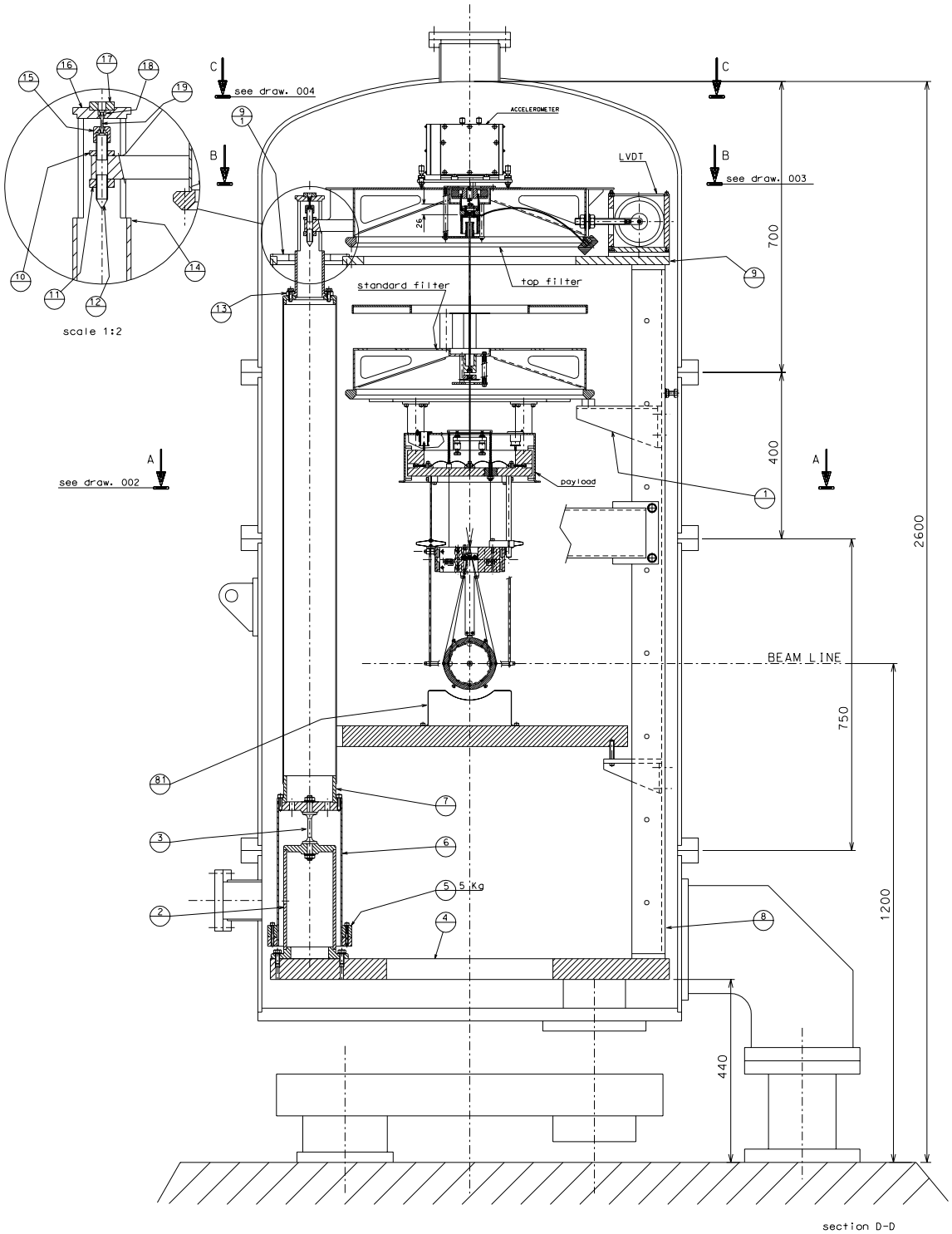


81	washer for M10	4
81	allen stand. socket M6x10	4
17-16	allen stand. socket M4x20	6
13-7	allen stand. socket M8x25	24
9/1-9	allen stand. socket M6x16	12
9-8	washer for M12	12
9-8	hex. screw M12x30	12
8-4	washer for M12	12
8-4	hex. screw M12x30	12
7-6	allen stand. socket M8x30	24
5-6	allen stand. socket M6x50	24
3	washer for M12	6
3	nut M12	6
2-4	hex. screw M10x30	24
1-8	nut M8	12
1-8	allen stand. socket M8x25	12
detail	type	n°piec.

Screw's table

NOTE:preassembly sub assemblies with SS screws:
deliver assembled do not tighten screws
(Preassemblare con viti in inox non strette)

SEE:	
payload	000
LVDT	000
accelerometer	000
top filter	008
standard filter	007
ref.	draw.

10	013	reteiner nut	
9.1	016	safety ring	
9	016	top reference ring	
8	014	safety strut	
7	011	leg	
6	010	c.weight bell	
5	010	counterweight	
4	015	inteface disk	
3	010	main flex joint	
2	009	flex joint base	
1	023	shelf	
ref.	draw.	added legend	

81	048	mirror's saddle	
19	012	small flex joint	
18	012	1/2 cups	
17	009	1/2 cup retainer	
16	012	top disk	
15	013	load nut	
14	011	leg head	
13	012	rotation flange	
12	012	tuning stud	
11	013	support tuning nut	
ref.	draw.	added legend	

ref.	note	date	signature
	modifications		

TAMA PROJECT

designed for R. De Salvo

doc. numb. Tama300.000

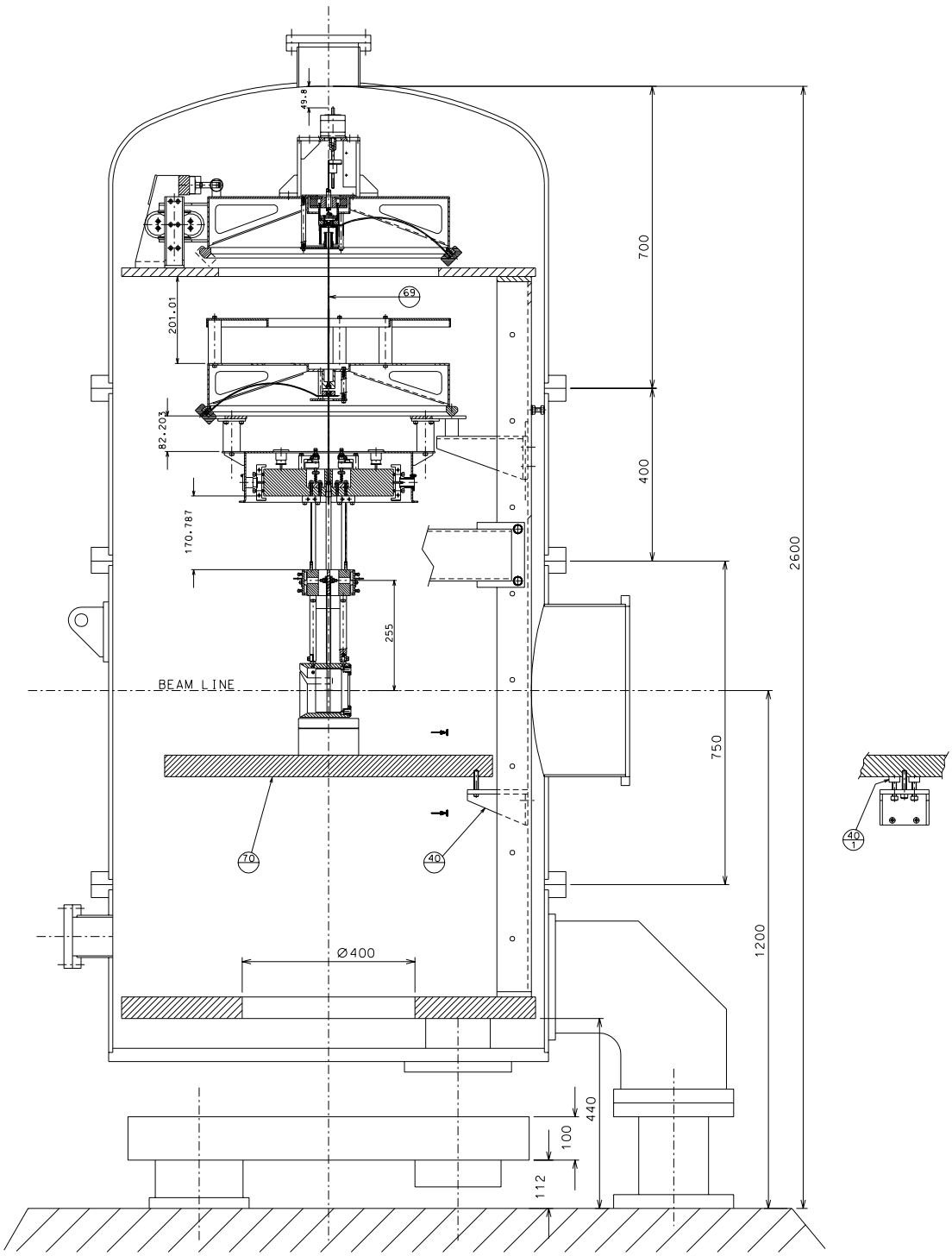
title TAMA-SAS-TOWER-300
VERTICAL SECTIONS

draw. PROMEC 4-01-03

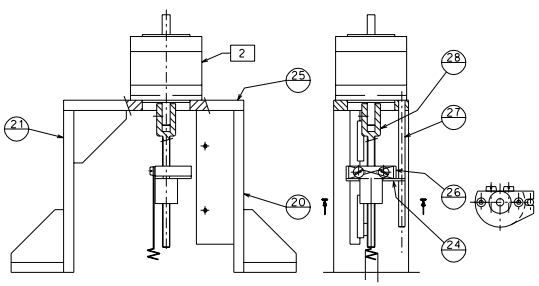
scale 1:4

replaces dr. numb.

A 1



section D-D



40	nut M10	6
40	allen stand. socket M10x55	9
40	allen stand. socket M10x25	6
30	allen stand. socket M3x12	6
29	allen stand. socket M5x20	6
28	grub screw M4x5	2
25-20	allen stand. socket M4x16	4
24-26	allen stand. socket M4x10	2
20-21	allen stand. socket M5x16	4
detail	type	n°piec.

Screw's table

1 Daedal slide model MA 1500 travel 6" or Velmex MA 150 6 P40-S1.5 n°3 pieces

2 Stepper motor ORIENTAL MOTOR model PK266-01B, holding torque 0.9 N.m., A/phase 1, V DC 7.4, double shaft

ref.	note	date	signature

modifications

28	017	screw
27	017	torque plate
26	018	nut
25	022	motor flange
24	018	torque plate
23		deleted
21	022	stand
20	017	stand
ref.	draw.	added legend

71		deleted
70	047	optical sheet
69	013	suspension wire
40.1	047	washer support
40	047	optical's support
30	018	spring support
29	018	t. spring clamp
ref.	draw.	added legend

TAMA PROJECT

designed for R. De Salvo

ass. numb. Tama300.001

draw. PROMEC 4-01-03

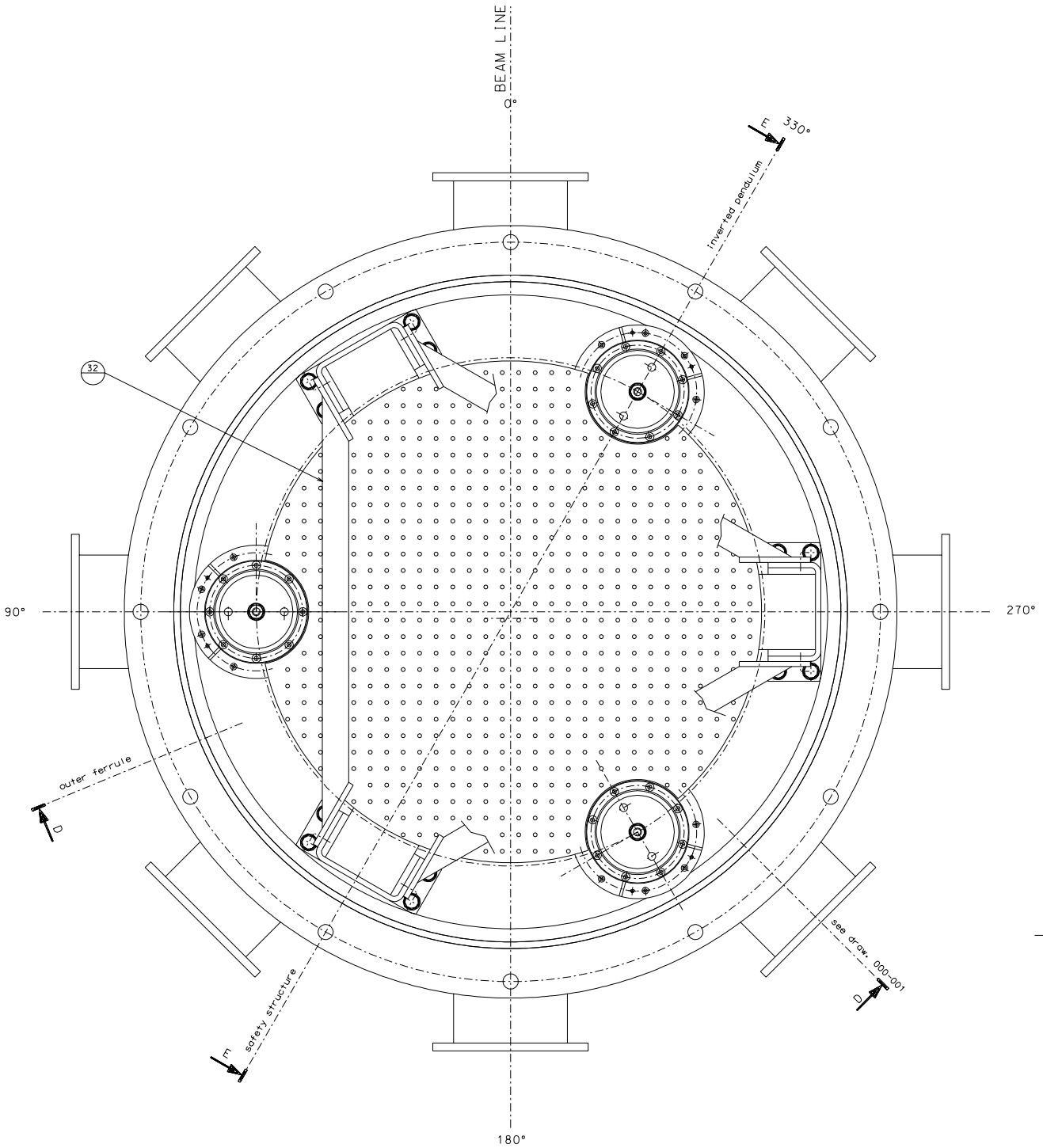
title TAMA-SAS-TOWER-300

VERTICAL SECTIONS

scale 1:5

replaces dr. numb.

A 1



SEE DRAWINGS 000-001

ref.	note	date	signature
	modifications		

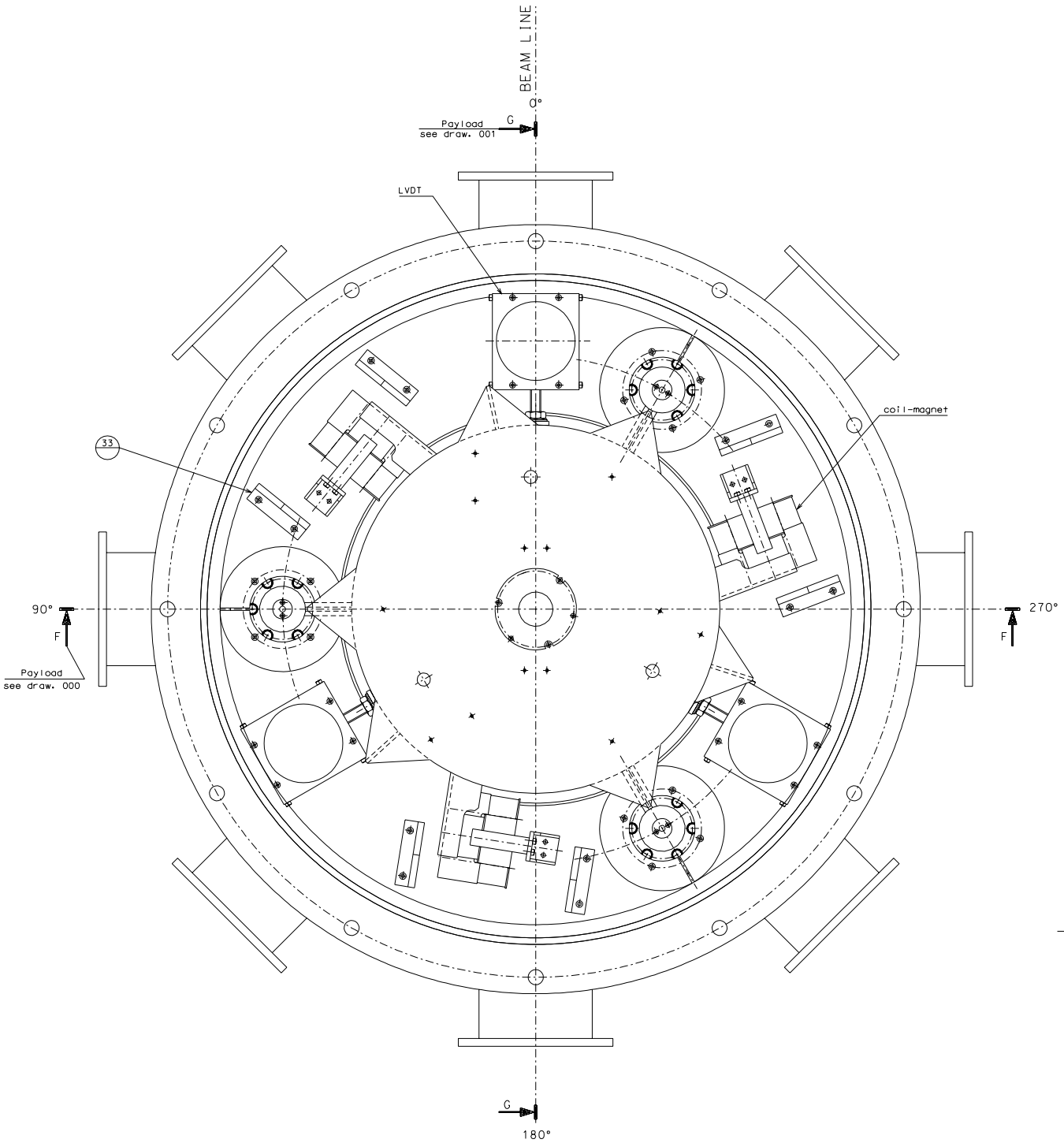
32	023	stiffener
ref.	draw.	added legend

ref.	draw.	added legend

32	washer for M10	12
32	nut M10	12
32	hex. screw M10x30	12
detail	type	n°piec.

Screw's table

TAMA PROJECT	designed for R. De Salvo	
	ass. numb. Tama300.002	
title TAMA-SAS-TOWER-300 SECTION A-A	draw. PROMEC 5-01-03	
	scale 1:3	
	replaces dr. Numb.	A 1



SEE DRAWINGS 000-001

ref.	note	date	signature
	modifications		

ref.	draw.	added legend
33	019	slide bracket

ref.	draw.	added legend

detail	type	n°piec.
33	allen stand. socket M6x30	12

Screw's table

TAMA PROJECT

designed for R. De Salvo

ass. numb. Tama300.003

dwn. PROMEC 5-01-03

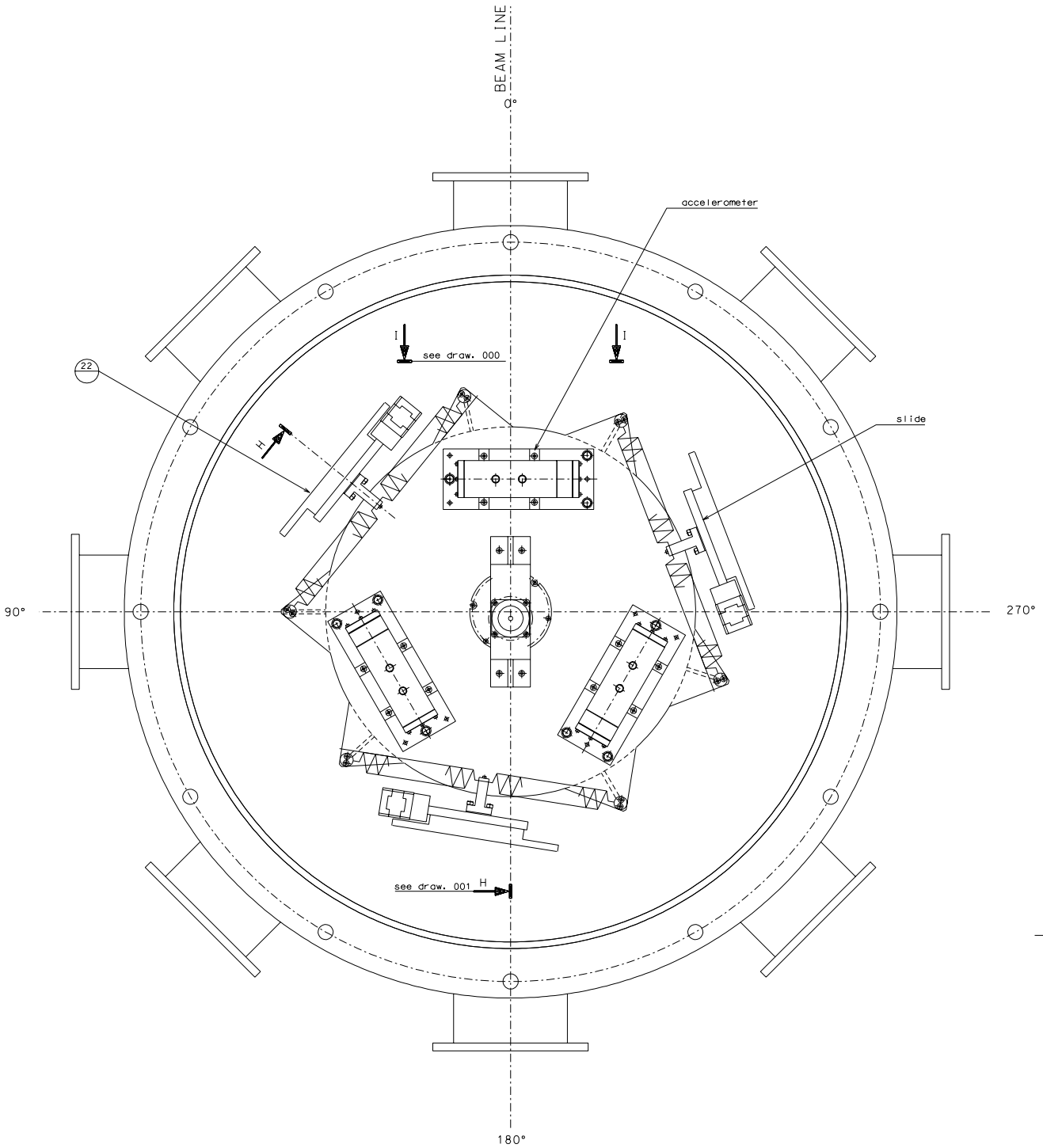
scale 1:3

title TAMA-SAS-TOWER-300

SECTION B-B

replaces dr. Numb.

A 1



SEE DRAWINGS 000-001

ref.	note	date	signature

modifications

ref.	draw.	added legend
22	019	t. spring clamp

ref.	draw.	added legend

detail	type	n°piec.
22	allen stand. socket M5x16	12

Screw's table

TAMA PROJECT

designed for R. De Salvo

ass. numb. Tama300.004

title TAMA-SAS-TOWER-300

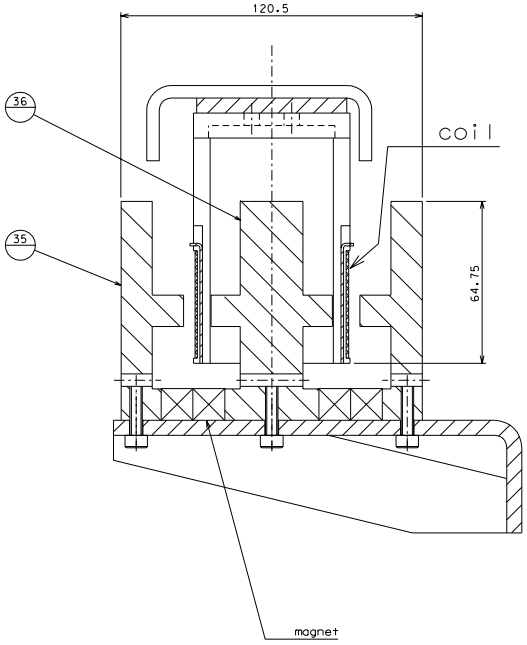
TOP VIEW C-C

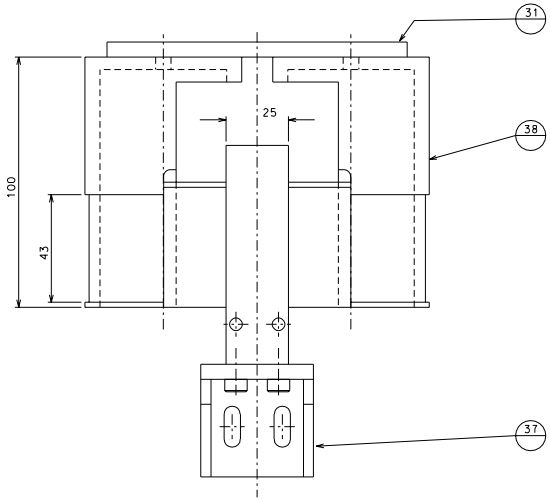
drw. PROMEC 5-01-03

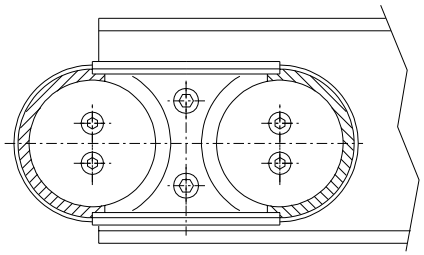
scale 1:2.5

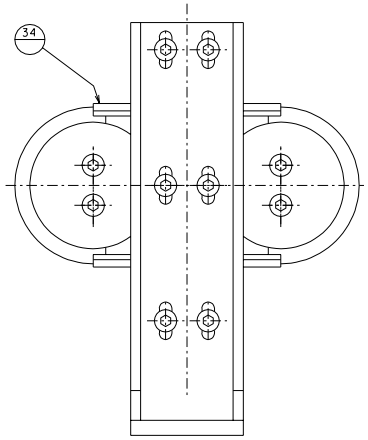
replaces dr. Numb.

A 1









detail	type	n°piec.
38-31	allen stand. socket M5x16	18
37	washer for M6	6
37	allen stand. socket M6x16	6
36-37	washer for M6	6
36-37	allen stand. socket M5x16	6
35-37	washer for M6	12
35-37	allen stand. socket M5x16	12
34-38	flat head M2.5x5	36
31	allen stand. socket M6x12	6

Screw's table

ref.	note	date	signature

modifications

ref.	draw.	added legend
38	020	coil½ spools
37	021	magnet support
36	020	central flux guide
35	020	flux guides
34	020	coil tray
31	021	coil spool base

ref.	draw.	added legend

TAMA PROJECT

designed for R. De Salvo

doc. numb. Tama300.005

draw. PROMEC 8-10-02

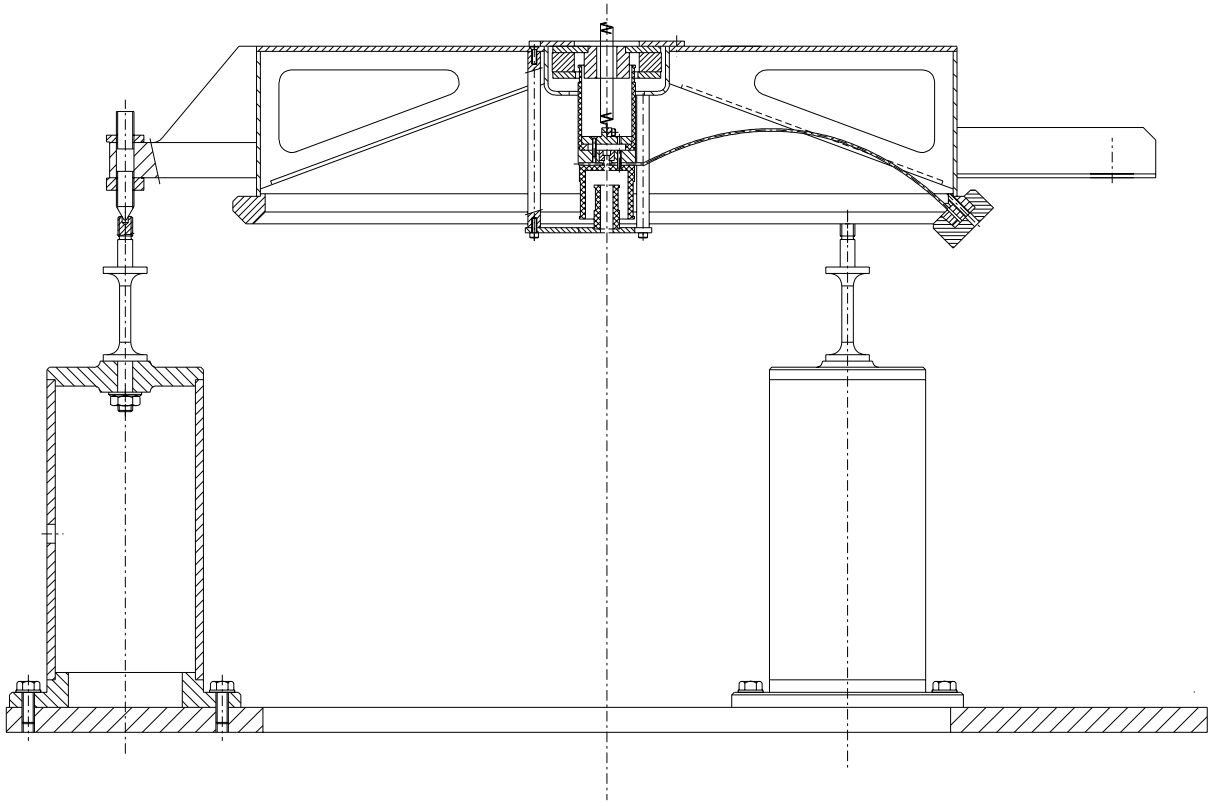
title TAMA-SAS-TOWER-300

COIL-MAGNET

scale 1:1

replaces dr. Numb.

A 1



Assembly note: Use filter_0 with reference to align base column 2 on base disk 4

ref.	note	date	signature

modifications

ref.	drw.	added legend

ref.	drw.	added legend

TAMA PROJECT

designed for R. De Salvo

doc. numb. Tama300.006

drw. PROMEC 8-10-02

scale 1:2

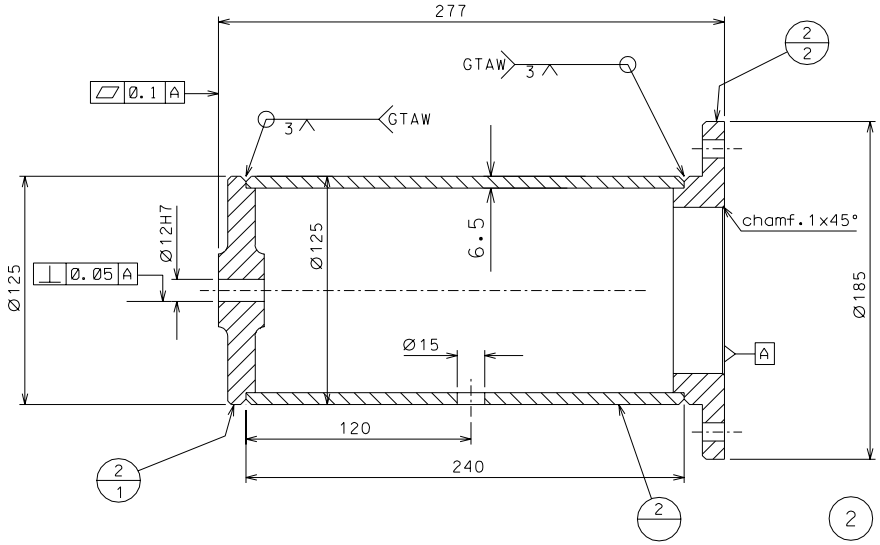
replaces dr. Numb.

