoro~~
- rivestimento 5+2 con bordi chiusi
- spessore ~12 mm ~~(sarà stabilito dal costruttore)~~
- (A) → ~~montaggio anello chiuso~~
- resistente agli olii, grassi, umidità e al calore (~70°C)
- antistatico
- servizio continuo - Peso ~ 26 Kg/m Kg 1032

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION		PEZZI QUANT.	UNI RULES		MATERIALE MATERIAL	PESO WEIGHT
REV. ISSUE	VARIAZIONI / MODIFICATIONS		SIGLE SIGN.	DATA DATE	DATA DATE	R FIRMA SIGN.	DISEGNATO DRAWN BY	SCALA SCALE
E							Bolzani	/ /
D							CONTROLLATO CONTROLLED	
C								
B	AGGIORNATO		ST	12/95			VISTO APPROVED	DATA DATE
A	Aggiornato disegno.		ST	11/95				8-11 1995



**Ceretti impianti
di sollevamento
Tanfani e trasporto**

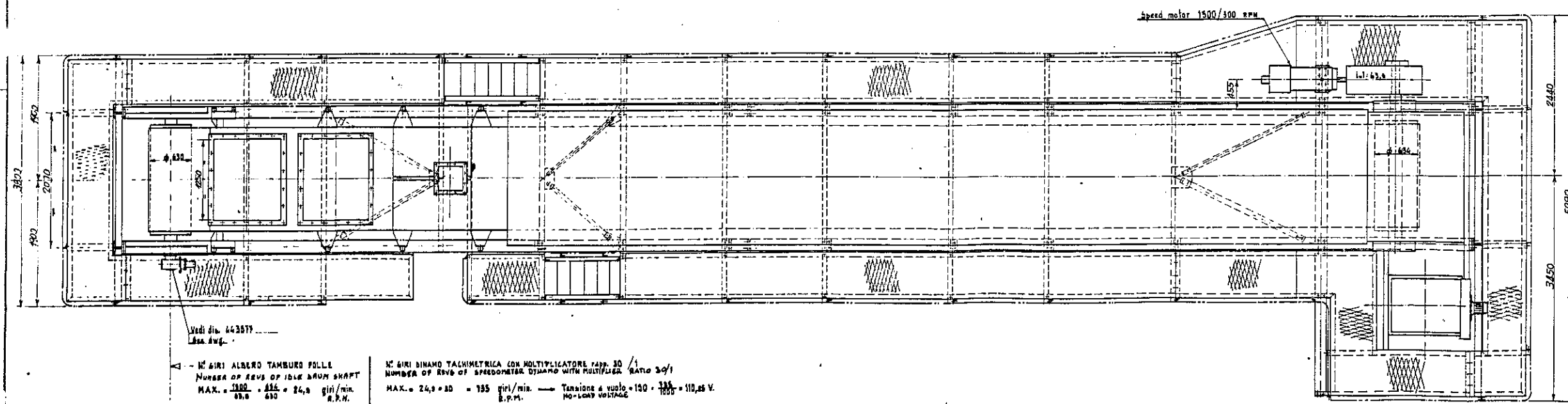
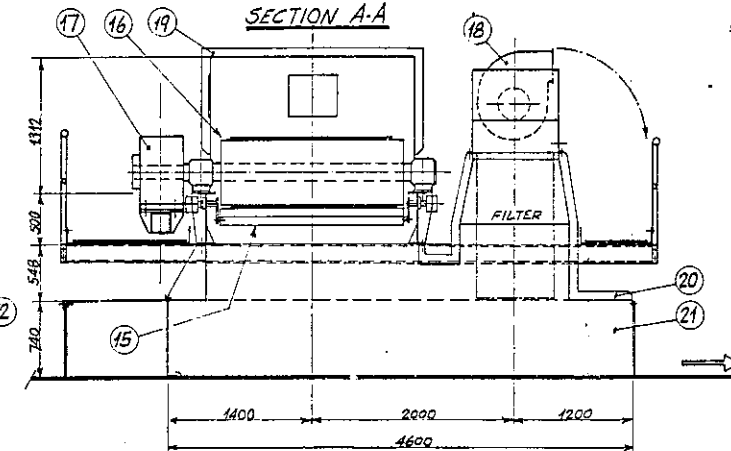
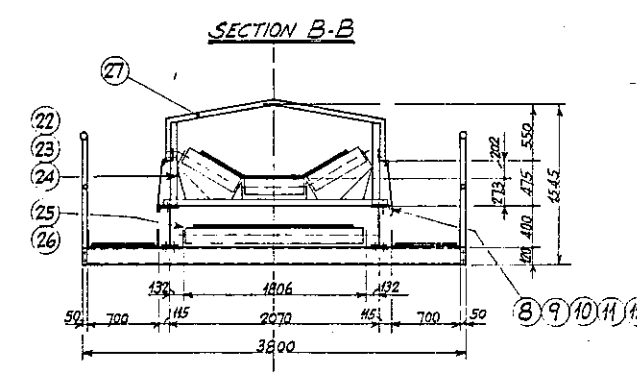
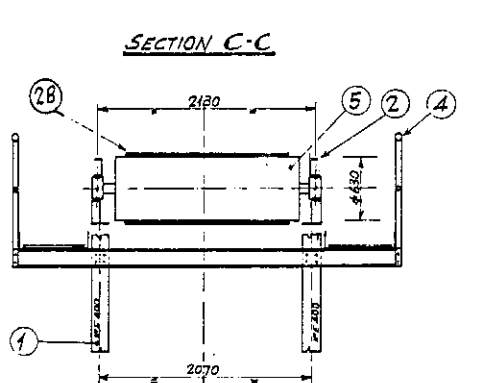
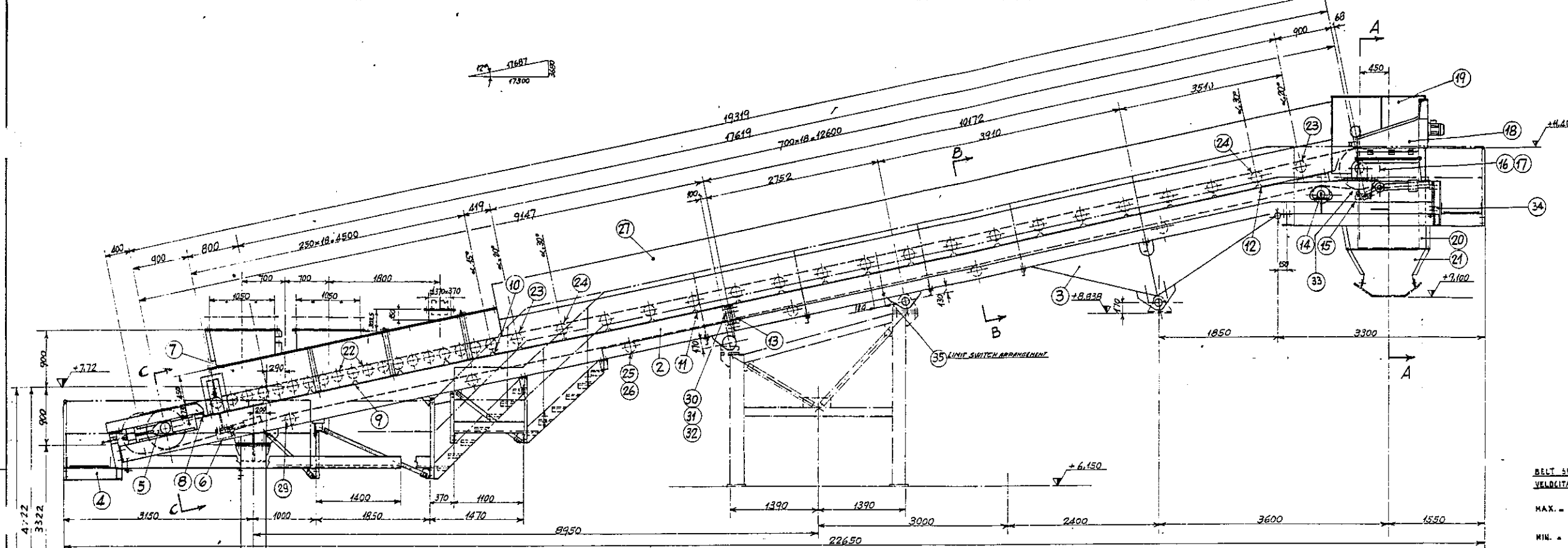
20020 Ceriano Laghetto (MI) Via Milano 10/12 ITALIA

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NASTRO	COMESSE ORDERS	Ricavato da / Taken from:				
		S.1085				
BELT						

48662713



BELT SPEED (Adjustable motor speed from 100% to 20%)
VELOCITÀ NASTRO (Motore a velocità variabile dal 100% al 20%)

MAX. = $1500 \cdot \frac{1}{63.5} \cdot \frac{\pi \cdot 0.636}{60} = 0.80 \text{ m./sec.}$
 MIN. = $300 \cdot \frac{1}{63.5} \cdot \frac{\pi \cdot 0.636}{60} = 0.16 \text{ m./sec.}$

* 18: IL POSIZIONAMENTO DELLA SIRENA (Pos.36) DEVE ESSERE DETERMINATO AL MONTAGGIO.
 NOTE: THE POSITIONING OF THE SIREN (Pos.36) SHOULD BE DETERMINED DURING ERECTION.

TOTAL WEIGHT Kg. 25370

Pos.	MEMORIE SIREN	QTY	122V-60Hz-07A	WGT
36	465947	1	122V-60Hz-07A	1032
34	423343	1	SIGNAL OF LEVEL	0
33	408055	1	CIRCULAR BRUSH APPLIC.	234
32	465713	22	WASHER 21	5714
31	465715	16	NUT M20	5713
30	465717	16	SCREW M20x65	5712
29	408049	1	ROLLER OF RETURN PLAT.	1032
28	465627	1	BELT	1032
27	408051	1	COVERING	1032
26	465766	5	ROLLER WITH RUBBER RING	1032
25	465766	12	SUPPORT ROLLER OF RETURN	1032
24	465713	17	TRIAD ROLLS - 30°	1032
23	465715	2	TRIAD ROLLS - 20°	1032
22	465717	19	TRIAD ROLLS - 15°	1032
21	408054	1	OUTLET TROUGH	1032
20	408049	1	OUTLET HOPPER	1032
19	408048	1	OUTLET CASING	1032
18	465668	1	FILTER FOR DEDUSTING	1032
17	408040	1	DRIVING UNIT	1740
16	423377	1	DRIVING DRUM	1150
15	443531	1	SCRAPER DRIVING DRUM	176
14	465706	1	IDLE DRUM	136
13	465763	2	BELT PROTECTION	5
12	465712	1	PROTECTION	76
11	465710	17	PROTECTION	644
10	465709	1	PROTECTION	23
9	465711	5	PROTECTION	200
8	465697	1	PROTECTION	60
7	408047	1	FEEDING HOPPER	1600
6	465719	1	SHAFT CLEANING	38.5
5	465705	1	TENSION DRUM	82
4	408045	1	GANGWAY	1180
3	408044	1	211 PART FRAME	254.5
2	408043	1	211 PART FRAME	1850
1	423756	1	VERTICAL SUPPORT	632

TECHNICAL DATA

Model: 11H 03 A/B

Power: 11H 03 A/B

Speed: 1500/300 RPM

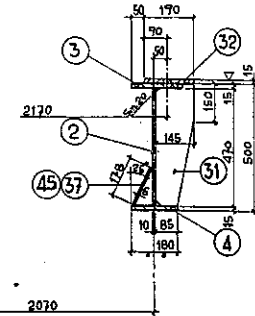
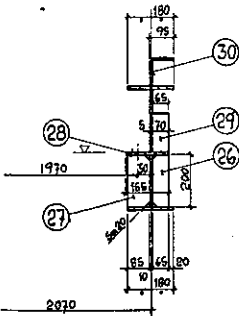
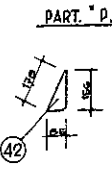
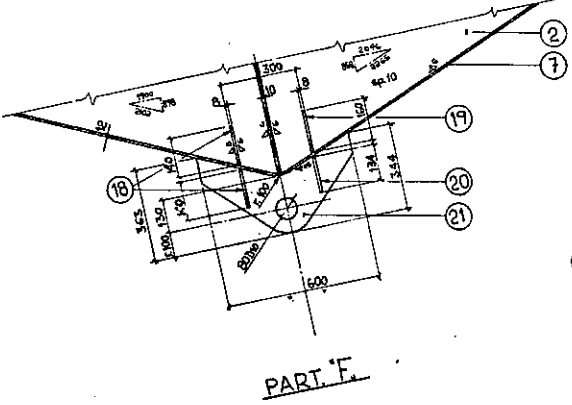
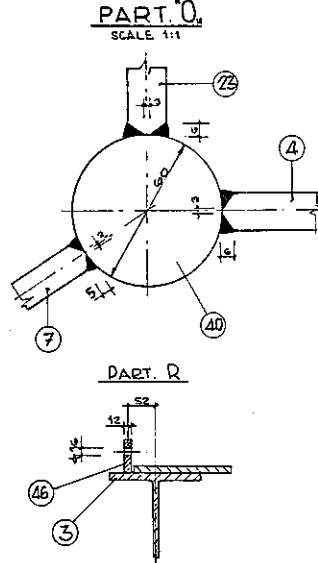
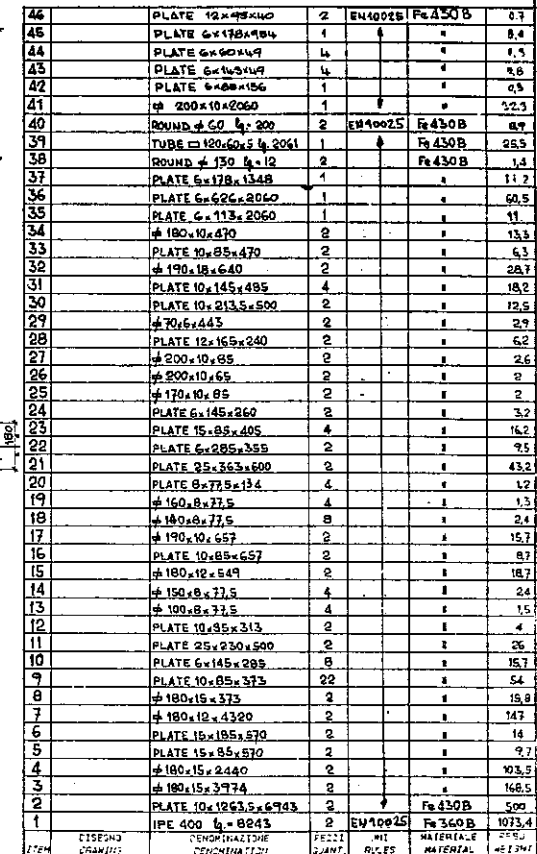
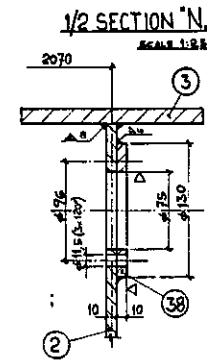
Capacity: 11H 03 A/B

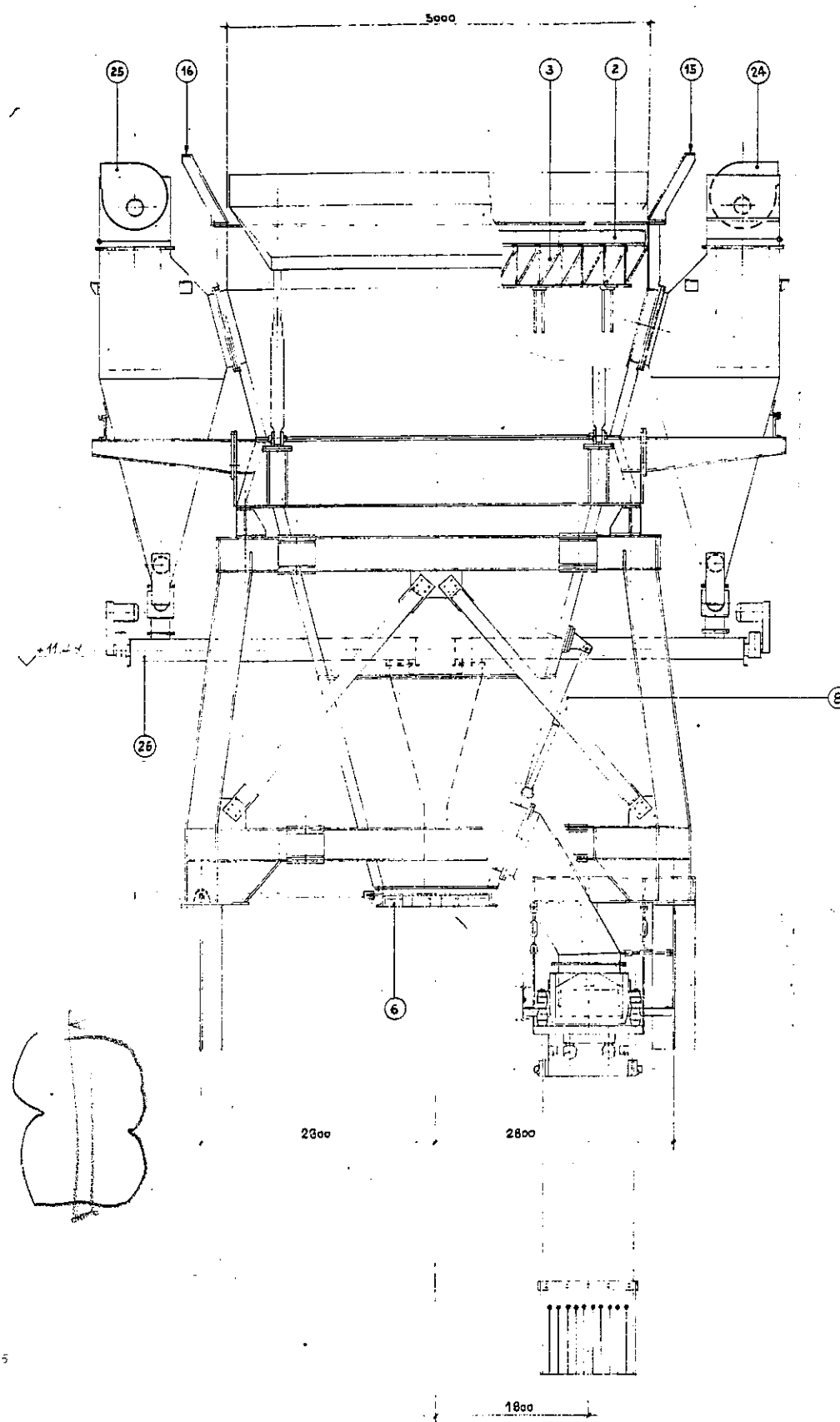
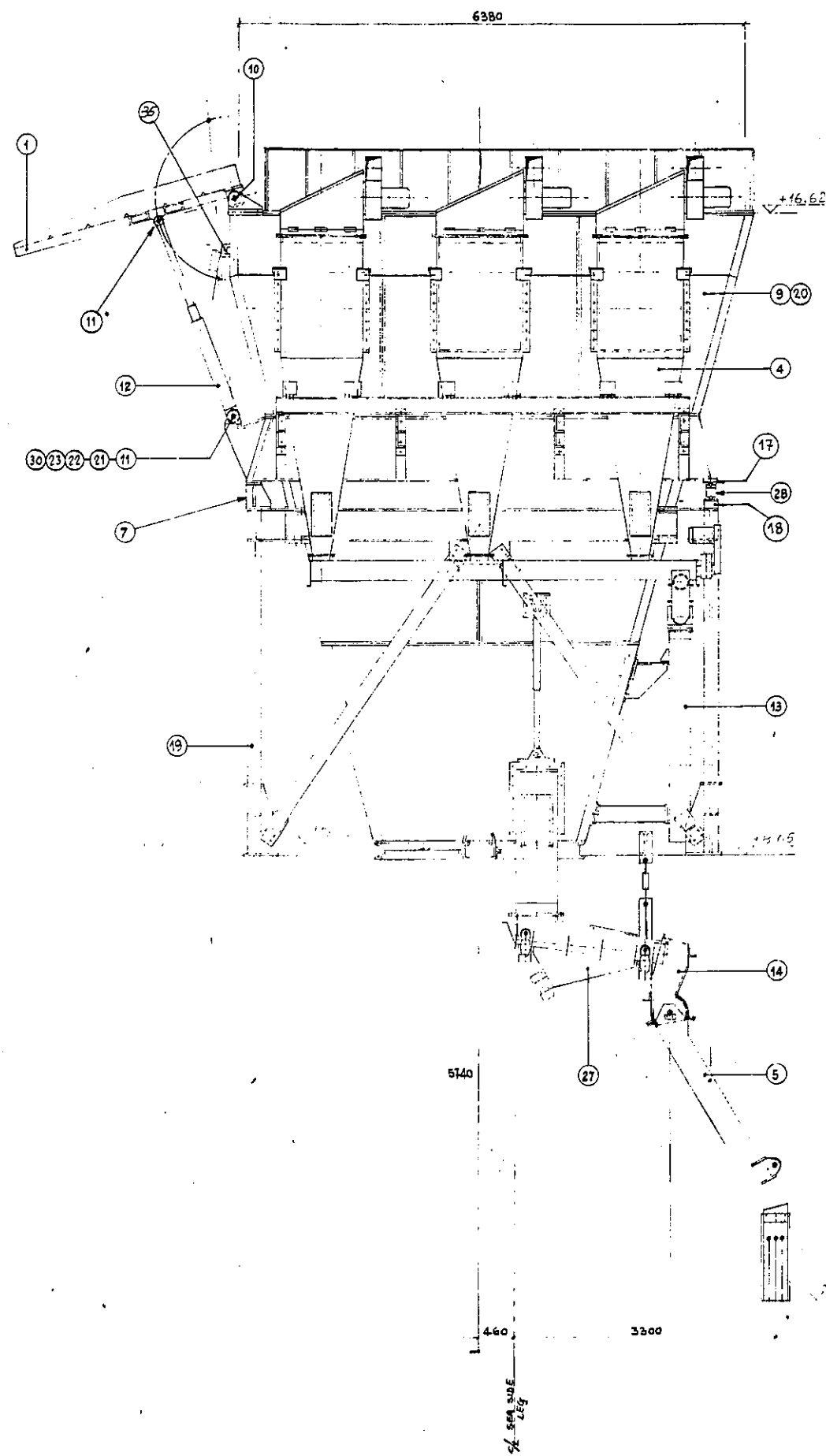
Weight: 25370 Kg.