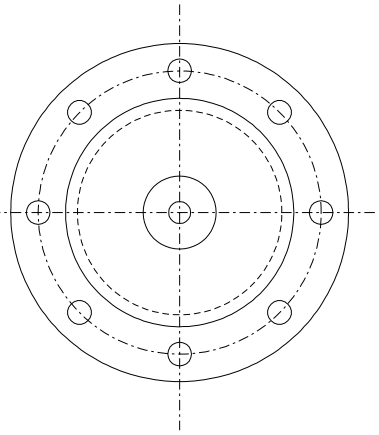
A 1

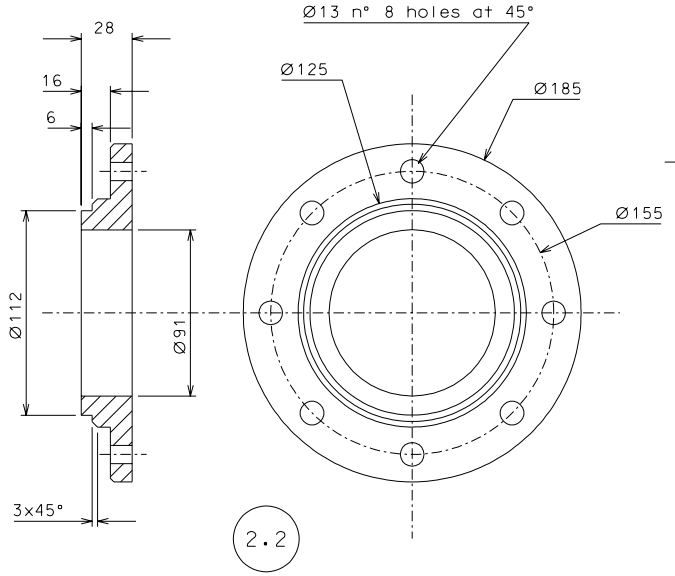
title

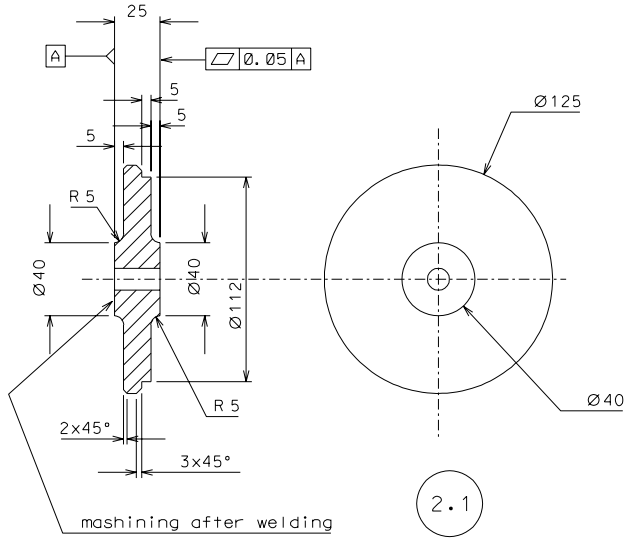
TAMA-SAS-TOWER-300

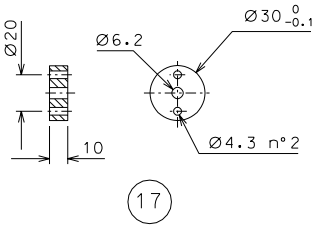
ASSEMBLY TOP FILTER











ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
17	3	AISI 304 L	1:2
2.2	3	"	1:2
2.1	3	"	1:2
2	3	"	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.009

drow. PROMEC 10-10-02

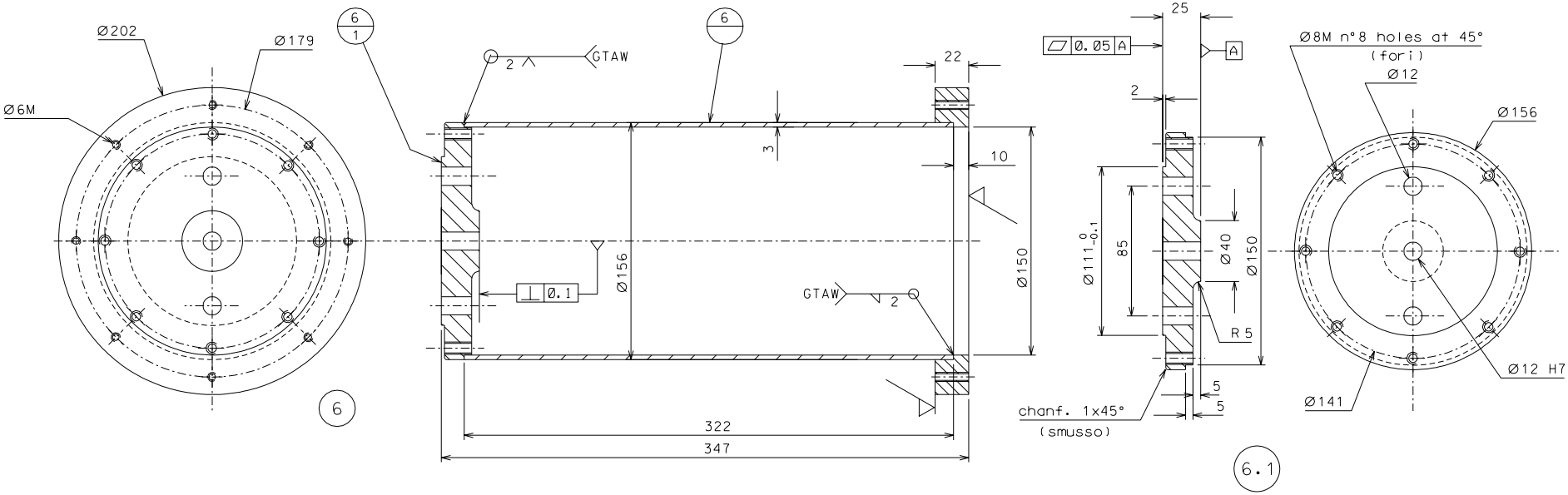
details from 000

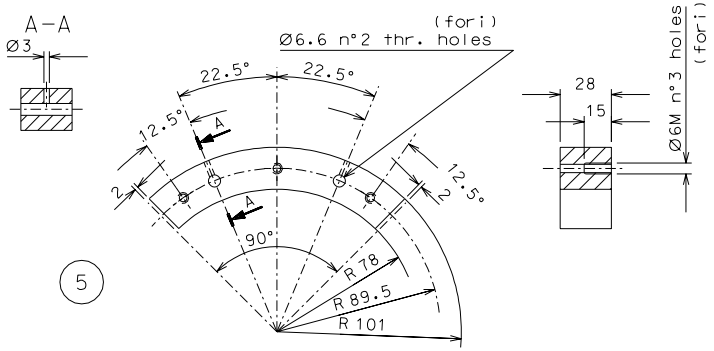
title TAMA-SAS-TOWER-300

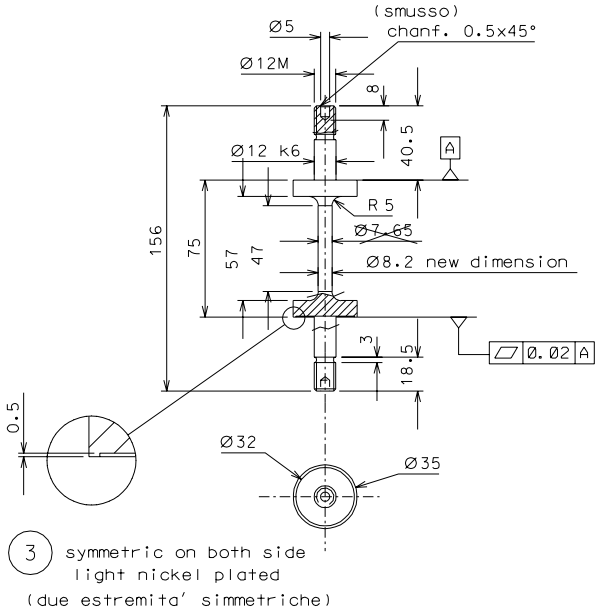
DETAILS

replaces dr. Numb.

A 2







ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
6.1	3	AISI 304 L	1:2
6	3	"	1:2
5	12	AISI 304	1:2
3	3	maraging A	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.010

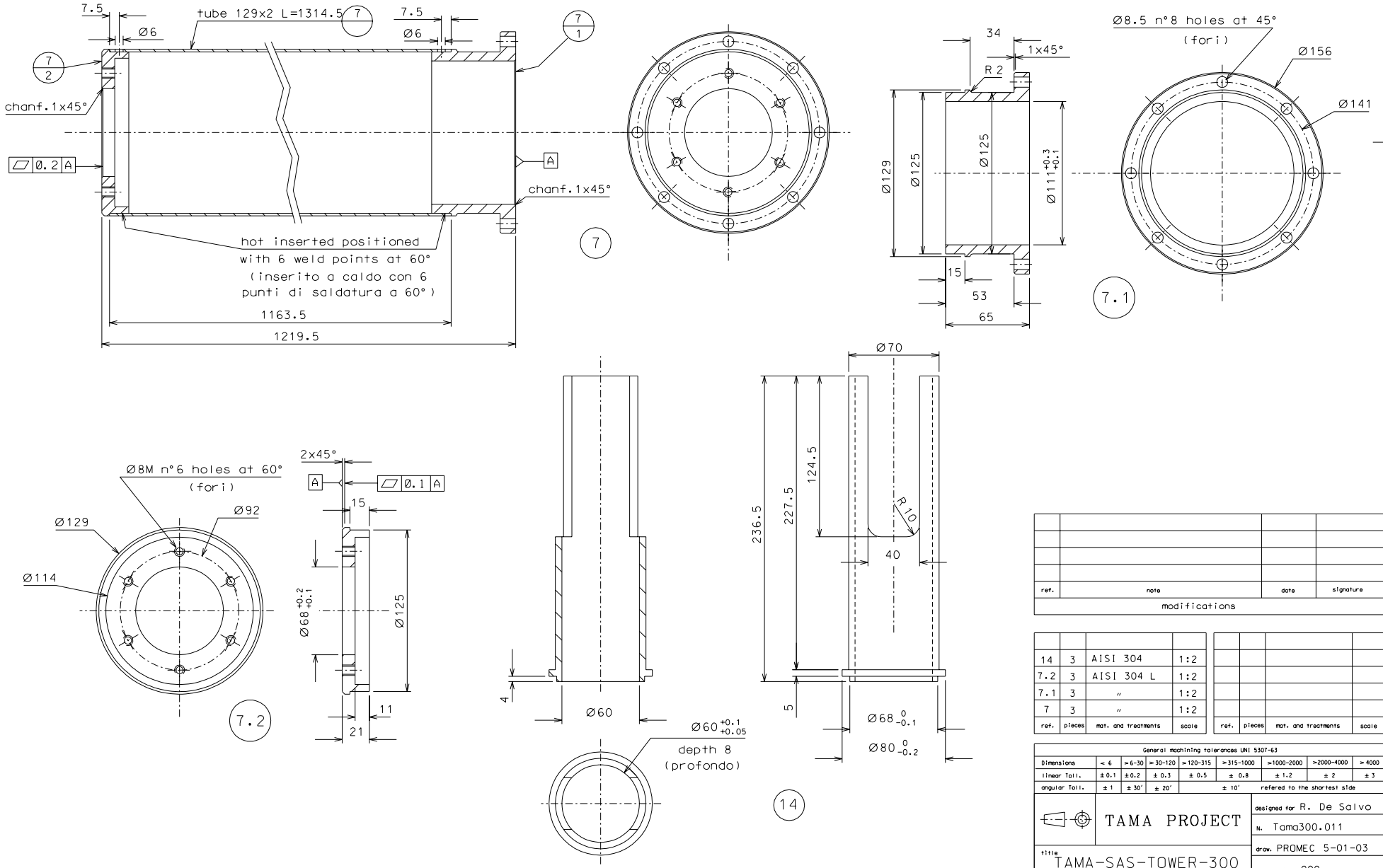
drow. PROMEC 10-10-02

title
TAMA-SAS-TOWER-300
DETAILS

details from 000-002

replaces dr. Numb.

A 2



ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
14	3	AISI 304	1:2
7.2	3	AISI 304 L	1:2
7.1	3	"	1:2
7	3	"	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.011

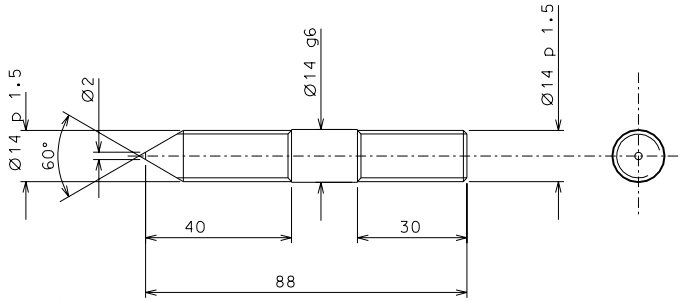
drow. PROMEC 5-01-03

details from 000

title
TAMA-SAS-TOWER-300
DETAILS

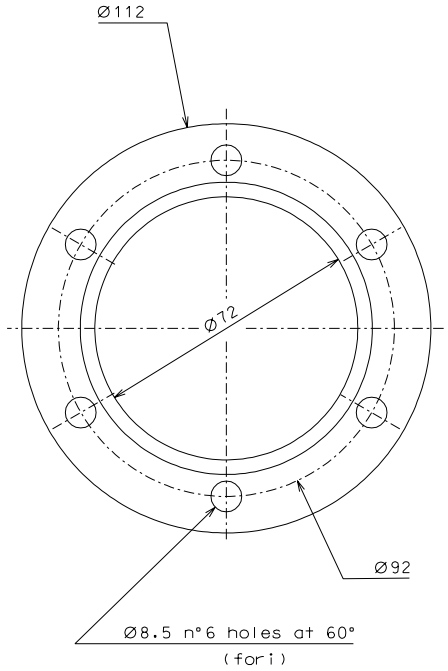
replaces dr. Numb.

A 2

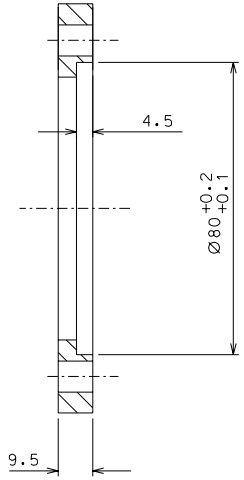


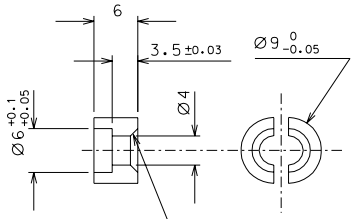
12

Check slip fit into holes in drawing 030
Controllare l'inserimento senza gioco
nel suo foro nel dis. 030

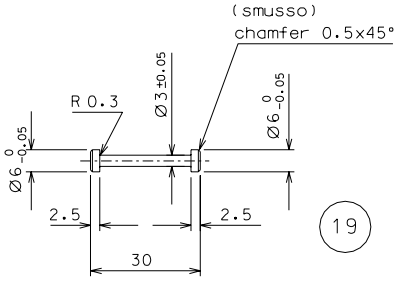


13

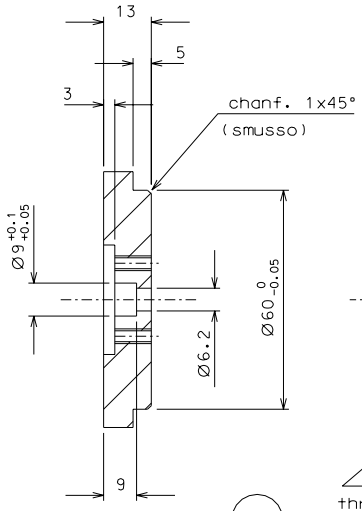




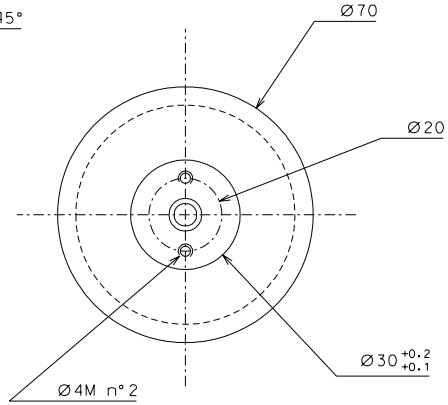
18 light nickel plated
(nichelato leggero)



19



16



ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
19	15	maraging	1:1
18	15	"	2:1
16	3	AISI 304	1:1
13	3	"	1:1
12	3	"	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.012

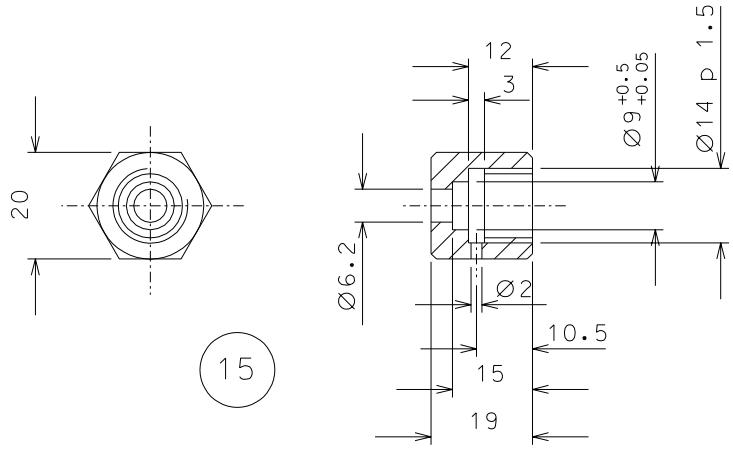
drow. PROMEC 10-10-02

details from 000

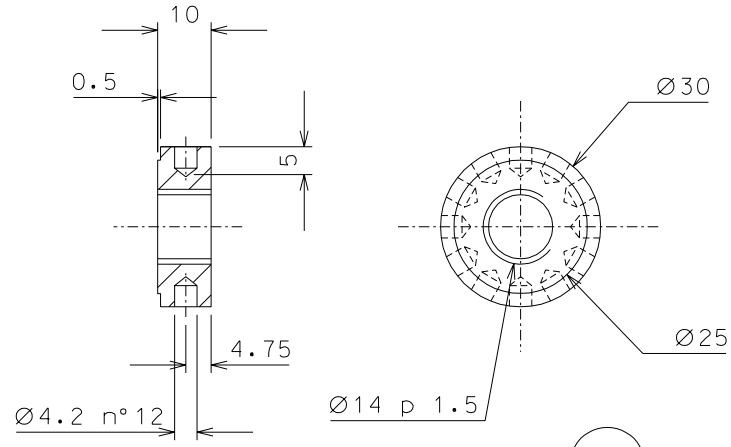
replaces dr. Numb.

A 2

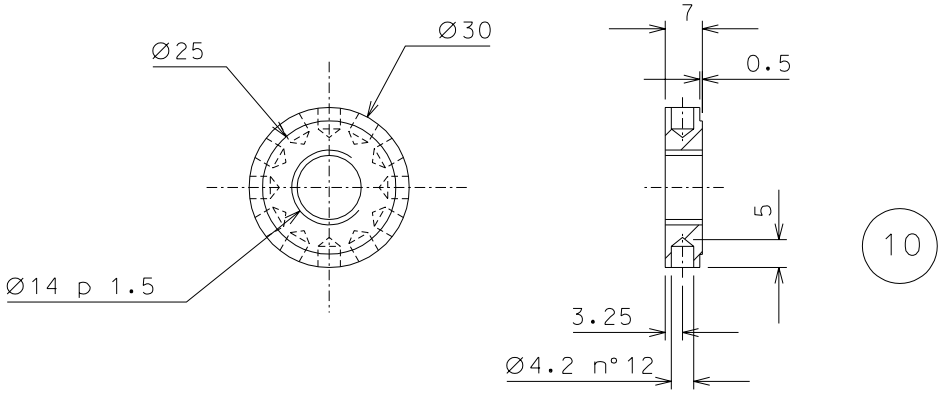
title
TAMA-SAS-TOWER-300
DETAILS



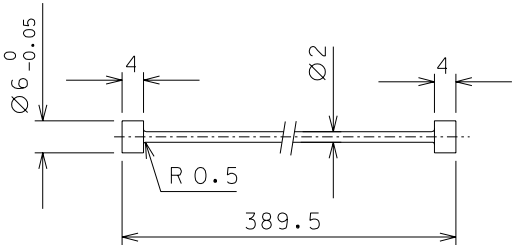
15



11



10



69

ref.	note	date	signature
modifications			

11	3	AISI 304	1:1
10	3	"	1:1
ref.	pieces	mat. and treatments	scale

69	1	maraging	1:1
15	3	AISI 304	1:1
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.013

draw. PROMEC 10-10-02

details from 000-022

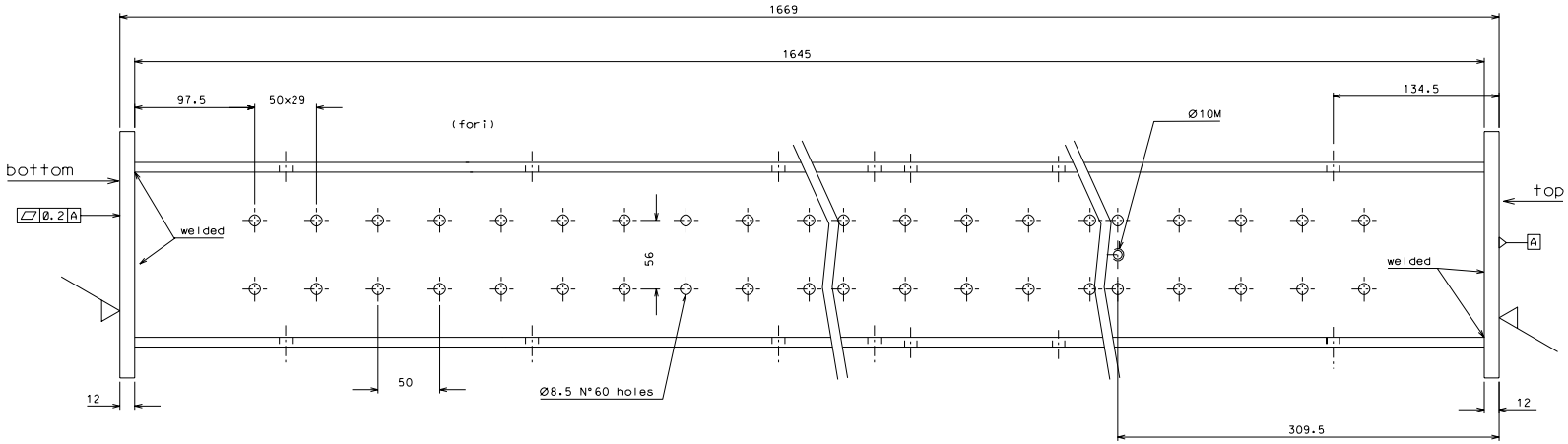
title

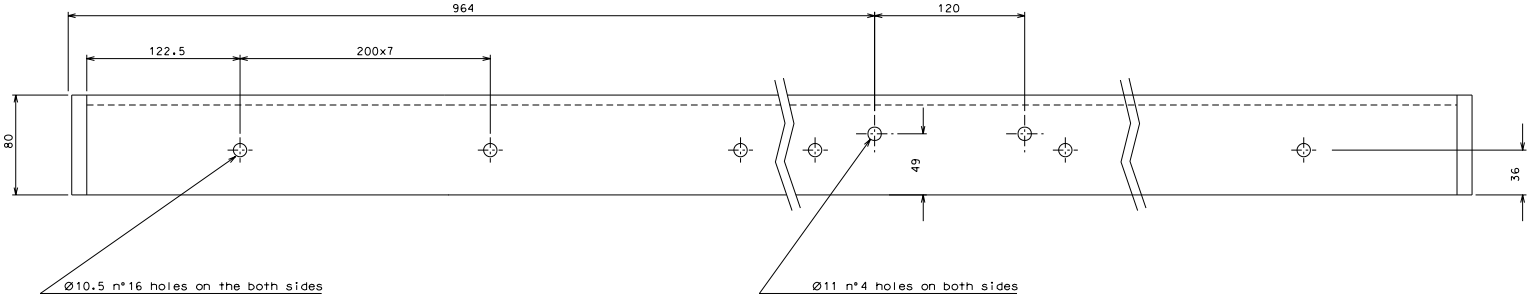
TAMA-SAS-TOWER-300

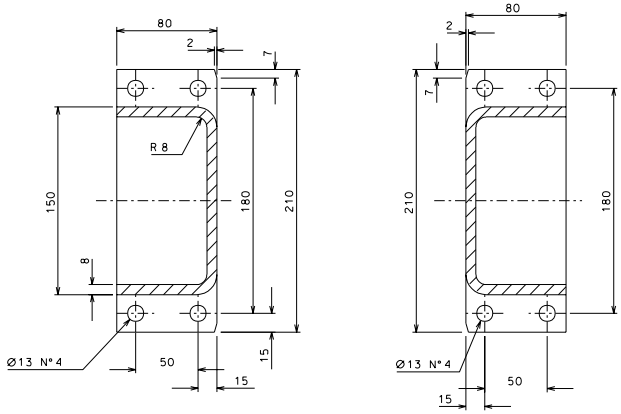
DETAILS

replaces dr. Numb.

A 3







ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
8	3	AISI 304 L	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'	± 10'				

± 10' referred to the shortest side

TAMA PROJECT

designed for R. De Salvo

N. Tama300.014

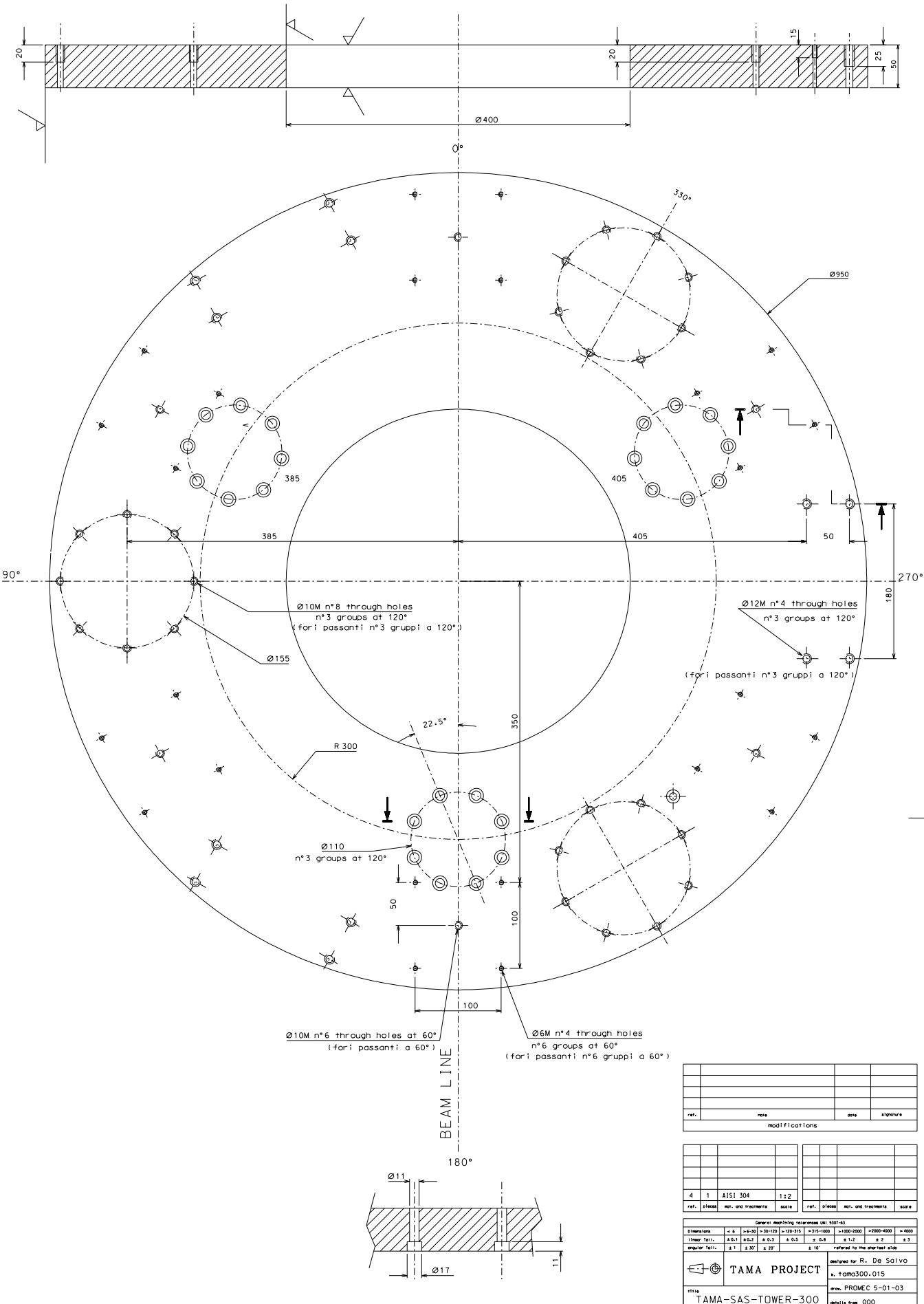
drw. PROMEC 5-01-03

details from 000

replaces dr. Numb.

A 1

title
TAMA-SAS-TOWER-300
DETAILS



ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
4	1	AISI 304	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	>4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'	referred to the shortest side		

TAMA PROJECT

designed for R. De Salvo

n. tama300.015

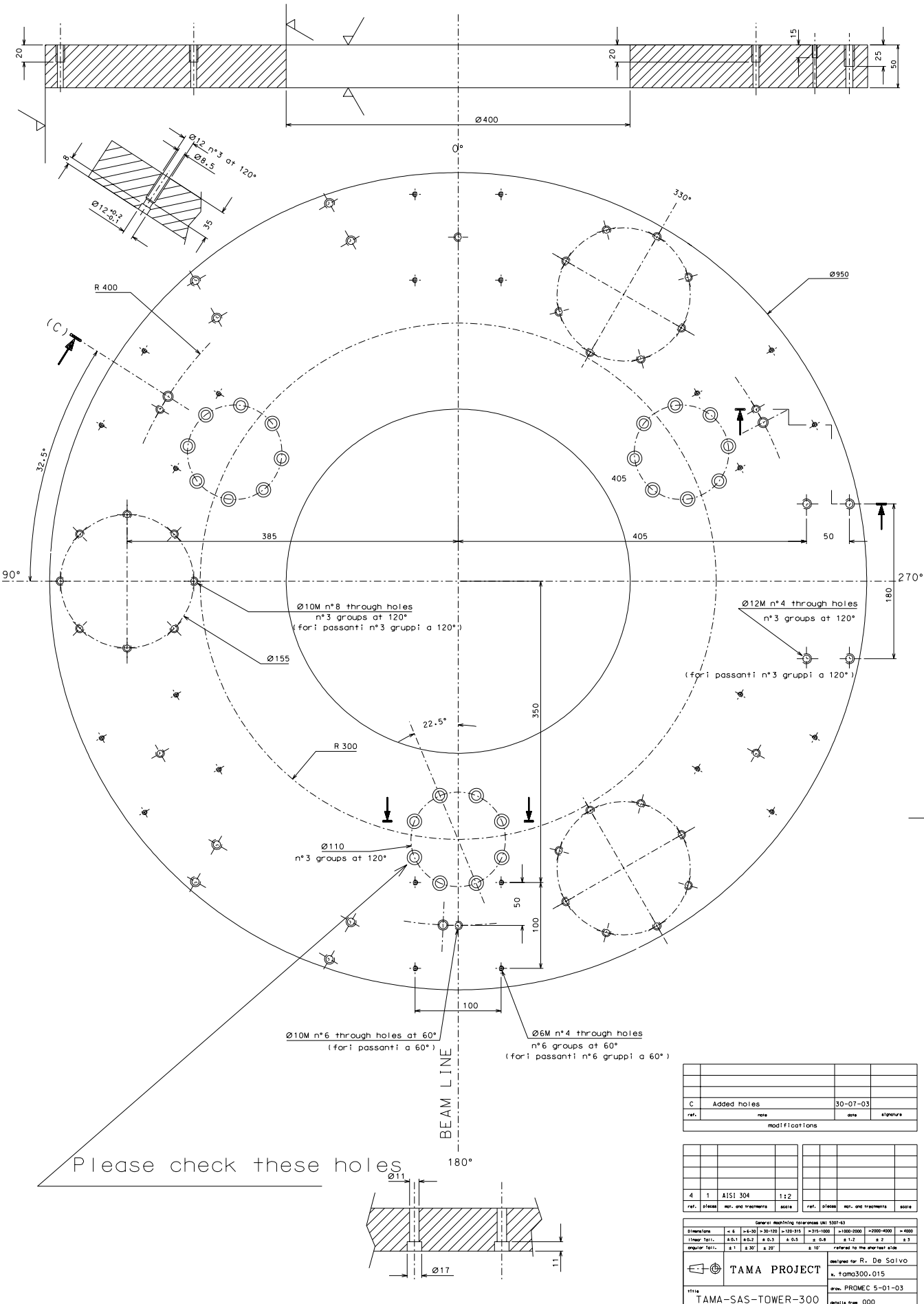
title
TAMA-SAS-TOWER-300
DETAIL

drw. PROMEC 5-01-03

details from 000

replaces dr. Numb.

A 1



ref.	note	date	signature
C	Added holes	30-07-03	
	modifications		

ref.	pieces	mat. and treatments	scale
4	1	AISI 304	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'		± 10'			

refered to the shortest side

TAMA PROJECT

designed for R. De Salvo

n. tama300.015

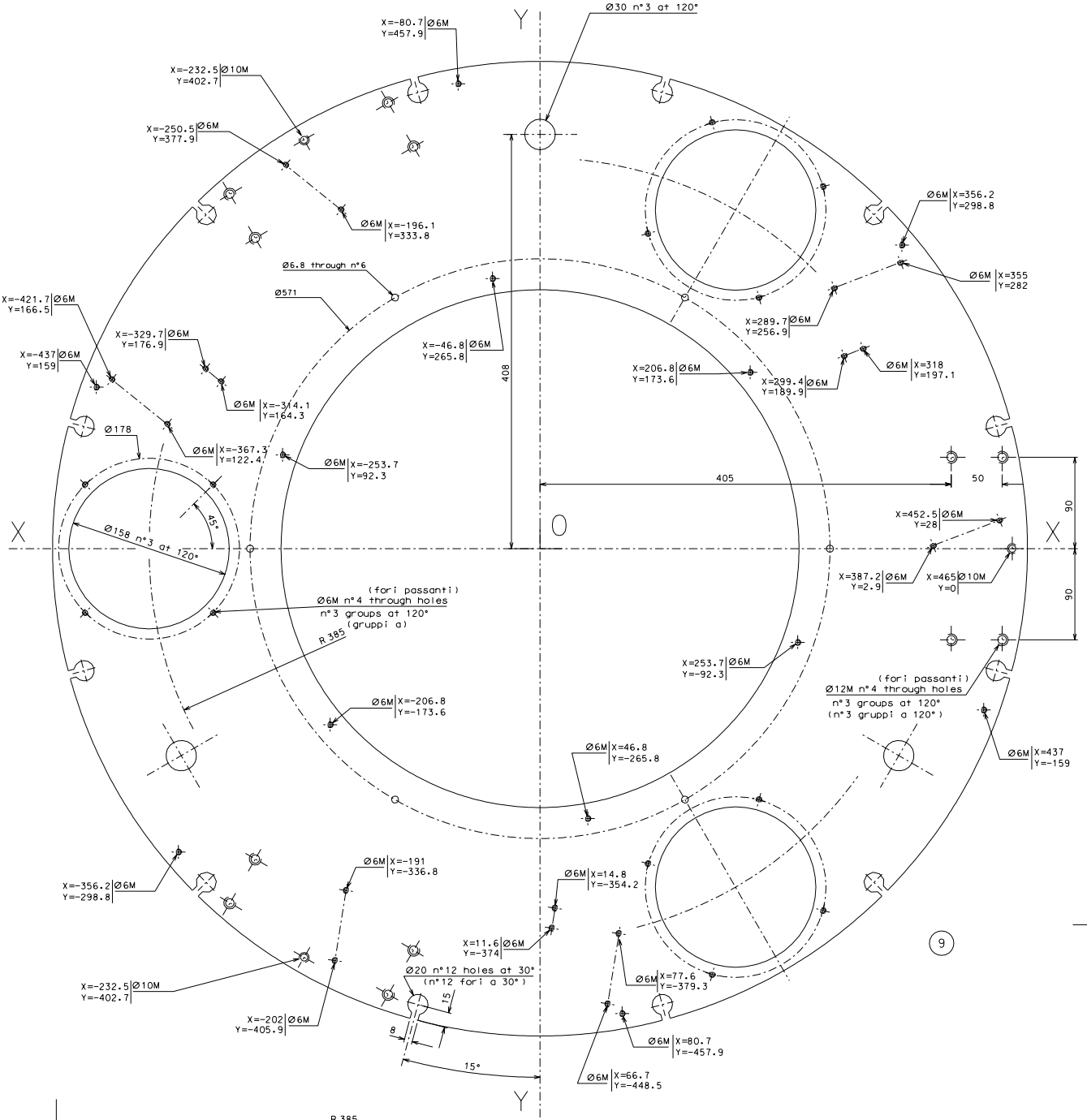
drw. PROMEC 5-01-03

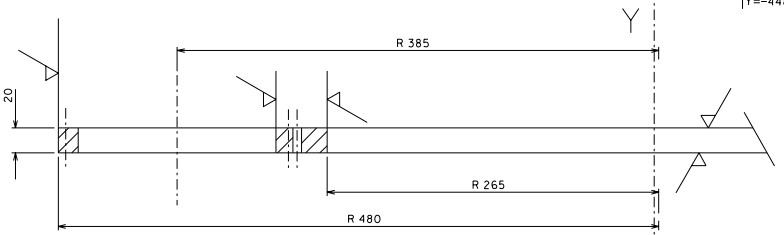
title
TAMA-SAS-TOWER-300
DETAIL

details from 000

replaces dr. Numb.

A 1



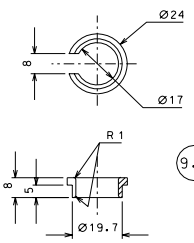


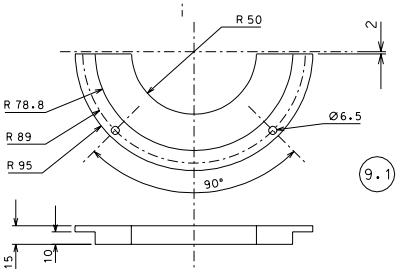
NOTE: ALL holes are through and tapped through
(tutti i fori filettati passanti)

ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
9.2	12	AISI 304	1:1
9.1	6	AISI 304	1:2
9	1	AISI 304	1:2

ref.	pieces	mat. and treatments	scale





General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'			

angular tol. ± 10' referred to the shortest side

TAMA PROJECT

designed for R. De Salvo

n. tama300.016

drw. PROMEC12-10-02

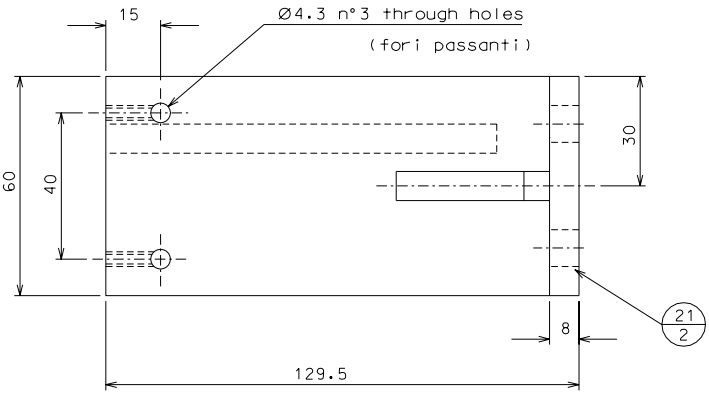
title TAMA-SAS-TOWER-300

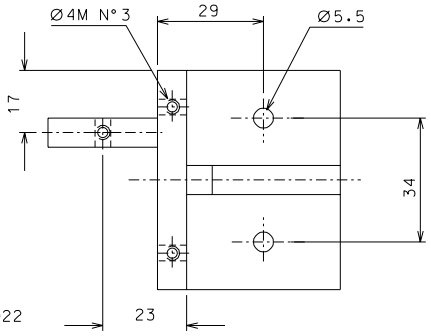
DETAIL

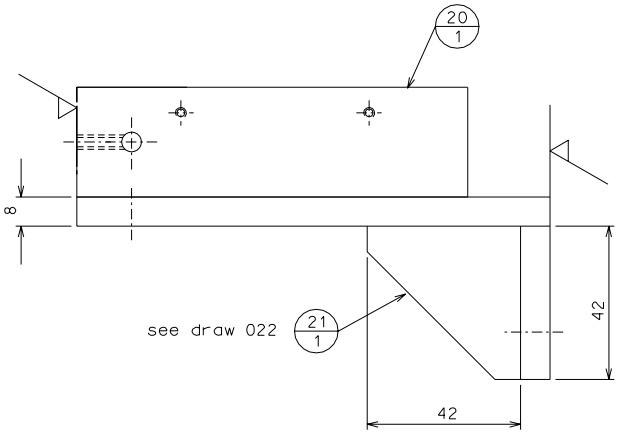
details from 000

replaces dr. Numb.

A 1

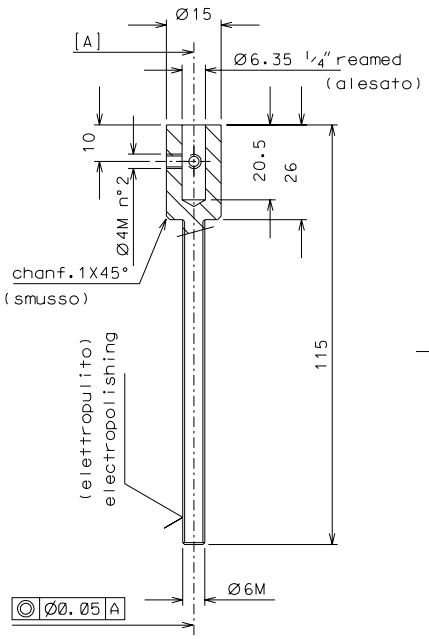




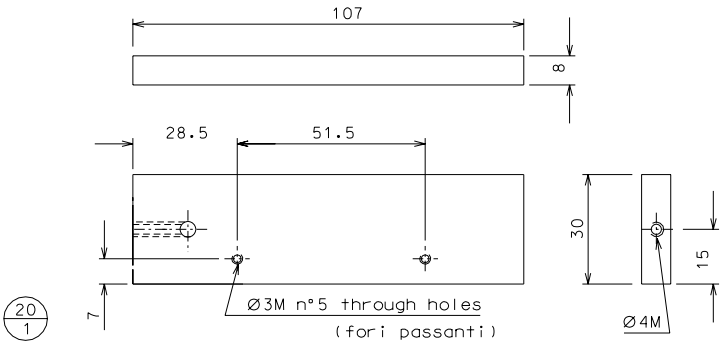


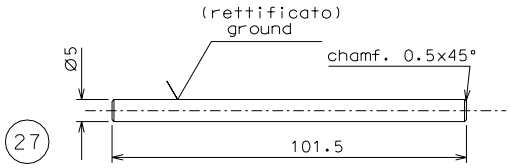
20 welded structure
(struttura saldata)

2 10-20 GTAW



28





ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
28	1	AISI 304	1:1
27	1	"	1:1
20.1	1	AISI 304 L	1:1
20	1	"	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. tama300.017

draw. PROMEC 12-10-02

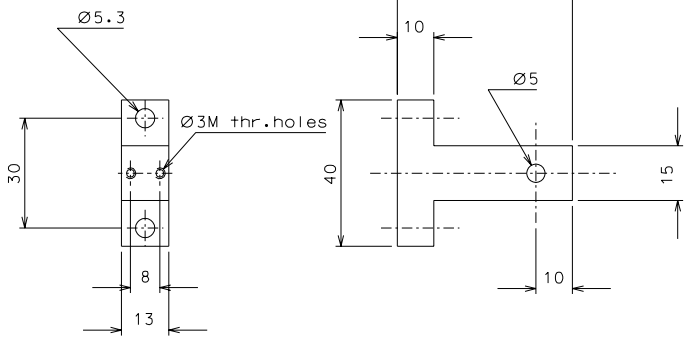
title TAMA-SAS-TOWER-300

DETAILS

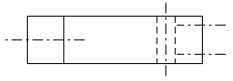
details from 001

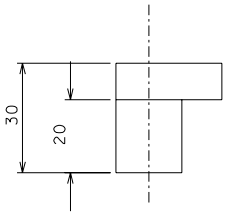
replaces dr. Numb.

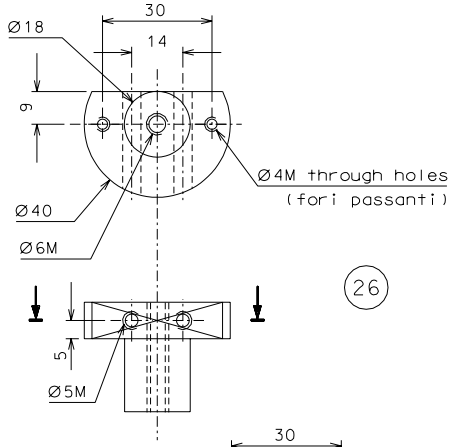
A 2



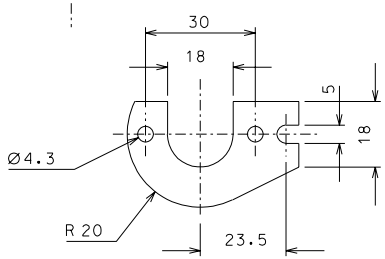
29

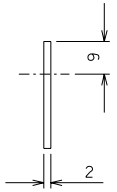




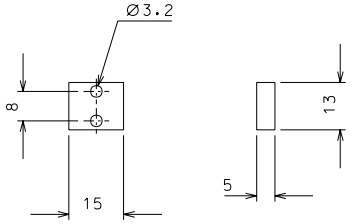


26

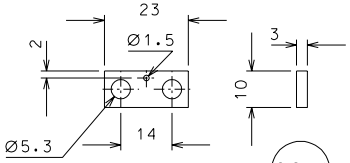




24



30



26.1

ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
29	3	AISI 304	1:1
26.1	1	bronze B14	1:1
26	1	peek	1:1
24	1	bronze B14	1:1
23		deleted	1:1

ref.	pieces	mat. and treatments	scale
30	3	AISI 304	1:1

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. tama300.018

drow. PROMEC12-10-02

details from 001

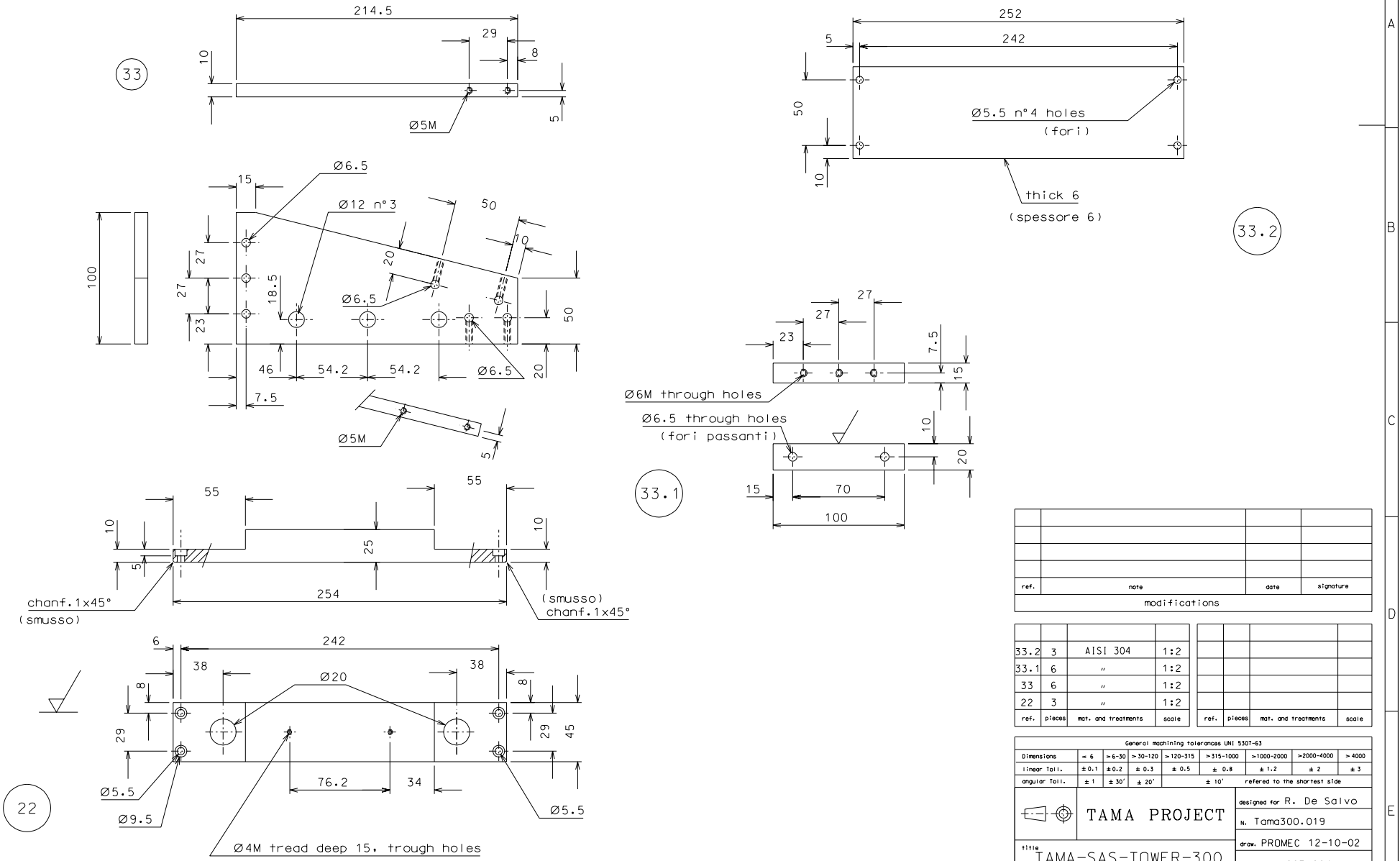
replaces dr. Numb.

A 2

title

TAMA-SAS-TOWER-300

DETAILS



ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
33.2	3	AISI 304	1:2
33.1	6	"	1:2
33	6	"	1:2
22	3	"	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.019

drow. PROMEC 12-10-02

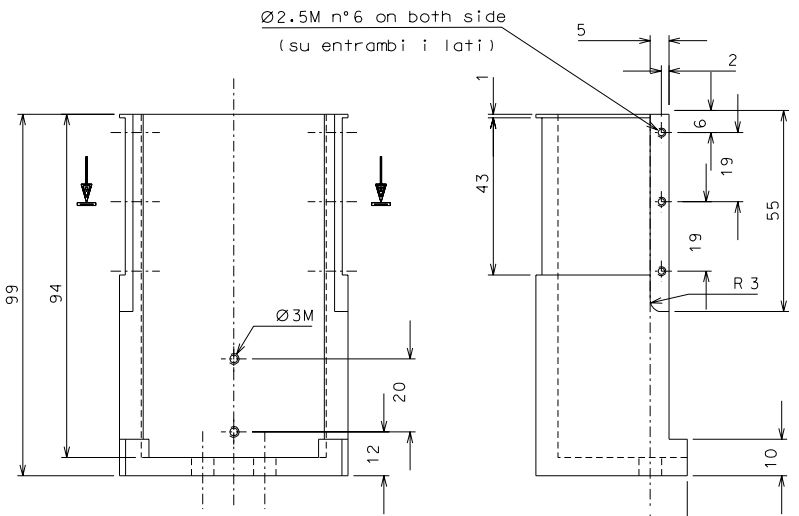
details from 003-004

title TAMA-SAS-TOWER-300

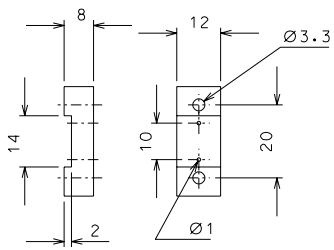
DETAILS

replaces dr. Numb.

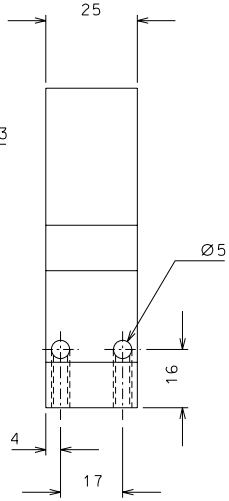
A 2

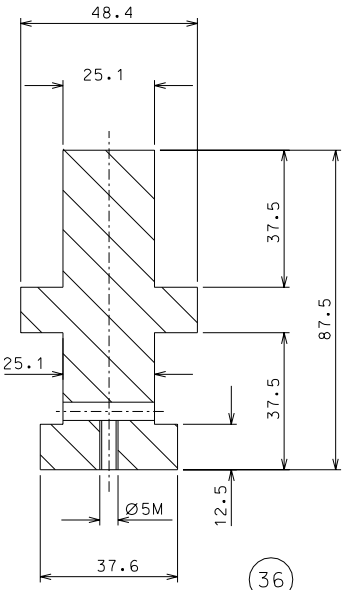


38

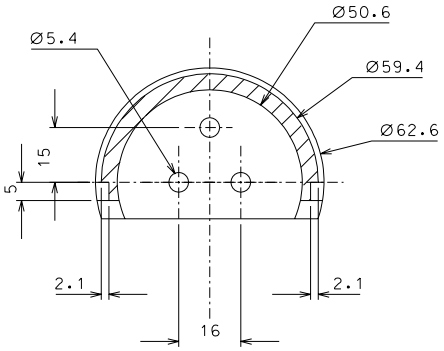


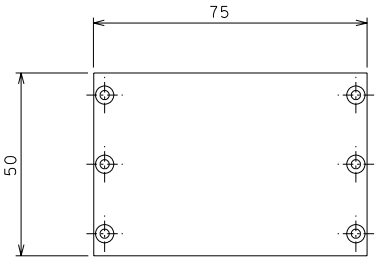
38.1



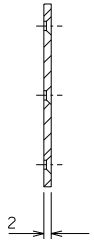


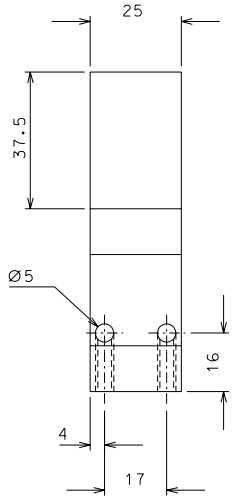
36

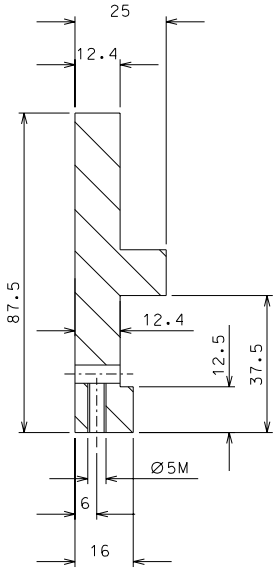




34







35

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
38.1	6	peek	1:1
38	6	AISI 304	1:1
36	3	ARMCO steel	1:1
35	6	"	1:1
34	6	peek	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. tama300.020

drow. PROMEC13-10-02

details from 005

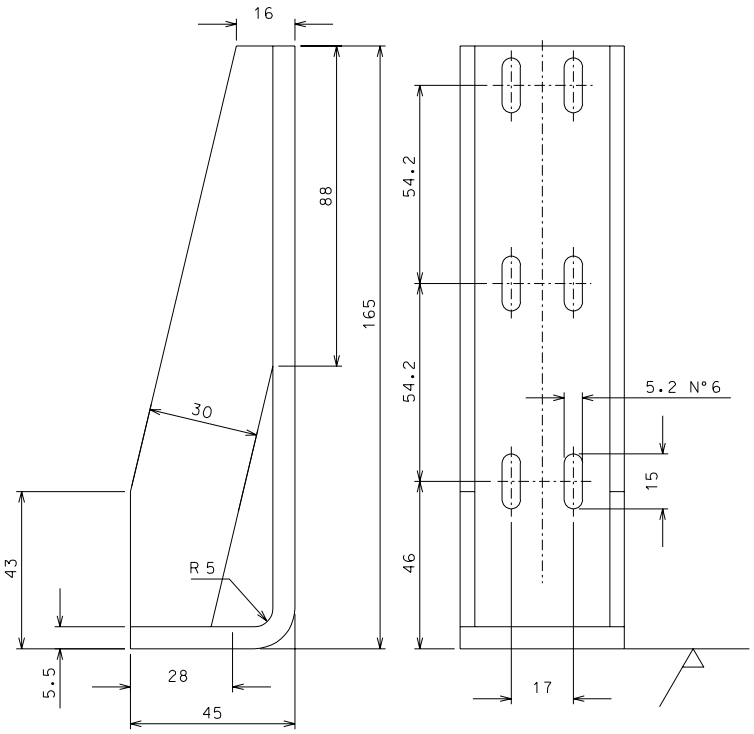
replaces dr. Numb.

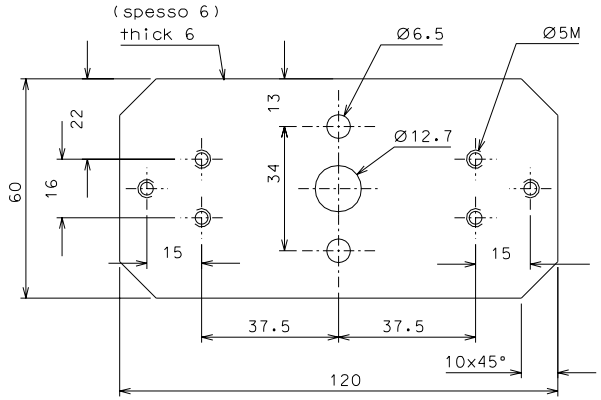
A 2

title

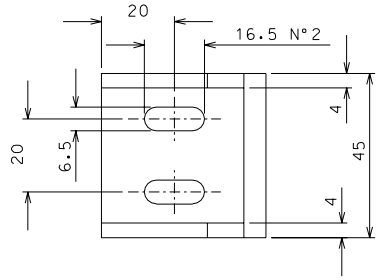
TAMA-SAS-TOWER-300

DETAILS





(31)



(37)

ref.	note	date	signature

modifications

37	3	AISI 304 L	1:1
31	3	AISI 304	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. tama300.021

drow. PROMEC13-10-02

details from 005

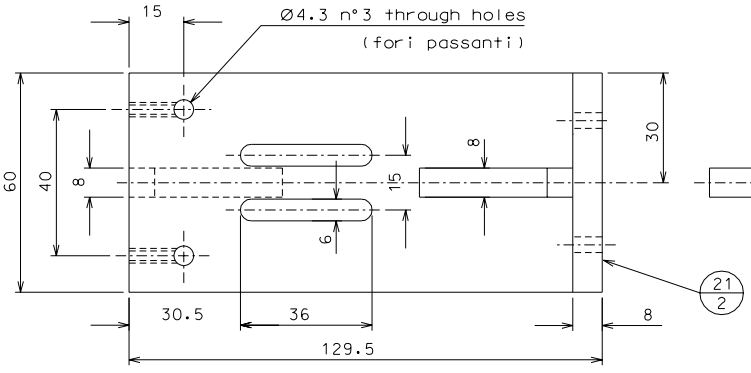
replaces dr. Numb.

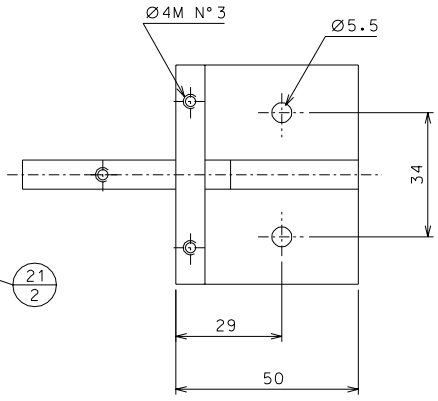
A 2

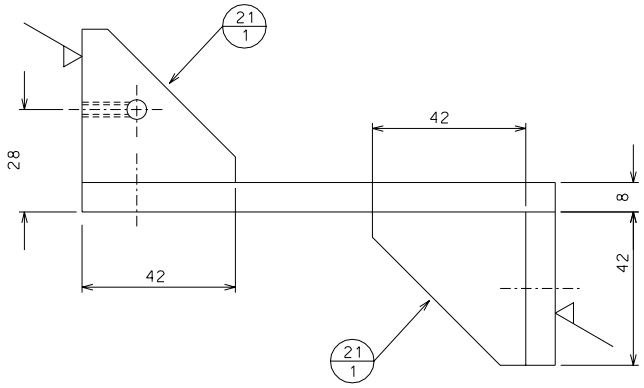
title

TAMA-SAS-TOWER-300

DETAILS

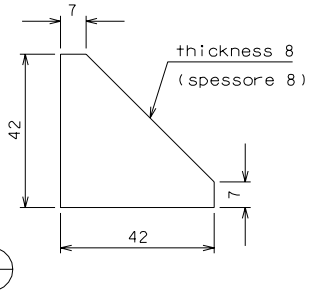


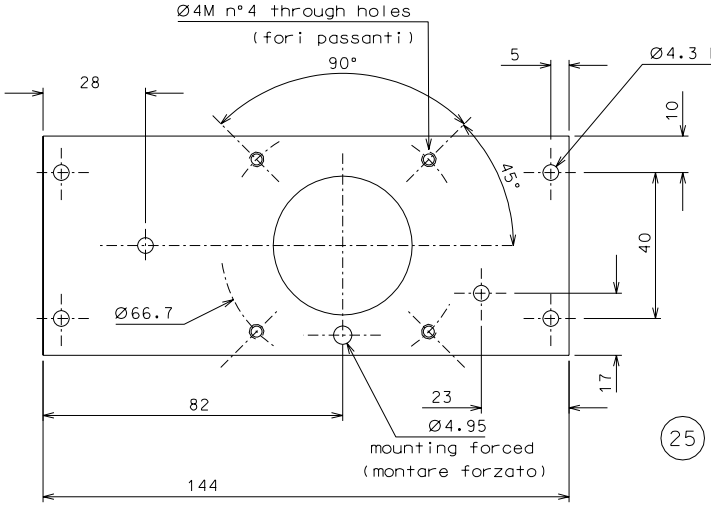


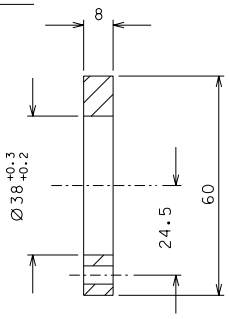


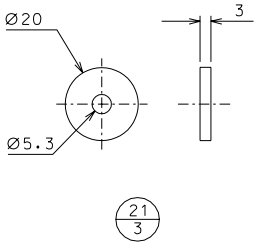
21 welded structure
(struttura saldata)

2 V 10-20 GTAW



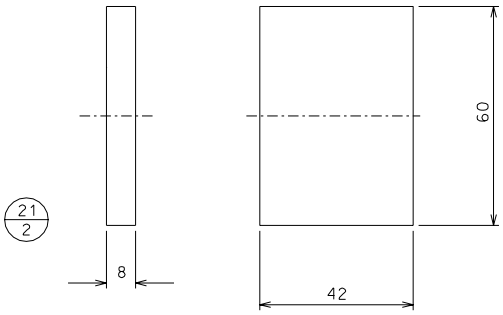






ref.	note	date	signature

modifications



ref.	pieces	mat. and treatments	scale
25	1	AISI 304 L	1:1
21.3	4	"	1:1
21.2	2	"	1:1
21.1	3	"	1:1
21	1	"	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. tama300.022

draw. PROMEC13-10-02

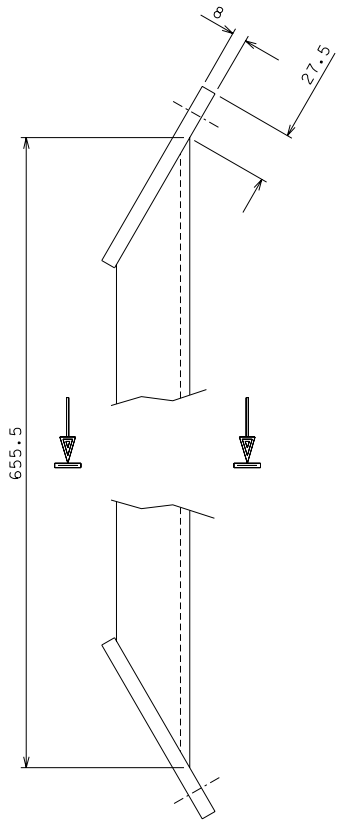
title TAMA-SAS-TOWER-300

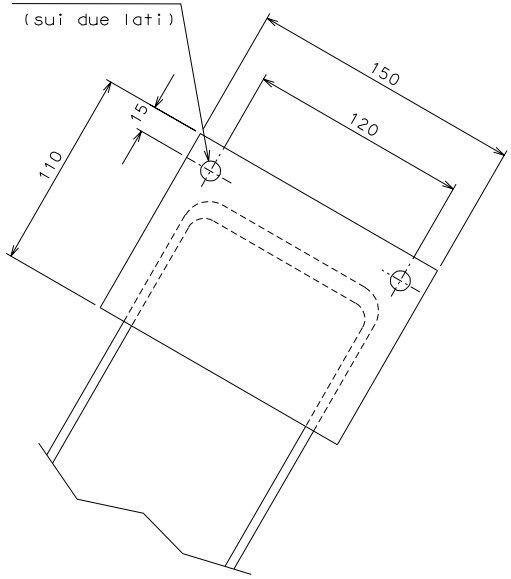
DETAILS

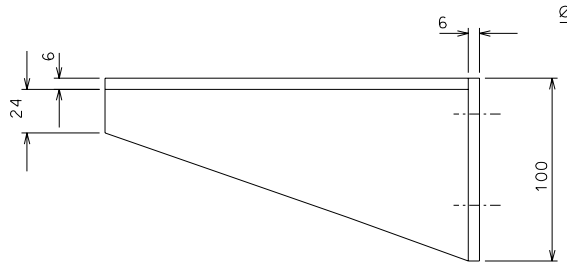
details from 001

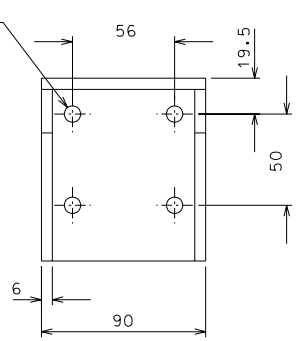
replaces dr. Numb.

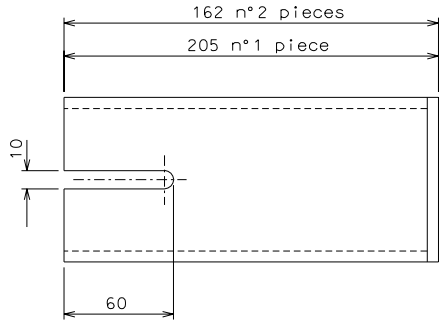
A 2



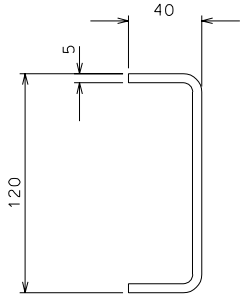




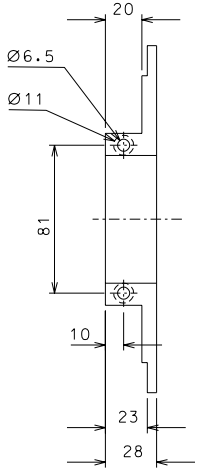


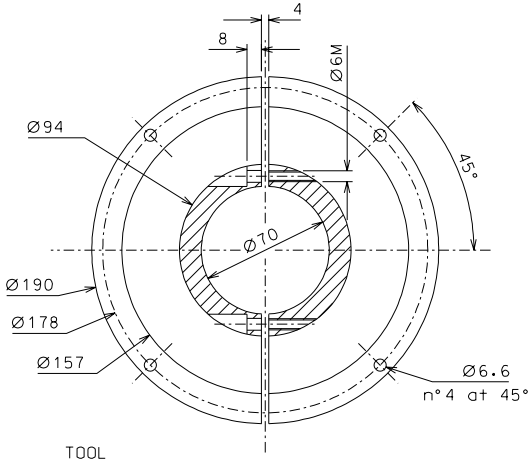


1 welded structure
(struttura saldata)



32 welded structure
(struttura saldata)





TOOL

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
TOOL	3	AISI 304	1:2
32	3	AISI 304 L	1:2
1	3	"	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.023

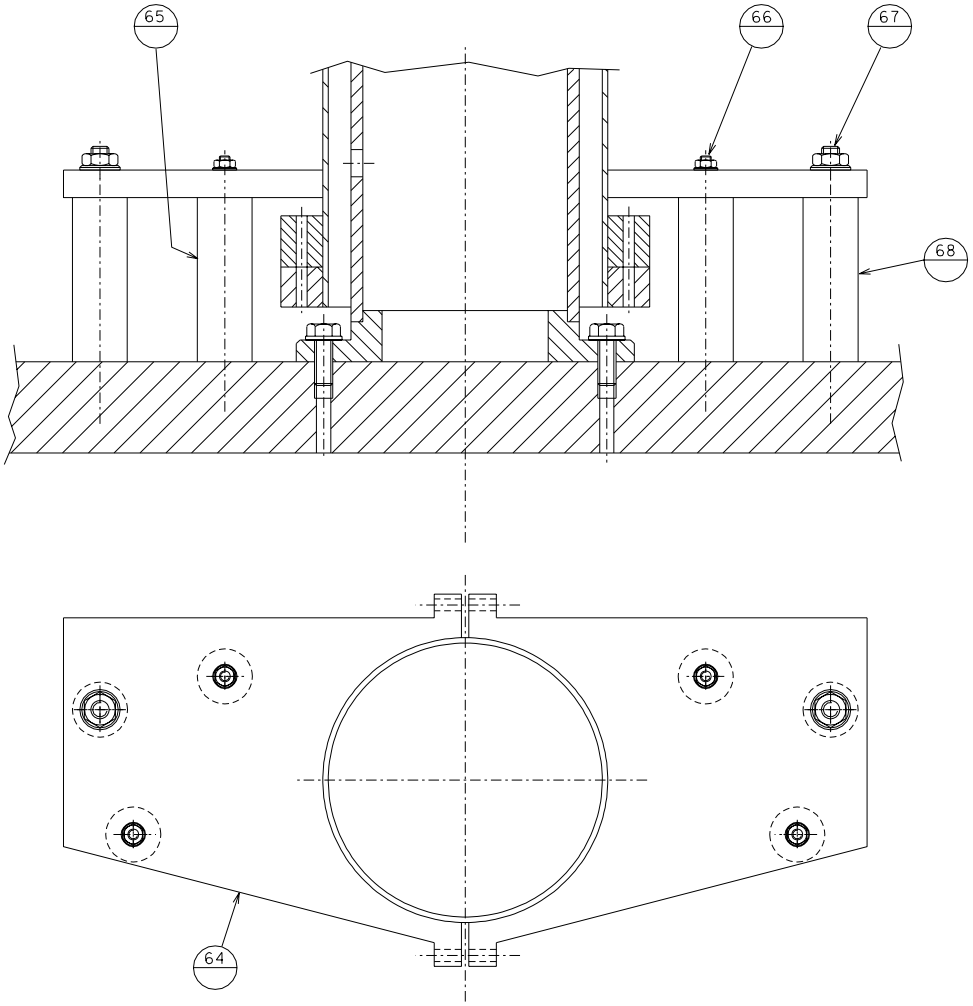
drow. PROMEC 5-01-03

details from 000-002

replaces dr. Numb.

A 2

title
TAMA-SAS-TOWER-300
DETAIL



ref.	note	date	signature

modifications

68	042	space
67	042	joint pin
66	042	joint pin
65	042	space
64	042	clamp
ref.	draw.	added legend

ref.	draw.	added legend

detail	type	n°piec.

Screw's table

TAMA PROJECT

designed for R. De Salvo

ass. numb. Tama31.041

draw. PROMEC 22-12-00

scale 1:2

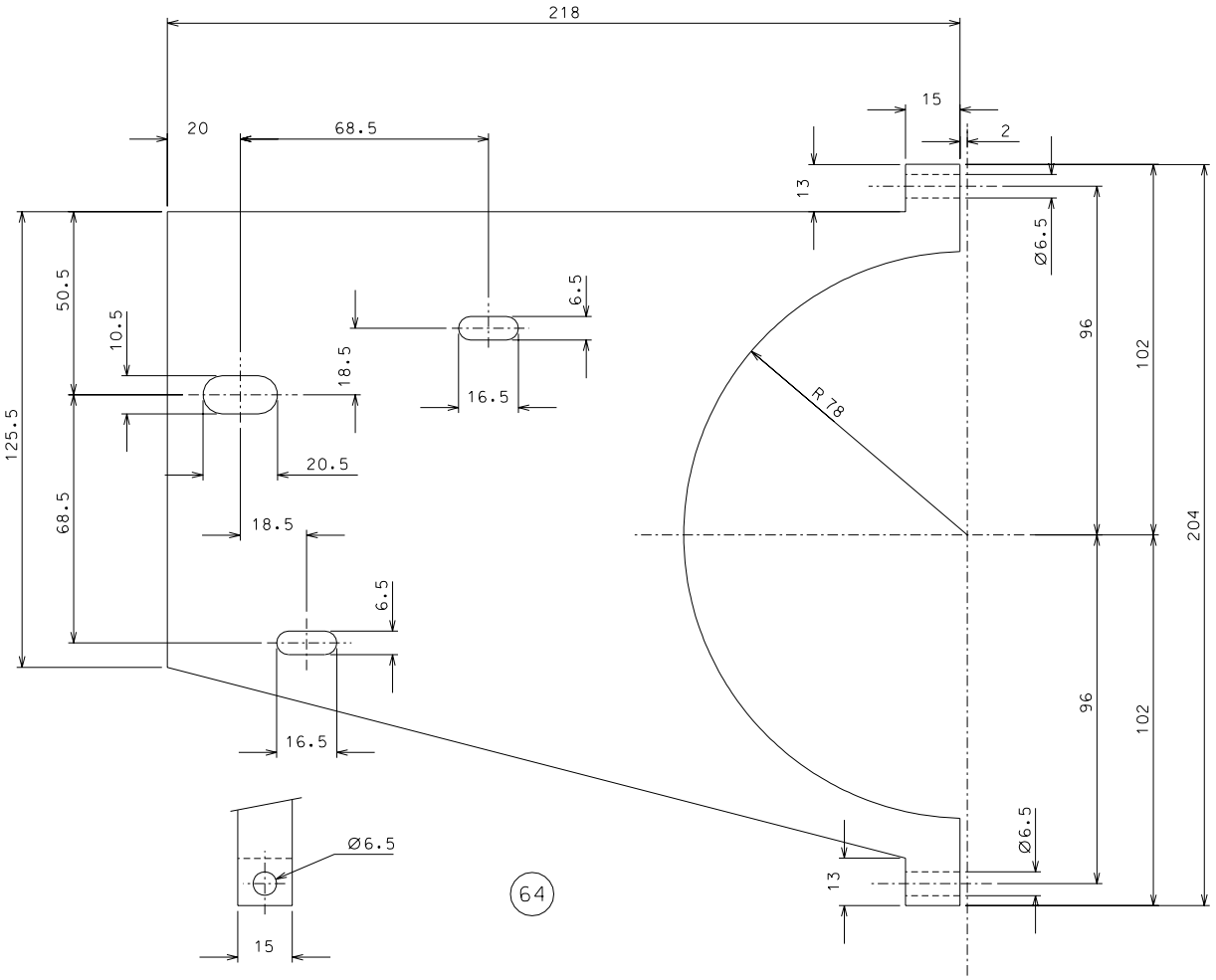
replaces dr. Numb.