1° SIRE ALBERO TAMBURI POLLE
 NUMBER OF REV. OF IDLE DRUM SHAFT
 MAX. = $\frac{1000}{60} \cdot \frac{110}{1000} = 1.83 \text{ giri/min.}$
 MIN. = $\frac{100}{60} \cdot \frac{110}{1000} = 0.183 \text{ giri/min.}$

2° SIRE DINAMO TACHIMETRICA CON MOLTIPLICATORE
 NUMBER OF REV. OF FREQUENCY DIVIDER WITH MULTIPLIER
 MAX. = $\frac{240}{60} \cdot \frac{110}{1000} = 4.4 \text{ giri/min.}$
 MIN. = $\frac{240}{60} \cdot \frac{110}{1000} = 0.44 \text{ giri/min.}$

Tensione a vuoto = 150 V
Tensione a vuoto = 150 V

[illegible]



Weight:
Peso: 50782 Kg

36	408039	FRONTAL APRON LIMIT SWITCH	1			32
35						
34		Vibration Damping	2		Spec. CT. 1.	
33		Flood Light support	2		51.08/0	
32		IGNITER	2			
31		Flood Light 1000 W	2			
30	Galvan.	Washer A 21	8	1751	C 72	
29		Box type 4262/28	1		Spec. CT. 1.	
					909.01/0	
28	465674	HOPPER LOAD CELL	2			
27	423723/A	VIBRATING FEEDER	1			1325
26	408034	SCREW CONVEYOR DUST RECYCLE	1			1052
25	465668A	FILTER FOR DEUSTING EQ. NT	3			900
24	465667A	FILTER FOR DEUSTING EQ. NT	3			900
23	Galvan.	1/2" M 20	8	5583	CS	
22	Galvan.	SCREW M 20 - 80	8	5737	8G	1
21	423693	CYLINDER SUPPORT	1		Detail D	60
20	408038	HOPPER COVERING	1			4900
19	408024	SUPPORTING STRUC.	1			6393
18	423687-A	THICKNESS	1		Detail F	33
17	423687-A	THICKNESS	1		Detail E	3.5
16	443481-A	APRON CONVEYOR LEFT	1			670
15	443480-A	APRON CONVEYOR RIGHT	1			670
14	443527	TRUCK LOADING COWLING	1			162
13	423734	HOPPER DISCHARGED SCREW	1			480
12	465679-B	CYLINDER FRONTAL APRON	2			160
11	443546	PIN CYLINDER FRONTAL APRON	4			10
10	443545	PIN FRONTAL APRON	1			133
9	443485-A	HOPPER STRUCTURE	1		408019-B	11600
8	423669-A	LATERAL GATE	1			152
7	423671	SUPPORT	2			104
6	423670-A	LOWER GATE	2			1072
5	408039	TRUCK LOADING CHANEL	1			468
4	408016	PLENUM	6			3888
3	408014	DEUSTING-GRID	1			5760
2	408015	PRE-GRID	1			1902
1	423672-B	FRONTAL APRON	1			2040

POS.	ITEMS	QUANT.	UNIT	MATERIAL	WEIGHT
1	423672-B	1	FRONTAL APRON	2040	

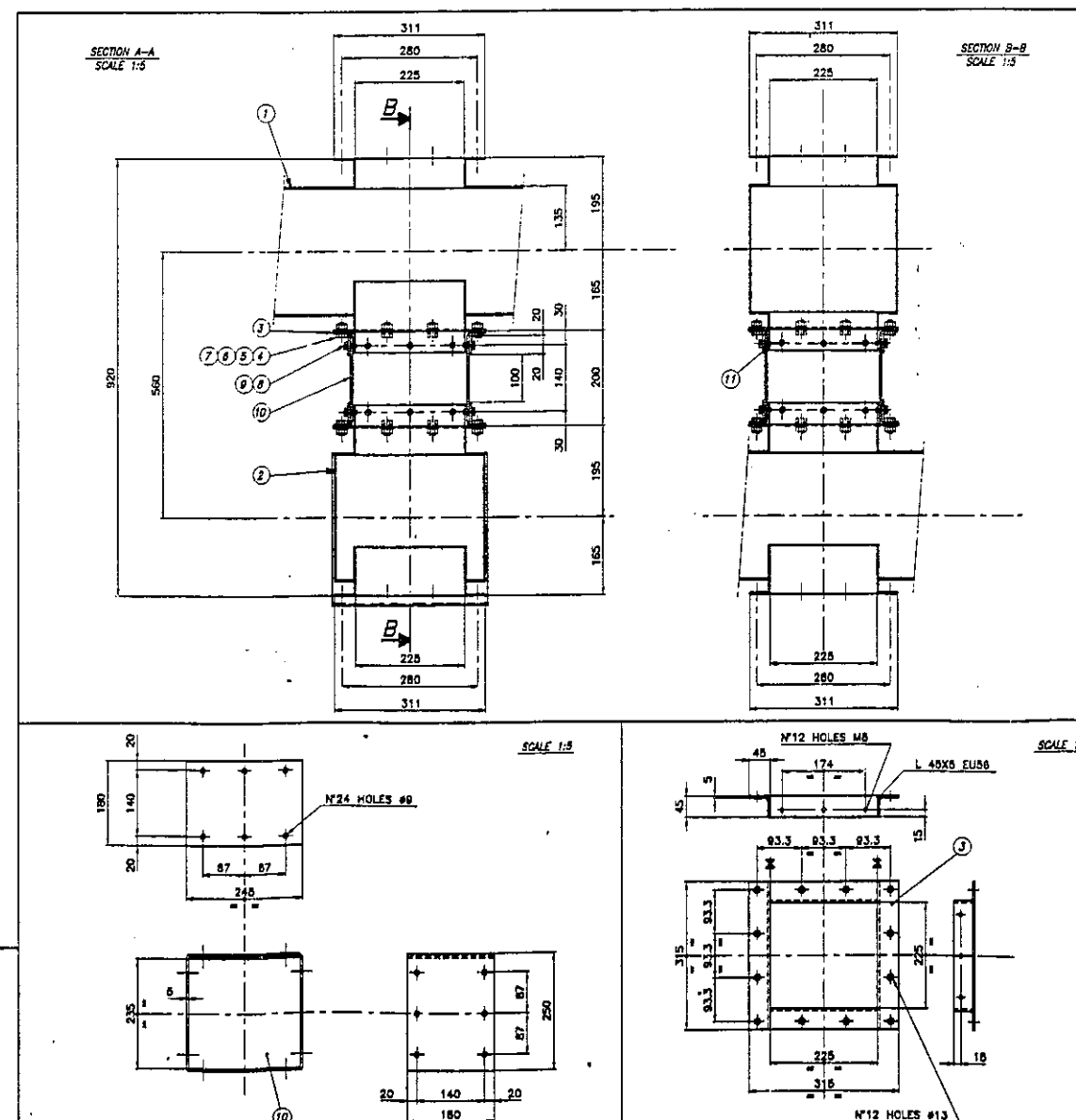
TECHNICAL SPECIFICATIONS

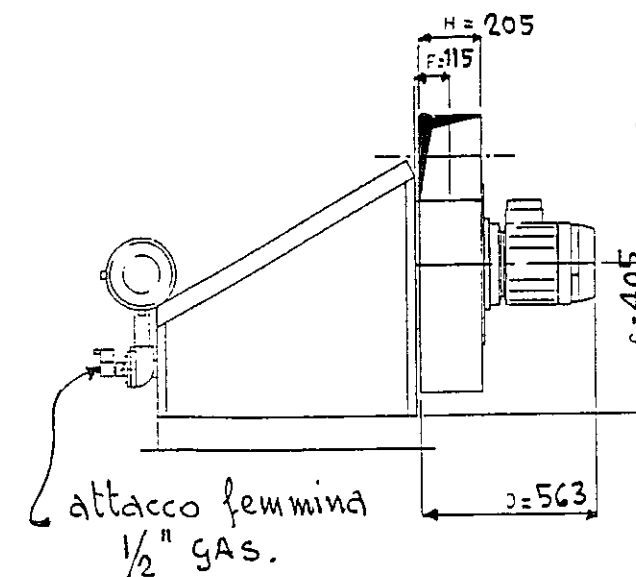
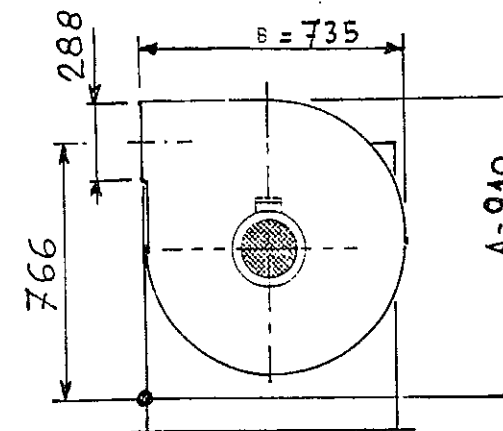
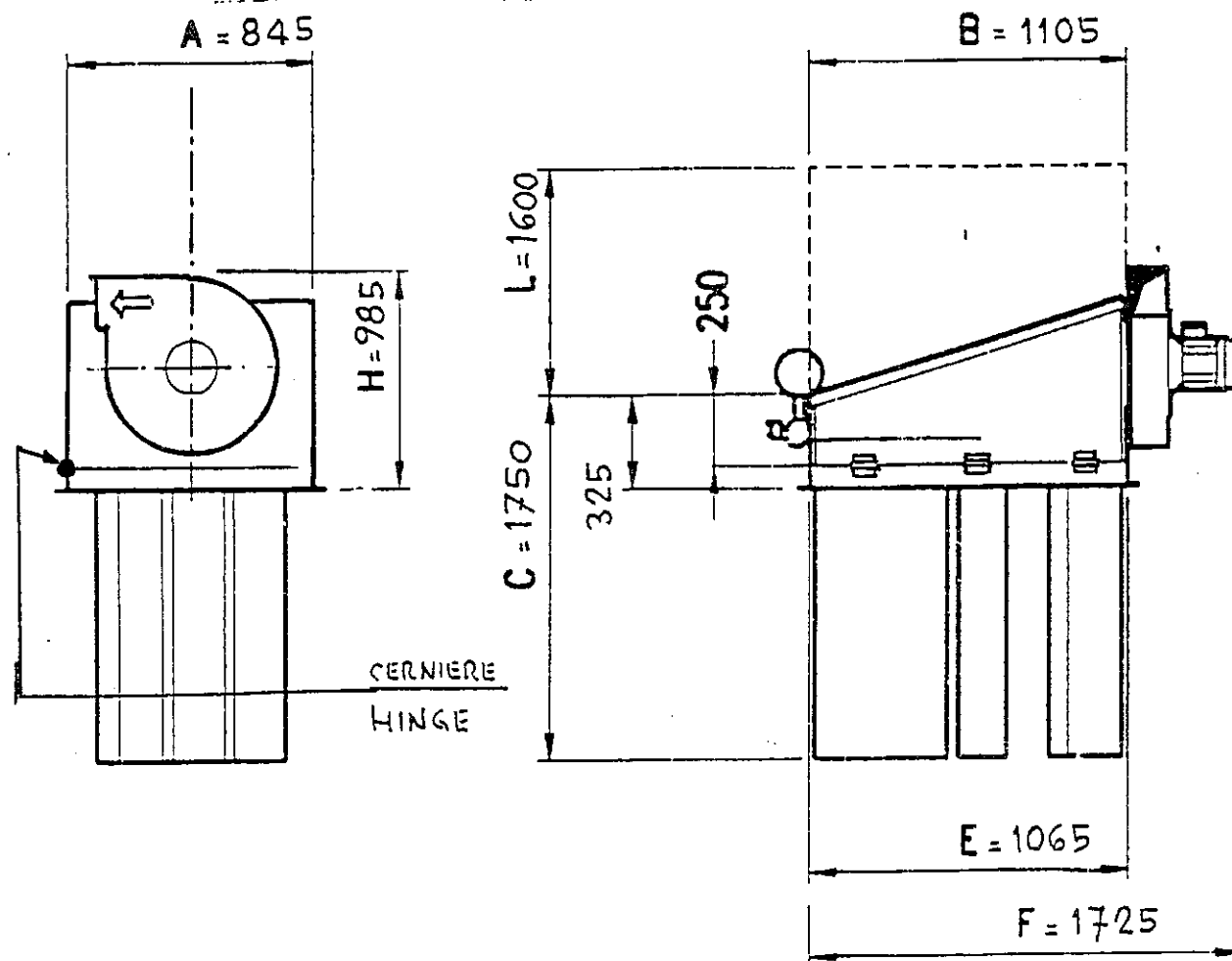
App. per 36
Mod. per 21

GRUPPO TRAMOGGIA
INSIEME GENERALE
HOPPER
ASSEMBLY

5.1085

4.0799618

[illegible]



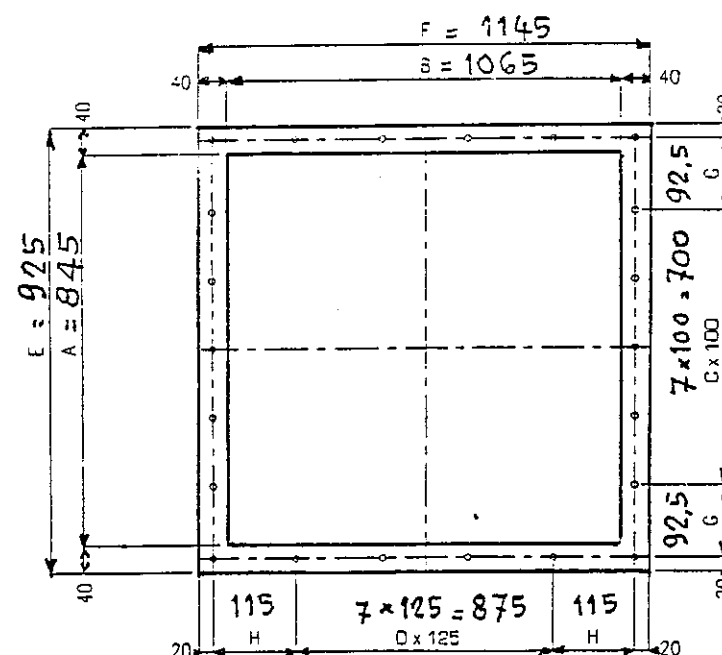
FAN CAPACITY: $4200 \text{ Nm}^3/\text{h}$
 FILTERING SPEED:
 $\frac{4200}{28 \cdot 60} = 2,5 \text{ m}^3/\text{min}$

TECHNICAL CHARACTERISTICS

TYPE: WAM - FITN 28 + ASP - LEFT HAND
 FILTER SURFACE: 28 m^2
 MOTOR: 4 kW - 380 V - 60 Hz - 3 PH - 3468 r.p.m.
 TECHNIC. SPEC.: CT. I. 350.01/Co. S. 1085

FILTRO
SINISTRO

LEFT
FILTER



No. 4 PEZZI (No 3 PER TRAMOGGIA + No. 1 PER NASTRO)

Nr. 4 PIECES (Nr 3 FOR HOPPER + Nr 1 FOR CONVEYOR)

TECHNIPETROL SpA		APPROVAL OF THIS DRAWING IS RESTRICTED TO THE GENERAL CHARACTERISTICS OF THE DESIGN AND TO PRINCIPAL DIMENSIONS ONLY. CORRECTIONS, IF ANY, SHALL BE NOTED THEREON OR IN A TECHNIPETROL APPROVAL LETTER. WITH THIS APPROVAL TECHNIPETROL DOES NOT ASSUME ANY RESPONSIBILITY NEITHER FOR THE CORRECTNESS OF THE DESIGN AND THE CONSTRUCTION NOR FOR THE PERFORMANCE OF THE EQUIPMENT AND ITS SAFETY IN ACCORDANCE WITH THE REQUIREMENT OF THE ORDER	
PROJ.: SUGAR REFINERY		APPROVED	
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA		APPROVED AS NOTED	
MATERIAL REQUISITION No.		NOT APPROVED	
2551 MR		FINAL DRAWING	
ITEM		APPROVAL SECTION BY DATE	
		RD Dwg. CODE:	

WEIGHT: 300 kg

REV. ISSUE	VARIAZIONI / MODIFICATIONS	SIGLE SIGN.	DATA DATE	DATA DATE	R FIRMA SIGN.	DISEGNATO DRAWN BY	SCAL. SCAL.
E						SPM	
D						CONTROLLATO CONTROLLED	/
C							
B						VISTO APPROVED	DATE 31-9
A	Aggiornato giri motore	di M					