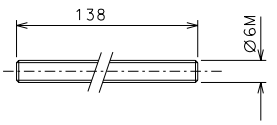
A 2

title

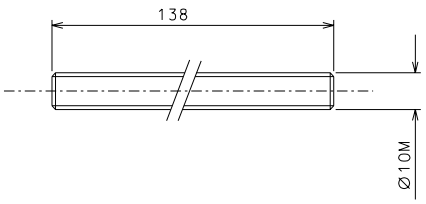
TAMA-SAS-TOWER-3

ASSEMBLY CLAMP

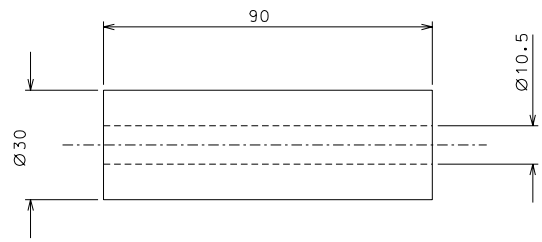




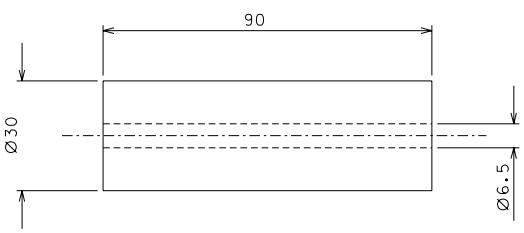
66



67



68



65

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
68	6	UNI 9006/4	1:1
67	6	stailess steel	1:1
66	12	stailess steel	1:1
65	12	UNI 9006/4	1:1
64	6	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.042

draw. PROMEC 13-10-02

title

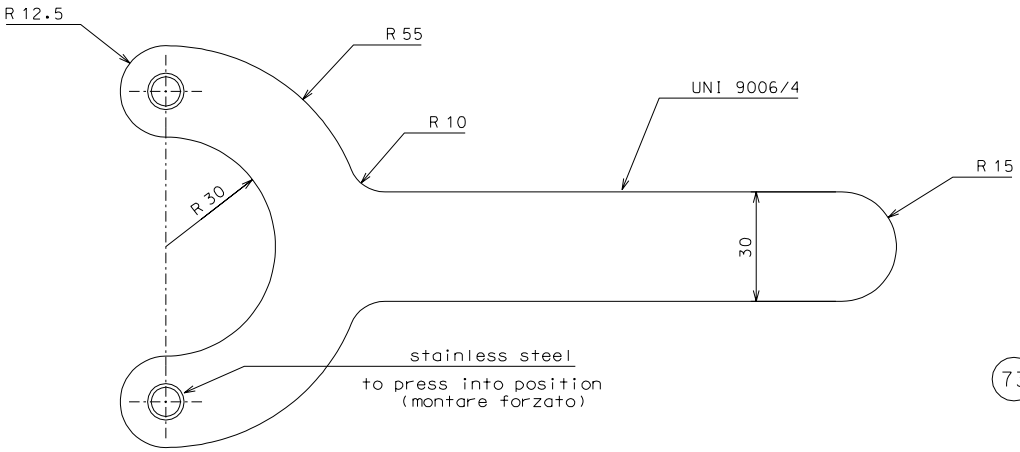
TAMA-SAS-TOWER-300

CLAMPS

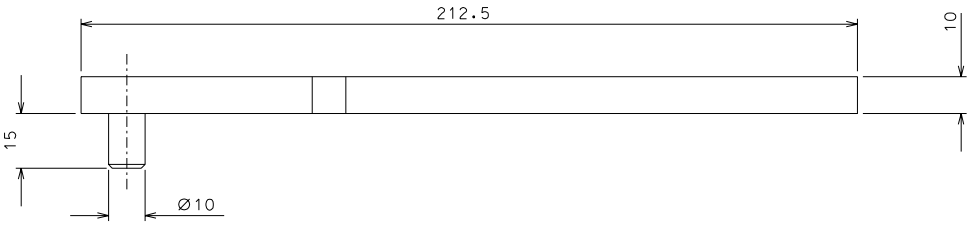
details from

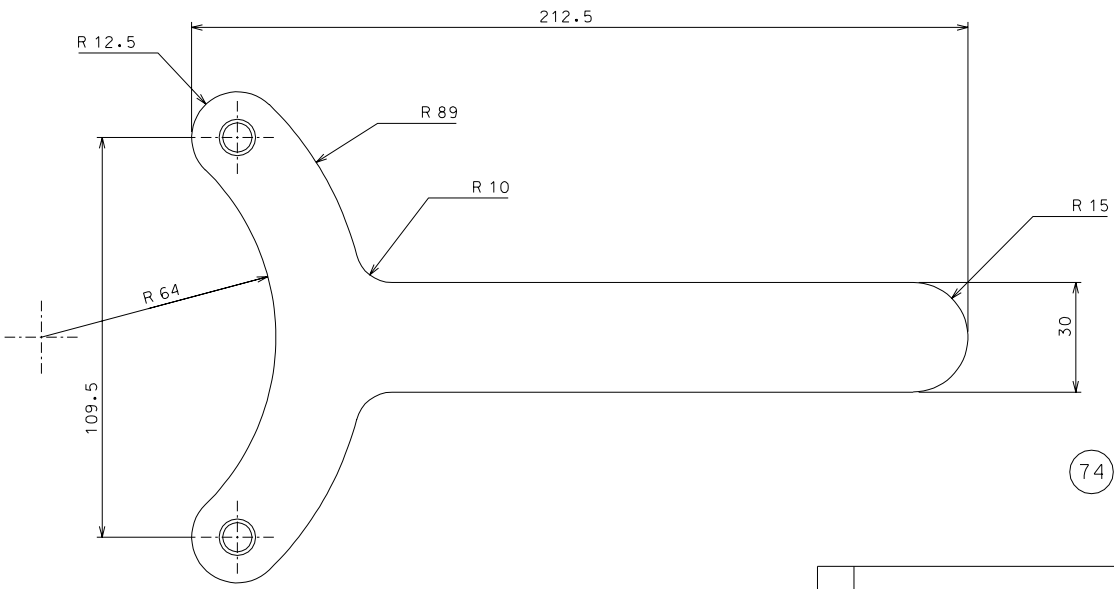
replaces dr. Numb.

A 2

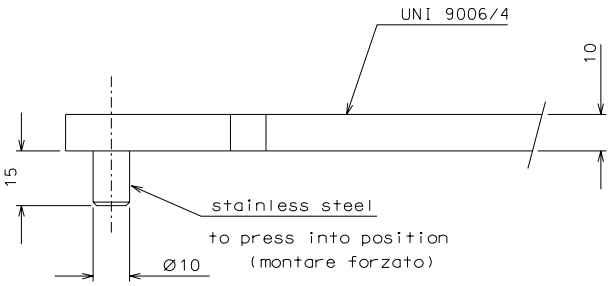


73





74



ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
74	2	UNI 9006/4	1:1
73	2	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. Tama300.043

draw. PROMEC 13-10-02

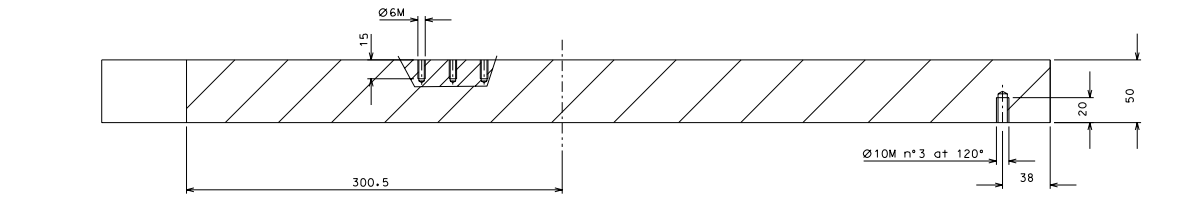
title TAMA-SAS-TOWER-300

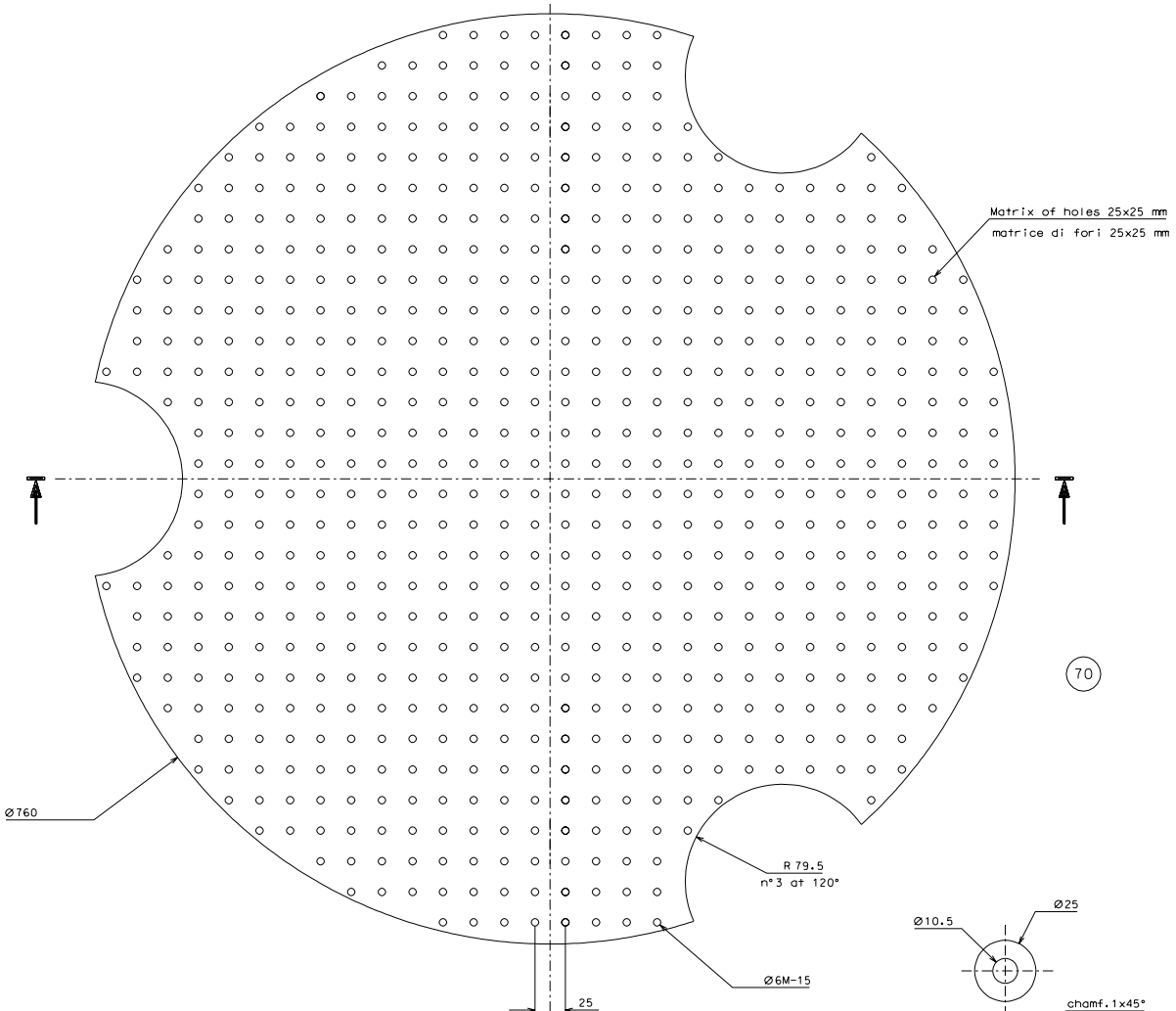
DETAILS

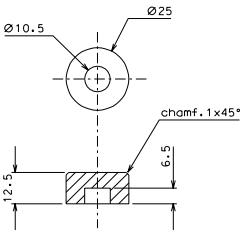
details from

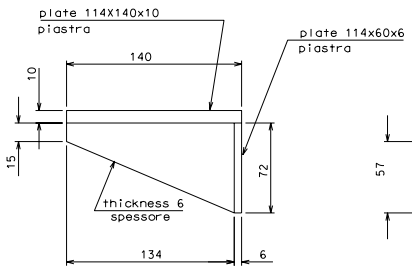
replaces dr. Numb.

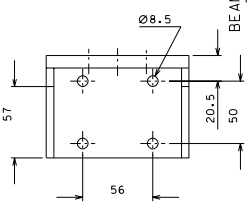
A 2

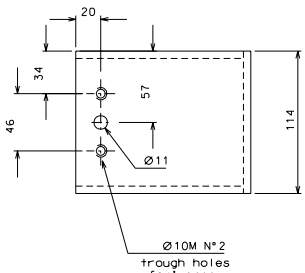












(40) welded structure
dettaglio saldato

ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
40.1	6	AISI 304	1:1
40	3	AISI 304	1:2
70	1	UNI 9006/4	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'	referred to the shortest side		

TAMA PROJECT

designed for R. De Salvo

n. tama300.047

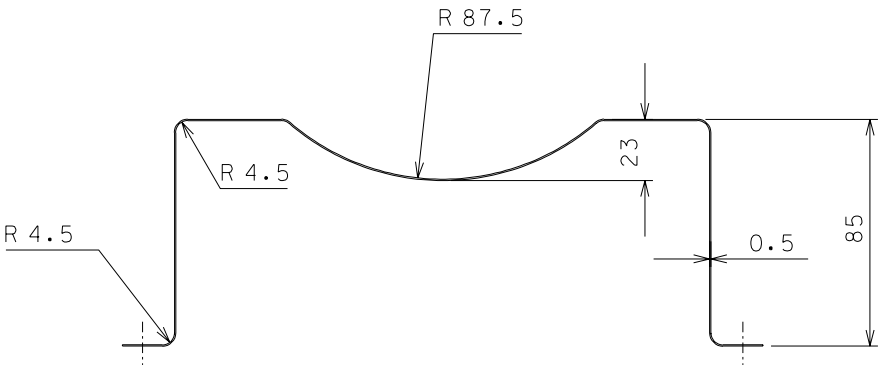
dwg. PROMEC13-10-02

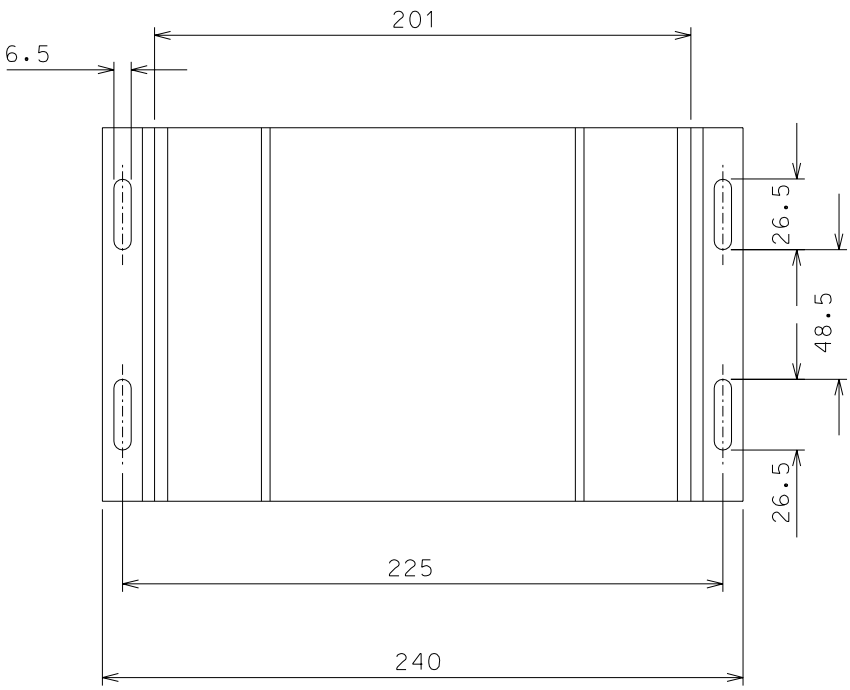
details from 001

replaces dr. Numb.

A 1

title
TAMA-SAS-TOWER-300
OPTICAL SHEET





81	1	AISI 304	1:2
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

title
TAMA-SAS-TOWER-300
MIRROR'S SADDLE

designed for R. De Salvo

N. tama300.048

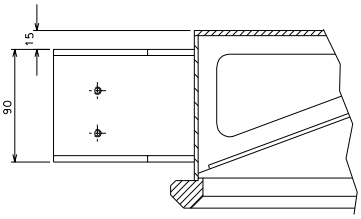
draw. PROMEC 10-11-02

details from 000

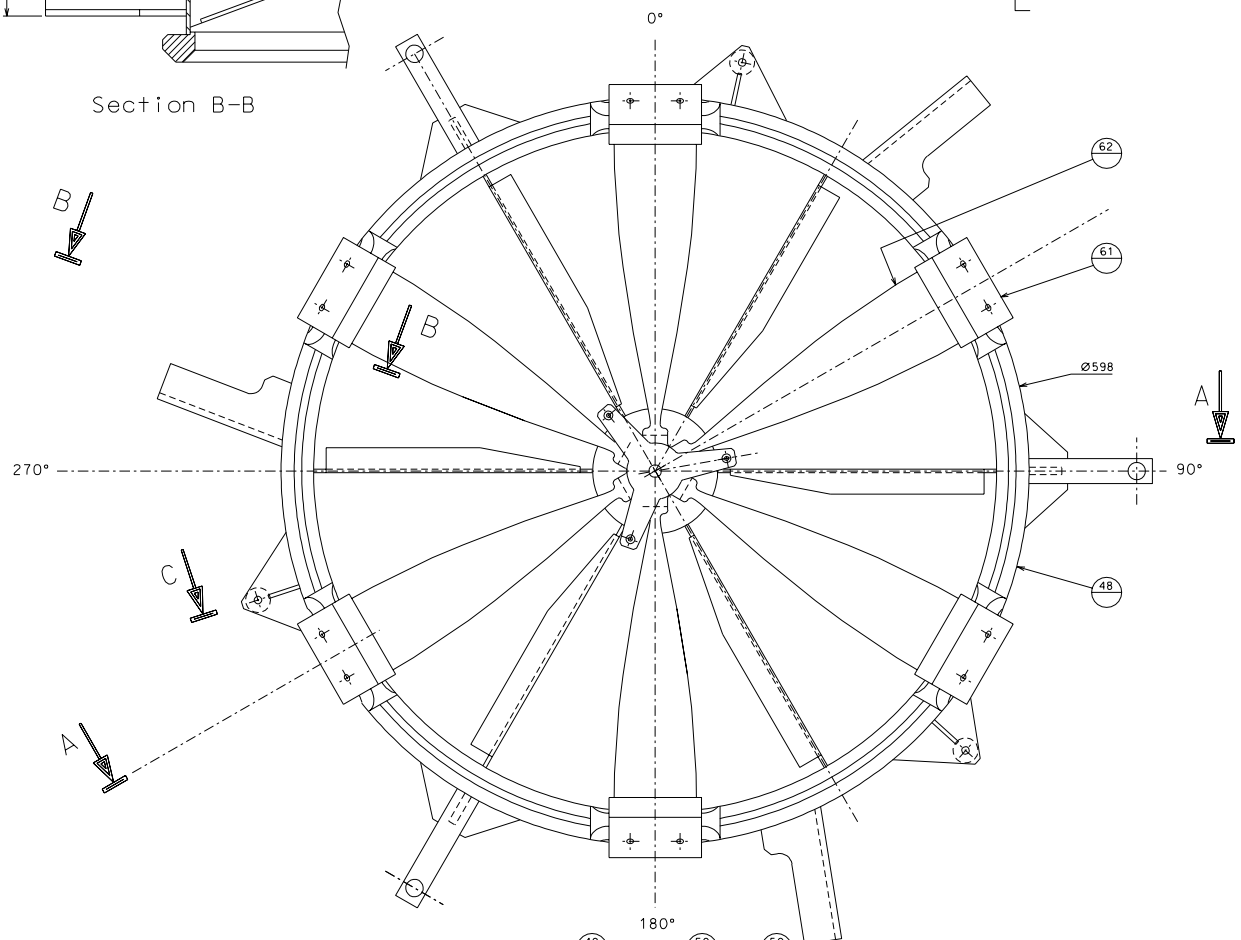
replaces dr. Numb.

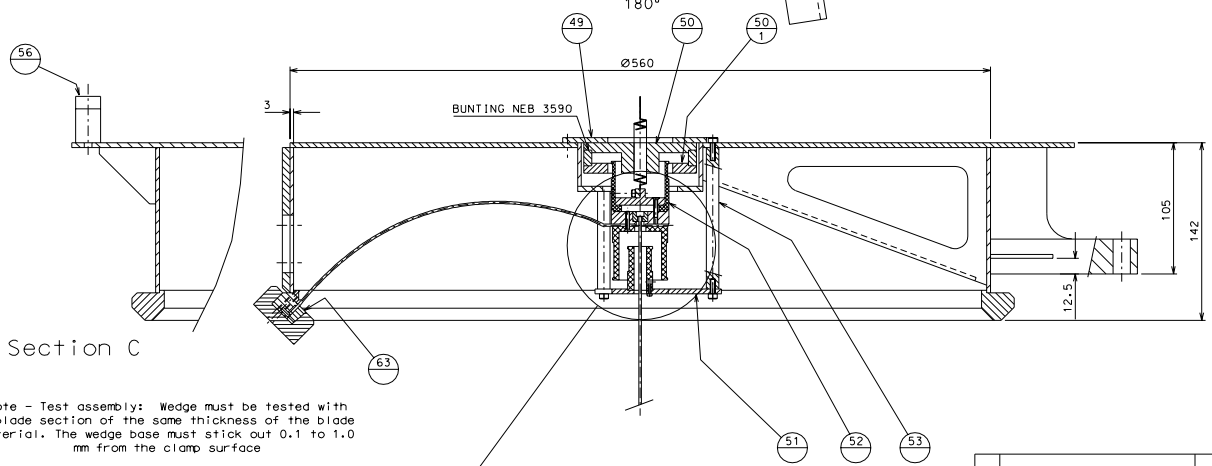
59-51	flat fillister head M2.5x8	3
58-57	flat head M3x16	3
56	allen stand. cocket M4x16	12
55-57	flat head M3x16	3
54-55	allen stand. cocket M3x10	2
51-53	allen stand. cocket M4x12	6
49-50	allen stand. cocket M4x10	4
49	allen stand. cocket M6x12	3
detail	type	n°piec.

Screw's table



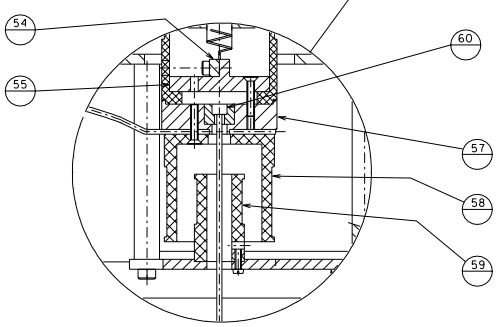
Section B-B





Section C

Note - Test assembly: Wedge must be tested with a blade section of the same thickness of the blade material. The wedge base must stick out 0.1 to 1.0 mm from the clamp surface



ref.		note	date		signature

modifications

55	027	spring holder	63	029	wedge
54	027	spring clamp	62	032	blade
53	026	safety stand	61	029	blade's clamp
52	027	coil spool	60	027	1/2 cups
51	026	safety ring	59	027	LVDT primary
50.1	029	magnet	58	027	LVDT secondary
50	029	magnet	57	027	1/2 cup retainer
49	031	magnet support	56	026	spring's clamp
48	028	blade's ring			
ref.	draw.	added legend	ref.	draw.	added legend

LIGO PROJECT

designed for R. De Salvo

ass. numb. Tama300.008

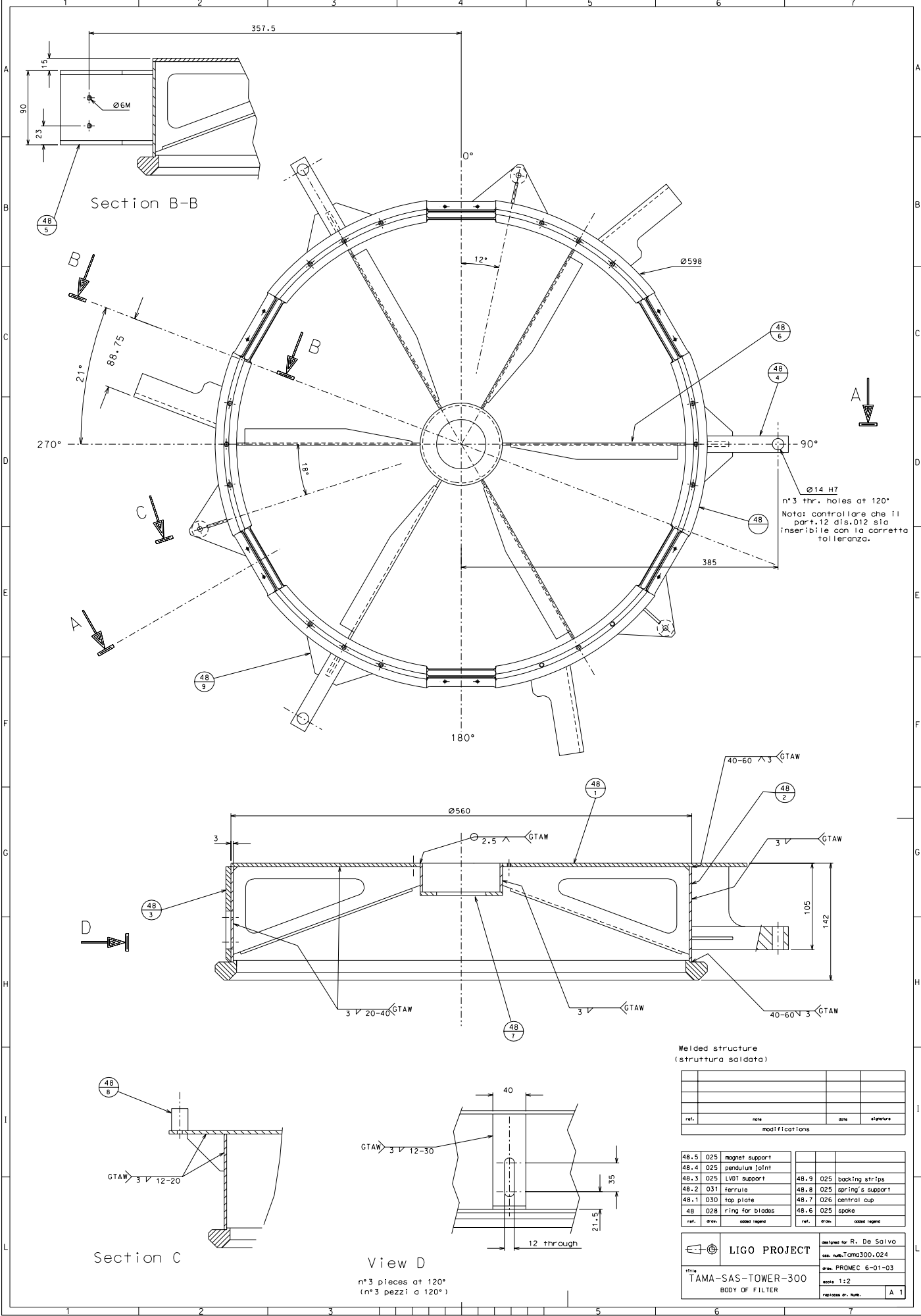
dran. PROMEC 6-01-03

title
TAMA-SAS-TOWER-300
SMALL TOP FILTER

scale 1:2

replaces dr. numb.

A 1



ref.	note	date	signature
	modifications		

48.5	025	magnet support			
48.4	025	pendulum joint			
48.3	025	LVDT support	48.9	025	backing strips
48.2	031	ferrule	48.8	025	spring's support
48.1	030	top plate	48.7	026	central cup
48	028	ring for blades	48.6	025	spoke
ref.	draw.	added legend	ref.	draw.	added legend

LIGO PROJECT

designed for R. De Salvo

cass. num. Tama300.024

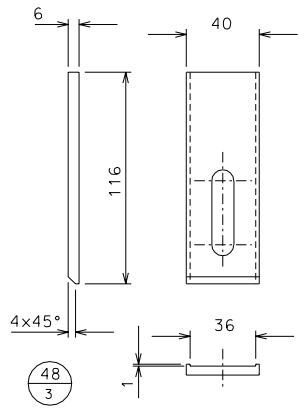
title: TAMA-SAS-TOWER-300
BODY OF FILTER

draw. PROMEC 6-01-03

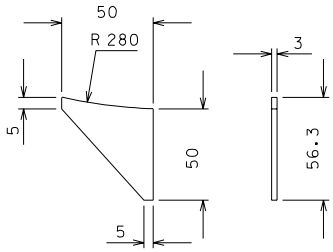
scale 1:2

replaces dr. Numb.

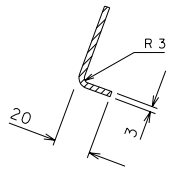
A 1

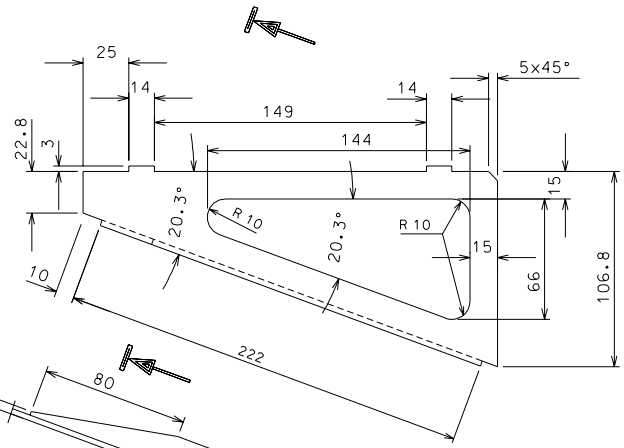


48/3

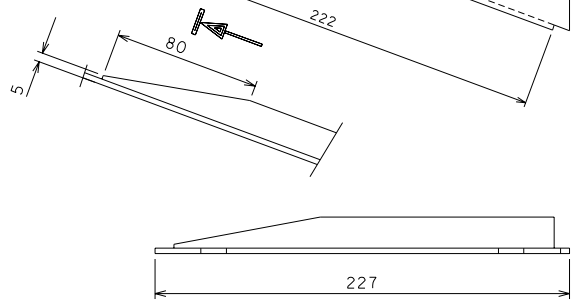


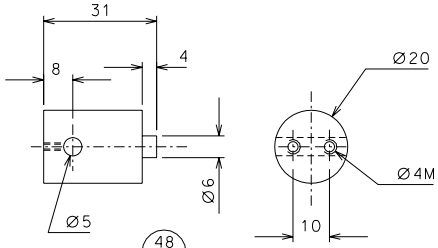
48/9



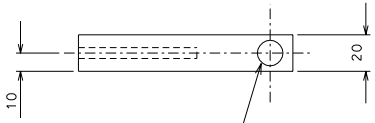


48/6

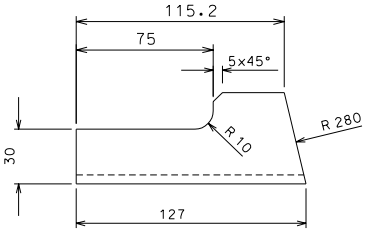


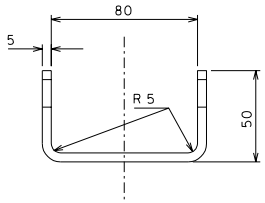


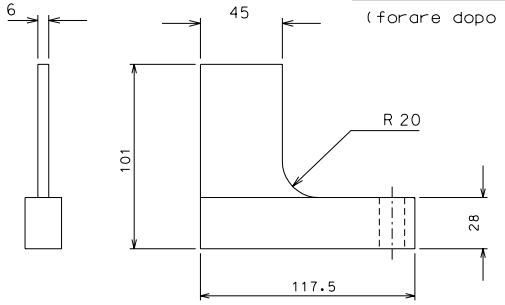
48/8



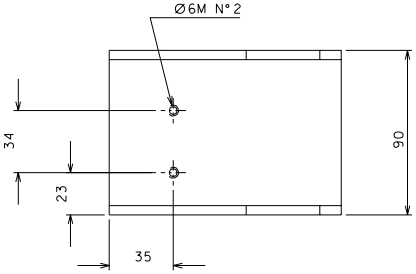
to drill after welding
(forare dopo saldato)







48/4



48/5

ref.	note	date	signature

modifications

48.8	6	AISI 304 L	1:1
48.6	6	"	1:2
48.5	3	"	1:2
48.4	3	"	1:2
48.3	3	"	1:2
ref.	pieces	mat. and treatments	scale

48.9	6	AISI 304 L	1:2
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	≤ 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.025

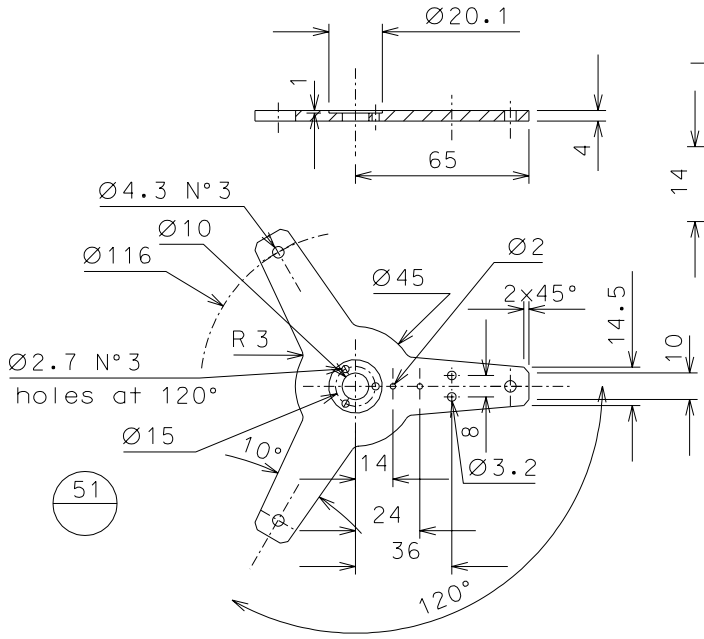
drw. PROMEC 15-10-02

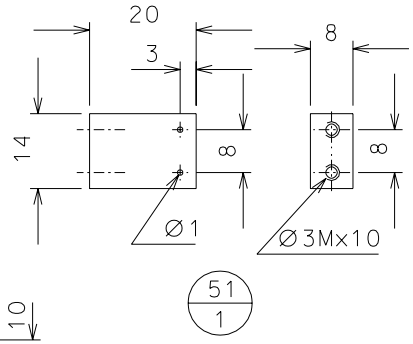
title
TAMA-SAS-TOWER-300
DETAILS

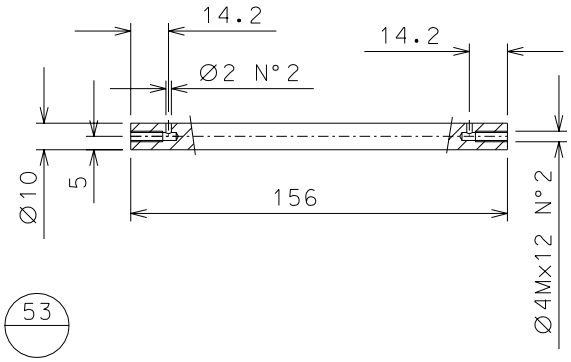
details from 024

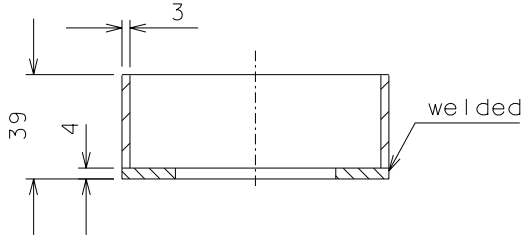
replaces dr. Numb.

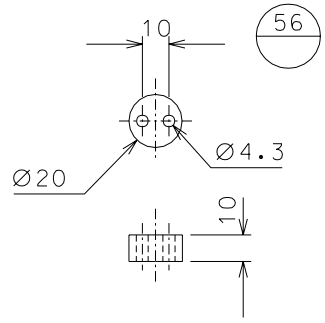
A 2

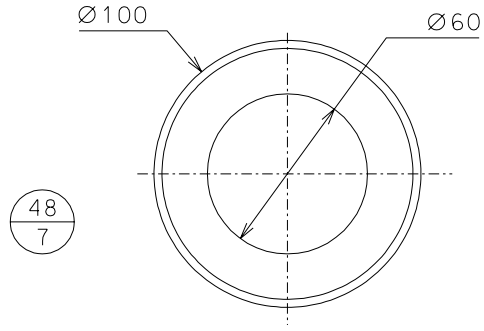












ref.	note	date	signature
modifications			

56	6	AISI 304	1:2
53	3	AISI 304	1:2
51.1	1	peek	1:1
51	1	AISI 304	1:2
48.7	1	AISI 304 L	1:2
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.026

draw. PROMEC 15-10-02

details from 008-024

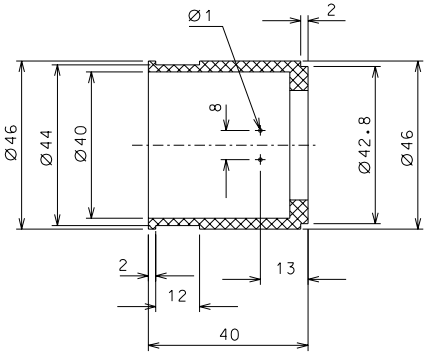
replaces dr. Numb.

A 3

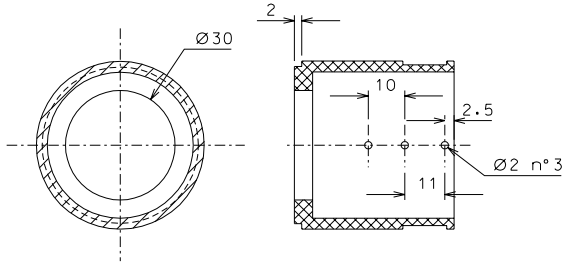
title

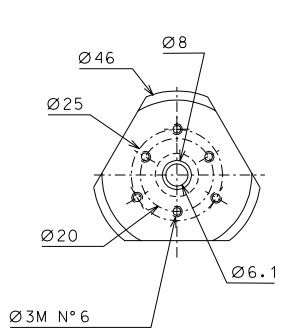
TAMA-SAS-TOWER-300

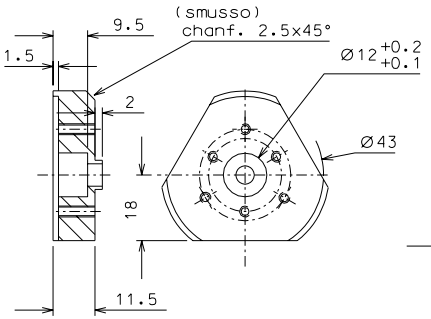
DETAILS



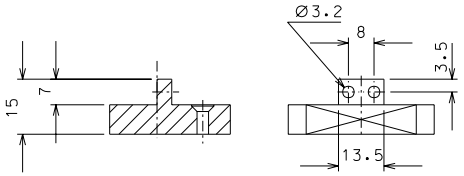
52 use tool n°86, 86.1

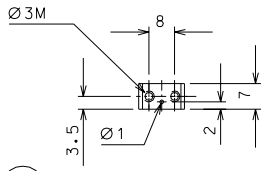




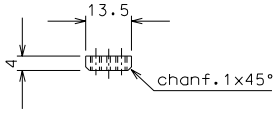


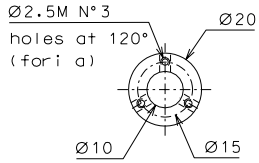
57

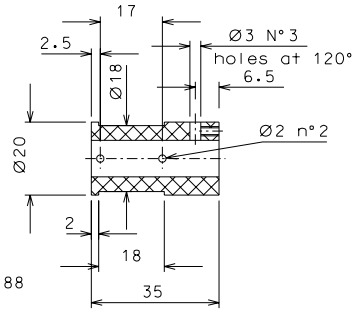




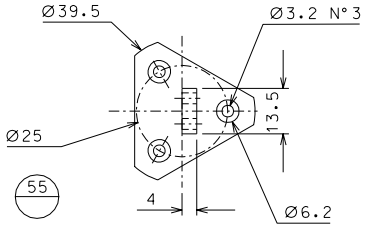
54



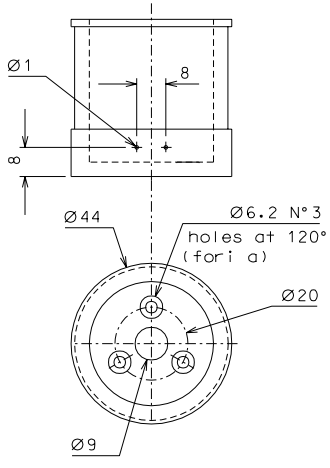


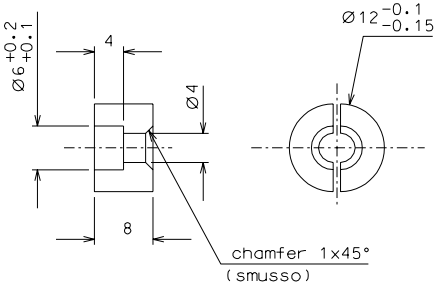


59 use tool n°88

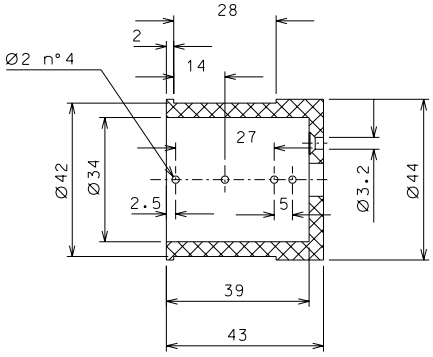


55





60 light nickel plated
(nichelatura leggera)



58 use tool n°87

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
57	1	AISI 304	1:1
55	1	"	1:1
54	1	"	1:1
52	1	peek	1:1

ref.	pieces	mat. and treatments	scale
60	1	maraging	2:1
59	1	peek	1:1
58	1	"	1:1

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.027

drow. PROMEC 15-10-02

details from 008

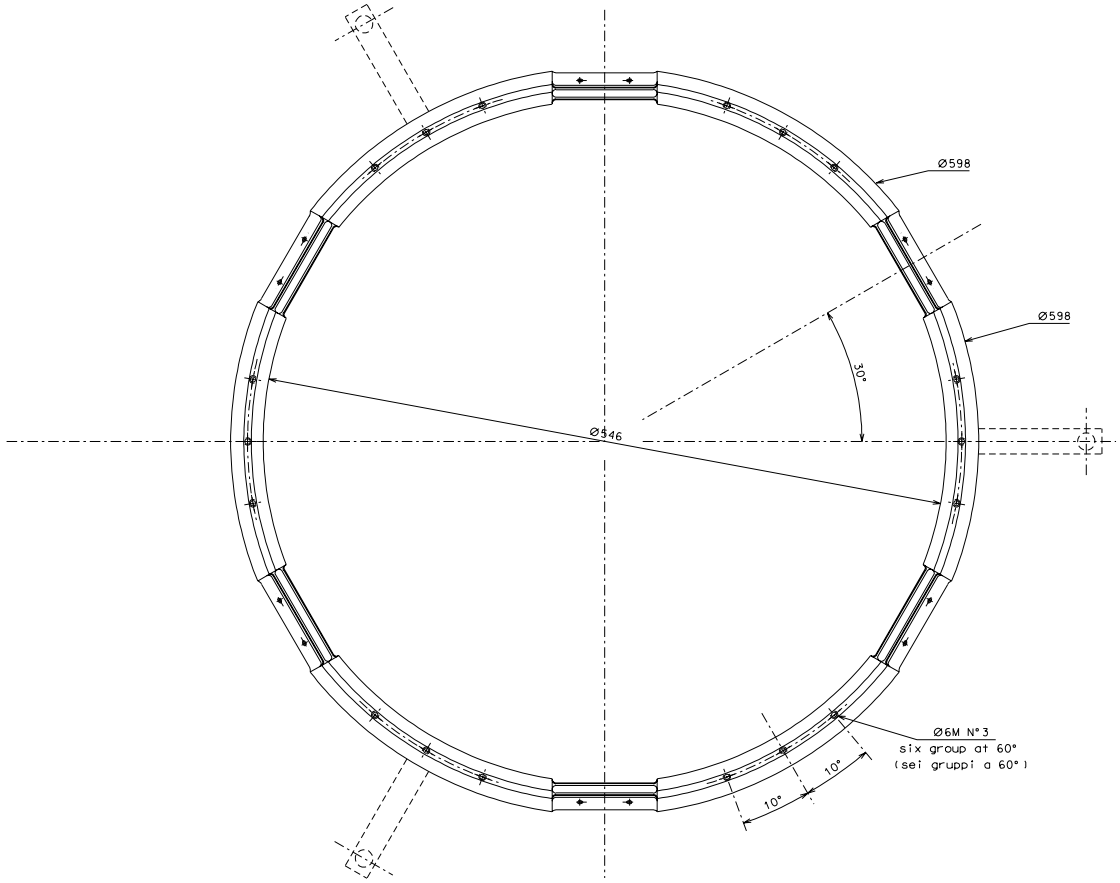
replaces dr. Numb.

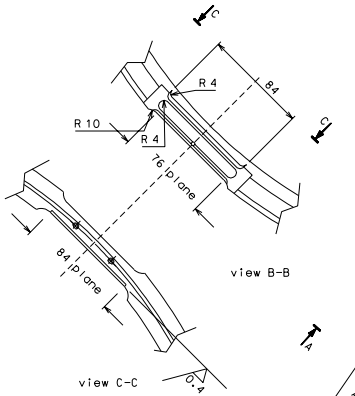
A 2

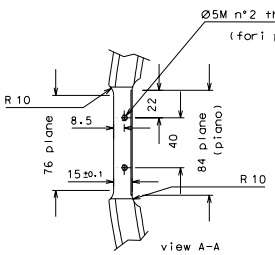
title

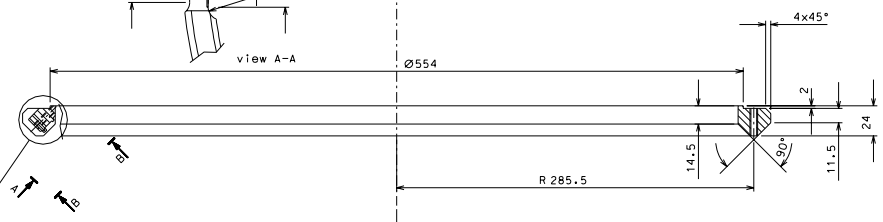
TAMA-SAS-TOWER-300

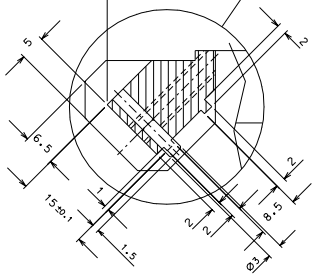
DETAILS











scale 2:1

To insert a pin forced d=3x8
(inserire una spina forzata d=3x8)

Note: To mill after welded on the body
(fresare dopo saldato sul corpo)

ref.	note	date	signature
	modification radii	9-7-00	

modifications

ref.	pieces	mat. and treatments	scale
48	1	AISI 304 L	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'			

refered to the shortest side

LIGO PROJECT

designed for R. De Salvo

n. Tama300.028

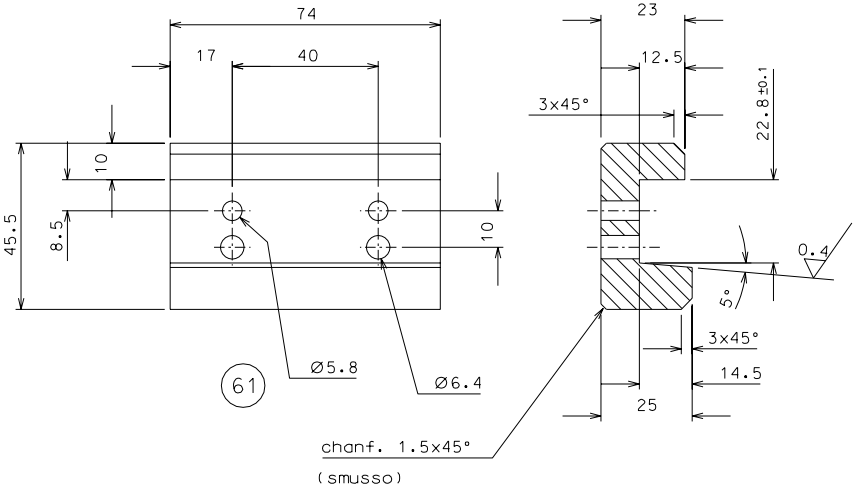
drw. PROMEC 15-10-02

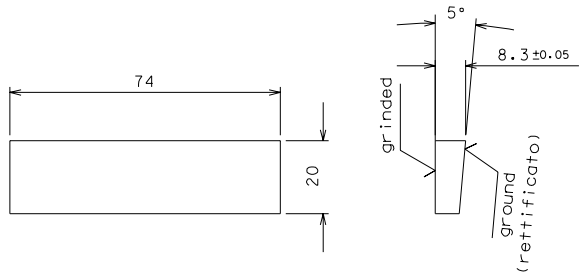
details from 008-024

replaces dr. Numb.

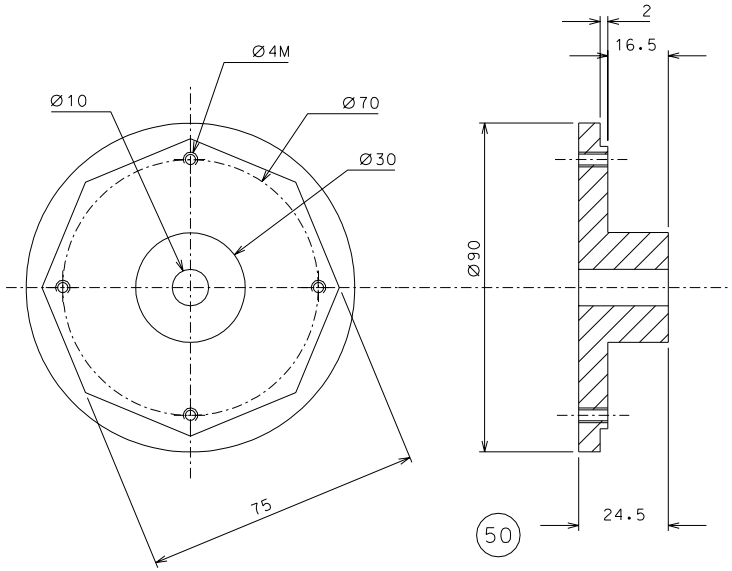
A 1

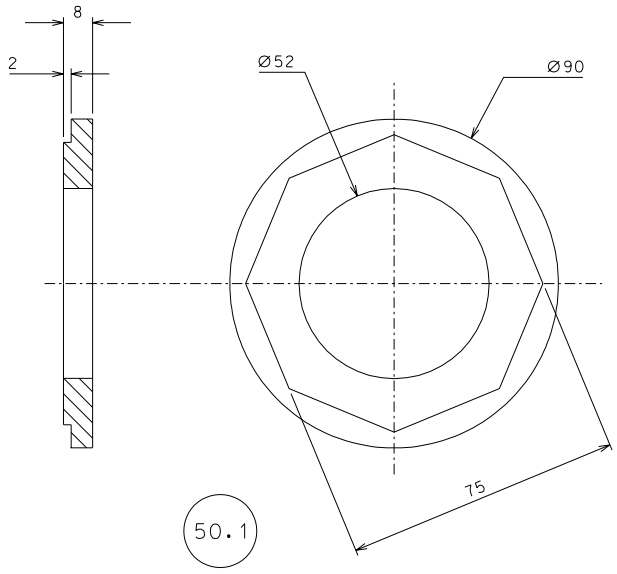
title
TAMA-SAS-TOWER-300
BLADE'S RING





63 Height to be cut to fit blades into slots as specified on sheet 8





ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
63	6	AISI 304	1:1
61	6	"	1:1
50.1	1	ARMCO steel	1:1
50	1	"	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.029

drow. PROMEC 15-10-02

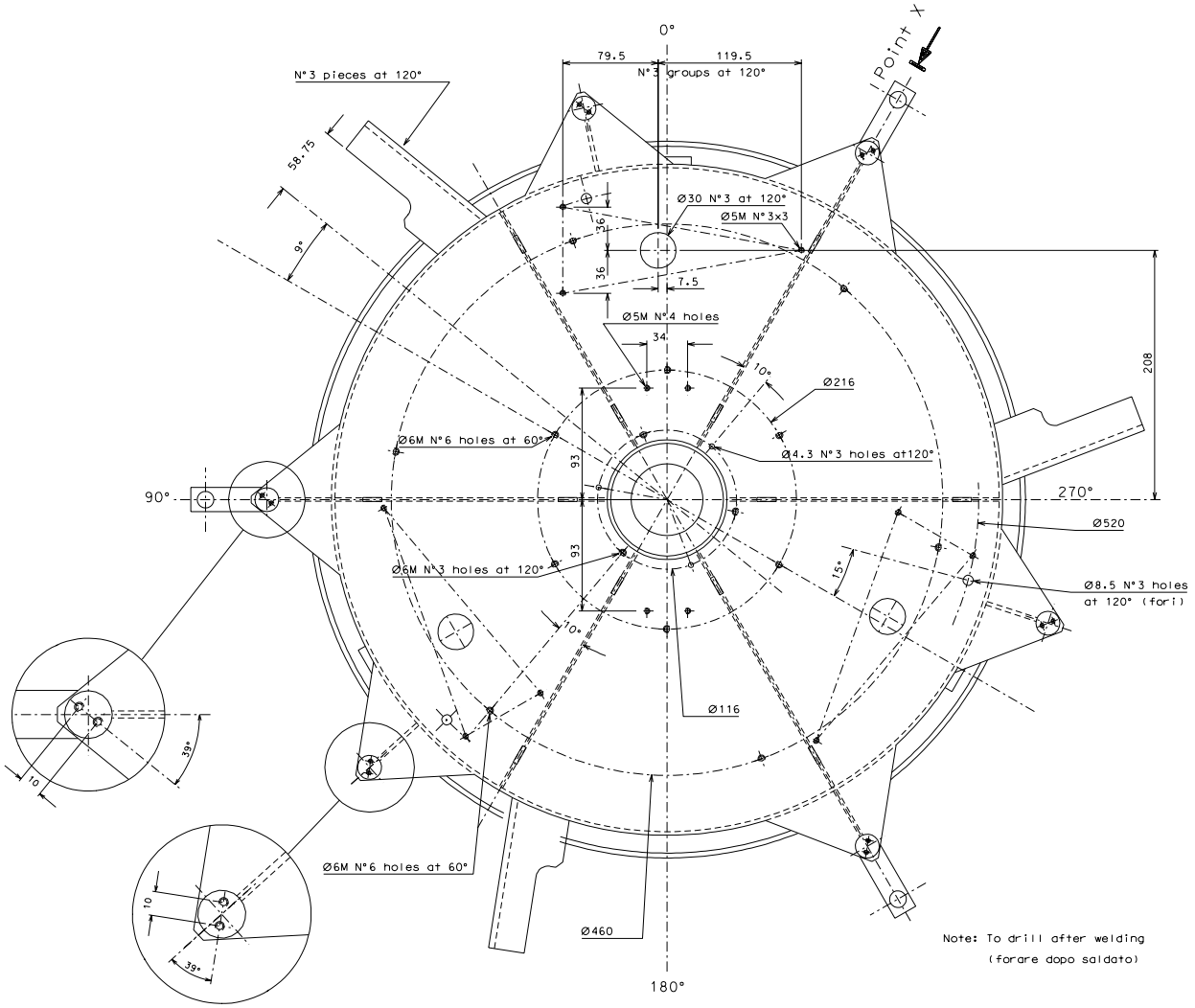
details from 008

title TAMA-SAS-TOWER-300

DETAILS

replaces dr. Numb.

A 2



ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
48.1	1	AISI 304 L	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear toll.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular toll.	± 1	± 30'	± 20'		± 10'	referred to the shortest side		

LIGO PROJECT

designed for R. De Salvo

n. Tama300.030

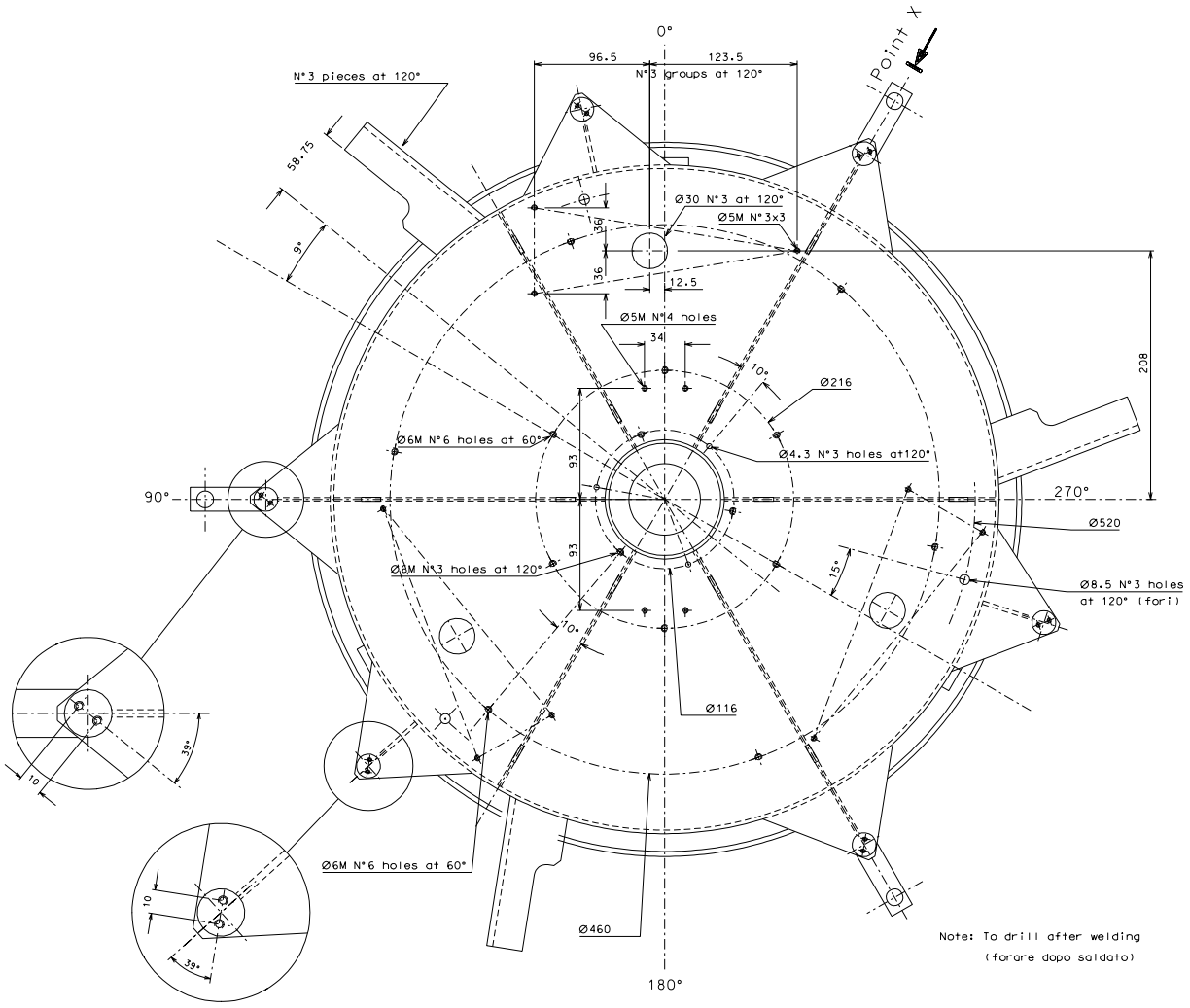
drw. PROMEC 6-01-03

details from 024

replaces dr. Numb.

A 1

title
TAMA-SAS-TOWER-300
TOP PLATE OF FILTER



Note: To drill after welding
(forare dopo saldato)

ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
48.1	1	AISI 304 L	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	> 4000
linear tol.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1°	± 30'	± 20'	± 10'				

refered to the shortest side

LIGO PROJECT

designed for R. De Salvo

N. Tama300.030

drw. PROMEC 6-01-03

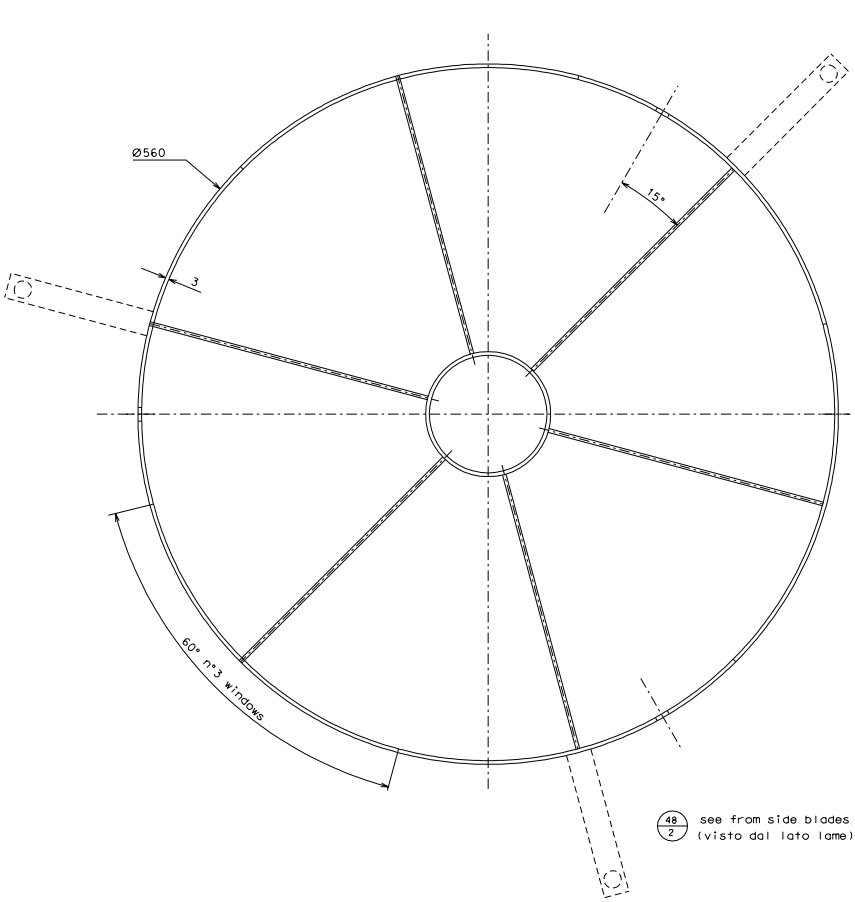
details from 024

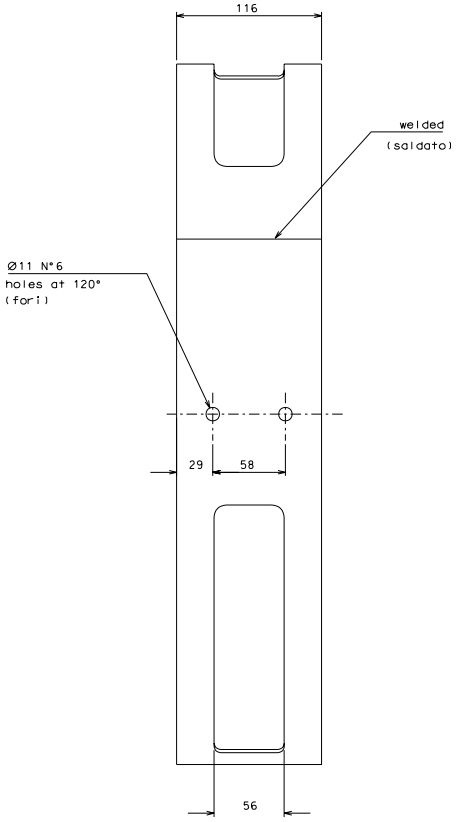
replaces dr. numb.

A 1

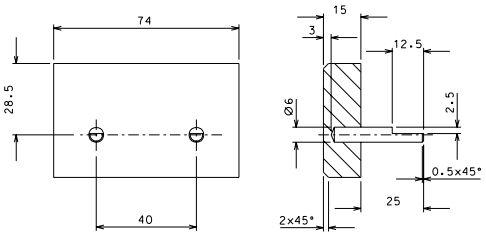
title
TAMA-SAS-TOWER-300
TOP PLATE OF FILTER

SOSTITUISCE IL MEDESIMO FILE PRECEDENTE

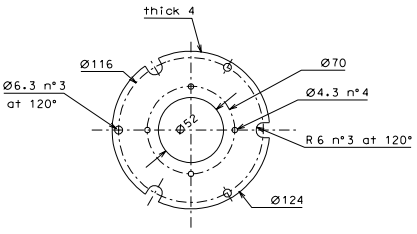




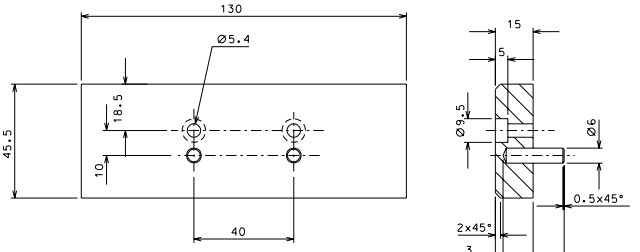
48/2 see from side blades
(visto dal lato lame)



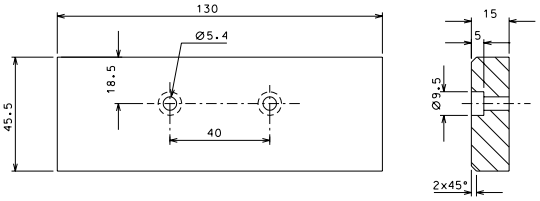
Tool type 1: n°3 pieces inox



49



Tool type 2: n°3 pieces inox



Tool type 3: n°3 pieces inox

ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
49	1	AISI 304	1:2
48.2	1	"	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'			

refered to the shortest side

LIGO PROJECT

designed for R. De Salvo

N. Tama300.031

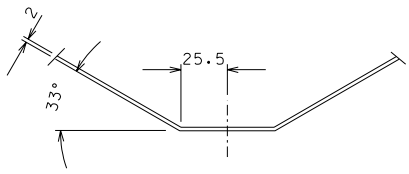
drw. PROMEC 15-10-02

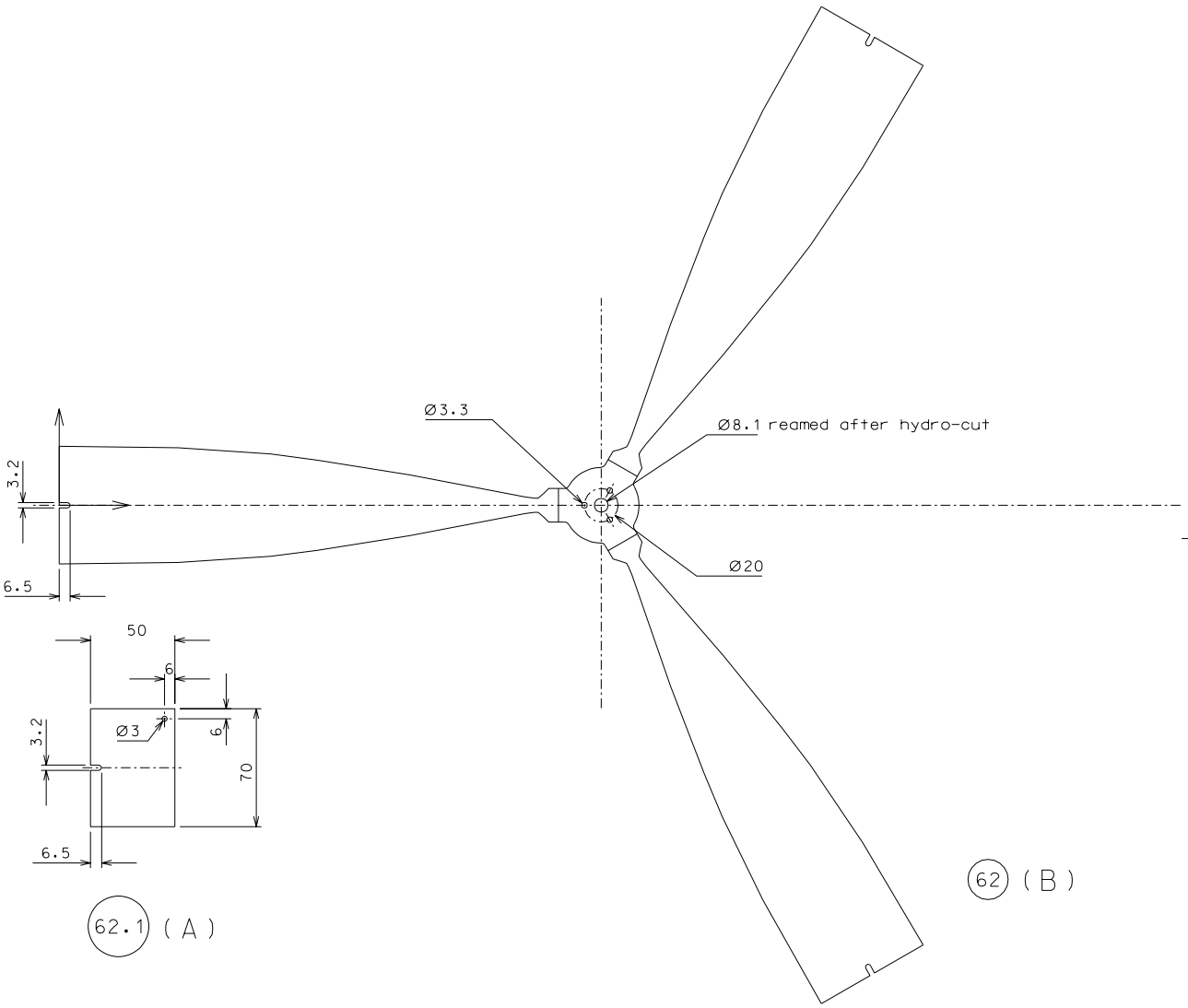
details from 008-024

replaces dr. Numb.