Ceretti impianti
 di sollevamento
 Tanfani e trasporto

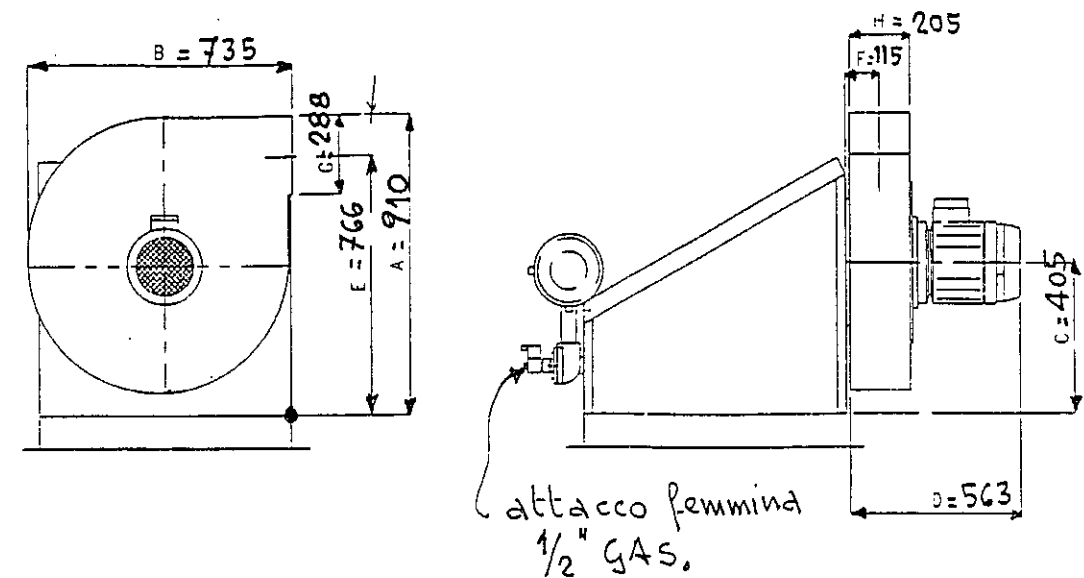
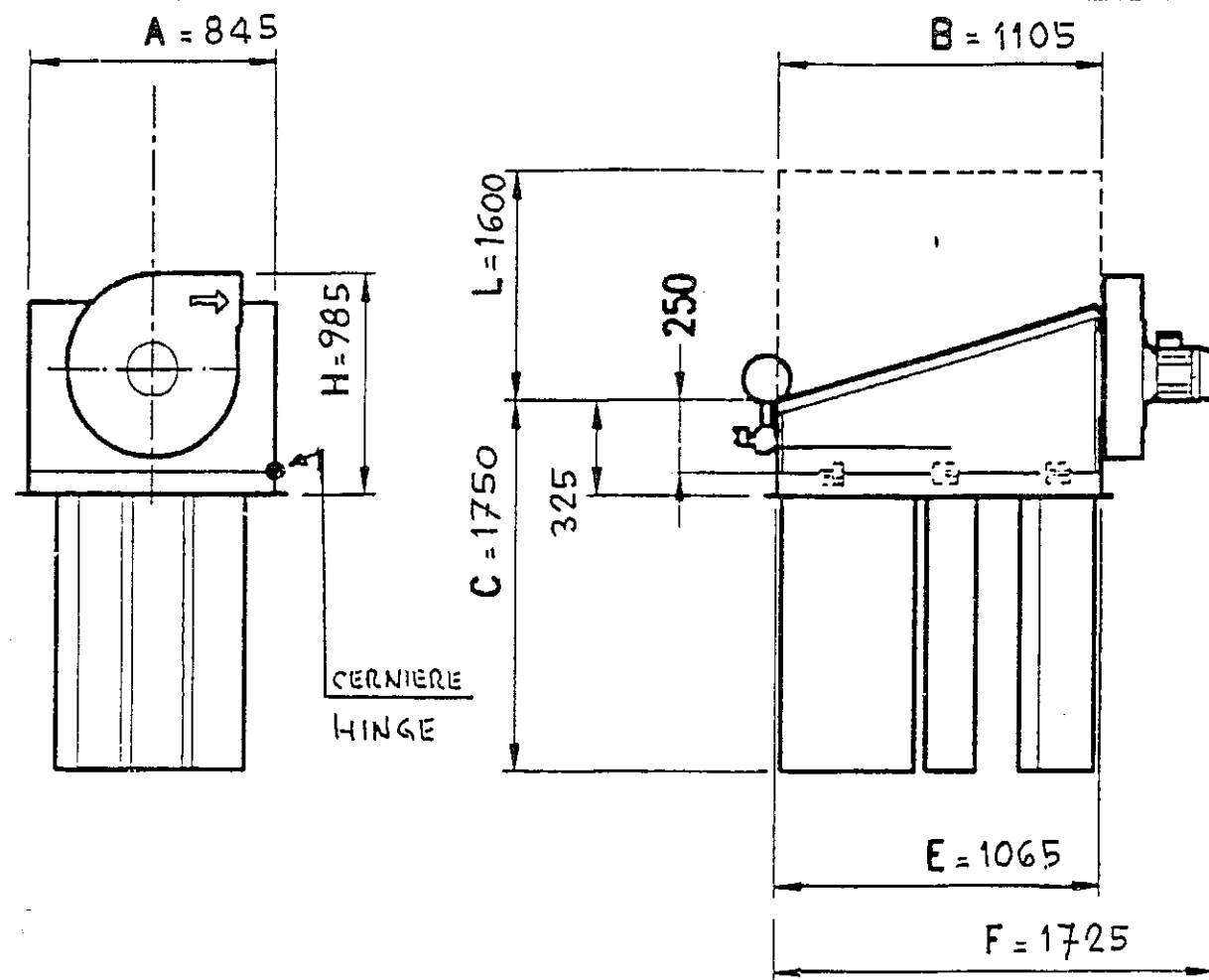
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Gru a canguro
 FILTRO PER IMP. DEPOLVERAZ.
 Kangaro crane
 FILTER FOR DEDUSTING EQ. NT

COMESSE ORDERS	S.1085	Ricavato da / Taken from:
		465668 IA
		1

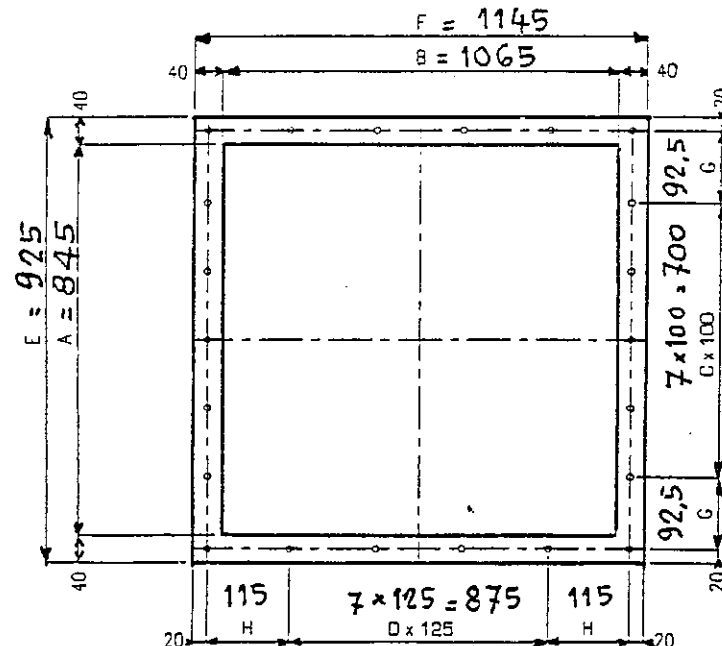


TECHNICAL CHARACTERISTICS

TYPE : WAM - FITN 28 + ASP - RIGHT HAND
 FILTER SURFACE 28 m²
 MOTOR 4 kW - 380 V - 60 Hz - 3 PH - 3468 r.p.m.
 TECHNIC. SPEC. : CT. I. 350.01/Co. S. 1085

FILTRO
DESTRO

RIGHT
FILTER



No. 3 PEZZI PER TRAMOGGIA
 NR. 3 PIECES FOR HOPPER

TECHNIPETROL SpA		APPROVAL OF THIS DRAWING IS RESTRICTED TO THE GENERAL CHARACTERISTICS OF THE DESIGN AND TO PRINCIPAL DIMENSIONS ONLY. CORRECTIONS, IF ANY, SHALL BE NOTED THEREON OR IN A TECHNIPETROL APPROVAL LETTER. WITH THIS APPROVAL TECHNIPETROL DOES NOT ASSUME ANY RESPONSIBILITY NEITHER FOR THE CORRECTNESS OF THE DESIGN AND THE CONSTRUCTION NOR FOR THE PERFORMANCE OF THE EQUIPMENT AND ITS SAFETY IN ACCORDANCE WITH THE REQUIREMENT OF THE ORDER	
PROJ.: SUGAR REFINERY	CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA	APPROVED	
MATERIAL REQUISITION No.	2551 MR	APPROVED AS NOTED	
ITEM		NOT APPROVED	
		FINAL DRAWING	
		APPROVAL SECTION BY DATE	
		RD Dwg. CODE:	

WEIGHT : 300 Kg

REV. ISSUE	VARIAZIONI / MODIFICATIONS	SIGLE SIGN.	DATA DATE	DATA R FIRMA DATE SIGN.	DISegnATO DRAWN BY	SCALE
E					SPM	
J					CONTROLLATO CONTROLLED	
C						
B					VISTO APPROVED	DATA DATE
A	Aggiorn. giri motore	KKK				30.9.



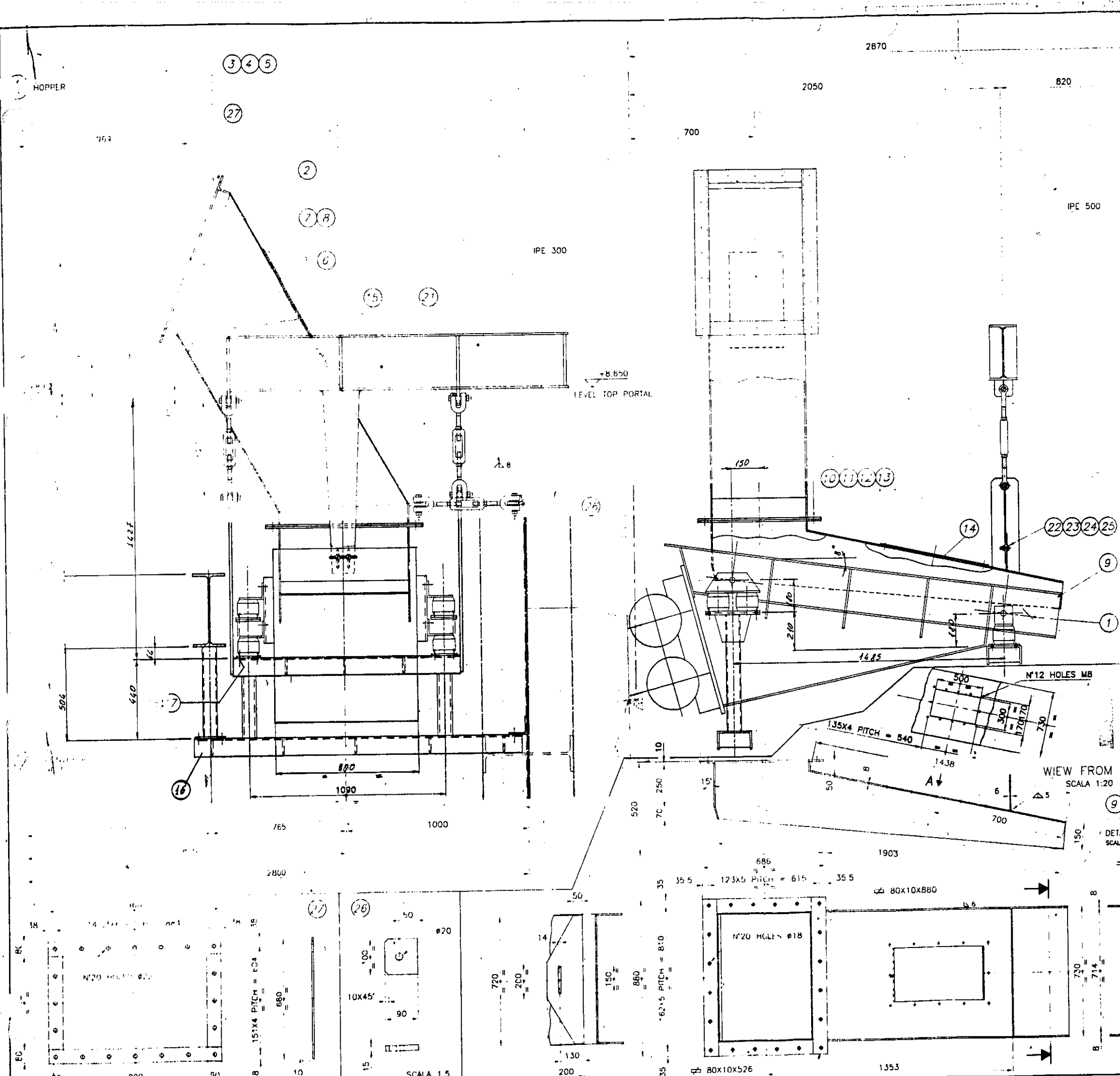
Ceretti impianti
di sollevamento
Tanfani e trasporto

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Gru a cingolo	COMESSE		Ricavato da / Taken from:
FILTRO PER IMP. DEPOLVERAZ.	ORDERS	\$ 1085	
Rangaro crane			465667
FILTER FOR DEDUSTING EQ. NT			1



29								
28								
27		FLANGE	1		RUBBER	3		
26		5 100X15X90	1		Fe 430B	1		
25	Galvanized	NUT M12	2	5588	ZINC. 6S			
24	"	SPRING WASHER A13	2	1751	ZINC. C72			0,1
23	"	PLAIN WASHER Ø13XØ24	2	6593	ZINC. STEEL			
22	Galvanized	SCREW M12X40	2	5737	ZINC. 8G			
21	Galvanized	TURNBUCKLE	3	JAW 7/8"	STEEL	10		
20								
19								
18	Galvanized	SPRING WASHER A17	4	1751	ZINC. C72			0,2
17	Galvanized	SCREW M16X30	4	5712	ZINC. 10K			
16	403592	FRAME	1					173
15	423724	BEAM CANTILEVER	1	DETAIL F				124
14	423724	COVER	1	DETAIL C				15
13	Galvanized	NUT M16	24	5588	ZINC. 6S			
12	"	SPRING WASHER A17	24	1751	ZINC. C72			3,7
11	"	PLAIN WASHER Ø17XØ30	24	6593	ZINC. STEEL			
10	Galvanized	SCREW M16X50	24	5737	ZINC. 8G			
9		CHANNEL	1		Fe 430B	168		
8	Galvanized	SPRING WASHER AB.4	24	1751	ZINC. C72			0,5
7	Galvanized	SCREW MBX25	24	5737	ZINC. 8G			
6	423724	COVER	1	DETAIL B				18
5	Galvanized	NUT M20	28	5713	ZINC. 8G			
4	"	PLAIN WASHER Ø21XØ37	56	5714	ZINC. C50 bon.			8,5
3	Galvanized	SCREW M20X50	28	5712	ZINC. 10K			
2	423724	WELDED TUBE	1	DETAIL A				285
1	403593	VIBRATING FEEDER	1		VIMEC Bis. 12354/SB	550		
ITEM	DESCRIPTION	QUANTITY	UNIT	RULES	MATERIAL	WEIGHT		

NOTE: For construction see also dwg

For low strength bolts, the specification of the bolt is given in the table below.

The following table gives the specification of the bolt.

BOLTS		[PAS 5102-06/C]	
Standard	Specification	Unit	Value
Material	See spec.	CTE	5102-03
Grade	See spec.	CTE	100.01
Head	See spec.	CTE	130.01
Thread	See spec.	CTE	110.02
Length	See spec.	CTE	120.01
Head	See spec.	CTE	140.01
Head	See spec.	CTE	150.01
Head	See spec.	CTE	160.01
Head	See spec.	CTE	170.01
Head	See spec.	CTE	180.01
Head	See spec.	CTE	190.01
Head	See spec.	CTE	200.01
Head	See spec.	CTE	210.01
Head	See spec.	CTE	220.01
Head	See spec.	CTE	230.01
Head	See spec.	CTE	240.01
Head	See spec.	CTE	250.01
Head	See spec.	CTE	260.01
Head	See spec.	CTE	270.01
Head	See spec.	CTE	280.01
Head	See spec.	CTE	290.01
Head	See spec.	CTE	300.01
Head	See spec.	CTE	310.01
Head	See spec.	CTE	320.01
Head	See spec.	CTE	330.01
Head	See spec.	CTE	340.01
Head	See spec.	CTE	350.01
Head	See spec.	CTE	360.01
Head	See spec.	CTE	370.01
Head	See spec.	CTE	380.01
Head	See spec.	CTE	390.01
Head	See spec.	CTE	400.01
Head	See spec.	CTE	410.01
Head	See spec.	CTE	420.01
Head	See spec.	CTE	430.01
Head	See spec.	CTE	440.01
Head	See spec.	CTE	450.01
Head	See spec.	CTE	460.01
Head	See spec.	CTE	470.01
Head	See spec.	CTE	480.01
Head	See spec.	CTE	490.01
Head	See spec.	CTE	500.01
Head	See spec.	CTE	510.01
Head	See spec.	CTE	520.01
Head	See spec.	CTE	530.01
Head	See spec.	CTE	540.01
Head	See spec.	CTE	550.01
Head	See spec.	CTE	560.01
Head	See spec.	CTE	570.01
Head	See spec.	CTE	580.01
Head	See spec.	CTE	590.01
Head	See spec.	CTE	600.01
Head	See spec.	CTE	610.01
Head	See spec.	CTE	620.01
Head	See spec.	CTE	630.01
Head	See spec.	CTE	640.01
Head	See spec.	CTE	650.01
Head	See spec.	CTE	660.01
Head	See spec.	CTE	670.01
Head	See spec.	CTE	680.01
Head	See spec.	CTE	690.01
Head	See spec.	CTE	700.01
Head	See spec.	CTE	710.01
Head	See spec.	CTE	720.01
Head	See spec.	CTE	730.01
Head	See spec.	CTE	740.01
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Head	See spec.	CTE	760.01
Head	See spec.	CTE	770.01
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Head	See spec.	CTE	800.01
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Head	See spec.	CTE	830.01
Head	See spec.	CTE	840.01
Head	See spec.	CTE	850.01
Head	See spec.	CTE	860.01
Head	See spec.	CTE	870.01
Head	See spec.	CTE	880.01
Head	See spec.	CTE	890.01
Head	See spec.	CTE	900.01
Head	See spec.	CTE	910.01
Head	See spec.	CTE	920.01
Head	See spec.	CTE	930.01
Head	See spec.	CTE	940.01
Head	See spec.	CTE	950.01
Head	See spec.	CTE	960.01
Head	See spec.	CTE	970.01
Head	See spec.	CTE	980.01
Head	See spec.	CTE	990.01
Head	See spec.	CTE	1000.01

For the execution of bolts see standard CTE 5204. The bolts in material 10.9 should be tightened by means of a dynamometric wrench with the following tightening moments

GALVANIZED BOLTS	
M16	210 Nm
M20	260 Nm
M24	1030 Nm
M27	1400 Nm

Unless different instructions are given all the plates are to be welded with fillet

Unless different instructions are given all pieces are to be welded with fillet

The length of the structural steel and the plates dimensions which are shown in the tables are approximate and they should be determined through marking

STEEL STRUCTURE WEIGHT	1297	Kg
BOLTS WEIGHT	13	Kg
WELDINGS WEIGHT	15	Kg
TOTAL WEIGHT	1325	Kg

[illegible]

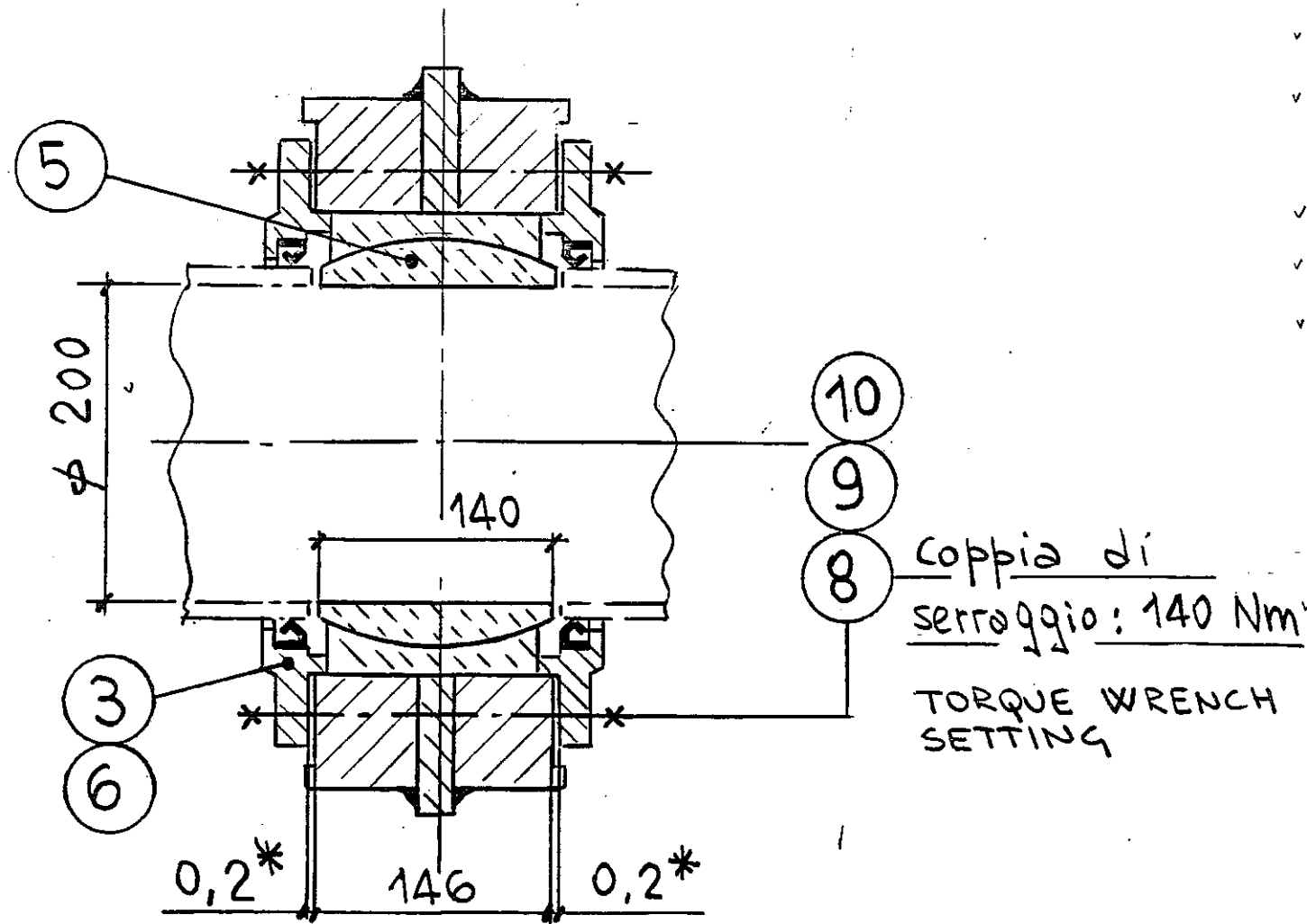
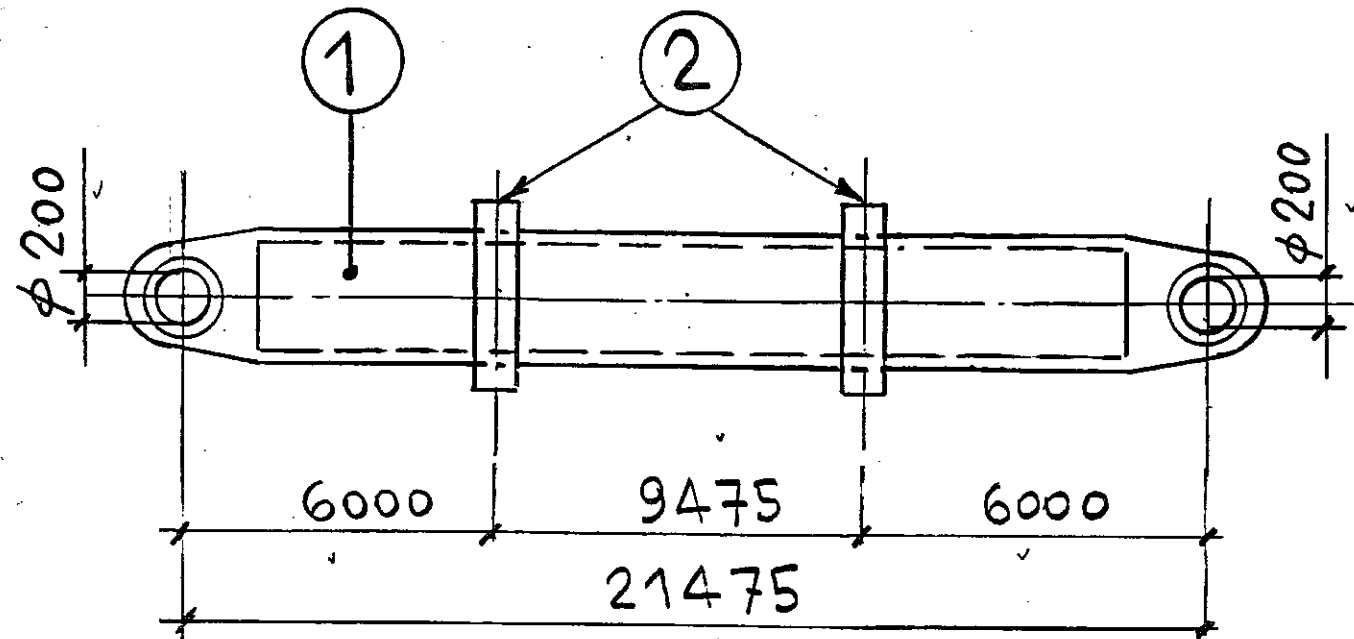
		RD Dwg CODE						
IN CASE OF QUOTE		NON TOLERATE (mm)			IN CASE TOLERANCE LACK UNI ISO 2768/1			
Sopra/ From	a	> 6	> 30	> 120	> 400	> 1000	> 2000	> 4000
Infra/ To	b	30	120	400	1000	2000	4000	
Max / Max	+ 0.1	+ 0.2	+ 0.3	+ 0.5	+ 0.8	+ 1.2	+ 2	+ 3
Min / Min	+ 0.3	+ 0.5	+ 0.8	+ 1.2	+ 2	+ 3	+ 4	+ 5