A 1

title
TAMA-SAS-TOWER-300
DETAILS





62.1 (A)

62 (B)

X	Y
0	32.5
69.572	31.66
123.71	28.11
150.799	24.88
204.937	16.80
272.589	4.53
277.90	3.88
279.95	3.88
283.33	7
286.33	10
291	10
317.5	0 center

Surface treatment: Electropolishing and light nickel-plating

(Trattamento superficiale: Elettropulitura e nichelatura leggera)

Termal treatment: Baking at 435° for 100 hours in argon atmosphere

(Trattamento termico: Riscaldamento a 135° per 100 ore in atmosfera di argon)

ref.	pieces	mat. and treatments	scale
62.1	3	maraging	1:2
62	1	maraging	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	>4000
linear Toll.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

ref.	note	date	signature

modifications

LIGO PROJECT

designed for R. De Salvo

N. Tama300.032

draw. PROMEC 15-10-02

details from 008

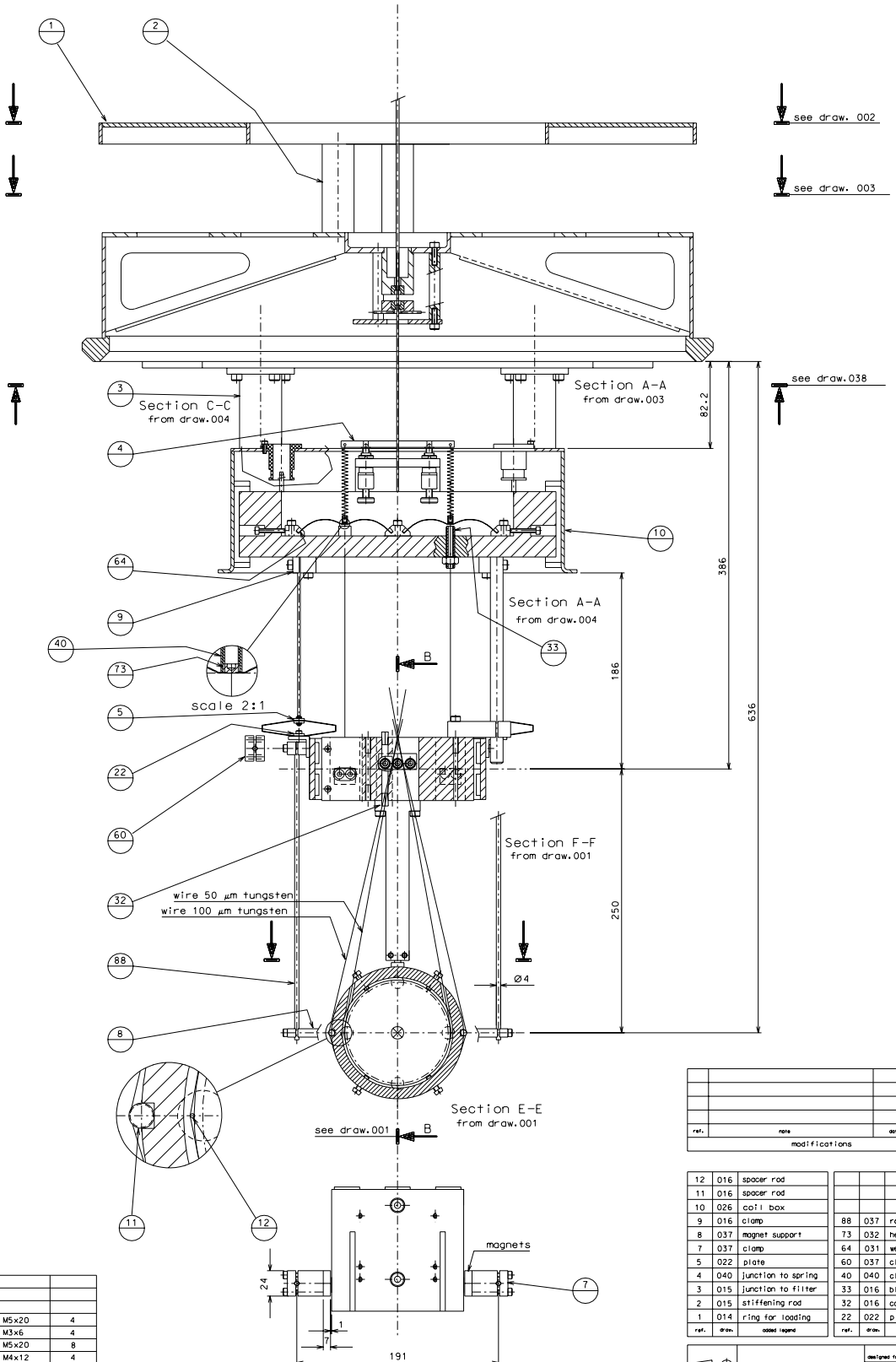
replaces dr. Numb.

A 2

title

TAMA-SAS-TOWER-300

BLADE



60	allen stand. socket M5x20	4
22	allen stand. socket M3x6	4
9	allen stand. socket M5x20	8
7-8	allen stand. socket M4x12	4
3	allen stand. socket M6x16	16
3	allen stand. socket M6x12	4
2	allen stand. socket M5x12	12
detail	type	n°piec.

Screw's table

ref.	note	date	signature
	modifications		

12	016	spacer rod
11	016	spacer rod
10	026	coil box
9	016	clamp
8	037	magnet support
7	037	clamp
5	022	plate
4	040	junction to spring
3	015	junction to filter
2	015	stiffening rod
1	014	ring for loading
ref.	draw.	added legend

88	037	rod
73	032	head wire
64	031	wedge
60	037	clamp
40	040	clamp spring
33	016	blade spacer
32	016	cabling cones
22	022	plate
ref.	draw.	added legend

See drawings 001-003-004

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.000

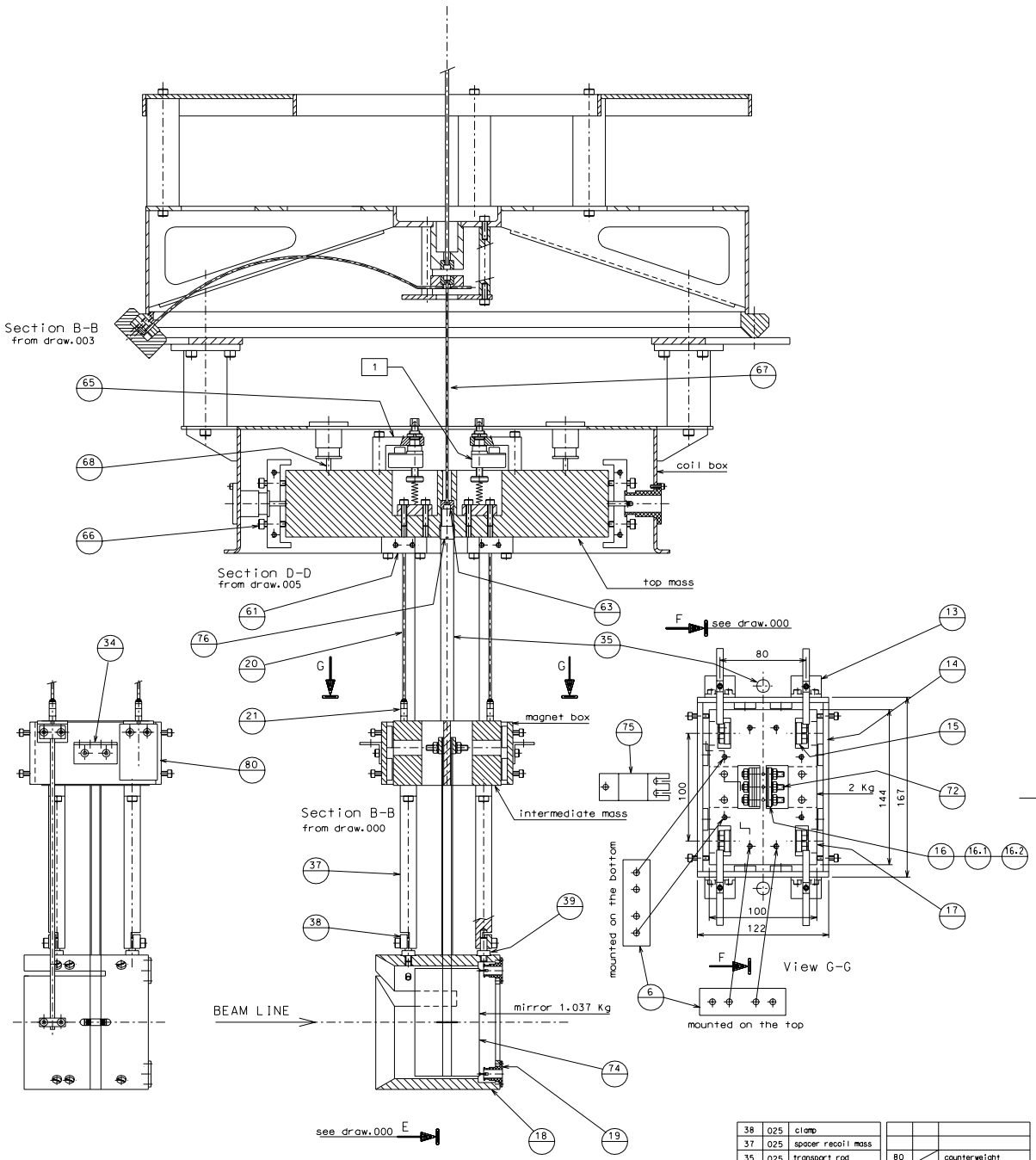
title: PAYLOAD 300
VIEW ALONG BEAM LINE

drw. PROMEC 7-01-03

scale 1:2

replaces dr. numb.

A 1



Top mass 14.06 Kg
Magnet box 1.28 Kg
Intermediate mass 1.91 Kg
Recoil mass 0.96 Kg

38	025	clamp			
37	025	spacer recoil mass			
35	025	transport rod	80	/	counterweight
34	025	clamp wires	76	027	screw
21	022	rectangular spring	75	035	comb
20	025	suspens. magnet mass	74		deleted
19	029	coil holder	72	032	joint pin
18	028	recoil mass	68	032	support magnet
17	023	intermediate mass	67	032	suspension wire
16	022	clamp	66	032	screw
15	022	clamp	65	040	support picomotor
14	022	magnet box	63	025	wire cup
13	022	spring block	61	016	clamp
6	023	counterweight	39	025	pin
ref.	draw.	added legend	ref.	draw.	added legend

66	allen stand. socket M5x25	8
65	allen stand. socket M5x40	4
61	allen stand. socket M5x25	8
38-37	allen stand. socket M5x16	4
37-17	allen stand. socket M5x16	4
34-14	allen stand. socket M4x10	4
19-18	allen stand. socket M3x10	12
14	allen stand. socket M4x16	8
detail	type	n°piec.

Screw's table

ref.	note	date	signature

modifications

TAMA PROJECT

designed for A.Takamori

ass. numb. payl300.001

title

PAYLOAD 300

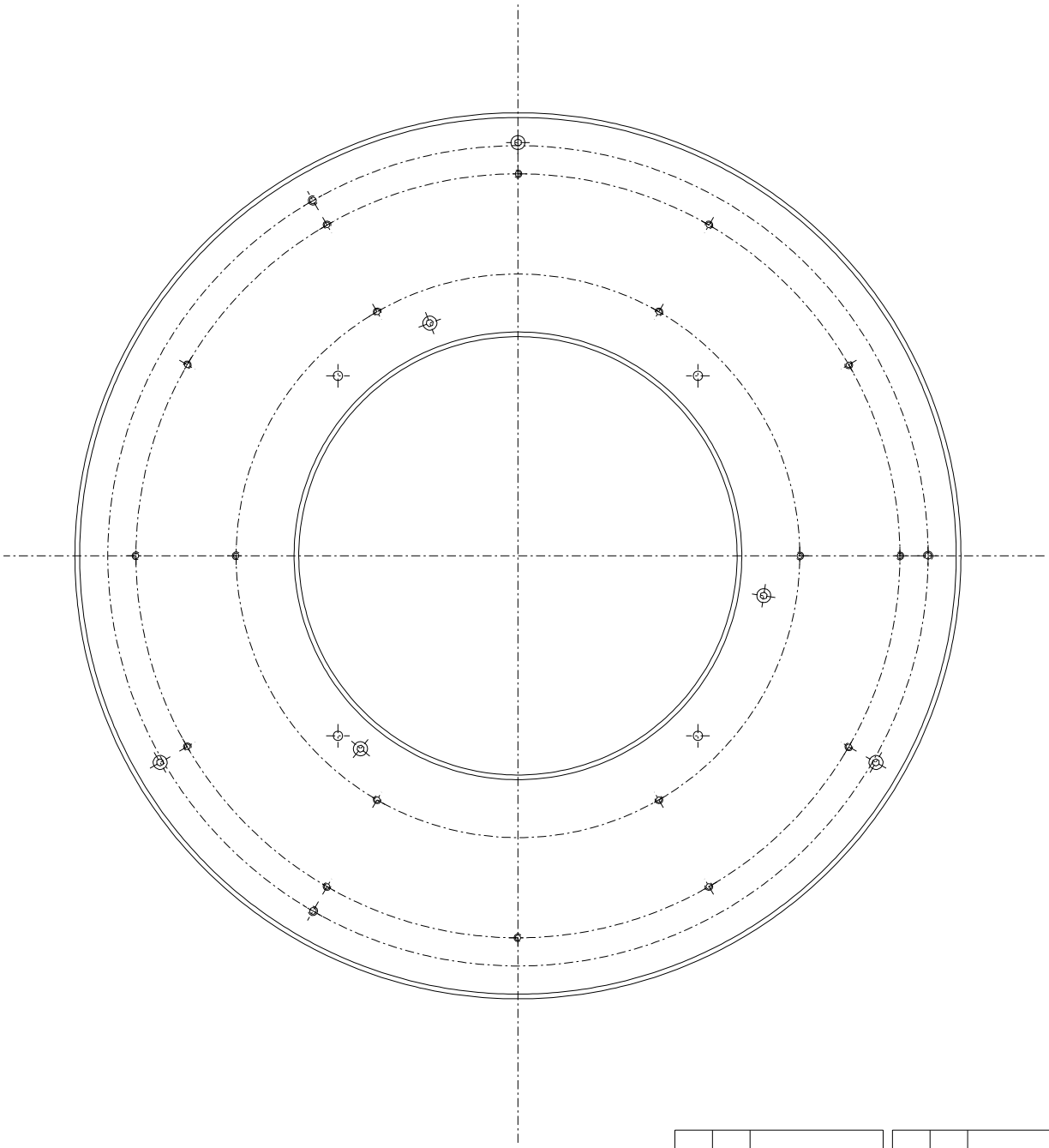
ORTOGONAL VIEW TO BEAM LINE

drw. PROMEC 7-01-03

scale 1:2

replaces dr. numb.

A 1



ref.	draw.	added legend

ref.	draw.	added legend

ref.	note	date	signature

modifications

TAMA PROJECT

designed for A. Takamori

ass. numb. payl300.002

draw. PROMEC 6-10-02

scale 1:2

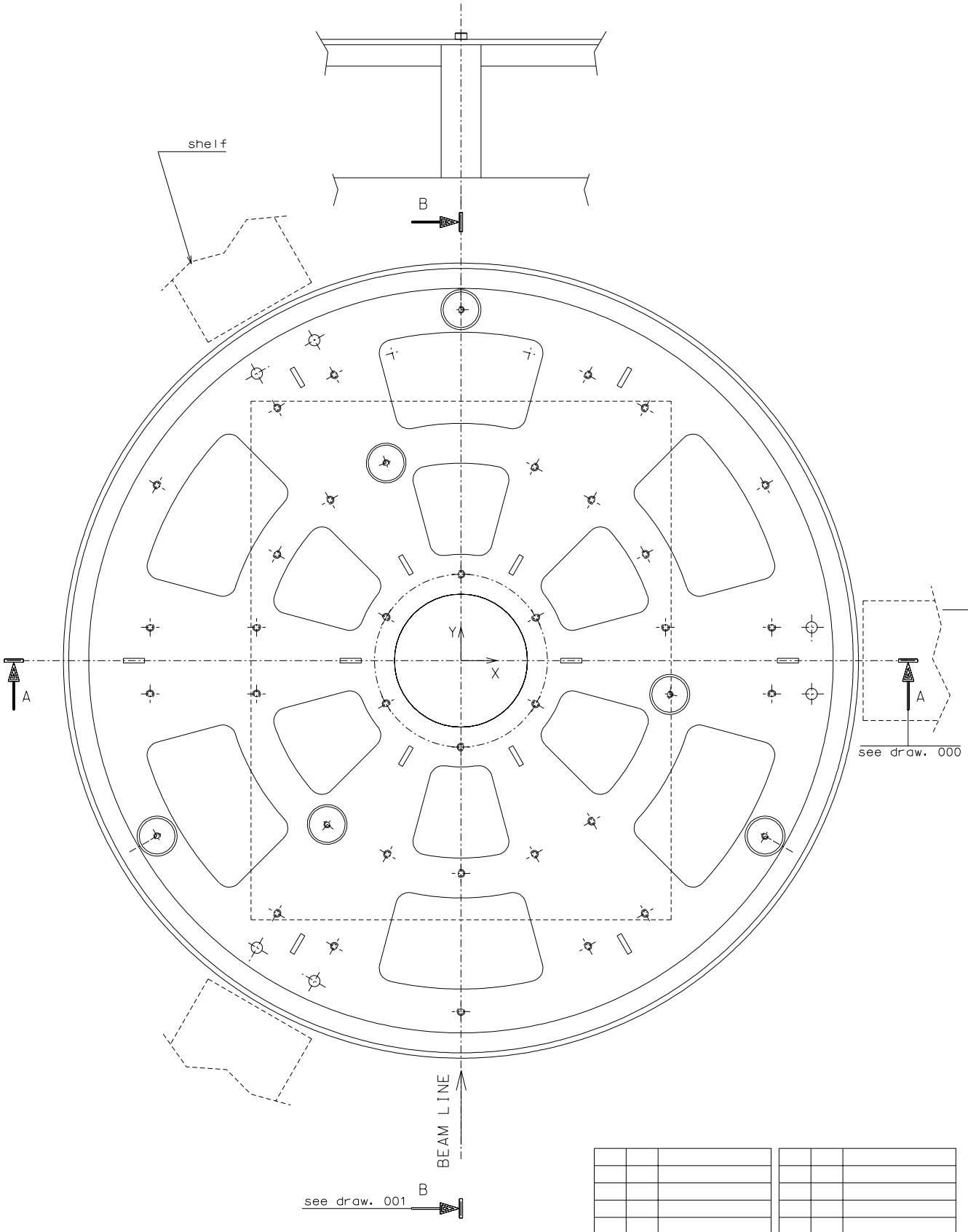
replaces dr. Numb.

A 2

title

PAYLOAD 300

RING FOR LOADING



ref.	draw.	added legend

ref.	draw.	added legend

ref.	note	date	signature

modifications

TAMA PROJECT

designed for A. Takamori

ass. numb. pay1300.003

draw. PROMEC6-10-02

title

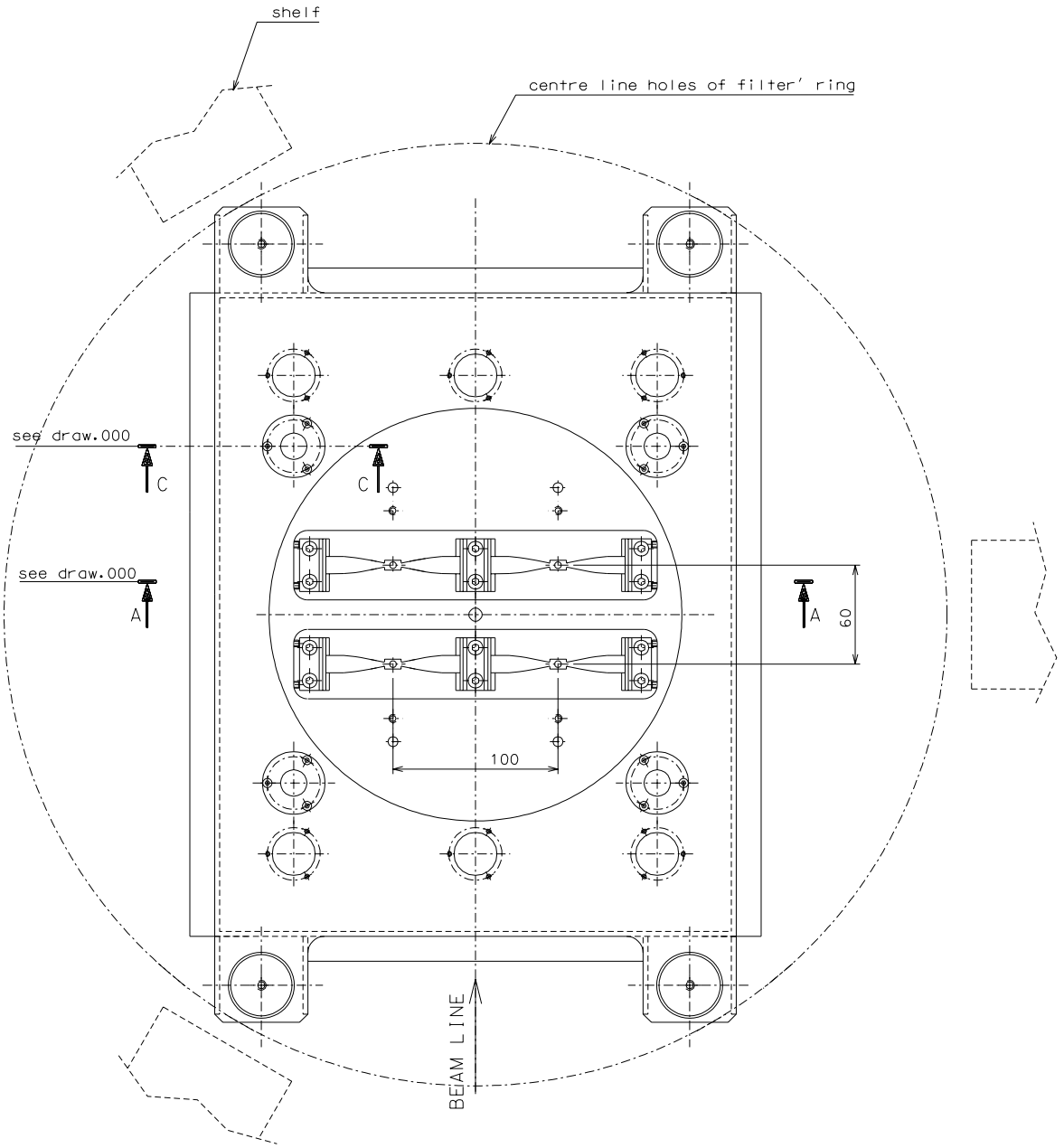
PAYLOAD 300

TOP VIEW FILTER

scale 1:2

replaces dr. Numb.

A 2



ref.	note	date	signature

modifications

ref.	draw.	added legend

ref.	draw.	added legend

TAMA PROJECT

designed for A. Takamori

ass. numb. pay1300.004

draw. PROMEC6-10-02

title

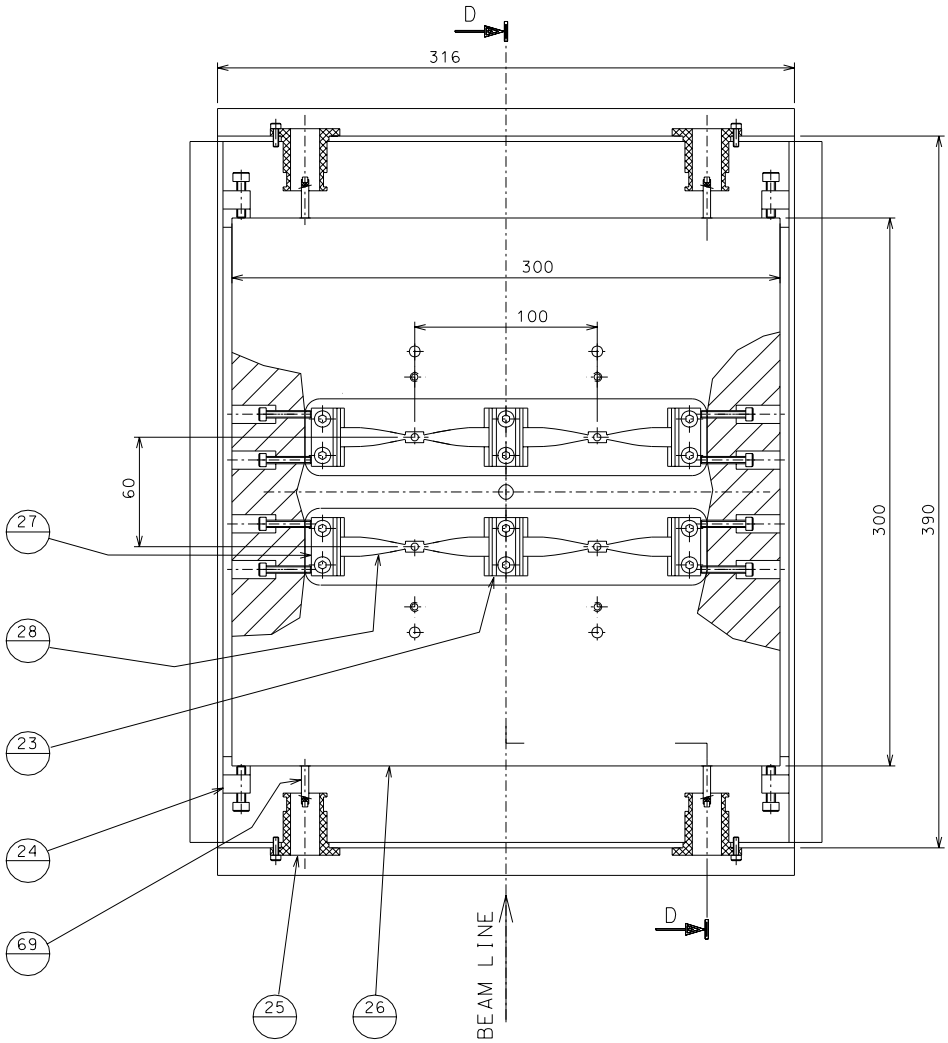
PAYLOAD 300

TOP VIEW OF TOP MASS

scale 1:2

replaces dr. Numb.

A 2



ref.	note	date	signature
modifications			

28	031	blade			
27	031	side blade clamp			
26	027	top mass			
25	029	coil			
24	029	transport clamp			
23	031	center blade clamp	69	032	support magnet
ref.	draw.	added legend	ref.	draw.	added legend

27	allen stand. socket M4x25	8
25	allen stand. socket M3x10	24
23-27	allen stand. socket M5x16	12
detail	type	n°piec.
Screw's table		

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.005

draw. PROMEC 6-10-02

scale 1:2

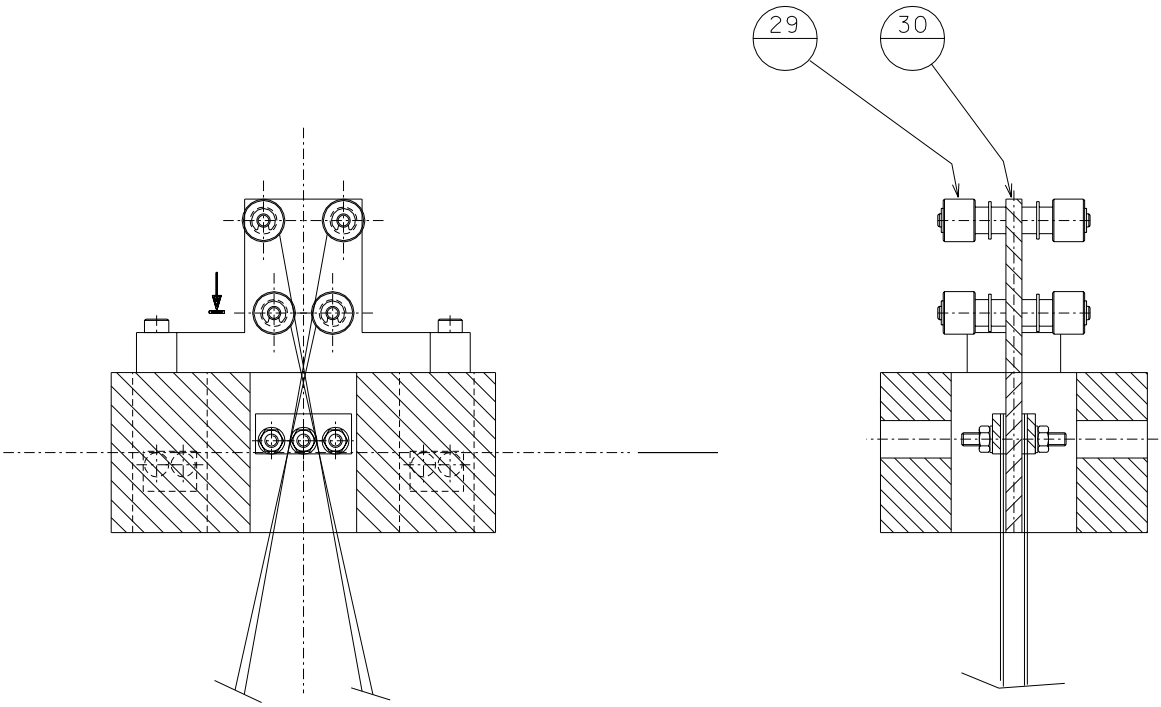
replaces dr. Numb.

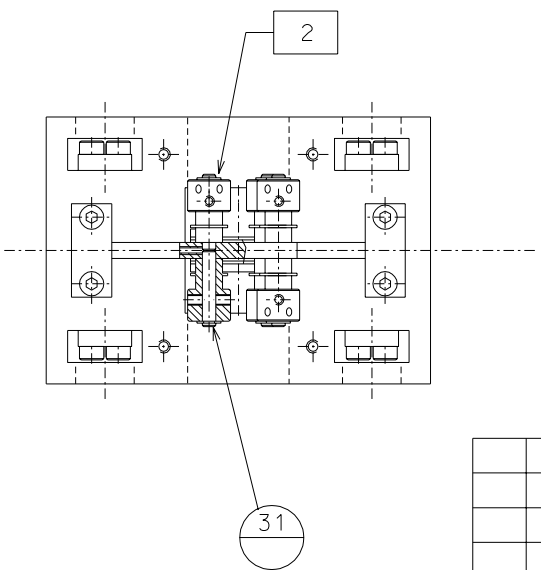
A 2

title

PAYLOAD 300

TOP MASS





2 - Ring UNI 7434-5

ref.	note	date	signature
modifications			

31	024	pin			
30	024	mirror adjustment jig			
29	024	knob			
ref.	draw.	added legend	ref.	draw.	added legend

30	grub screw	4
29	grub screw	16
detail	type	n°piec.
Screw's table		

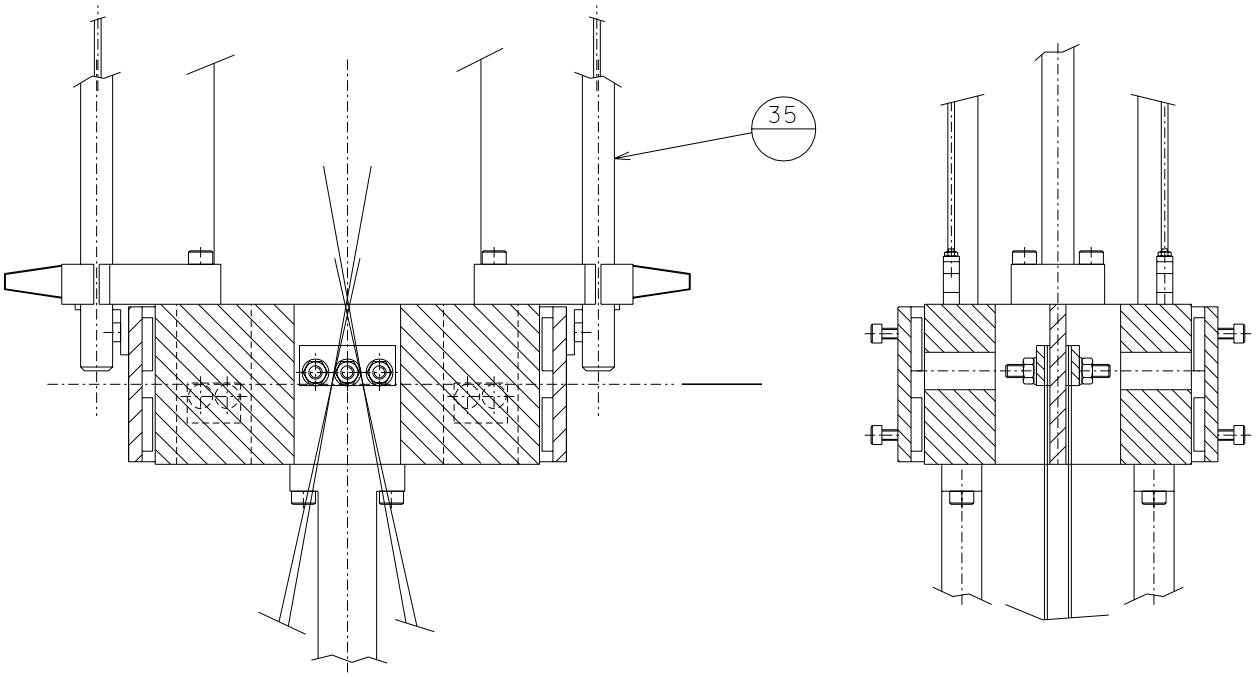
TAMA PROJECT

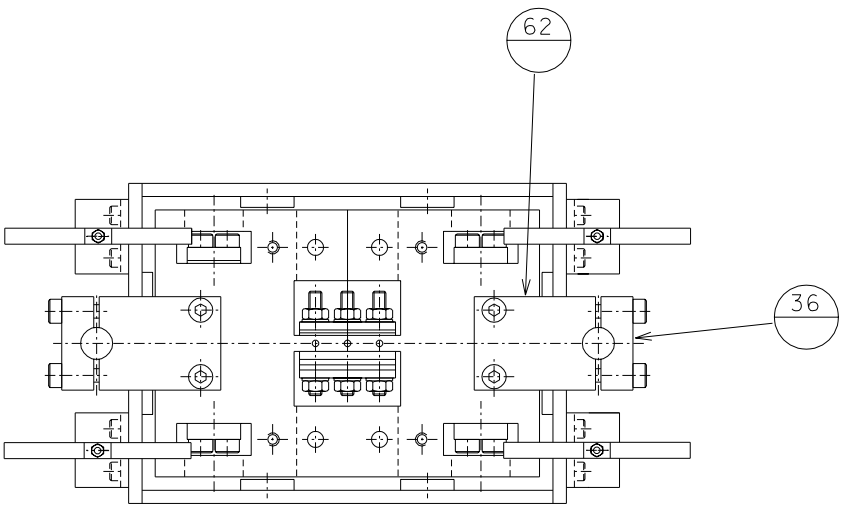
title

PAYLOAD 300

TOOL

designed for	A. Takamori
ass. numb.	pay1300.006
draw.	PROMEC 6-10-02
scale	1:2
replaces dr. Numb.	A 3





ref.	note	date	signature
modifications			

62	024	transport clamp
36	024	transport clamp
35	025	transport rod
ref.	draw.	added legend

ref.	draw.	added legend

62	allen stand. socket M5x25	4
36-62	allen stand. socket M5x25	4
detail	type	n°piec.
Screw's table		

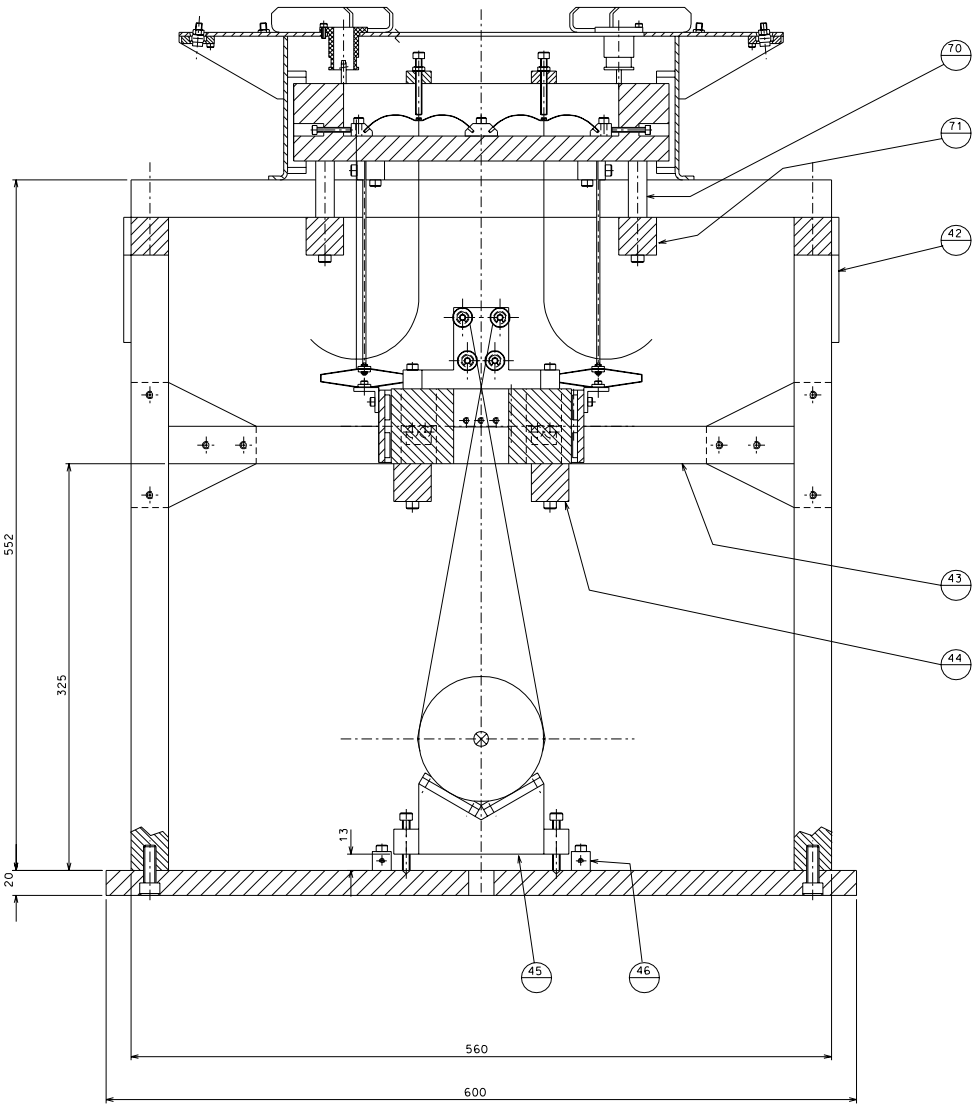
TAMA PROJECT

title

PAYLOAD 300

TOOL

designed for	A. Takamori
ass. numb.	pay1300.007
draw.	PROMEC 6-10-02
scale	1:2
replaces dr. Numb.	A 3



FIRST STEP

ref.	note	date	signature
	modifications		

70	018	support pin			
46	020	guide			
45	018	mirror support			
44	019	support bar			
43	018	support bar			
42	020	joint plate	71	018	support bar
ref.	draw.	added legend	ref.	draw.	added legend

71	allen stand. socket M8x45	4
50-51	allen stand. socket M10x30	4
49	allen stand. socket M8x25	32
46	allen stand. socket M5x25	6
45	allen stand. socket M6x45	4
detail	type	n°piec.

Screw's table

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.008

title

PAYLOAD 300

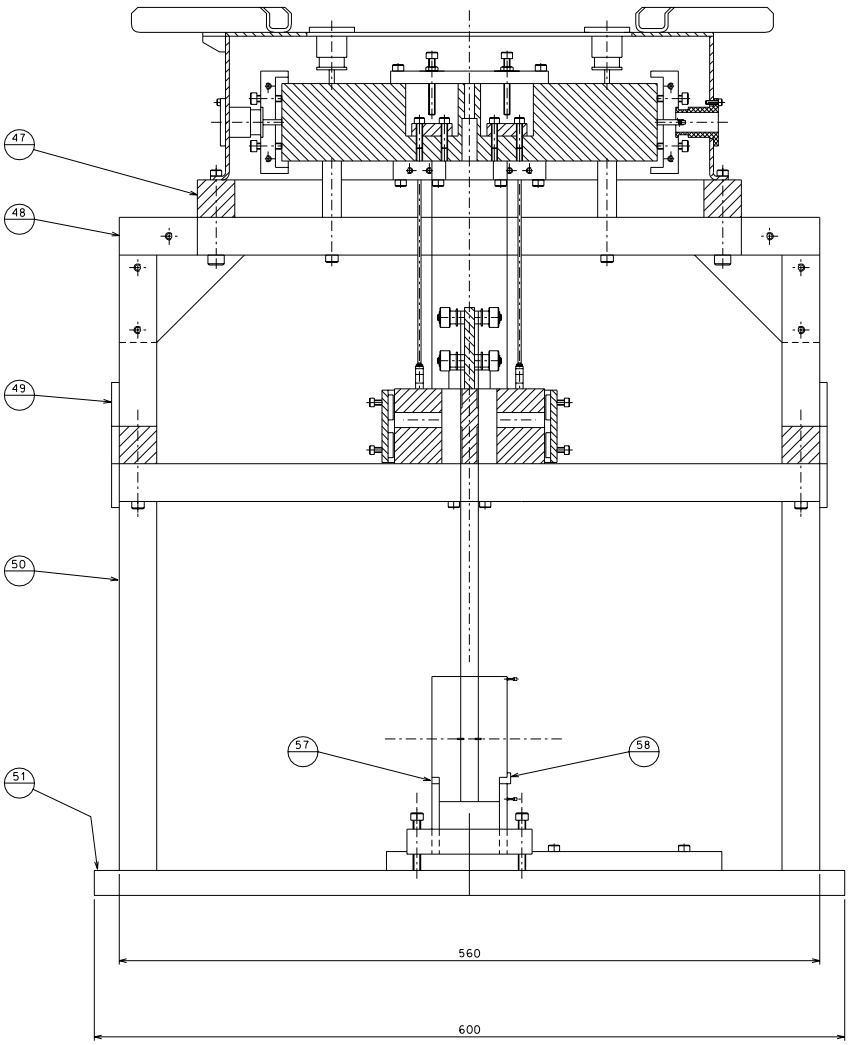
MOUNTING'S TOOL

draw. PROMEC 6-10-02

scale 1:2

replaces dr. numb.

A 1



FIRST STEP

ref.	note	date	signature
	modifications		

58	021	spacer
57	021	spacer
51	017	base
50	018	rammer's rod
49	020	joint rod
48	019	rammer's rod
47	019	rammer's rod
ref.	draw.	added legend

ref.	draw.	added legend

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.009

draw. PROMEC 6-10-02

title

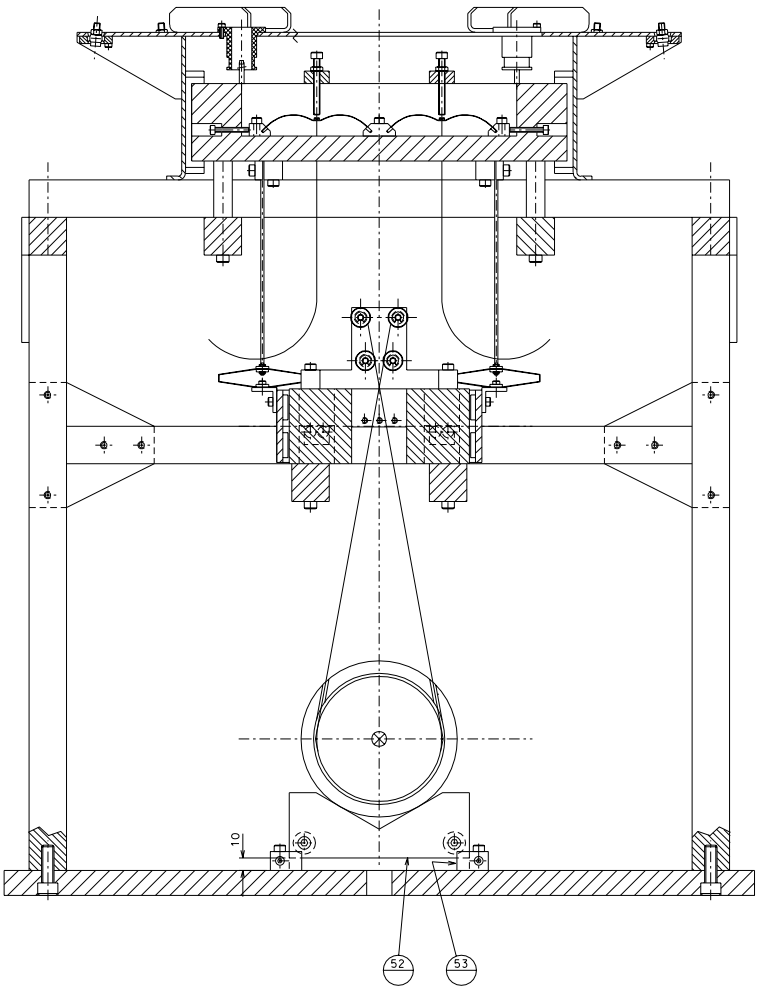
PAYLOAD 300

MOUNTING'S TOOL

scale 1:2

replaces dr. numb.

A 1



SECOND STEP

ref.	note	date	signature
	modifications		

ref.	draw.	added legend
53	021	end stop
52	021	recoil mass support

ref.	draw.	added legend

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.010

title

PAYLOAD 300

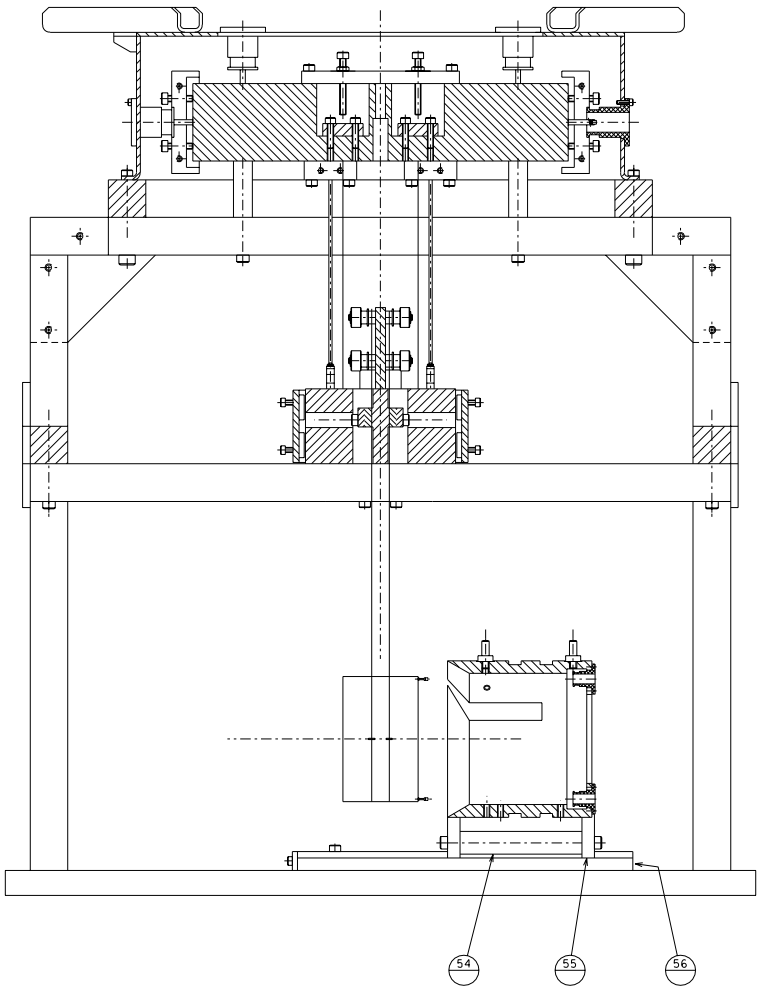
MOUNTING'S STEP

drw. PROMEC 6-10-02

scale 1:2

replaces dr. numb.

A 1



SECOND STEP

ref.	note	date	signature
	modifications		

56	020	spacer
55	021	recoil support
54	021	spacer
ref.	draw.	added legend

ref.	draw.	added legend

TAMA PROJECT

designed for A.Takamori

doc. numb. pay1300.011

title

PAYLOAD 300

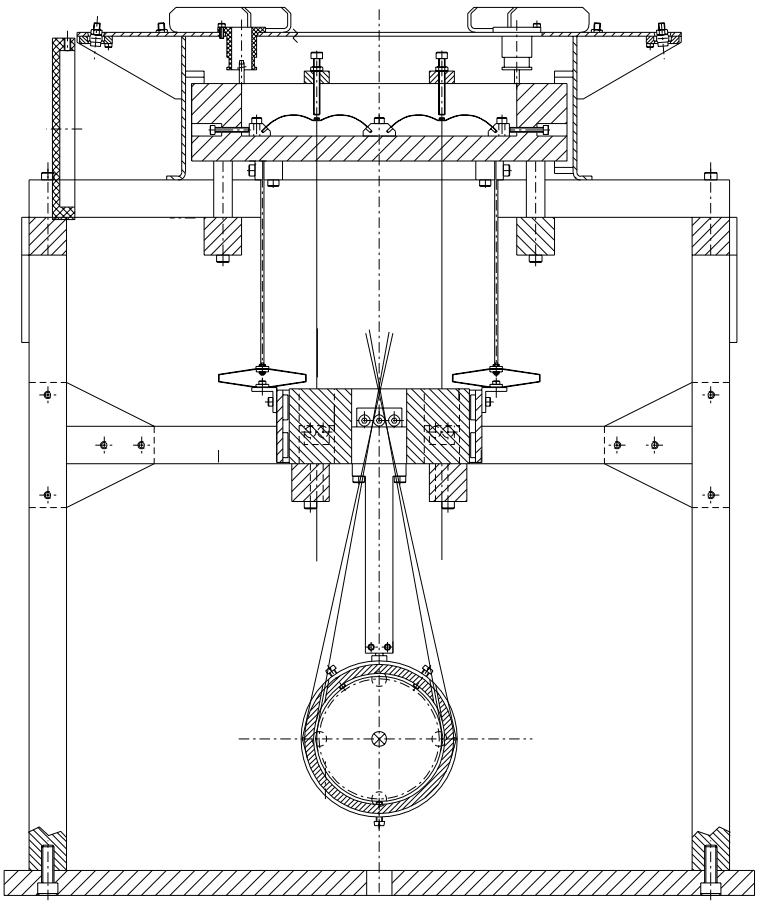
MOUNTING'S TOOL

draw. PROMEC 6-10-02

scale 1:2

replaces dr. numb.

A 1



THIRD STEP

ref.	note	date	signature
	modifications		

ref.	draw.	added legend

ref.	draw.	added legend

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.012

title

PAYLOAD 300

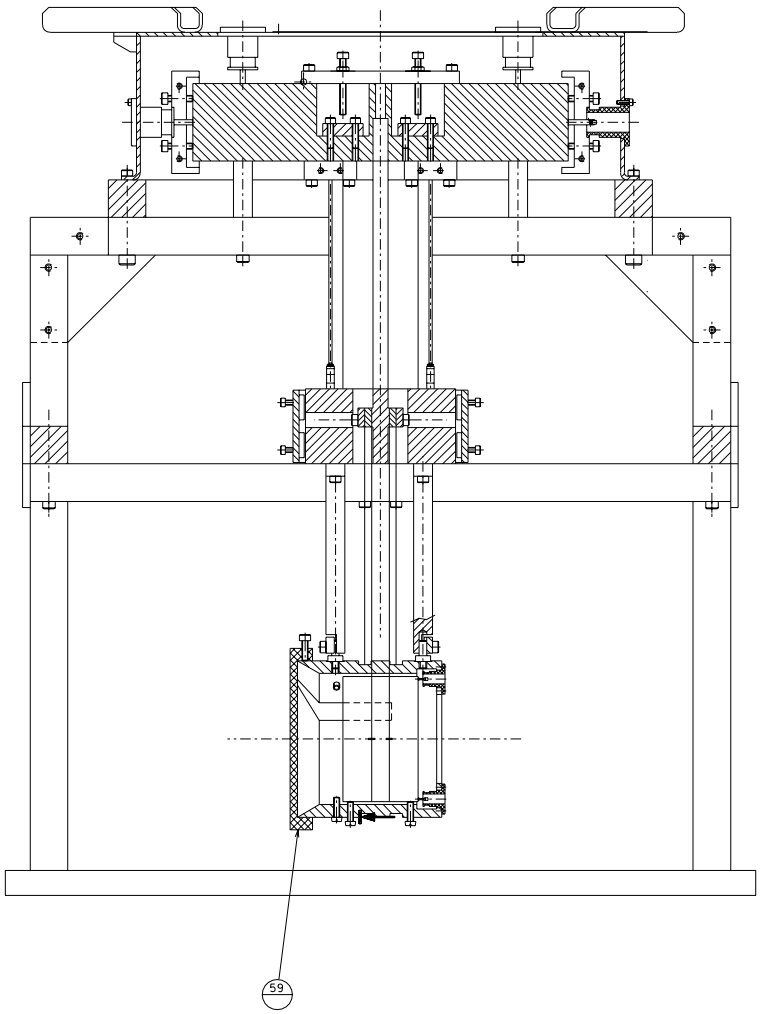
MOUNTING'S TOOL

drw. PROMEC 6-10-02

scale 1:2

replaces dr. Numb.

A 1



THIRD STEP

ref.	note	date	signature
	modifications		

ref.	draw.	added legend
59	029	cover

ref.	draw.	added legend

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.013

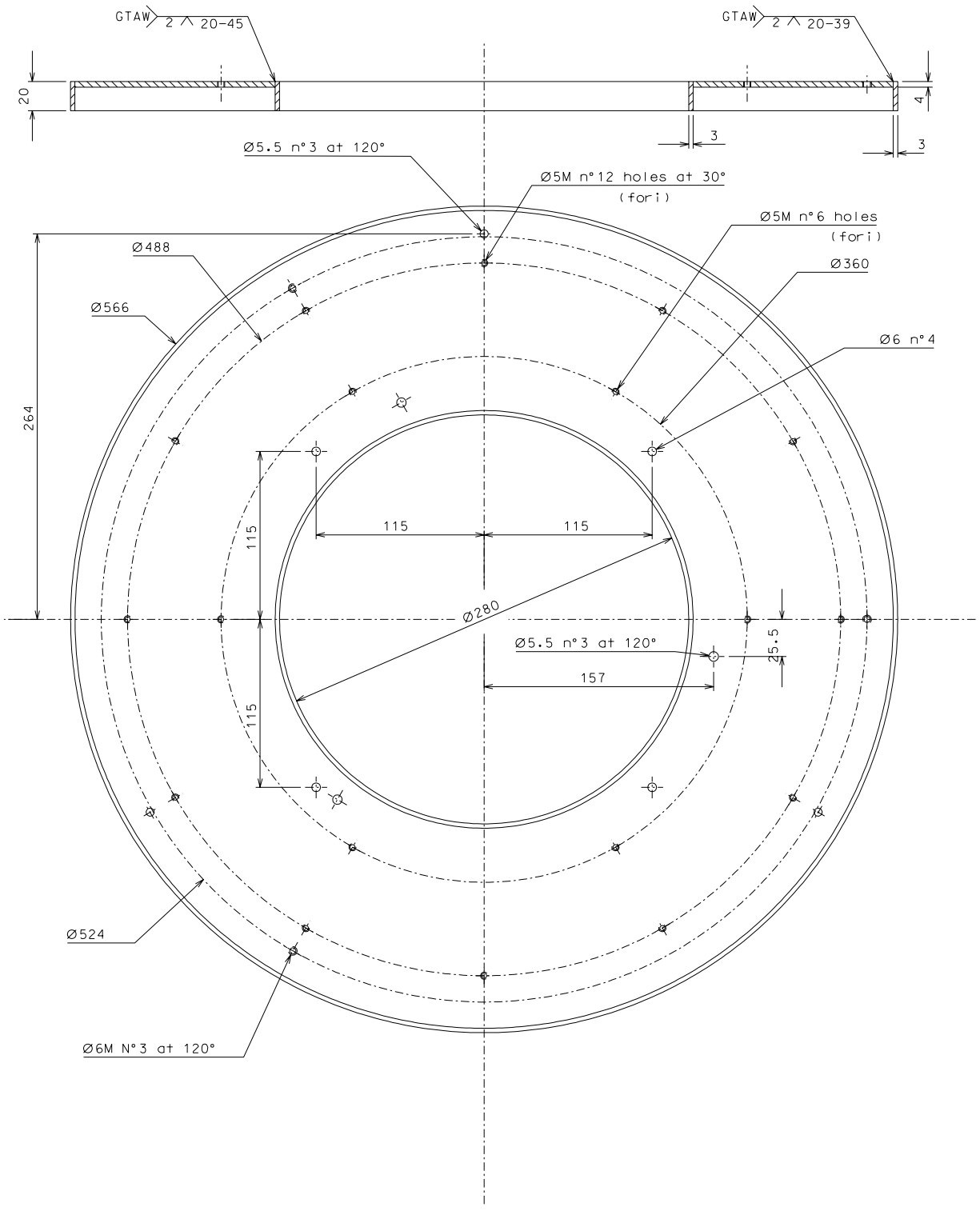
title: PAYLOAD 300
MOUNTING'S TOOL

draw. PROMEC 6-10-02

scale 1:2

replaces dr. numb.

A 1



1	1	AISI 304 L	1:2
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

ref.	note	date	signature

modifications

LIGO PROJECT

designed for A. Takamori

N. payl300.014

title

PAYLOAD 300

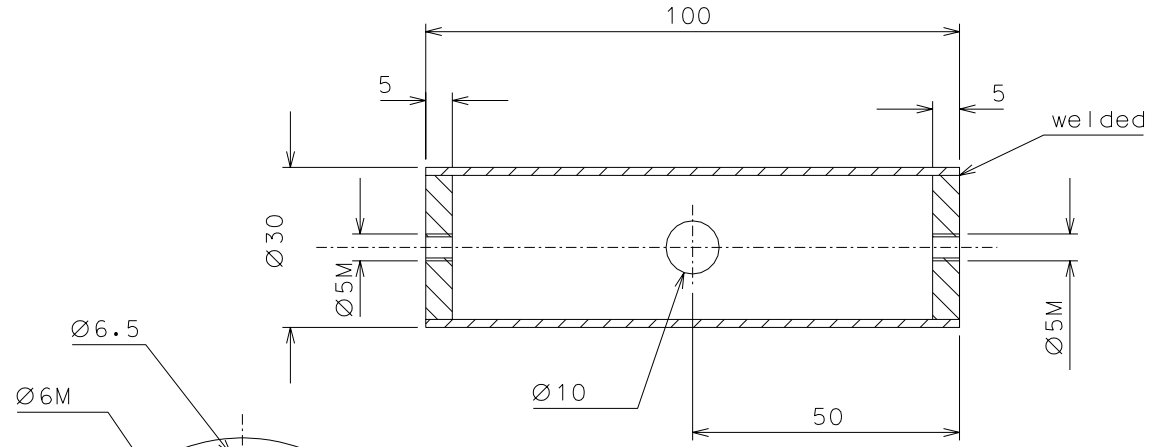
DETAILS

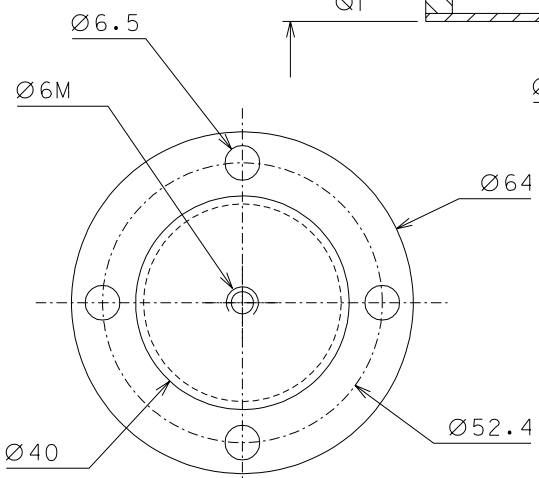
draw. PROMEC 6-10-02

details from 000

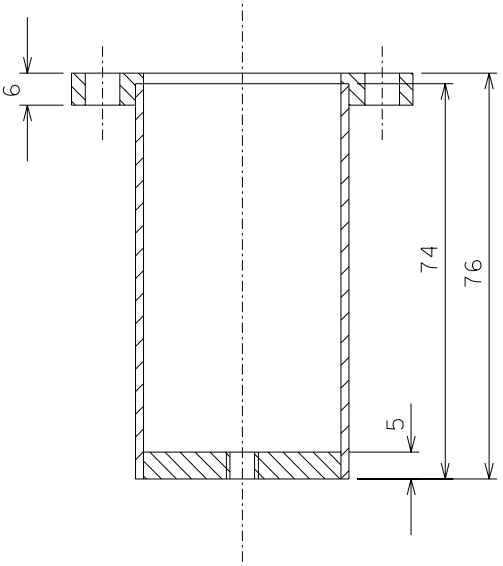
replaces dr. Numb.

A 2





2



3

ref.	note	date	signature
modifications			

3	4	AISI 304 L	1:1
2	6	AISI 304 L	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A. Takamori

N. payl300.015

draw. PROMEC 7-01-03

details from 000-001

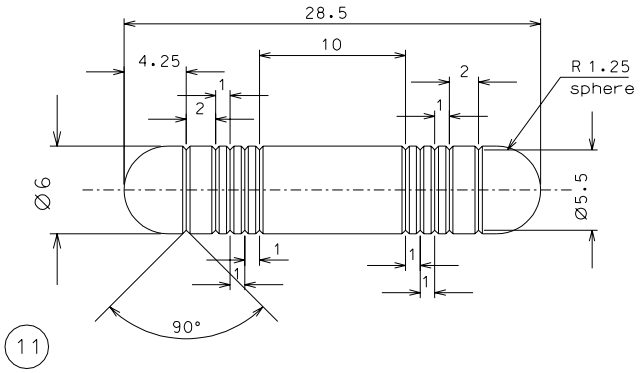
title

PAYLOAD 300

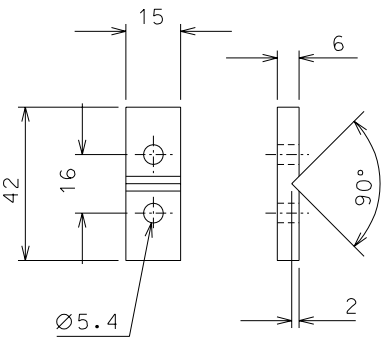
DETAILS

replaces dr. Numb.

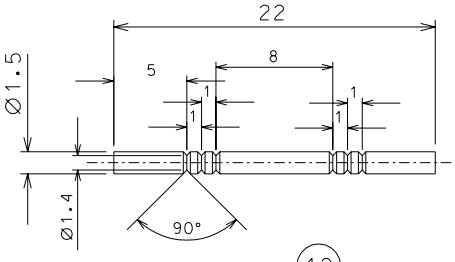
A 3



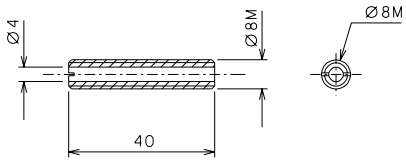
11



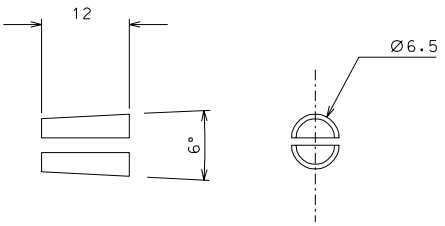
9



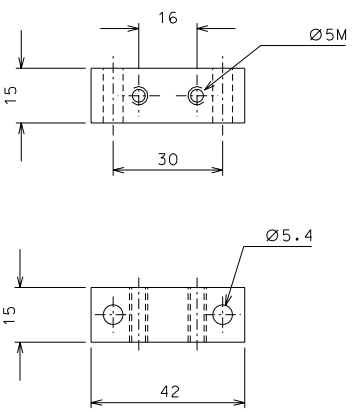
12



33



32



61

ref.	note	date	signature
modifications			

33	4	AISI 304	1:1
32	16	peek	2:1
12	2	AISI 304	4:1
11	4	"	4:1
9	4	"	1:1
ref.	pieces	mat. and treatments	scale

61	4	AISI 304	1:1
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A. Takamori

N. payl300.016

draw. PROMEC 6-10-02

title

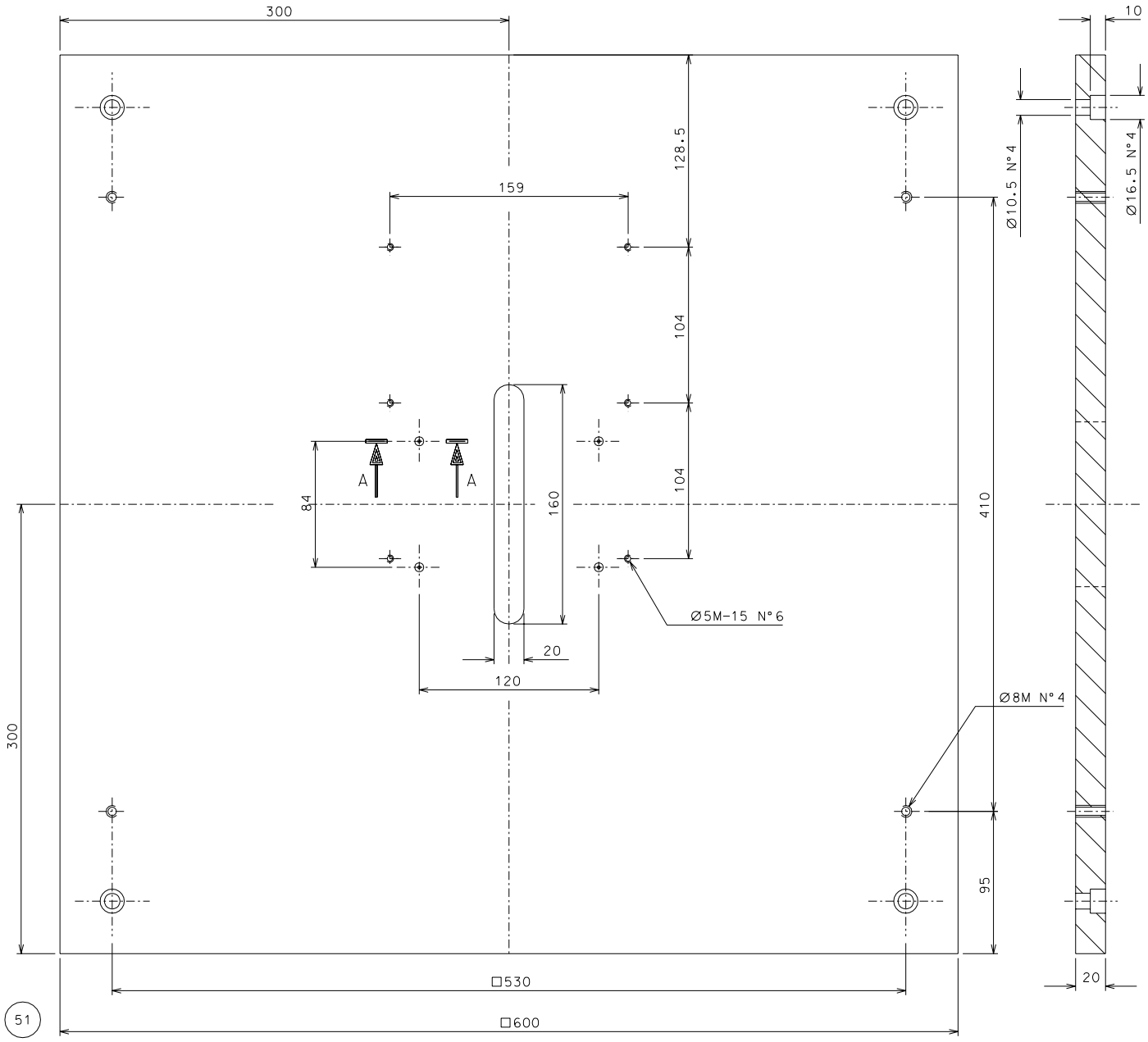
PAYLOAD 300

DETAILS

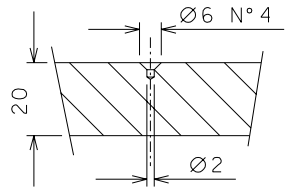
details from 000-001

replaces dr. Numb.

A 2



A-A



scala 1:1

ref.	note	date	signature

modifications

51	1	UNI9006/4	1:2				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A. Takamori

N. payl300.017

drow. PROMEC 6.10.02

details from 009

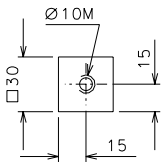
replaces dr. Numb.

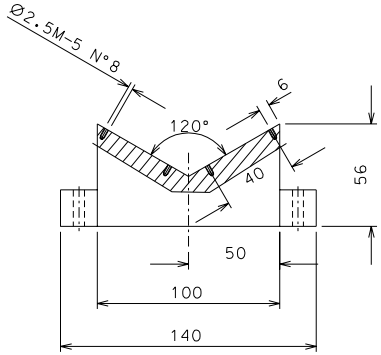
A 2

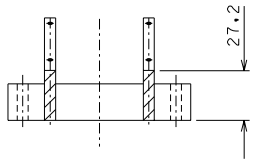
title

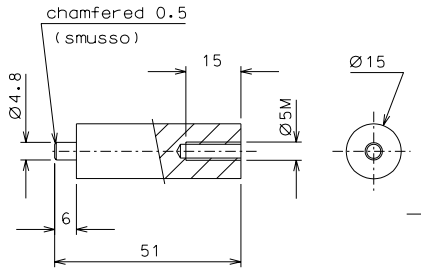
Payload 300

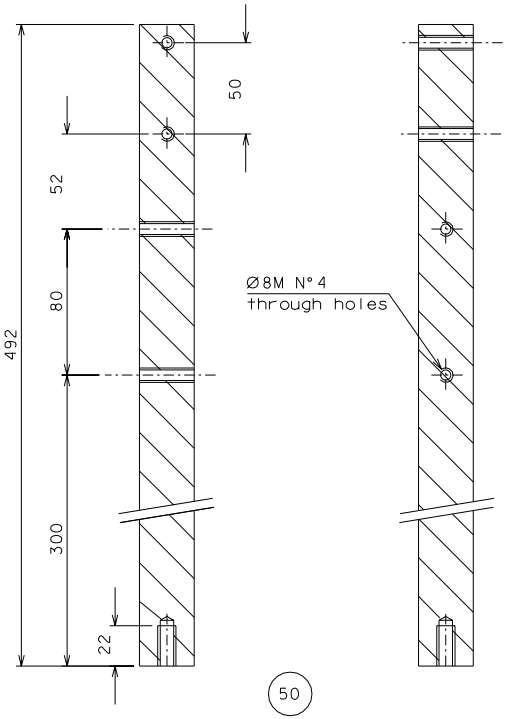
DETAILS

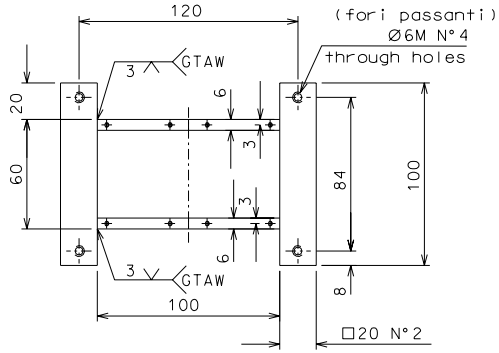


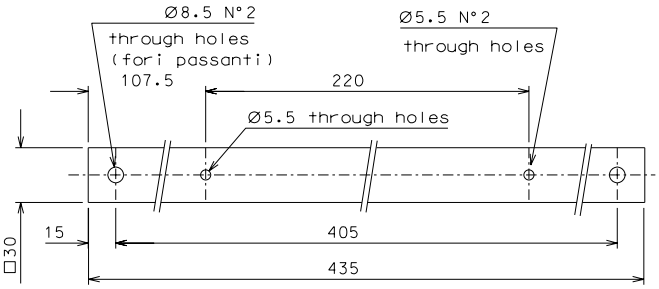


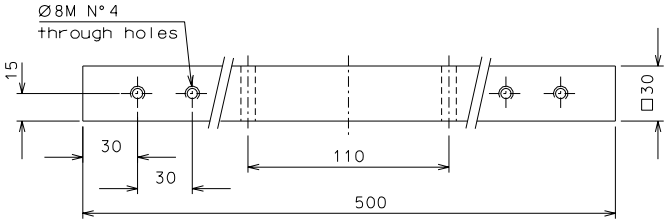


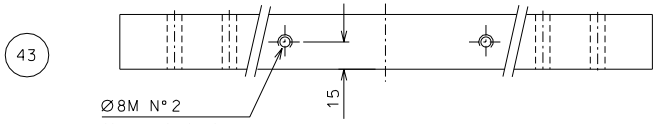












ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
70	4	UNI 9006/4	1:1
50	4	UNI 9006/4	1:2
45	1	UNI 9006/4	1:2
43	2	UNI 9006/4	1:2

ref.	pieces	mat. and treatments	scale
71	2	UNI 9006/4	1:2

General machining tolerances UNI 5307-63

Dimensions	≤ 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A.Takamori

N. payl300.018

drow. PROMEC 6.10.02

details from 008-009

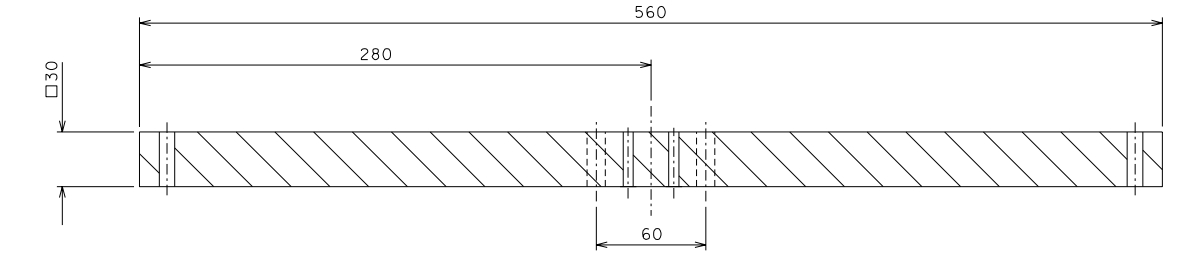
replaces dr. Numb.