DATE F D C H	VARIA/IGN/MODIFICATIONS	SOLE SIGN	DATA DATE	DATA DATE	R SIGN	DISCREPANCY SCALE BY SPM 1:1 CONTROLLED GR 1:5 VETO APPROVED DATA DATE
--------------------------	-------------------------	--------------	--------------	--------------	-----------	--

[illegible]

* NB: CONTROLLARE CHE AL MONTAGGIO RIMANGA UN'ARIA TRA I MOZZI E I COPERCHIETTI STESSI DI 0,2 mm. SU CIASCUN LATO. SIGILLARE CON GUARNIZIONE PLASTICA PIK.

CONTROL THAT AT ASSEMBLY THERE IS A SPACE OF 0,2 mm BETWEEN HUBS AND COVERS ON EACH SIDE SEAL WITH PLASTIC GASKET PIK



TECHNIPETROL SpA		APPROVAL OF THIS DRAWING IS RESTRICTED TO THE GENERAL CHARACTERISTICS OF THE DESIGN AND TO PRINCIPAL DIMENSIONS ONLY. CORRECTIONS, IF ANY, SHALL BE NOTED THEREON OR IN A TECHNIPETROL APPROVAL LETTER. WITH THIS APPROVAL TECHNIPETROL DOES NOT ASSUME ANY RESPONSIBILITY NEITHER FOR THE CORRECTNESS OF THE DESIGN AND THE CONSTRUCTION NOR FOR THE PERFORMANCE OF THE EQUIPMENT AND ITS SAFETY IN ACCORDANCE WITH THE REQUIREMENT OF THE ORDER.	
PROJ.: SUGAR REFINERY		APPROVED	
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA		APPROVED AS NOTED	
MATERIAL REQUISITION No.		NOT APPROVED	
2551 MR 1,2,2,1,0,1		FINAL DRAWING	
ITEM 11 H 03 A/B		APPROVAL SECTION BY DATE	
		RD Dwg. CODE: ST250	

Kg 2160

10	galvanized	Wascher 17	20	6592	R 80	
9	" "	Nut Nylstop	20	N/70	/416 M	
8	galvanized	Screw M16x200	20	5737	8.8	6,5
7						
6		Ring MIM 220250	4		220/250/15	
5	SKF	Bearing	2		GEP200 FS	67
4						
3	465568	Cover	4			28
2	443424	Ropes protection	2			106
1	423592-A	Jib Tie	1			1950

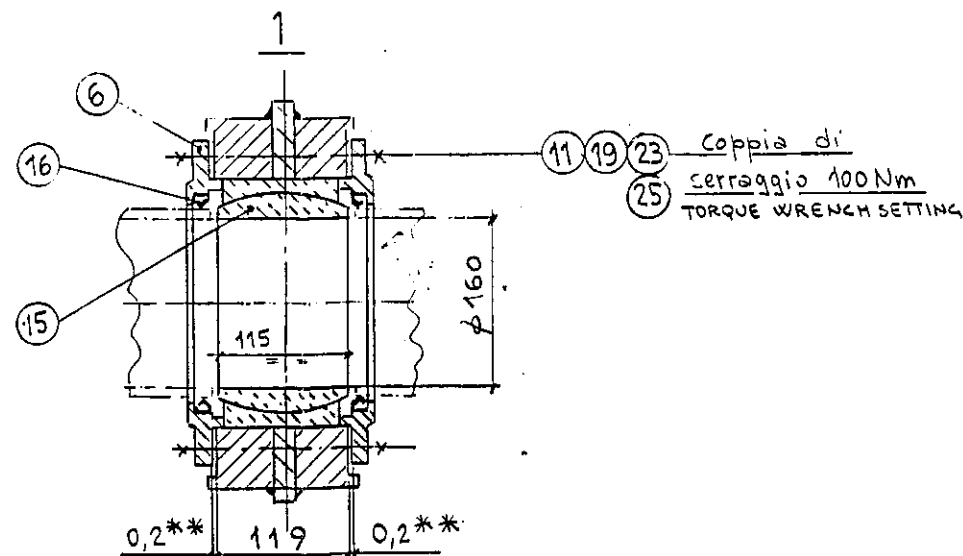
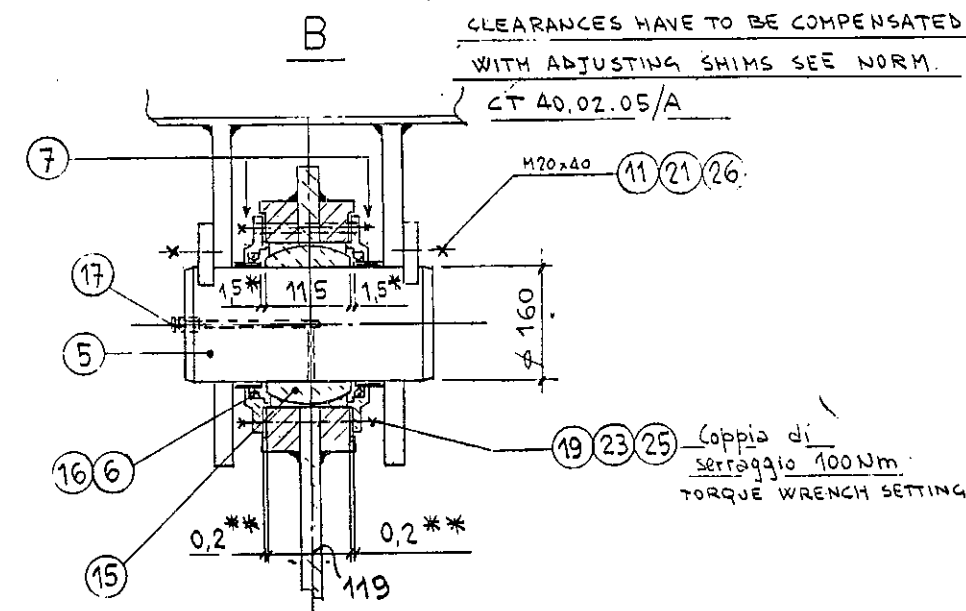
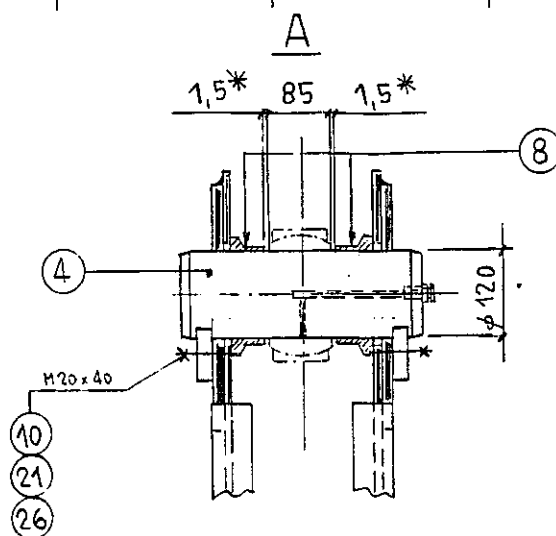
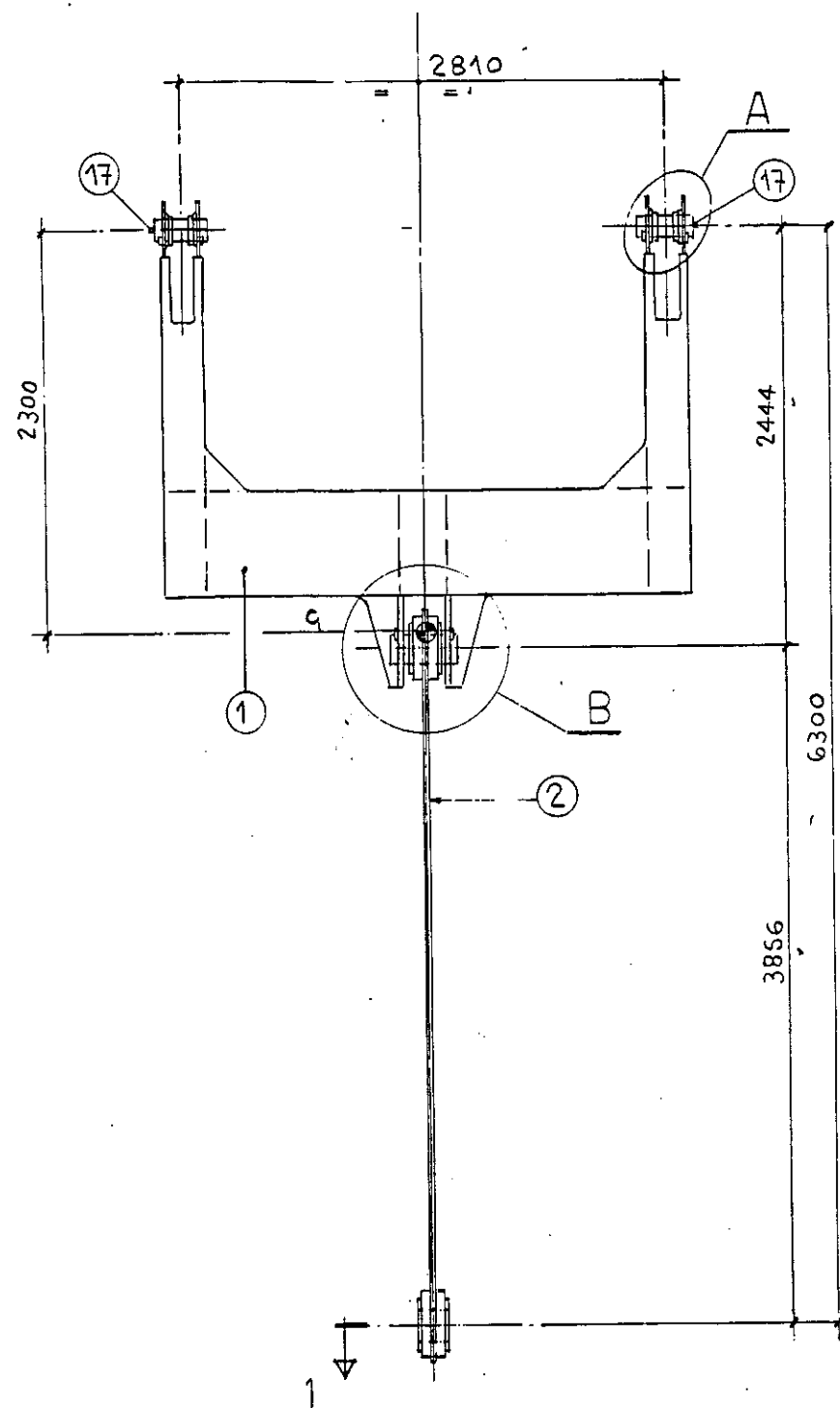
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV. E	VARIAZIONI / MODIFICATIONS		SIGLE SIGN.	DATA DATE	DATA DATE	R FIRMA SIGN.
D						
C						
B						
A	Modif. esp. pos. 1					

cl Ceretti impianti
di sollevamento
Tanfani e trasporto
20020 Ceriano Laghetto (MI) Via Milano 10/12 ITALIA

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Tirante	CONNESSE ORDERS	Ricavato da / Taken from:	
INSIEME			
JIB TIE			
ASSEMBLY		5.1085	4655691A
			1



18. AL MONTAGGIO DELLE PIASTRINE POS. 10-11
GLI EVENTUALI GIOCHI DOVRANNO ESSERE
COMPENSATI CON SPESSORI DI REGOLAZIONE
VEDERE NORMA CT 40.02.05/A
- AT PLATES ASSEMBLY ITEM 10-11 THE POSSIBLE
CLEARANCES HAVE TO BE COMPENSATED
WITH ADJUSTING SHIMS SEE NORM.
CT 40.02.05/A

1,5* - DA RISPETTARE IN OFFICINA E MONTAGGIO
- TO BE RESPECTED IN WORKSHOP AND DURING ASSEMBLY

0,2** - CONTROLLARE CHE AL MONTAGGIO RIMANGA UN'ARIA
TRA I MOZZI E I COPERCHIETTI STESSI 0,2 mm SU
CIASCUN LATO. SIGILLARE CON GUARNIZIONE PLASTICA PIK.
- CONTROL THAT AT ASSEMBLY THERE IS A SPACE OF 0,2 mm
BETWEEN HUBS AND COVERS ON EACH SIDE.
SEAL WITH PLASTIC GASKET PIK.

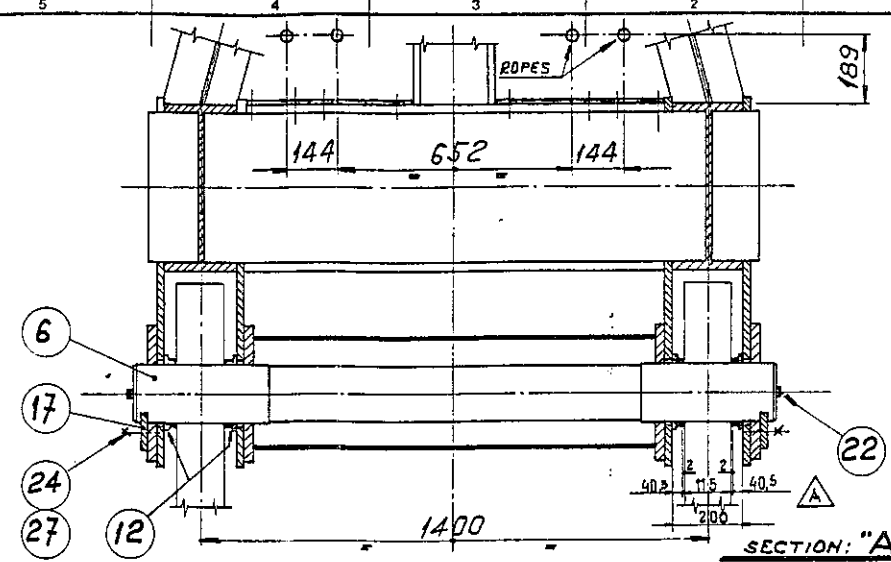
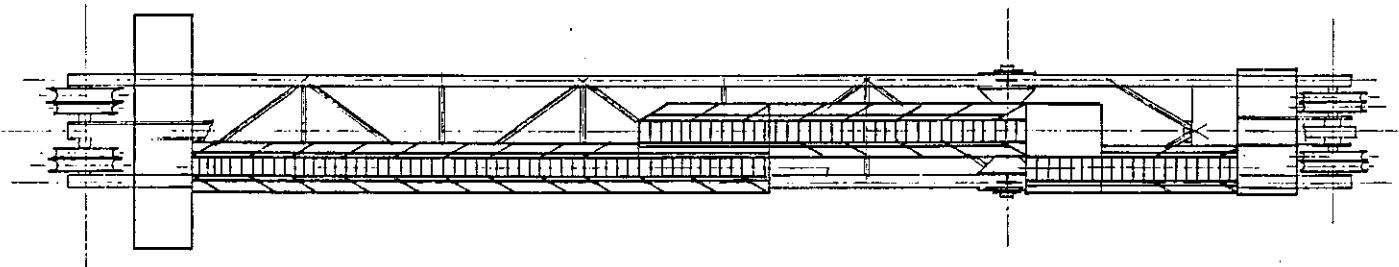
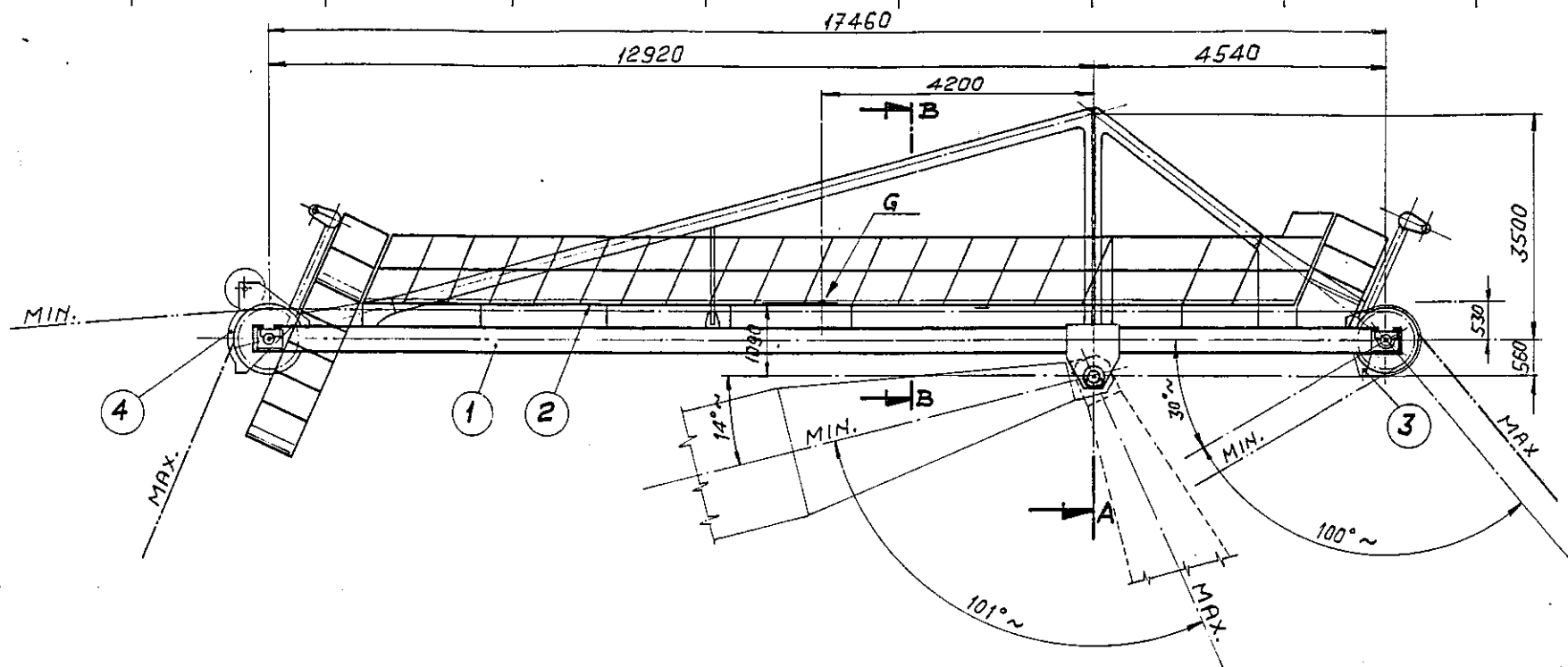
30					
29					
28					
27					
26	Galvanized	Wascher 21	12	1751	CT2
25	"	Wascher 17	16	6592	R80
24					
23	"	Nut Nylstop	16	N70/116M	
22					
21	"	Screw M 20x40	12	5739	8.8
20					
19	Galvanized	Screw M16x180	16	5737	8.8
18					
17		Lubricator B 1/4" GAS	3	7662	
16		Ring MIM 175 200	4	175/200/15	
15	S.K.F	Bearing GEP 160 FS	2		33
14					
13					
12					
11	0.141.15.000	Plate	2		5
10	0.141.11.000	Plate	4		6,5
9					
8	486427	Spacer	4		4,8
7	486426	Spacer	2		3
6	465604	Cover	4		24
5	486425	Pin ϕ 160	1		53
4	486424	Pin ϕ 120	2		57
3					
2	443425	Steelstructure	1		386
1	423595	Steelstructure	1		986

TECHNIPETROL SpA	
PROJ: BUDAR REFINERY	
CLINT: UNITED BUDAR CO. - JEDDAH - S. ARABIA	
MATERIAL REQUISITION NO.	
2851 MR 1.2.2.1.0.1	
ITEM 11-H-03 AB	
RD Dwg CODE: 51250	
APPROVED AS NOTED	
NOT APPROVED	
FINAL DRAWING	
APPROVAL	
DATE 31/10/9	

POS	DISEGNO	DENOMINAZIONE	PEZZI	UNI	MATERIALE	PESO
ITEM	DRAWING	DENOMINATION	QUANT.	RULES	MATERIAL	WEIGH
REV.	VARIAZIONI / MODIFICAZIONI					
1						
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30						

Ceretti impianti di sollevamento e trasporto	
20020 Capriano Ligure (IM) Via Milano 10/12 ITALIA	
Biella	
INSIEME	
CONNECTING ROD ASSEMBLY	
S.1085	
423596	
Ricevuto da / Taken from:	
CIT. 11	

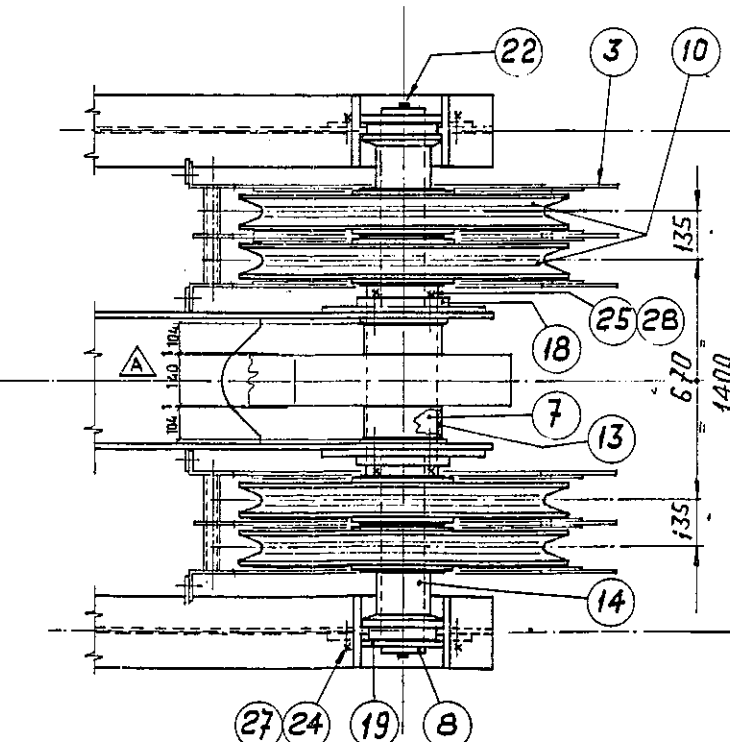
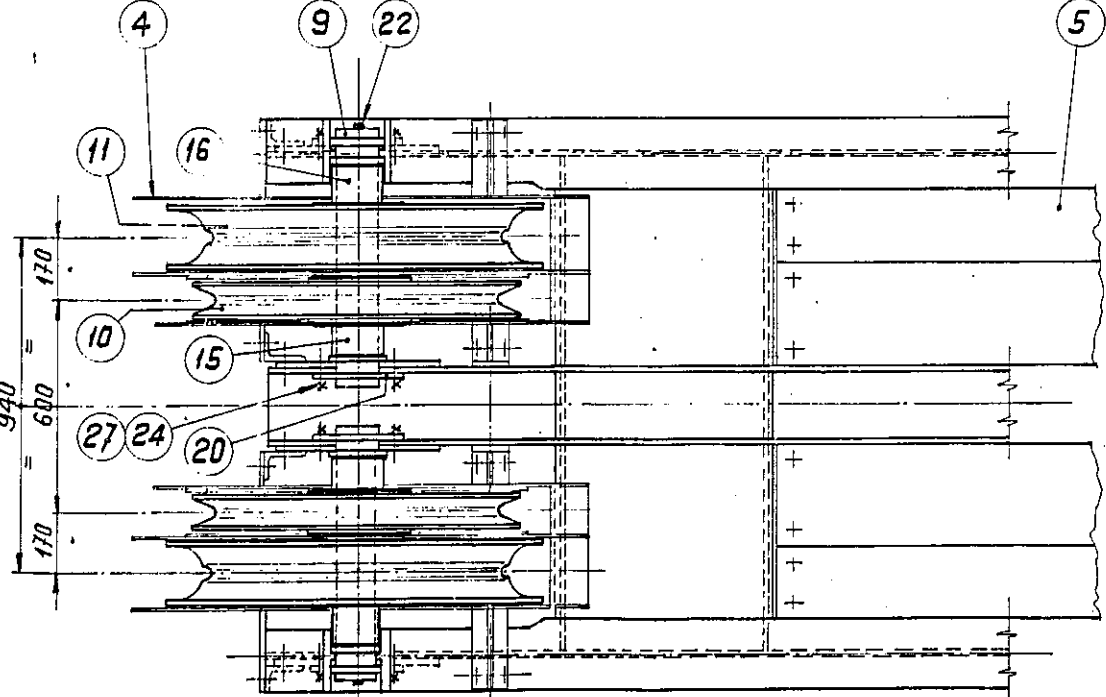
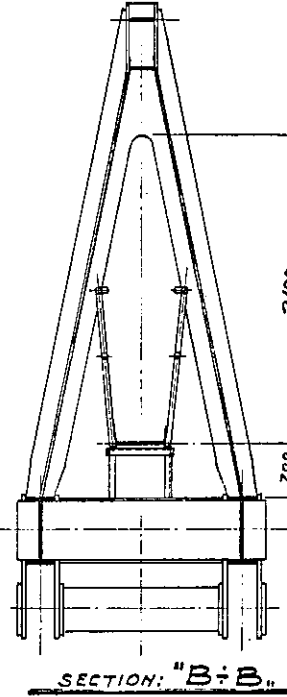
ORIGINALE



NOTE - NOTES

- 1- AL MONTAGGIO IN OFFICINA INGERARE TUTTI I PERNI CON "LOCTITE ANTIGRIPIANTE".
AT ERECTION IN WORKSHOP GREASE THE PINS WITH "LOCTITE ANTISEIZE" PASTE.
- 2- AL MONTAGGIO DELLE PIASTRINE POS. 17-18-19-20 GLI EVENTUALI GIOCHI
DOVRANNO ESSERE COMPENSATI CON SPESSORI DI REGOLAZIONE VEDERE
NORMA CT 40.02.05/A.
AT PLATES ASSEMBLY ITEM 17-18-19-20 POSSIBLE CLEARANCES HAVE TO BE COMPENSATED
WITH ADJUSTING SHIMS SEE NORM CT 40.02.05/A.

ITEM	DESCRIPTION	QTY	UNIT	MATERIAL	WEIGHT
29	GALVAN.	WASHER A 25	4	1751	C 72
28	GALVAN.	WASHER A 21	26	1751	C 72
27	GALVAN.	WASHER A 21	26	1751	C 72
26	GALVAN.	SCREW M24x50	4	5739	8.8
25	GALVAN.	SCREW M20x40	26	5739	8.8
24	GALVAN.	SCREW M20x40	26	5739	8.8
23	GALVAN.	SCREW M20x40	26	5739	8.8
22	LUBRICATOR	1/4" GAS	6		
21	465625	PLATE	4	EN10025	Fe 430 C
20	465624	"	2	"	"
19	0.141.19.000	"	2	"	"
18	0.141.15.000	PLATE	2	EN10025	Fe 430 C
17	465621	SPACER	2	EN10025	Fe 360 B
16	465620	"	2	"	"
15	465619	"	2	"	"
14	465618	"	2	"	"
13	465617	SPACER	4	EN10025	Fe 360 B
12	465616	SHEAVE	2		496
11	465615	SHEAVE	6		750
10	465614	PIN	2	7845-78	39H:CrMo3(TF)
9	465613	PIN	2	"	"
8	465612	PIN	1	"	"
7	465611	PIN	1	"	"
6	465610	PIN	1	7845-78	39H:CrMo3(TF)
5	423640	PROTECTION FOR ROPES	1		282
4	423646	ANTI-JUMPING PROTECTION	1		682
3	423650	ANTI-JUMPING PROTECTION	1		400
2	443445	LADDER	1		1300
1	407933	JIB LEVER	1		6880
POS. DISegno	DENOMINAZIONE	PEZZI	UNI	MATERIALE	PESO
ITEM DRAWING	DENOMINATION	QTY	RULES	MATERIAL	WEIGHT



TECHNIPETROL S.p.A.

UNITED SUGAR CO. - JEDDAH - S. ARABIA

12.21.01

71-H-03 A/3

APPROVED AS NOTED

NOT APPROVED

FINAL DRAWING

APPROVAL

DATE

PD Dwg CODE

Agg. quota

Ceretti

Tanfani

BRACCETTO JIB LEVER

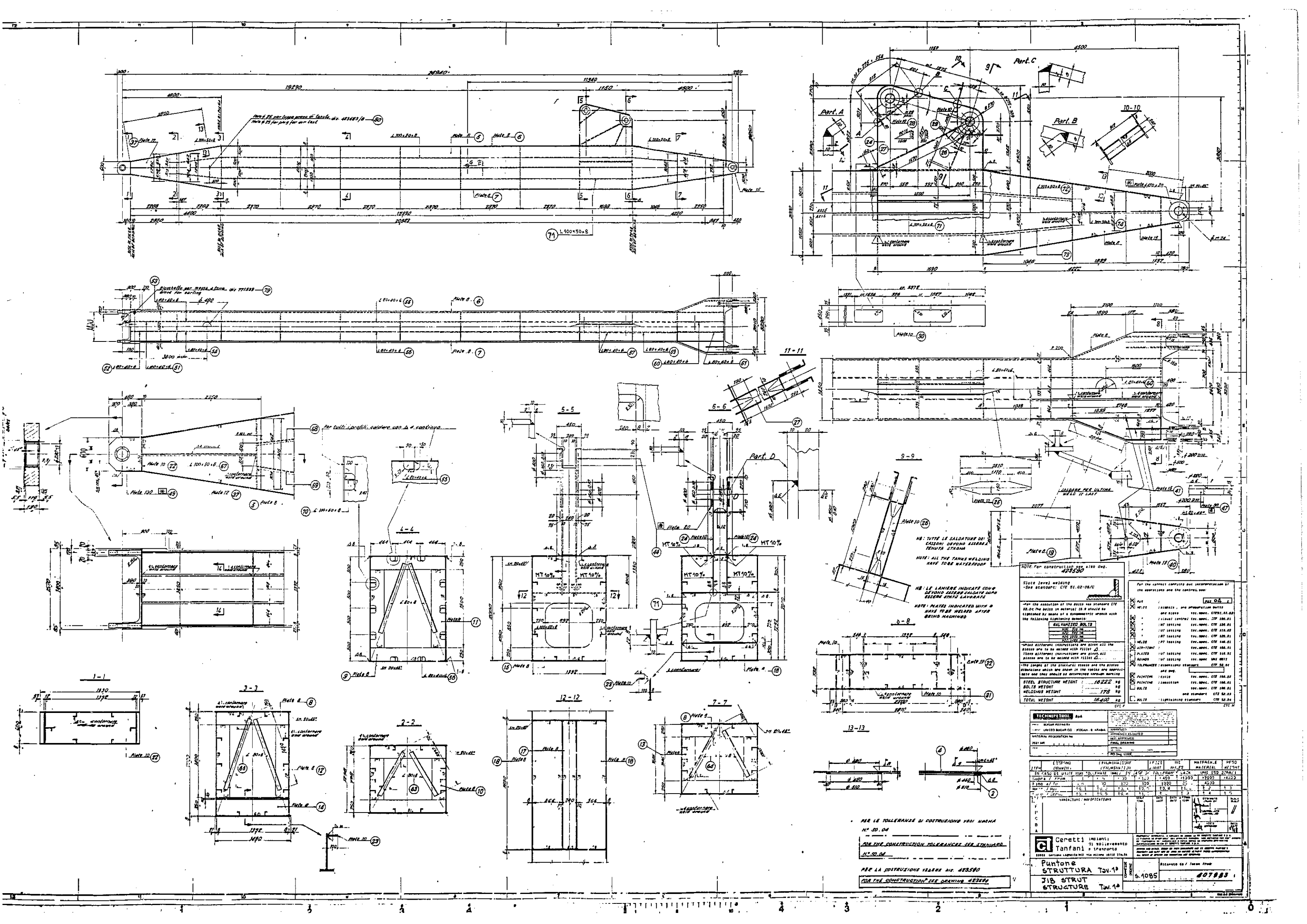
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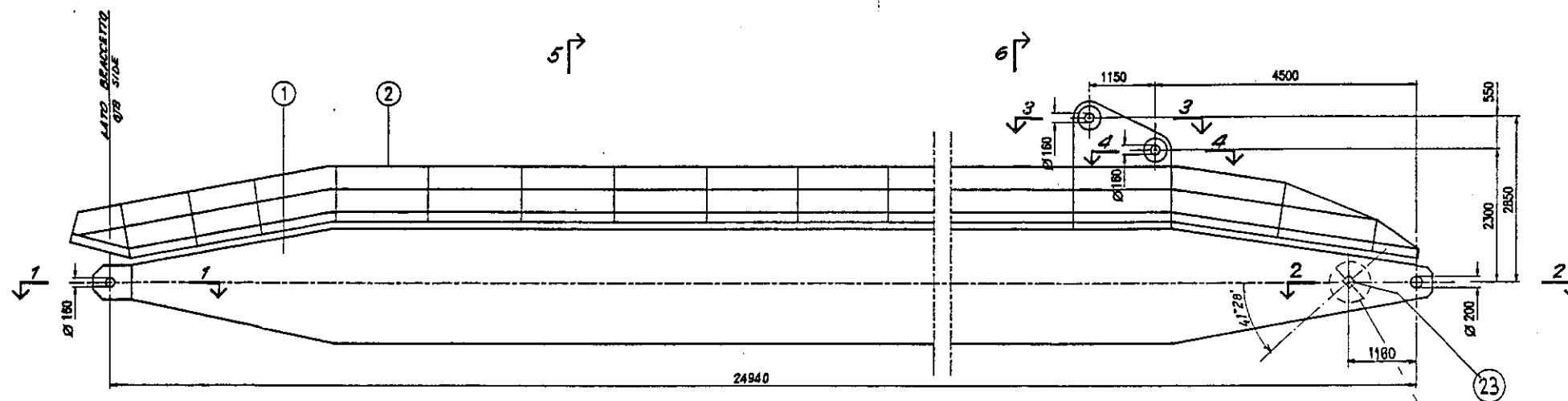
5.1085

423584/A

PESO TOTALE Kg. 11450

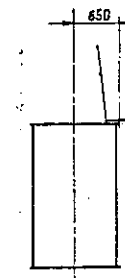
TOTAL WEIGHT Kg. 11450





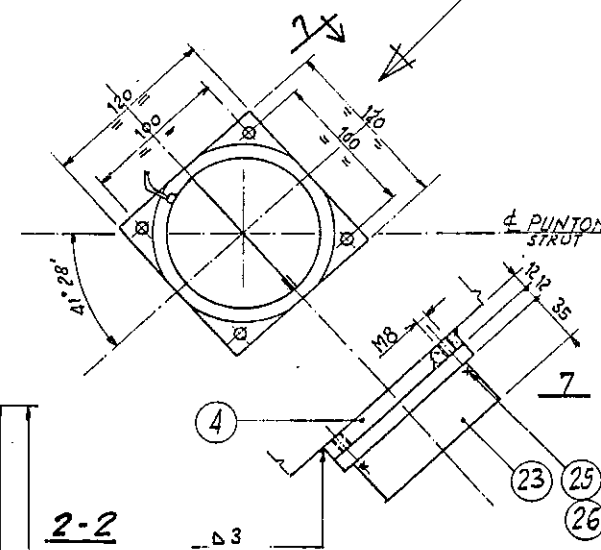
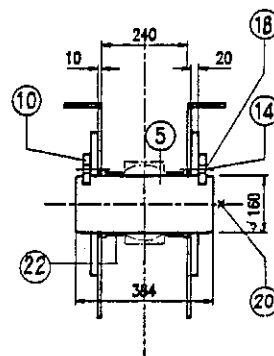
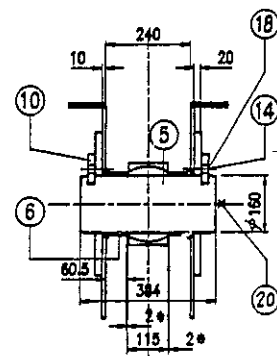
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6-6



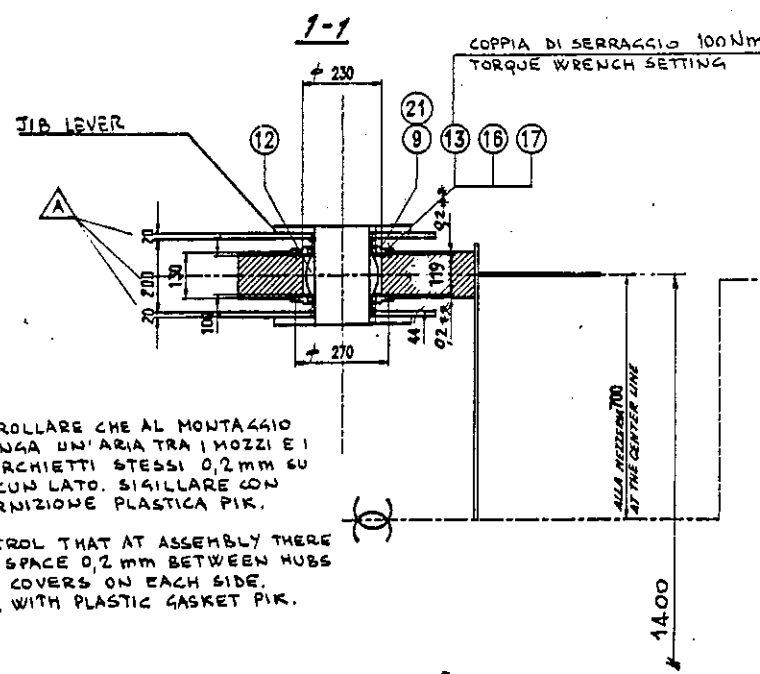
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4-4



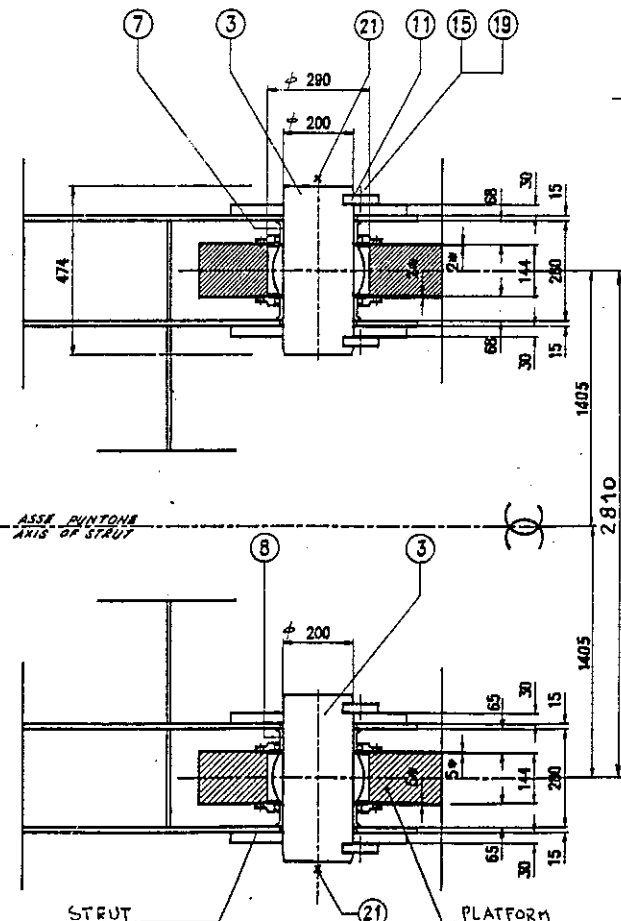
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CONTORNARE



0,2** CONTROLLARE CHE AL MONTAGGIO RIMANGA UN'ARIA TRA I MOZZI E I COPERCHIETTI STESSI 0,2mm SU CIASCUN LATO. SIGILLARE CON GUARNIZIONE PLASTICA PIK.

CONTROL THAT AT ASSEMBLY THERE IS A SPACE 0,2mm BETWEEN HUBS AND COVERS ON EACH SIDE. SEAL WITH PLASTIC GASKET PIK.



NB: 5% - 2% DA RISPETTARE IN OFFICINA E MONTAGGIO
NOTE: 5% - 2% TO BE RESPECTED IN WORKSHOP AND DURING ASSEMBLY

NB: AL MONTAGGIO DELLE PIASTRINE (POS. 10-11) GLI EVENTUALI GIOCHI DOVRANNO ESSERE COMPENSATI CON SPessori DI REGOLAZIONE. VEDERE NORMA CT 40.02.05/A
NOTE: AT ASSEMBLY ITEM 7 THE POSSIBLE CLEARANCES HAVE TO BE COMPENSATED WITH ADJUSTING SHIMS SEE NORM CT 40.02.05/A

Total weight 17770kg

POS	ITEM	DESCRIPTION	QUANT	UNIT	MATERIAL	WEIGHT
27						
26		WASHER A 8,4	4	1751	INOX	
25		SCREW M8x25	4	5739	INOX	
24						
23	486792	INCLINOMETER	1			
22	465962	SPACER	2	EN10025	Fe 360B	2,5
21		RING MIN 175 200	4			
20		LUBRICATOR B 1/8" GHS	4	7662		
19		WASHERS A26	8	1751	C72	1,5
18		WASHERS A21	8	1751	C72	
17		GALVANIZED WASHERS A17	16	1751	C72	
16		NUTS NYLSTOP N70/116M	16	55	70 R-80+35	1,2
15		SCREWS M24 x 30	8	5739	8.8	2,2
14		SCREWS M20 x 40	8	5739	8.8	1,3
13		SCREWS M16 x 175	16	5737	8.8	9,5
12	SKF	BEARING GEP 160 FS	2			33,2
11	0.141.15.000	STOP PLATE	4	EN10025	Fe 360 B	9,4
10	0.141.19.000	STOP PLATE	4	EN10025	Fe 360 B	16,4
9	465599	COVER	4	EN10025	Fe 430 C	42,4
8	465598	SPACER	2	EN10025	Fe 35.1	8
7	465597	SPACER	2	EN10025	Fe 35.1	7,4
6	465596	SPACER	2	EN10025	Fe 35.1	2,5
5	465595	PIN	2	7845-78	38NiCrMo37F	120
4		PLATE 12x120x120	1	EN10025	Fe 430 B	1,3
3	465594	PIN	2	7845-78	38NiCrMo37F	232
2	407988	LADDER ON THE STRUT	1			880
1	407983	STRUT-STEELSTRUCTURE	1		A13590	16400

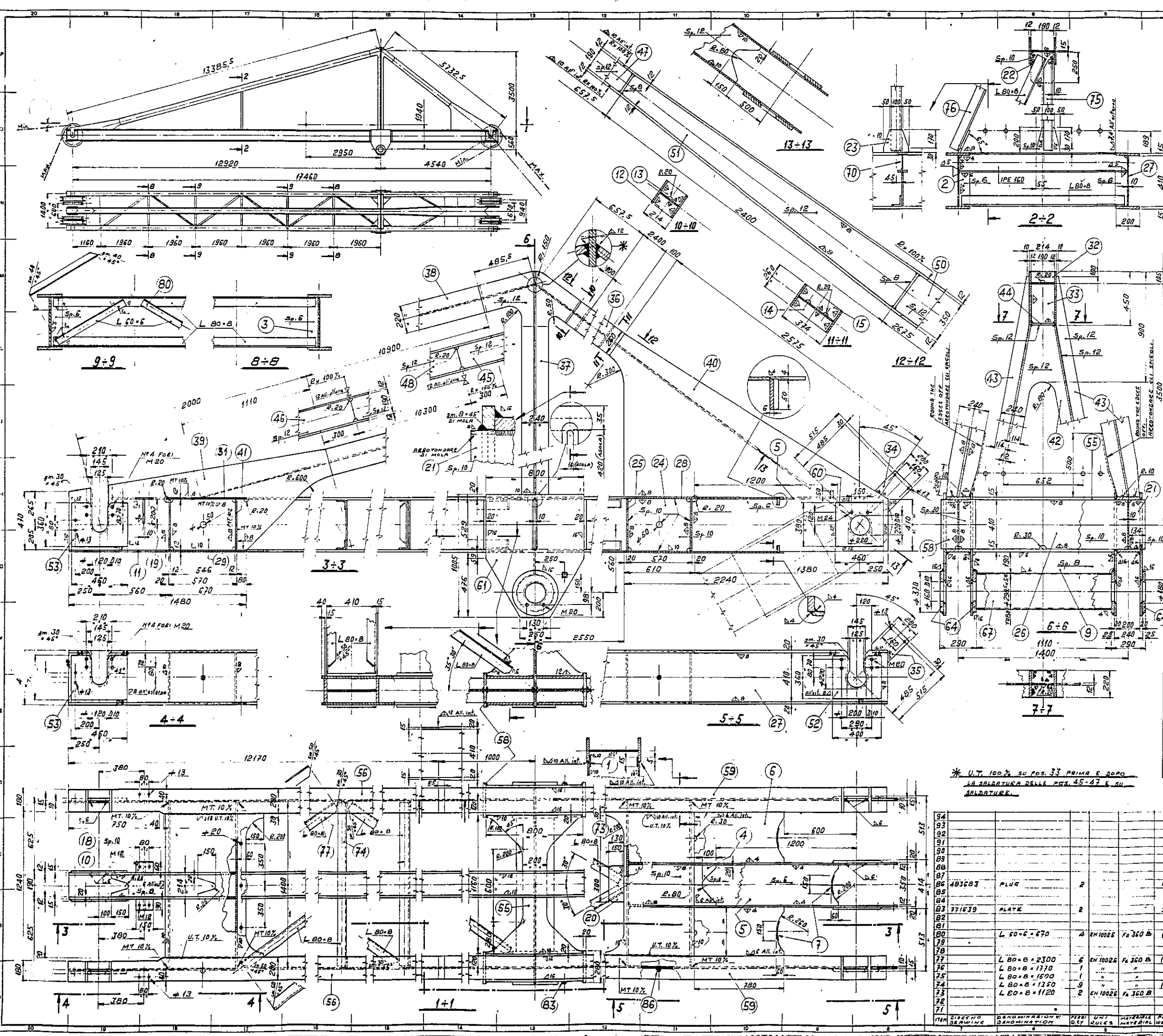
TECHNIPETROL S.p.A.		APPROVED	
CLIENT: SUGAR REFINERY		APPROVED AS NOTED	
CLIENT: UNITED SUGAR CO. - JEDDAH - S. ARABIA		NOT APPROVED	
MATERIAL REQUISITION NO.		FINAL DRAWING	
2551 MR 1.22.10.1		DATE: 31/10/95	
ITEM: 71-H-03 A/B		RO CODE: 51250	

POS	DISSEGNO	DECOMINAZIONE	PEZZI	UNIT	MATERIALE	PESSO
ITEM	DRAWING	DESCRIPTION	QUANT	RULES	MATERIAL	WEIGHT
REV.	DATE	DESCRIPTION	DATE	DATE	DATE	DATE
1						
2						
3						
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5						
6						
7						
8						
9						
10						
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19						
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22						
23						
24						
25						
26						
27						

Ceretti impianti
Tanfani e trasporto

PUNTO
STRUT
INSIEME PUNTO
STRUT-ASSEMBLY

5.1085
423591 C



70	IPE 160 - 1390	1	EN 10025	Fe 360 B	21
69					
68					
67	TUBO Ø 298,5 x 5,5 x 1110	1	EN 10025	Fe 360 B	43
66					
65	Lam. 25 x 370	4	EN 10025	Fe 360 B	69
64					
63					
62	Lam. 20 x 800 x 1005	4	EN 10025	Fe 430 C	401
61	" 20 x 380 x 460	2	"	"	45
60	" 20 x 200 x 5790	4	"	"	711
59					
58	Lam. 20 x 135 x 410	8	EN 10025	Fe 430 C	69
57					
56	Lam. 15 x 200 x 12170	4	EN 10025	Fe 430 C	1132
55	" 15 x 800 x 1150	2	"	"	64
54	" 15 x 550 x 1006	2	"	"	69
53	" 15 x 360 x 460	4	"	"	62
52	" 15 x 360 x 480	2	"	"	21
51	" 12 x 350 x 2430	1	"	"	61
50	" 12 x 350 x 1175	1	"	"	38
49					
48	" 12 x 180 x 10300	1	"	"	184
47	" 12 x 190 x 3043	1	"	"	54
46	" 12 x 190 x 1410	1	"	"	25
45	" 12 x 190 x 771	1	"	"	14
44	" 12 x 190 x 220	1	"	"	4
43	Lam. 12 x 94 x 3405	2	EN 10025	Fe 430 C	60
42	" 12 x 1384 x 2930	1	"	"	62
41	" 12 x 410 x 1390	2	"	"	106
40	Lam. 12 x 1840 x 2350	2	EN 10025	Fe 430 C	421
39	" 12 x 842 x 2210	2	"	"	193
38	" 12 x 220 x 10900	2	"	"	451
37	" 12 x 550 x 3885	2	"	"	186
36	" 12 x 260 x 2600	2	"	"	127
35	" 12 x 200 x 275	2	"	"	8
34	" 12 x 200 x 290	2	"	"	6
33	" 12 x 190 x 322	1	"	"	6
32	Lam. 12 x 97 x 130	1	EN 10025	Fe 430 C	2
31	" 12 x 820 x 1200	2	"	"	142
30					
29	Lam. 10 x 410 x 546	2	EN 10025	Fe 430 C	33
28	" 10 x 760 x 1200	2	"	"	118
27	" 10 x 410 x 17960	2	"	"	1140
26	" 10 x 410 x 1390	1	"	"	44
25	" 10 x 410 x 1390	2	"	"	88
24	" 10 x 410 x 550	2	"	"	34
23	" 10 x 200 x 200	2	"	"	5
22	" 10 x 190 x 250	1	"	"	4
21	" 10 x 135 x 410	2	"	"	8
20	" 10 x 130 x 300	2	"	"	6
19	" 10 x 90 x 200	2	"	"	3
18	Lam. 10 x 90 x 150	2	EN 10025	Fe 430 C	2
17					
16					
15	Lam. 8 x 102,5 x 350	1	EN 10025	Fe 430 C	2
14	" 8 x 102,5 x 350	1	"	"	2
13	" 8 x 102,5 x 190	1	"	"	1
12	" 8 x 102,5 x 190	1	"	"	1
11	" 8 x 190 x 810	1	"	"	9
10	" 8 x 190 x 480	1	"	"	5
9	Lam. 8 x 190 x 1160	1	EN 10025	Fe 430 C	13
8					
7	Lam. 6 x 50 x 150	5	EN 10025	Fe 430 C	2
6	Lam. 6 x 410 x 780	4	EN 10025	Fe 430 C	60
5	" 6 x 350 x 1800	1	"	"	19
4	" 6 x 350 x 180	1	"	"	7
3	" 6 x 95 x 410	2	"	"	15
2	" 6 x 95 x 265	2	"	"	2
1	Lam. 6 x 15 x 550	8	EN 10025	Fe 430 C	2
ITEM	DESCRIPTION	QUANTITY	UNIT	MATERIAL	WEIGHT
1	STEEL STRUCTURE				6812
2	BOLTS				680
3	WELDING				6800
4	TOTAL				14292

* U.T. 100% SU POS. 33 PRIMA E DOPO
LA SALDATURA DELLE POS. 45-47 E SU
SALDATURA.

For the purposes of this drawing, the following symbols and abbreviations are used:

NOTE FOR CONSTRUCTION AND ALSO FOR THE CONTRACTOR:

STEEL LEVEL WEIGHING
- New standard: CTE 51.00-04/05

FOR THE PURPOSES OF THE DRAWING, THE FOLLOWING CTE ARE USED:

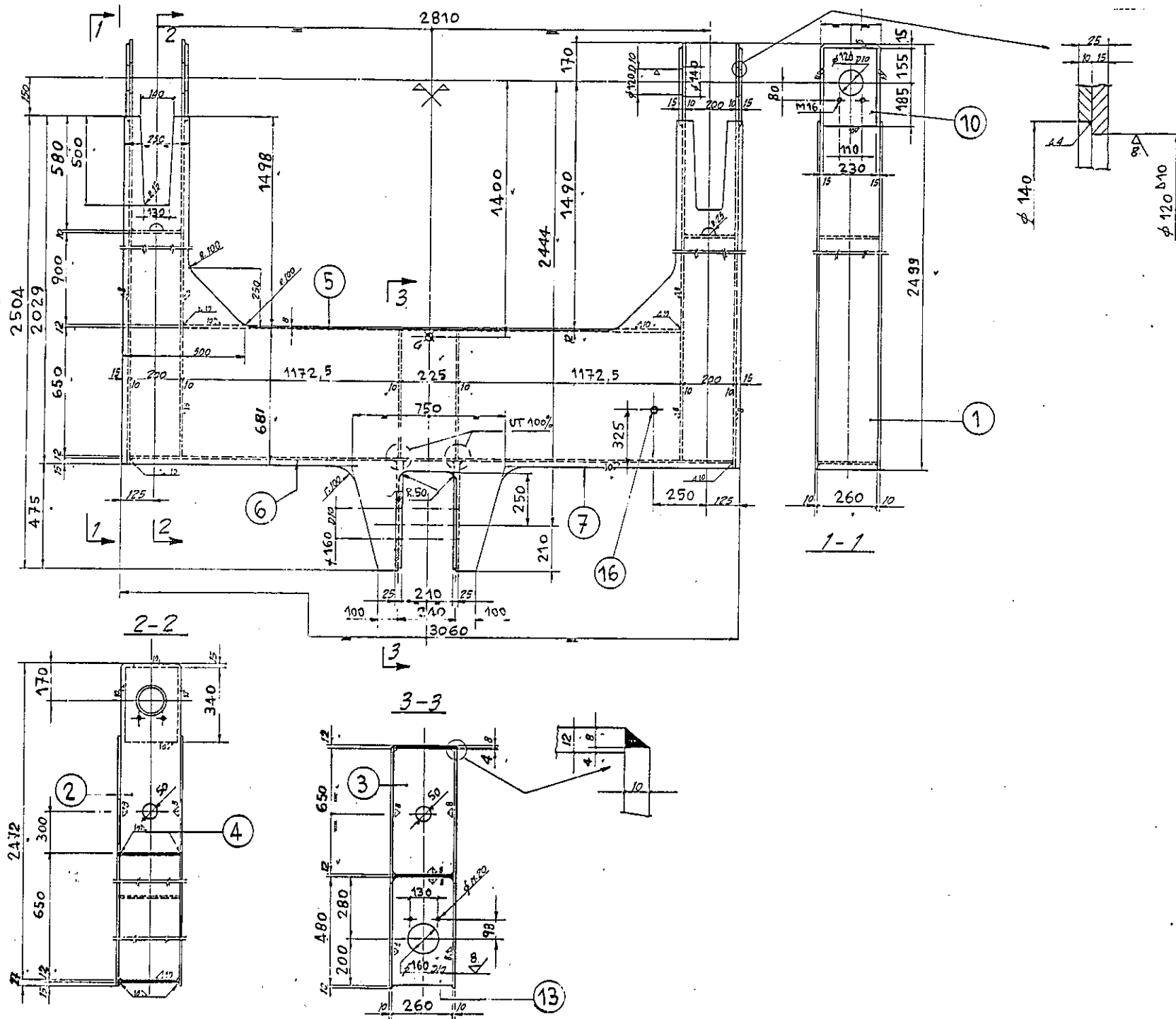
STEEL STRUCTURE WEIGHT 6812 kg
BOLTS WEIGHT 680 kg
WELDING WEIGHT 6800 kg
TOTAL WEIGHT 14292 kg

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUE	10/10/2010

Carretti
Tanfani
JIB LEVER STEEL
STRUCTURE

407933



For the correct carrying out interpretation of the operations and the control, see:

PAZ	:	PAZ 01
WELDS	:	WELDS, and preparation butts
	:	and slots
	:	visual control
	:	MF testing
	:	UF testing
	:	RT testing
	:	PT testing
	:	AIR-TIGHT
	:	PLATES
	:	ROUNDS
	:	TOLERANCES
	:	PAINTING
	:	BOLTS
	:	BOLTS

NOTE: For construction see also dwg.

Slots level welding

-See standard: CTE 51.02-06/C

-For the execution of the bolts see standard CTE 55.04: The bolts in material 10.9 should be tightened by means of a dynamometric wrench with the following tightening moments:

GALVANIZED BOLTS	
M16	310 Nm
M20	500 Nm
M24	1035 Nm
M27	1480 Nm

-Unless different instructions are given all the pieces are to be welded with fillet 4

-Unless different instructions are given all pieces are to be welded with fillet 4

-The length of the structural steel and the plates dimensions which are shown in the tables are approximate and they should be determined through marking

STEEL STRUCTURE WEIGHT	973,9 kg
BOLTS WEIGHT	13,9 kg
WELDINGS WEIGHT	13,9 kg
TOTAL WEIGHT	986,9 kg

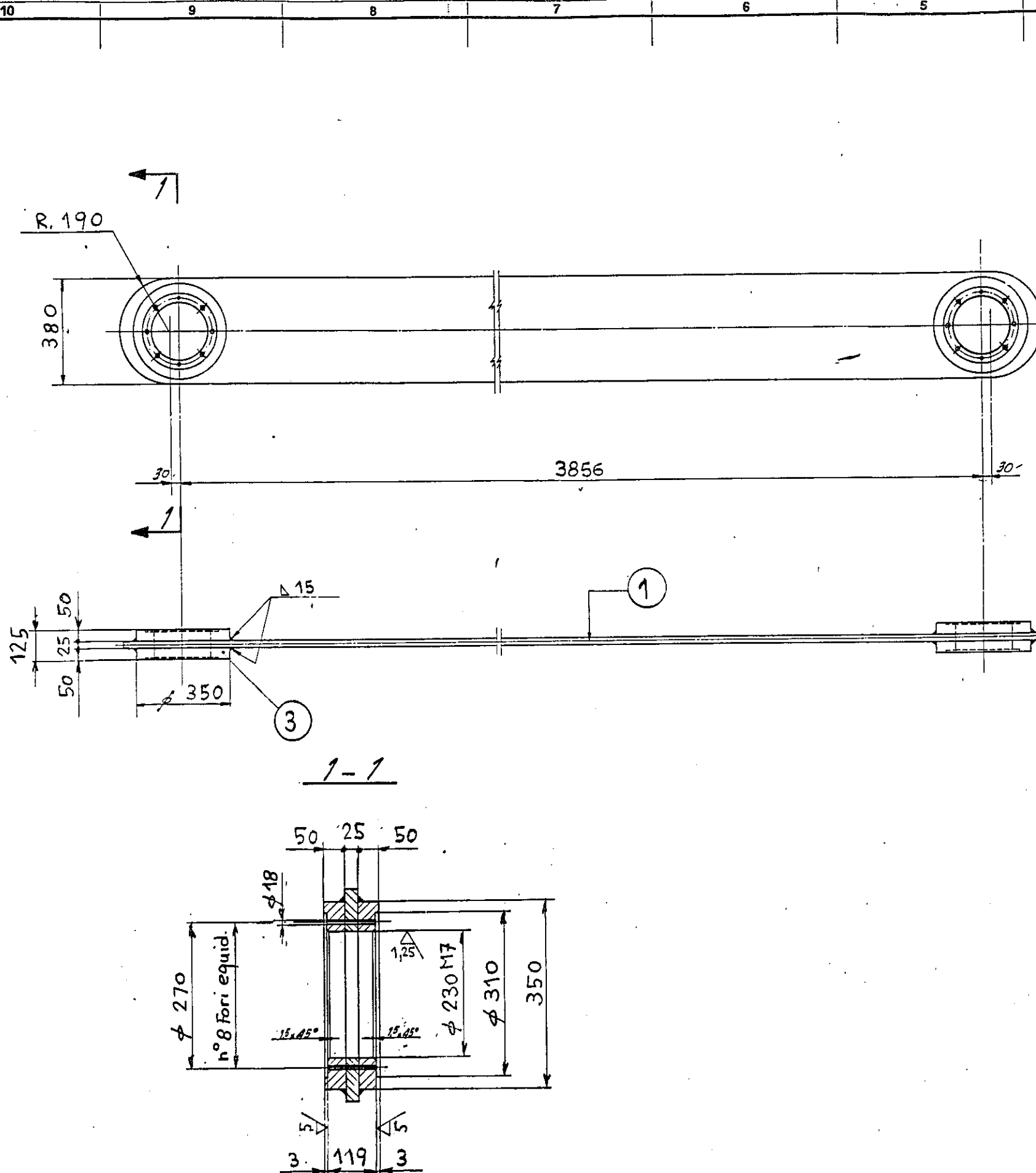
16	483683-B	Plug for air test	1			
15						
14						
13		PL. 25x260x480	2	EN10025 Fe430C	42	
12						
11						
10		PL. 15x230x340	4		31	
9						
8						
7		PL. 10x2504x3060	2		526	
6		" 12x260x3010	1		73	
5		" 12x260x2590	1		64	
4		PL. 10x200x260	2		8	
3		" 10x260x650	2		27	
2		" 10x260x2472	2		100	
1		PL. 10x260x2499	2	EN10025 Fe430B	402	

POS. ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
IN CASO DI QUOTE NON TOLLERATE (mm) / IN CASE OF TOLERANCE LACK UNI ISO 2758/1						
Sopra / From		> 6	> 30	> 120	> 400	> 1000
Fino a / To		6	30	120	400	1000
Mecc. / Mec.		±0,1	±0,2	±0,3	±0,5	±0,8
Carp. / Struc.		±0,3	±0,5	±0,8	±1,2	±2

SEGN. SIMBOLI	SIGNIFICATO (Secondo UNI 3263) DESCRIPTION	TOLLERANZA FONDAMENTALE BASIC TOLERANCE	RUSSOITATE' Ra (mm) / ROUGHNESS
✓	SUPERFICIE GREZZA BLANK		
✓	SUPERFICIE SGROSSATA OTTENUTA MEDIANTE LAVORAZIONE D'UTENSILE ROUGH MACHINING	IT5	0,5
✓	SUPERFICIE LISCIA OTTENUTA MEDIANTE LAVORAZIONE D'UTENSILE SMOOTH MACHINING	IT7	0,8
✓	SUPERFICIE RETTIFICATA GRINDING	IT8	1,25
✓	SUPERFICIE LAPPATA LAPPING	IT9	2

REV. ARRETR.	VARIAZIONI / MODIFICATIONS	DATA	DATA	DATA	DATA	DATA	DATA	DATA	DATA
A	Modif. pos. 7								

Ceretti impianti di sollevamento Tanfani e trasporto		Ricevuto da / Taken from	
Biella CARPENTERIA		5.1085	
CONNECTING ROD		4235951A	
STEEL STRUCTURE			



For the correct carrying out interpretation of the operations and the control, see:

☒ PAS	:	PAS 07 E
☒ WELOS	:	simboli, and preparation butts and slots tec.spec. CTE51.02.03
☒	:	visual control tec.spec. CTE 100.01
☒	:	MT testing tec.spec. CTE 130.01
☒	:	UT testing tec.spec. CTE 110.02
☒	:	RT testing tec.spec. CTE 120.01
☒ WELDS	:	PT testing tec.spec. CTE 140.01
☒ AIR-TIGHT	:	tec.spec. CTE 150.01
☒ PLATES	:	UT testing tec.spec. CTE 110.01
☒ ROUNDS	:	UT testing tec.spec. UNI 8572
☒ TOLERANCES	:	dimensions standart CTE 50.04 and dwg.
☒ PAINTING	:	cycle tec.spec. CTE 160.02
☒ PAINTING	:	inspection tec.spec. CTE 160.01
☒ BOLTS	:	tec.spec. CTE 180.01 and standart CTI 52.03
☒ BOLTS	:	tightening standart CTE 52.04

CTC N

NOTE: For construction see also dwg.

Slots level welding
-See standart: CTE 51.02-06/C

-For the execution of the bolts see standart CTE 52.04; The bolts in material 10.9 should be tightened by means of a dynamometric wrench with the following tightening moments:

GALVANIZED BOLTS	
M16:	310 Nm
M20:	580 Nm
M24:	1030 Nm
M27:	1480 Nm

-Unless different instructions are given all the places are to be welded with fillet Δ

-The lenght of the structural steels and the plates dimensions which are shown in the tables are approximate and they should be determined through marking

STEEL STRUCTURE WEIGHT	: 381 kg
BOLTS WEIGHT	: kg
WELDINGS WEIGHT	: 5 kg
TOTAL WEIGHT	: 386 kg

CTC N

3	PL. 50x350/230	4	EN10025 Fe430C	85
2				
1	PL. 25x380x4296	1	EN10025 Fe430C	296

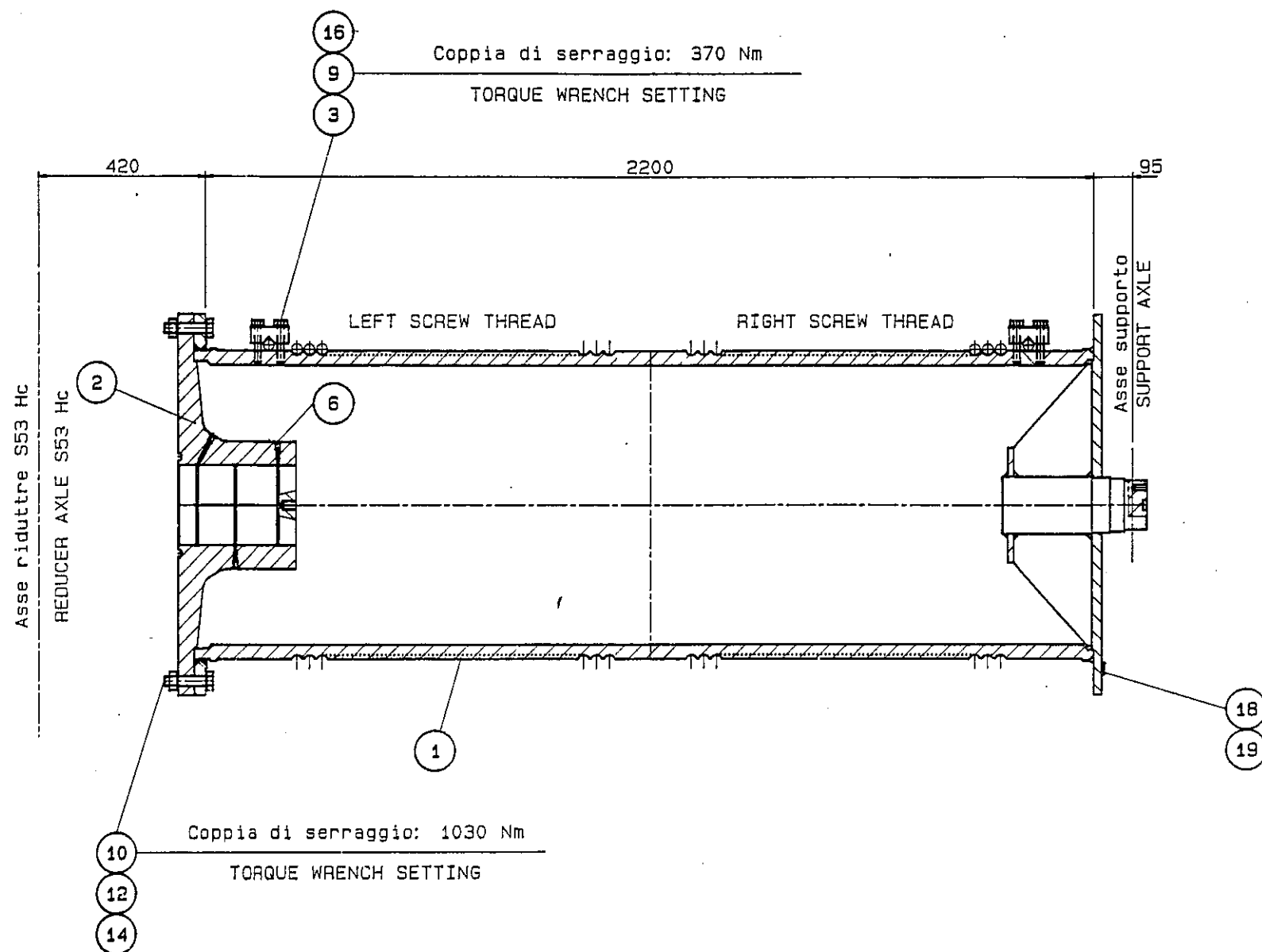
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE	PESO WEIGHT
IN CASO DI QUOTE NON TOLLERATE (mm) / IN CASE OF TOLERANCE LACK UNI ISO 2768/1						
Sopra / From		1	> 6	> 30	> 120	> 400
Fino a / To		6	30	120	400	1000
Mecc. / Mec.		±0,1	±0,2	±0,3	±0,5	±0,8
Carp. / Struc.		±0,3	±0,5	±0,8	±1,2	±2

SEGN. GRAFICO FINISH SYMBOLS	SIGNIFICATO (Secondo UNI 3963) DESCRIPTION	TOLLERANZA FONDAMENTALE BASIC TOLERANCE	RUGOSITA' Ra (µm) / ROUGHNESS Dimensioni (mm) / Dimensions		
✓	SUPERFICIE GREZZA BLANK		< 80	> 80±250	> 250
12.5	SUPERFICIE SGROSSATA OTTENUTA MEDIANTE LAVORAZIONE D'UTENSILE ROUGH MACHINING	IT6	0,5	0,8	1,25
3.2	SUPERFICIE LISCIA OTTENUTA MEDIANTE LAVORAZIONE D'UTENSILE SMOOTH MACHINING	IT7	0,8	1,25	2
0.8	SUPERFICIE RETTIFICATA GRINDING	IT8	1,25	2	3,2
0.4	SUPERFICIE LAPPATA LAPPING	IT9	2	3,2	5
0.2		> IT9	5	8	12,5

REV ISSUE	VARIAZIONI / MODIFICATIONS	SCALE	DATE	DATE	DATE	DATE	DATE	DATE
E								
D								
C								
B								
A								

PROPRIETA' RISERVATA. A termini di legge la CT CERETTI TANFANI S.p.A. si riserva la proprieta' del presente disegno, che pertanto non puo' essere ristampato o copiato senza permesso scritto dalla CT CERETTI TANFANI S.p.A.	DESIGN AND DETAIL SHOWN ON THIS DOCUMENT ARE OF CERETTI TANFANI'S PROPERTY AND MUST NOT BE USED OR COPIED WITHOUT THEIR AUTHORIZATION. ALL RIGHT OF DESIGN AND INVENTION ARE RESERVED.
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Ceretti impianti Tanfani di sollevamento e trasporto 20020 Cariano Lagnetto (MI) Via Milano 10/12 ITALIA	Biella CARPENTERIA CONNECTING ROD STEEL STRUCTURE	CONFERME ORDERS	Ricevato da / Taken from: 438653 S.1085 4434251
--	--	--------------------	---

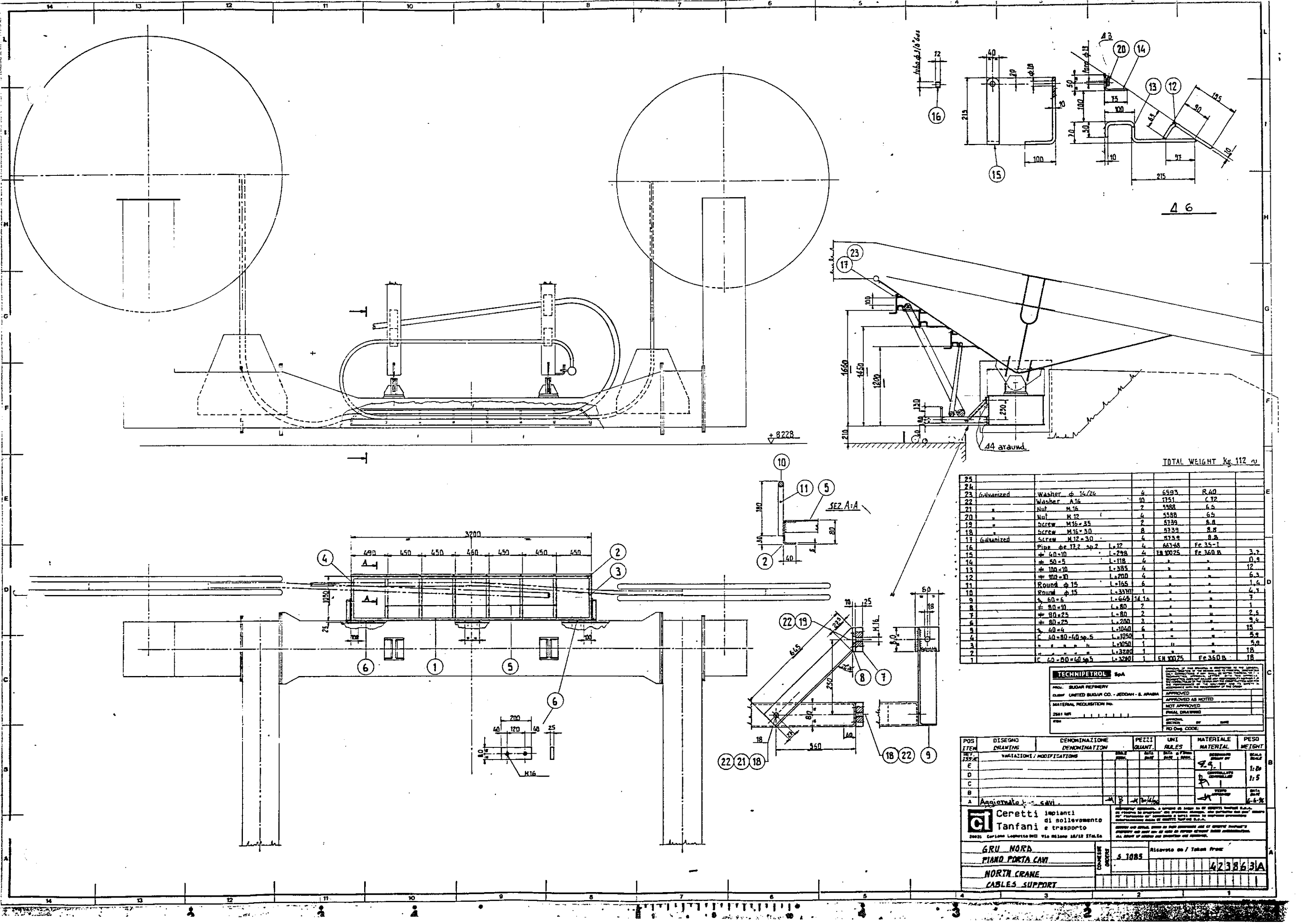


Kg 1573

19		Self threading rivet	4	Ø 3.5		
18	485587	Plate	1			
17						
16	Galvanized	Washer A21	8	1751	C72	
15						
14	-	Washer 25	32	5714	C50 Bon.	
13						
12	-	Nut M24	16	5713	8.8	11, 7
11						
10	-	Screw M24 x110	16	5712	10.9	
9	Galvanized	Screw M20 x90	8	5739	8.8	
8						
7						
6		Plug 1/4" Gas	3	5210		
5						
4						
3	1080.5.3501	Clamp	2			9
2	443449	Flange	1			320
1	423648	Barrel	1			1230

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV. E	VARIAZIONI / MODIFICATIONS		DATA DATE	DATA DATE	DATA DATE	DATA DATE
D						
C						
B						
A						

Ceretti impianti Tanfani e trasporto 20020 Ceriano Laghetto (MI) Via Milano 10/12 ITALIA		PROPRIETÀ RISERVATA. A termini di legge la CT CERETTI TANFANI S.p.A. si riserva la proprietà del presente disegno, che porterà non sua, come ne' disegni ne' costruzioni o terzi senza la concessione preventiva autorizzazione della CT CERETTI TANFANI S.p.A. DESIGN AND DETAIL SHOWN ON THIS DOCUMENT ARE CT CERETTI TANFANI'S PROPERTY AND MUST NOT BE USED OR COPIED WITHOUT THEIR AUTHORIZATION. ALL RIGHT OF DESIGN AND INVENTION ARE RESERVED.	
Tamburo Ø 760/2 per fune Ø 28 INSIEME		Ricavato da / Taken from:	
Ø 760/2 DRUM FOR Ø 28 ROPE ASSEMBLY		S. 1085 443450	



TOTAL WEIGHT Kg. 112 ru

25	Galvanized	Washer $\phi 14/24$	4	6593	R.40	
24	Galvanized	Washer A16	10	1751	C.12	
23	Galvanized	Nut M16	2	3588	6.5	
22	Galvanized	Nut M12	4	5388	6.5	
21	Galvanized	Screw M16x35	2	5139	8.8	
20	Galvanized	Screw M16x30	8	5139	8.8	
19	Galvanized	Screw M12x30	4	5139	8.8	
18	Galvanized	Pipe $\phi 12$ sp.2	4	663.68	Fe 35-1	
17	Galvanized	$\phi 40=10$	4	1249	EN 10025	Fe 360 B
16	Galvanized	$\phi 50=5$	4	1118		3.7
15	Galvanized	$\phi 100=10$	4	1585		0.9
14	Galvanized	$\phi 100=10$	4	1585		12
13	Galvanized	$\phi 100=10$	4	1585		6.3
12	Galvanized	Round $\phi 15$	1	165		1.4
11	Galvanized	Round $\phi 15$	1	165		4.3
10	Galvanized	$\phi 40=6$	1	165	14.14	1
9	Galvanized	$\phi 80=10$	2	180		2.5
8	Galvanized	$\phi 80=25$	2	180		2.5
7	Galvanized	$\phi 80=25$	2	180		2.5
6	Galvanized	$\phi 40=4$	1	1040		15
5	Galvanized	$\phi 40=40$ sp.5	1	1050		5.9
4	Galvanized	$\phi 40=40$ sp.5	1	1050		5.9
3	Galvanized	$\phi 40=40$ sp.5	1	1050		5.9
2	Galvanized	$\phi 40=40$ sp.5	1	1050		5.9
1	Galvanized	$\phi 40=40$ sp.5	1	1050	EN 10025	Fe 360 B

TECHNIPETROL SpA

PROG. SUDAR REFINERY
CLIENT UNITED SUDAR CO. - JEDDAH - S. ARABIA

MATERIAL REQUISITION NO. 2501 MP

APPROVED AS NOTED
NOT APPROVED
FINAL DRAWING

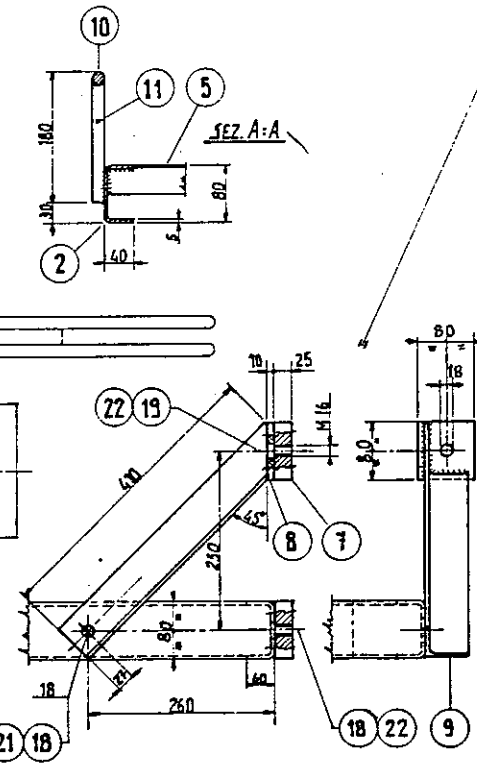
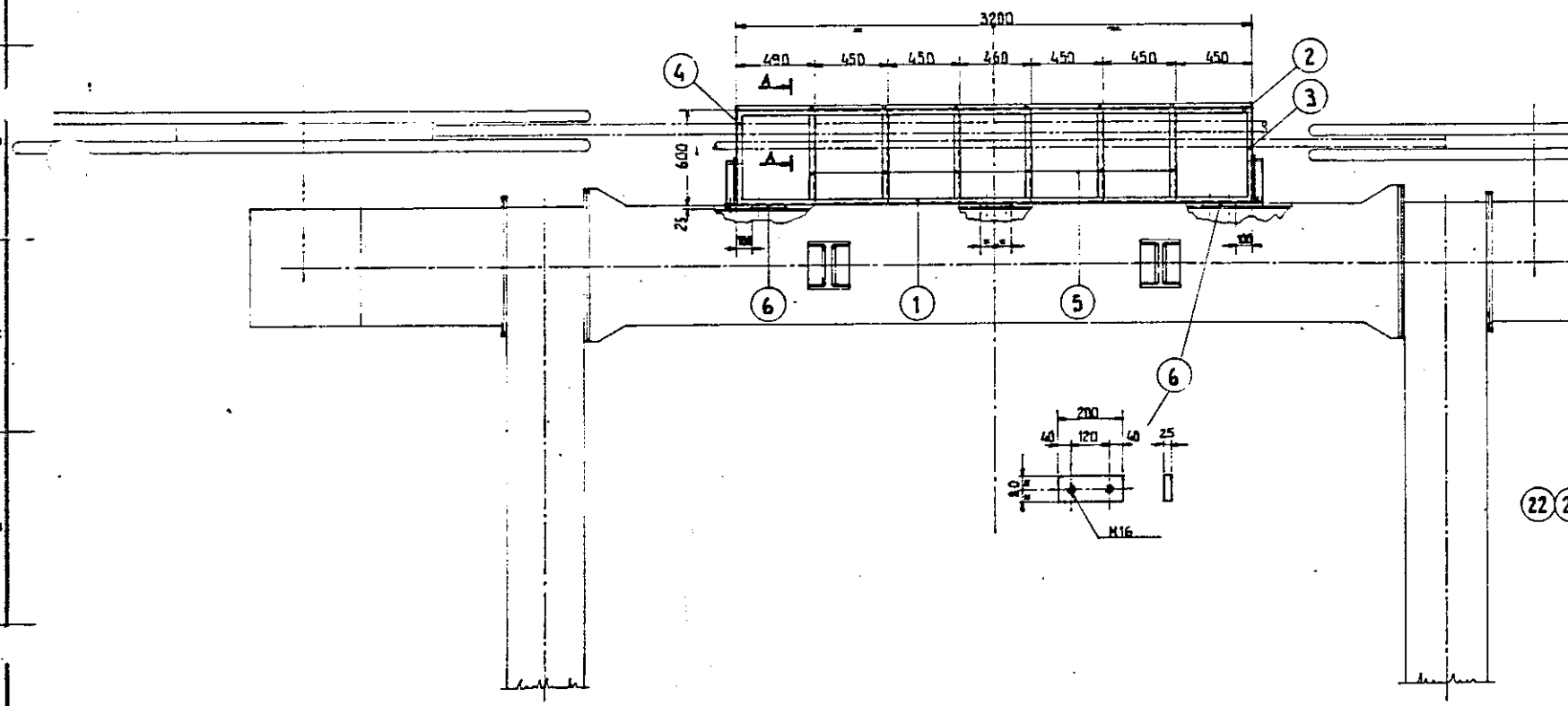
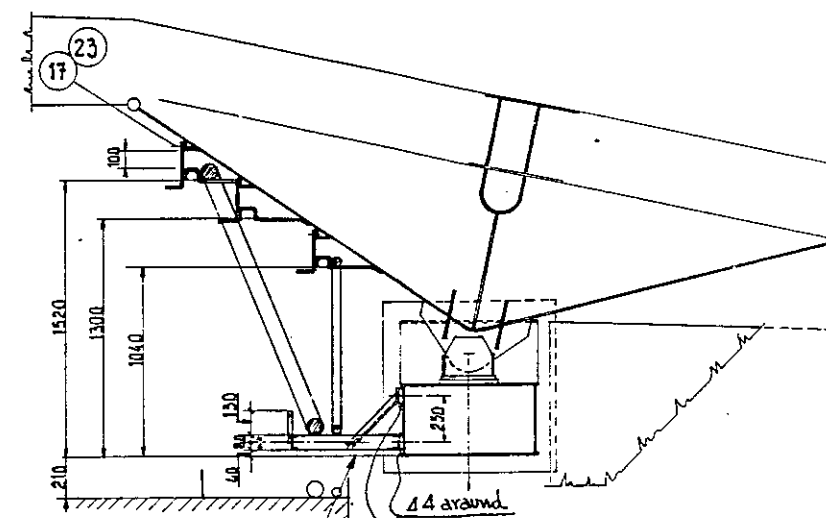
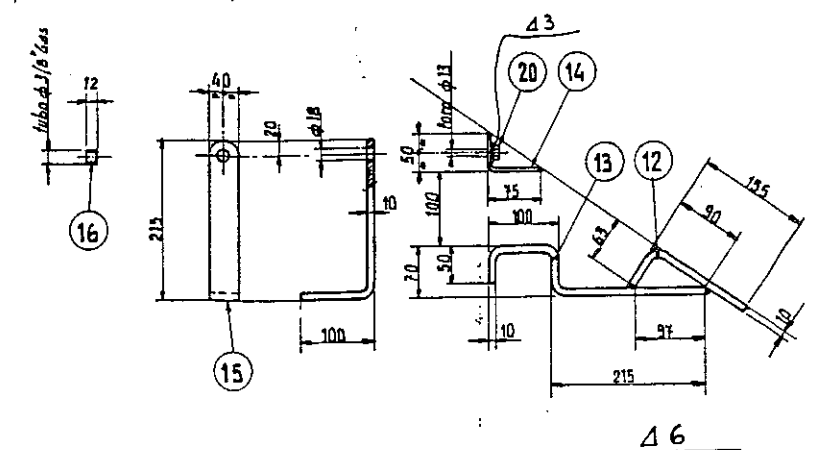
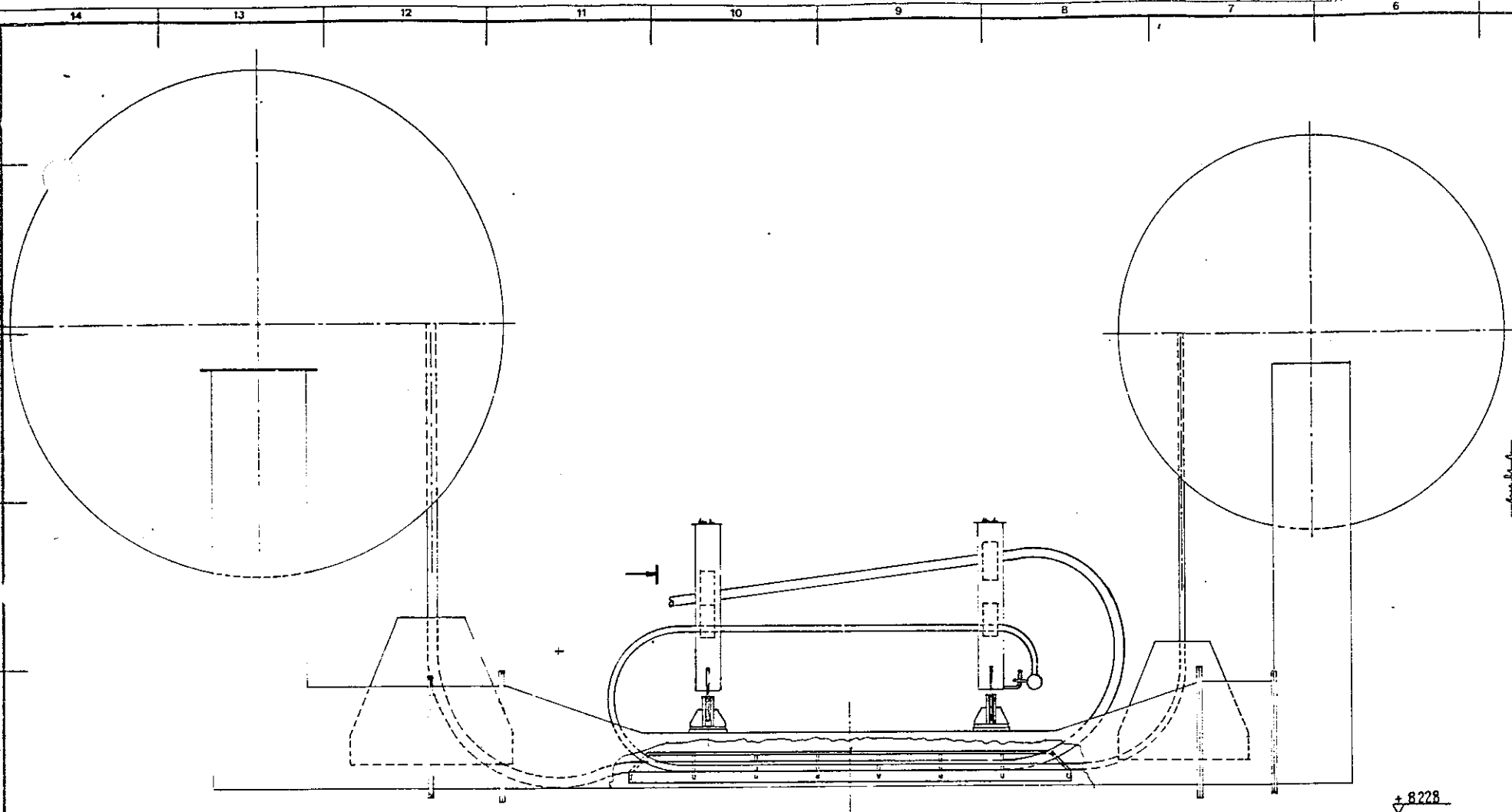
NO. 000 CODE

POS. ITEN	DISEGNO	DENOMINAZIONE	PEZZI	UNITA	MATERIALE	PESO
	DRAWING	DENOMINATION	QUANT.	MEAS.	MATERIAL	WEIGHT
1		VARIAZIONI / MODIFICATIONS				
2						
3						
4						
5						
6						
7						
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9						
10						
11						
12						
13						
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15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

Ceretti impianti di sollevamento e trasporto

GRU NORD
PIANO PORTA CAVI
NORTH CRANE
CABLES SUPPORT

4238631A



TOTAL WEIGHT Kg. 98 ~

ITEM	DESCRIPTION	QUANTITY	UNIT	MATERIAL	WEIGHT
25	Galvanized Washer $\phi 16/24$	4		6593	0.40
24	Washer A16	10		1751	0.12
22	Nut M16	2		5588	0.05
21	Nut M12	4		5588	0.05
20	Screw M16x35	2		5139	0.08
19	Screw M16x30	8		5139	0.08
18	Screw M12x30	4		5139	0.08
17	Galvanized Pipe $\phi 17.2$ sp.2	1		65348	0.01
16	Round $\phi 15$	1		1.3370	0.01
15	Round $\phi 15$	1		1.3370	0.01
14	Round $\phi 15$	1		1.3370	0.01
13	Round $\phi 15$	1		1.3370	0.01
12	Round $\phi 15$	1		1.3370	0.01
11	Round $\phi 15$	1		1.3370	0.01
10	Round $\phi 15$	1		1.3370	0.01
9	Round $\phi 15$	1		1.3370	0.01
8	Round $\phi 15$	1		1.3370	0.01
7	Round $\phi 15$	1		1.3370	0.01
6	Round $\phi 15$	1		1.3370	0.01
5	Round $\phi 15$	1		1.3370	0.01
4	Round $\phi 15$	1		1.3370	0.01
3	Round $\phi 15$	1		1.3370	0.01
2	Round $\phi 15$	1		1.3370	0.01
1	Round $\phi 15$	1		1.3370	0.01

TECHNIPETROL SpA

PRODOTTORE: SUGAR REFINERY

CLIENTE: UNITED SUGAR CO. - JEDDAH - S. ARABIA

MATERIALE REQUISITION No. _____

2551 MR

PRODOTTORE: SUGAR REFINERY

CLIENTE: UNITED SUGAR CO. - JEDDAH - S. ARABIA

MATERIALE REQUISITION No. _____

2551 MR

PRODOTTORE: SUGAR REFINERY

CLIENTE: UNITED SUGAR CO. - JEDDAH - S. ARABIA

MATERIALE REQUISITION No. _____

2551 MR

POS. ITEM	DISEGNO	DENOMINAZIONE	PEZZI	UNITA	MATERIALE	PESO
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23

Ceretti Impianti di sollevamento e trasporto

25020 Capriano Ligure (GE) Via M. L. 18/12 ITALIA

GRU. SUB

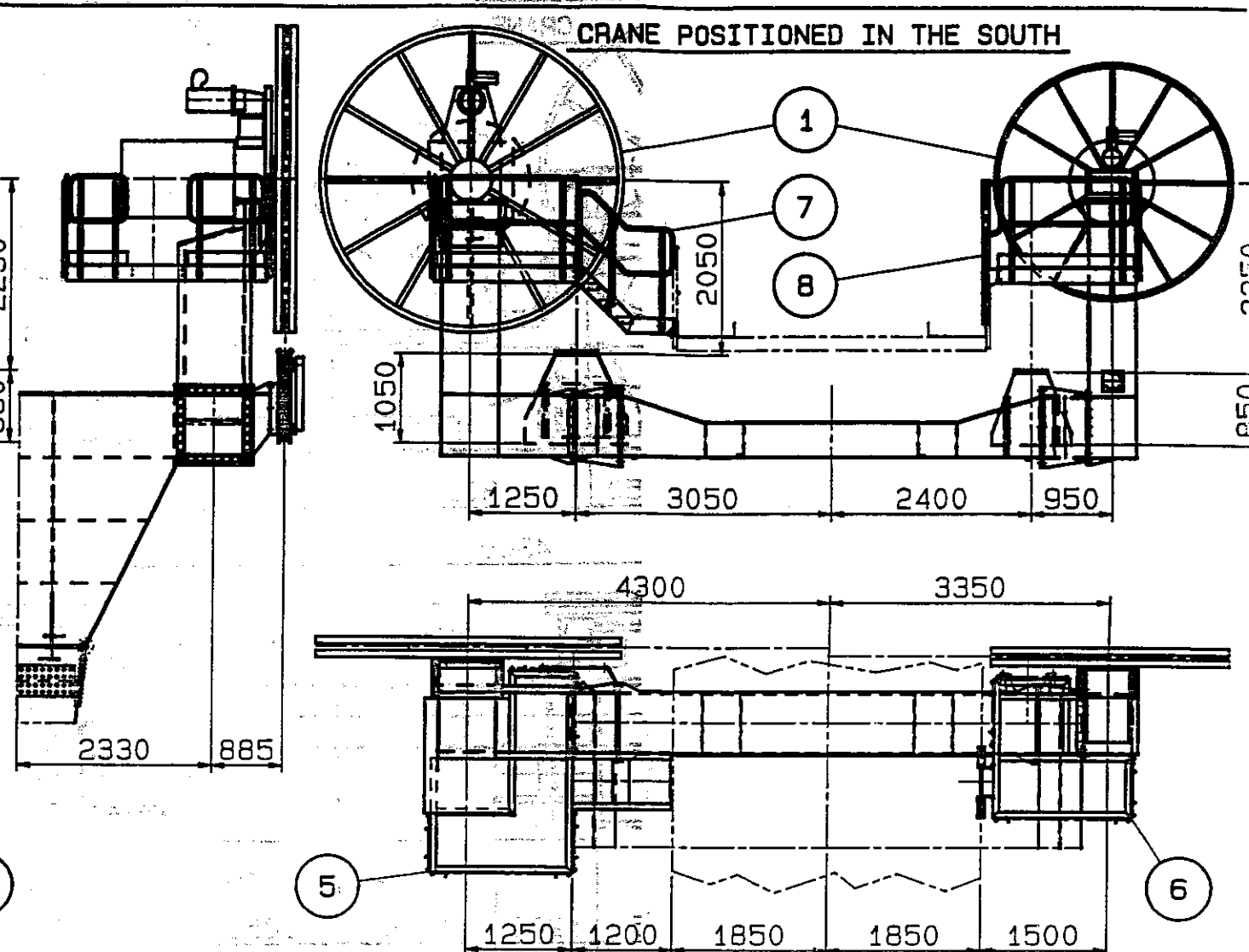
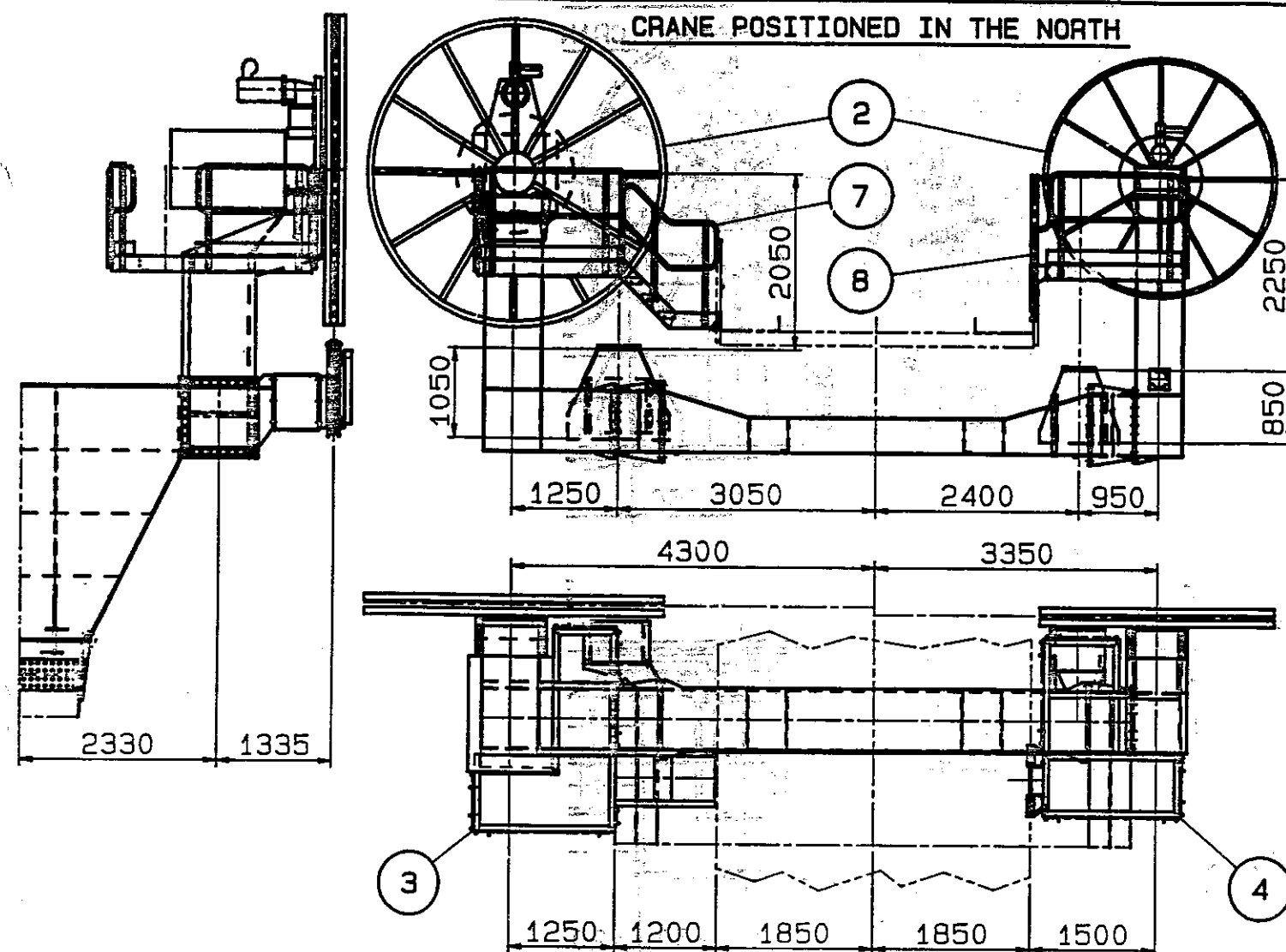
PIANO PORTA CAVI

SOUTH CRANE

CABLES SUPPORT

1085

4238621



TOTAL WEIGHT Kg.9100

8	443552	Ladder	2			82
7	423774	Stepladder	2			160
6	423778	Platform	1			265
5	423763	Platform	1			325
4	423777	Platform	1			290
3	423762	Platform	1			315
2	423716	Cable reeling drums for north crane				4070
1	423713	Cable reeling drums for south crane				3590
POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT

POS ITEM	DISEGNO DRAWING	DENOMINAZIONE DENOMINATION	PEZZI QUANT.	UNI RULES	MATERIALE MATERIAL	PESO WEIGHT
REV. ISSUE	VARIAZIONI / MODIFICATIONS		SIGLE SIGN.	DATA DATE	DATA DATE	R FIRMA SIGN.
E						
D						
C						
B						
A	Aggiunte pos.3-4-5-6-7-8		A.A.	21/11 1995		
 Ceretti impianti di sollevamento Tanfani e trasporto 20020 Cariano Laghetto (MI) Via Milano 10/12 ITALIA			PROPRIETA' RISERVATA. A termini di legge la CT CERETTI TANFANI S.p.A. si riserva la proprieta' del presente disegno, che pertanto non puo' esse- re riprodotto ne' comunicato a terzi senza la espressa preventiva autorizzazione della CT CERETTI TANFANI S.p.A. DESIGN AND DETAIL SHOWN ON THIS DOCUMENTS ARE CT CERETTI TANFANI'S PROPERTY AND MUST NOT BE USED OR COPIED WITHOUT THEIR AUTHORIZATION. ALL RIGHT OF DESIGN AND INVENTION ARE RESERVED.			
Disposizione avvolgicavi INSIEME			COMESSE ORDERS	Ricavato da / Taken from:		
Cable reeling drums disposition ASSEMBLY				S.1085 4657401A		