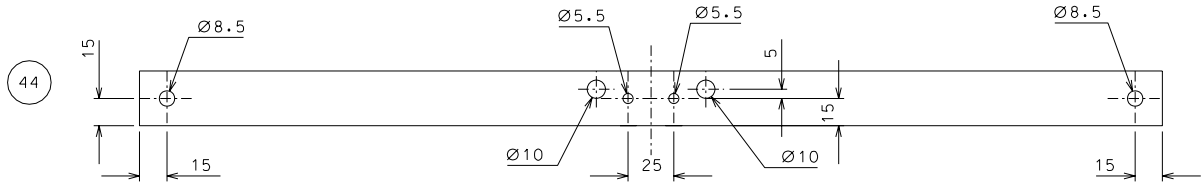
A 2

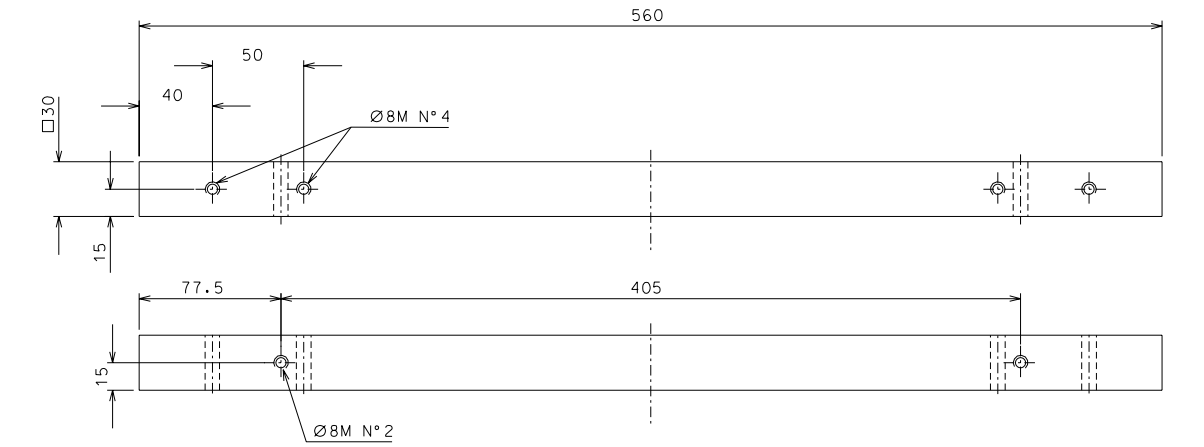
title

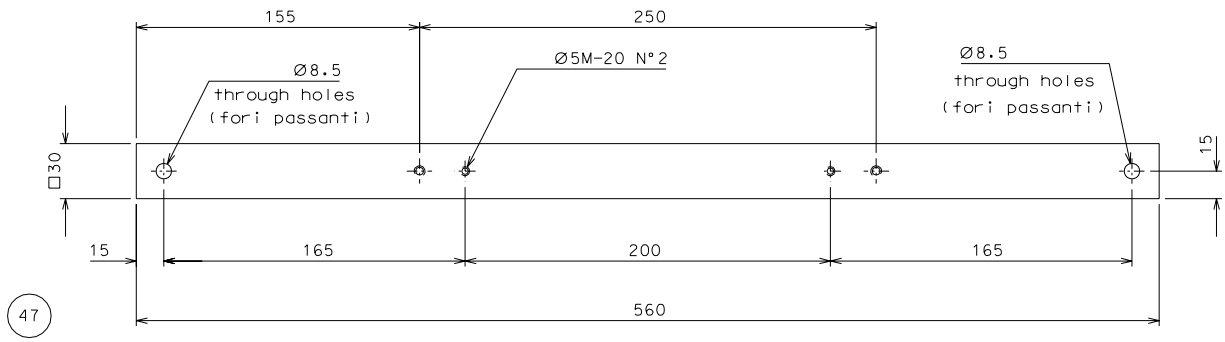
Payload 300

DETAILS









ref.	pieces	mat. and treatments	scale
48	2	UNI9006/4	1:2
47	2	UNI9006/4	1:2
44	2	UNI9006/4	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A.Takamori

N. pay1300.019

draw. PROMEC 6.10.02

details from 008-009

replaces dr. Numb.

A 2

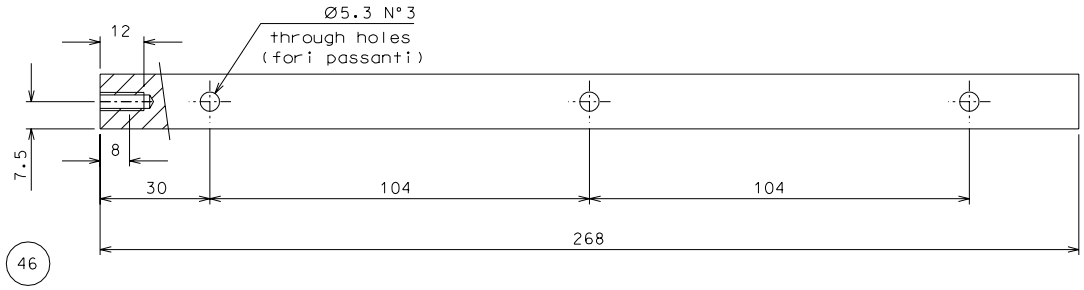
title

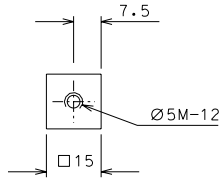
Payload 300

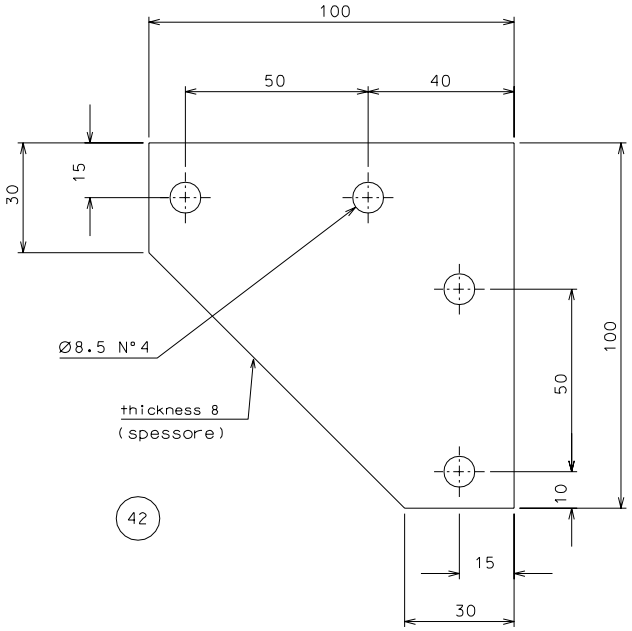
DETAILS

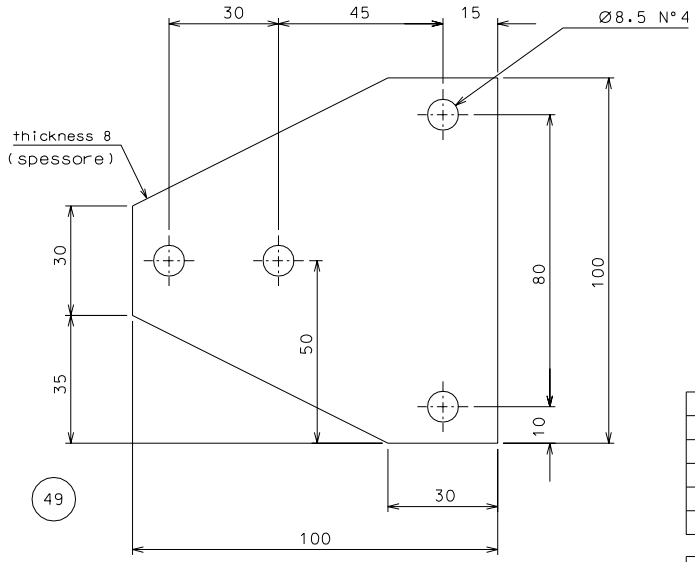
ref.	note	date	signature

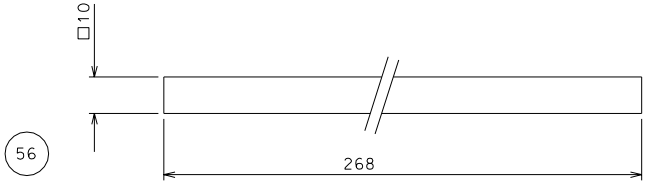
modifications











ref.	note	date	signature

modifications

rif.	pezzi	mat. e trattamento	scale
56	2	UNI9006/4	1:1
49	4	UNI9006/4	1:1
46	2	UNI9006/4	1:1
42	4	UNI9006/4	1:1

rif.	pezzi	mat. e trattamento	scale

Tolleranze generali di lavorazione UNI 5307-63

Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A.Takamori

N. payl300.020

dis. PROMEC 6.10.02

titolo

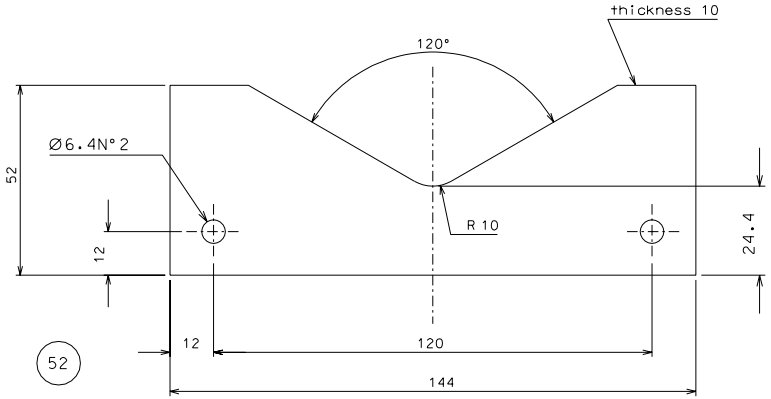
Payload 300

DETAILS

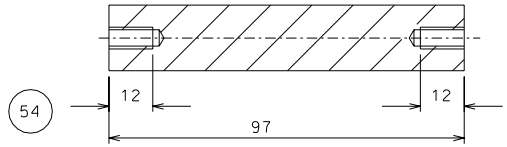
part. dal 008-009-011

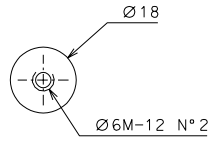
sost. il N.

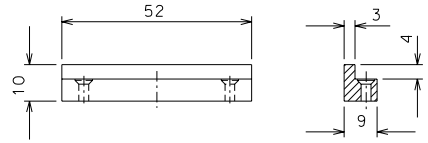
A 2

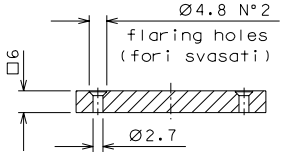


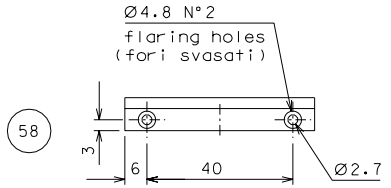
Note: Assembly parts 52, 54, 55 on reference flat surface.
(assemblare part. 52, 54, 55 con riferimento al piano inferiore)

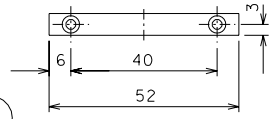


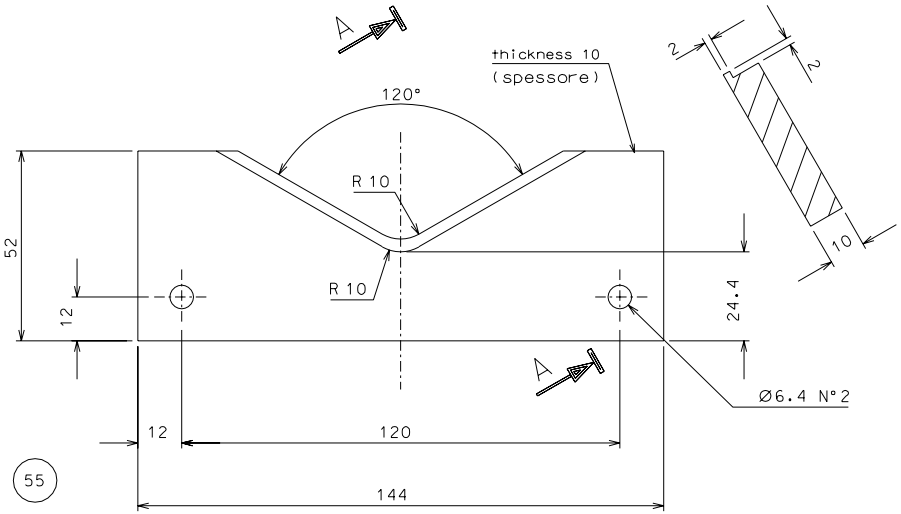


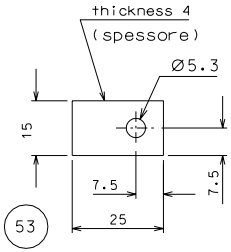












ref.	note	date	signature
	modifications		

rif.	pezzi	mat. e trattamento	scale
57	2	teflon	1:1
55	1	UNI9006/4	1:1
54	2	UNI9006/4	1:1
53	2	UNI9006/4	1:1
52	1	UNI9006/4	1:1

rif.	pezzi	mat. e trattamento	scale
58	2	teflon	1:1

Tolleranze generali di lavorazione UNI 5307-63

Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A.Takamori

N. payl300.021

dis. PROMEC 6.10.02

part. dal 009-010-011

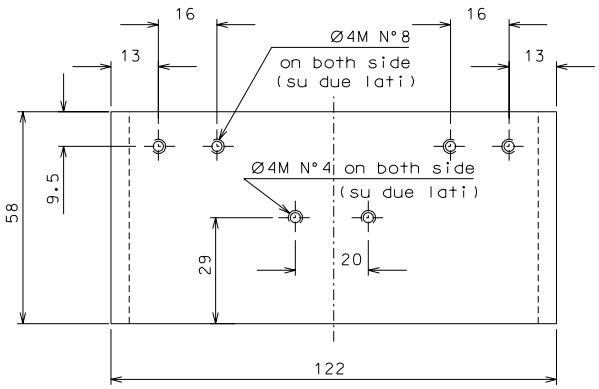
titolo

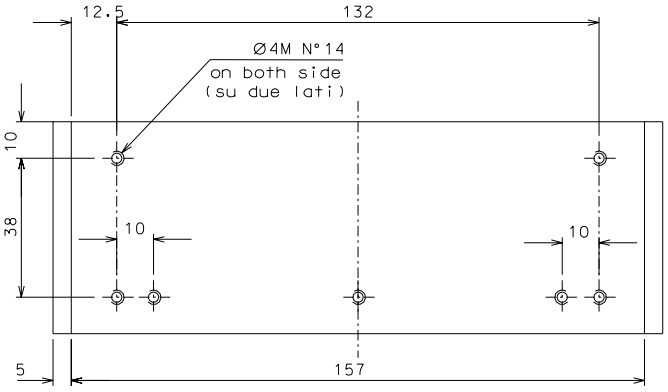
Payload 300

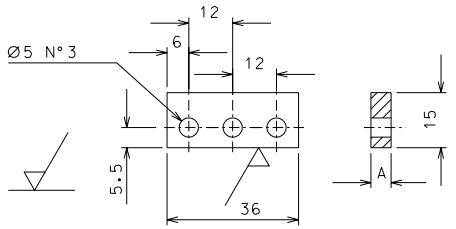
DETAILS

sost. il N.

A 2

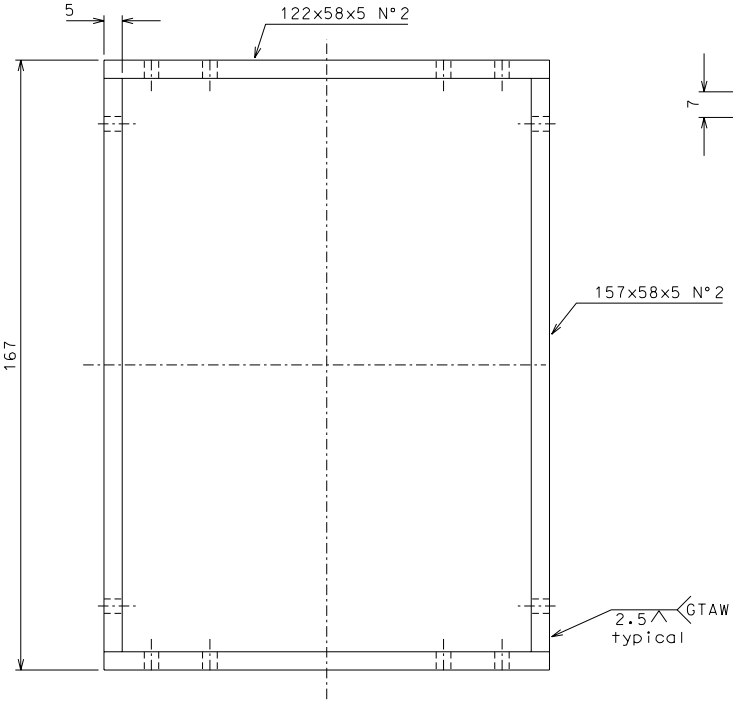




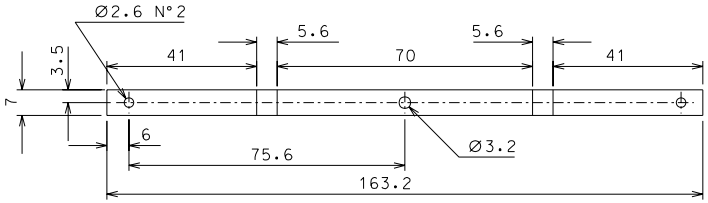


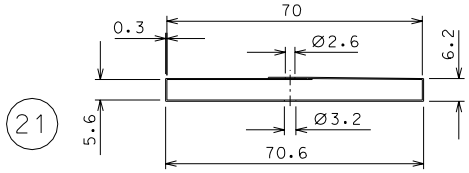
16 (spigoli vivi sbavati)

	A
16	1
16.1	2
16.2	3

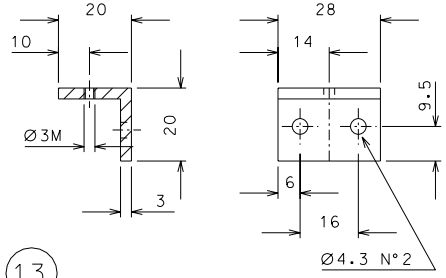


14

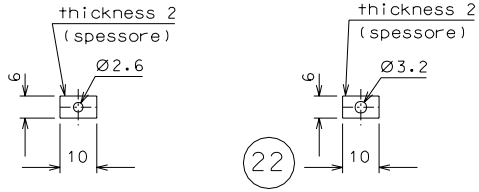




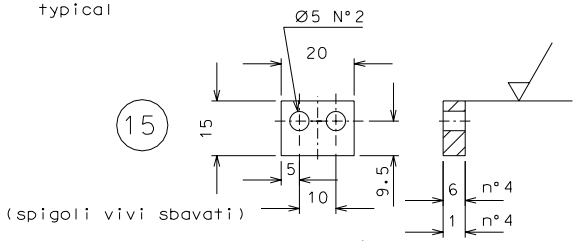
21



13



5 22



15 (spigoli vivi sbavati)

ref.	note	date	signature

modifications

16	8	AISI 304	1:1
15	4+4	AISI 304	1:1
14	1	SUS 403	1:1
13	4	UNI9006/4	1:1
5	8	AISI 304	1:1
rif.	pezzi	mat. e trattamento	scale

22	4	AISI 304	1:1
21	4	phosphor bronze	1:1
16.2	8	AISI 304	1:1
16.1	8	AISI 304	1:1
rif.	pezzi	mat. e trattamento	scale

Tolleranze generali di lavorazione UNI 5307-63								
Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A. Takamori

N. payl300.022

dis. PROMEC 6.10.02

titolo

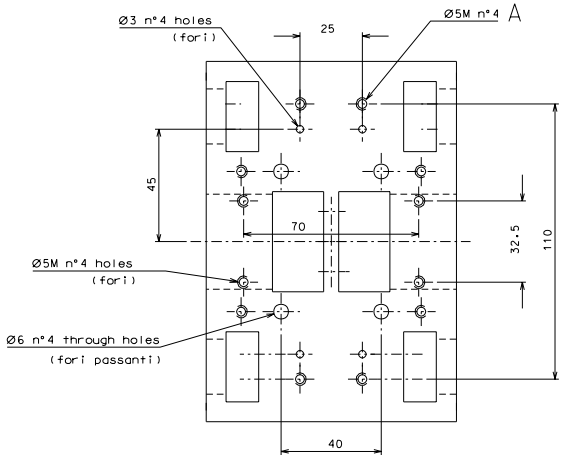
Payload 300

DETAILS

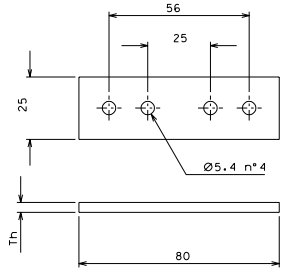
part. dal 000-001

sost. il N.

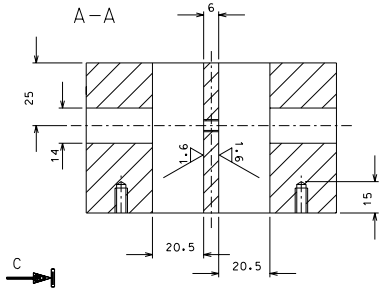
A 2

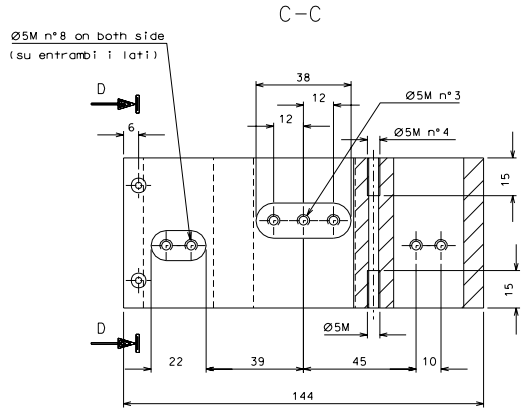


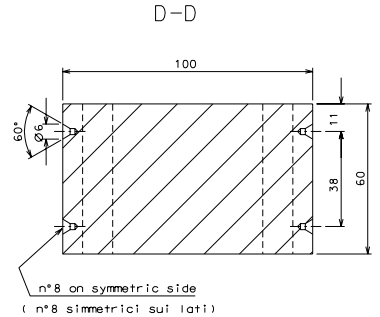
Thickness	8	4	2	1	0.5
Pieces N.	16	9	9	9	9

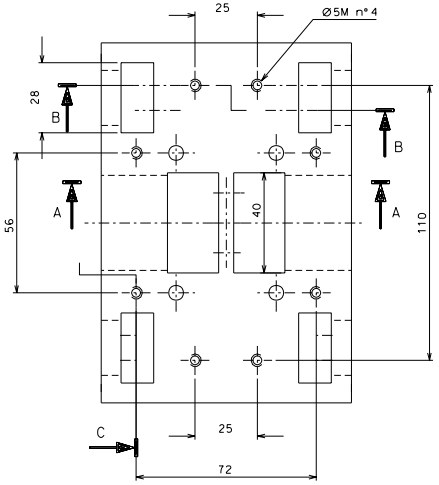


6

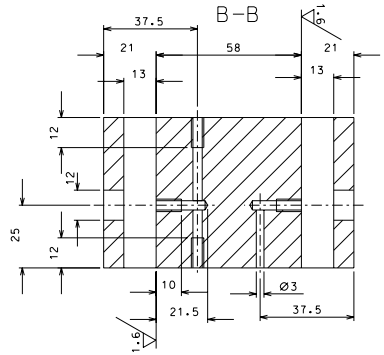








17



ref.	note	date	signature
	modifications		

17	1	UNI 9006/4	1:1	
6	52	AISI 316	1:1	
rif.	pezzi	mat. e trattamento	scala	

rif.	pezzi	mat. e trattamento	scala

Tolleranze generali di lavorazione UNI 5307-63								
Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'		± 10'	riferite al lato più corto		

TAMA PROJECT

cliente A.Takamori

N. payl300.023

ufficio PROMEC 6.10.02

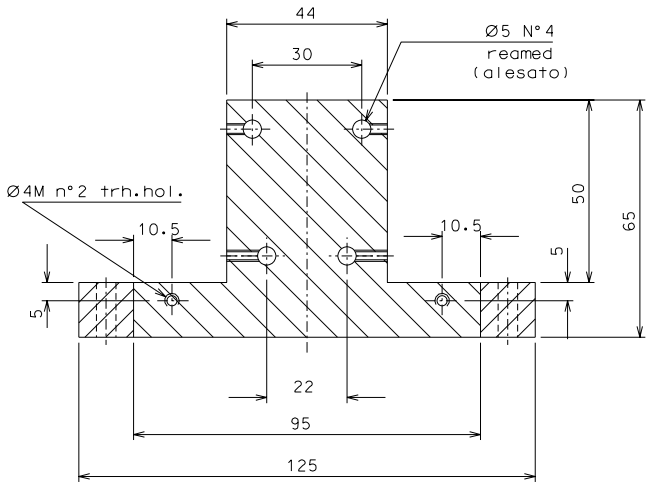
titolo

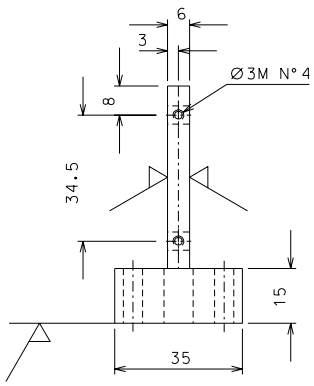
Payload 300

DETAILS

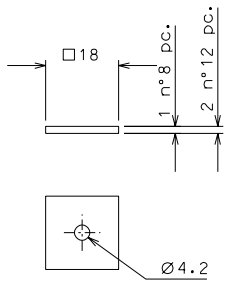
part. del 001

scala 1:1 N. A 1

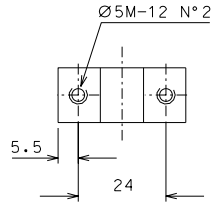




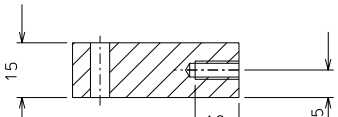
30

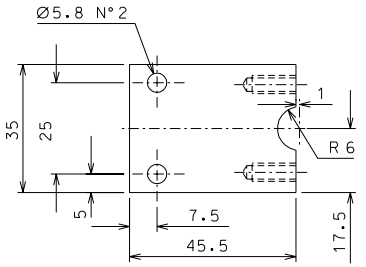


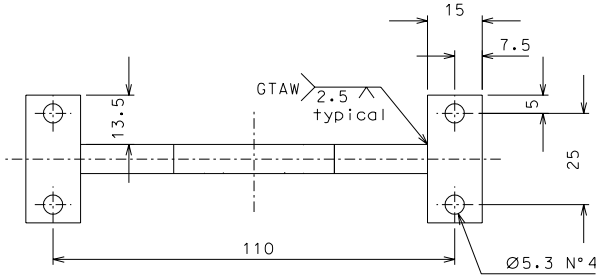
30.1

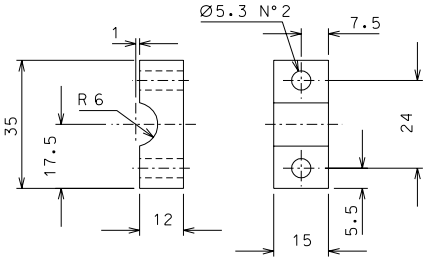


62

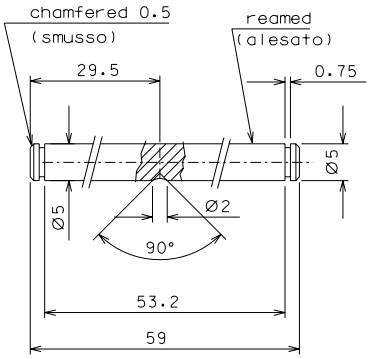




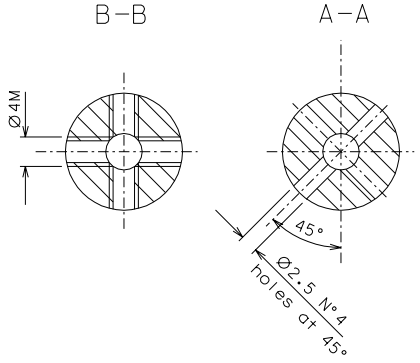


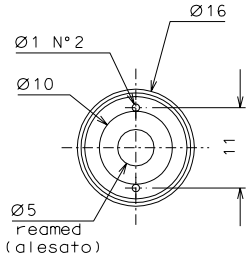


36

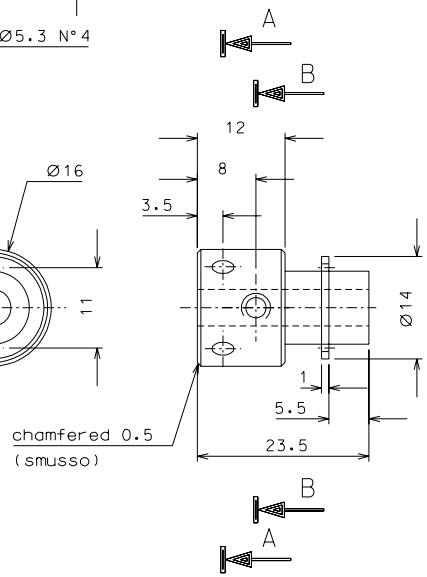


31





29



ref.	note	date	signature
	modifications		

36	2	UNI9006/4	1:1
31	4	AISI 304	2:1
30.1	20	AISI 304	1:1
30	1	AISI 304	1:1
29	8	bronze	2:1
rif.	pezzi	mat. e trattamento	scale

62	2	UNI9006/4	1:1
rif.	pezzi	mat. e trattamento	scale

Tolleranze generali di lavorazione UNI 5307-63								
Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A.Takamori

N. payl300.024

dis. PROMEC 6.10.02

titolo

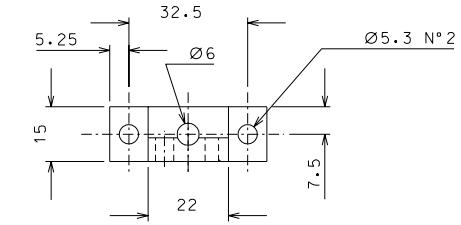
Payload 300

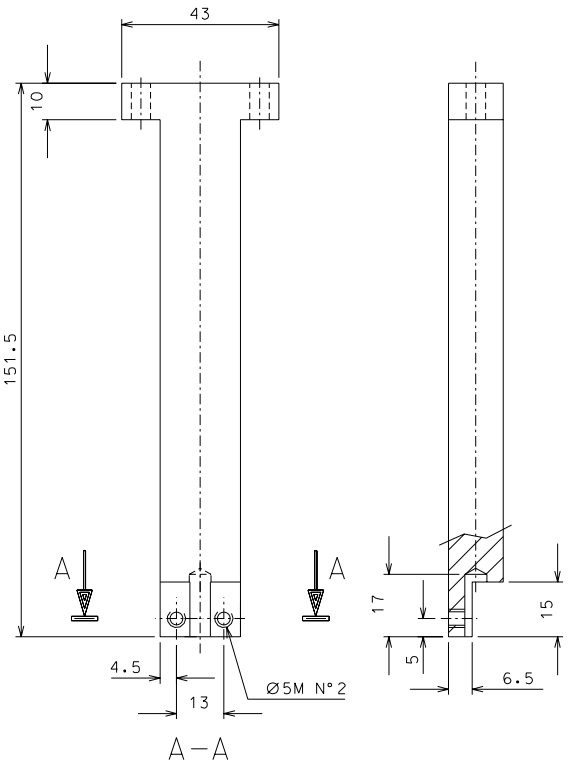
DETAILS

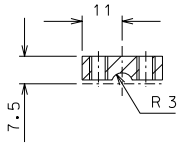
part. dal 006-007

sost. il N.

A 2







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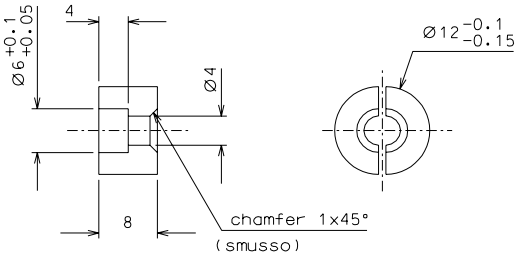
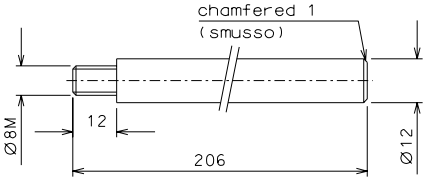


63 light nickel plate
(nichelatura leggera)



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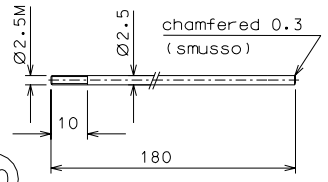
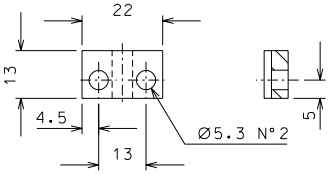
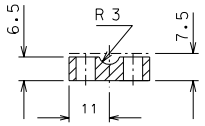


20





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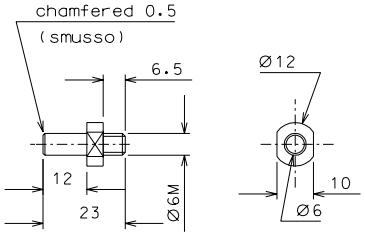

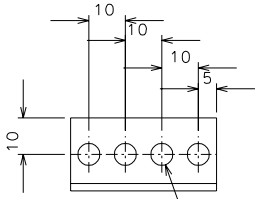

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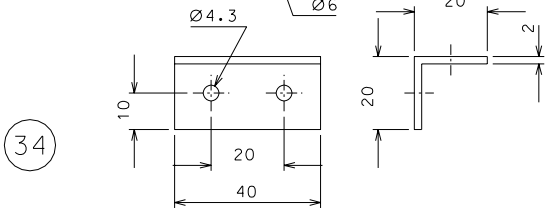


34

ref.	note	date	signature

modifications

38	2	UNI 9006/4	1:1
37	2	UNI 9006/4	1:1
35	2	AISI 304	1:1
34	2	UNI 9006/4	1:1
20	4	AISI 304	1:1
rif.	pezzi	mat. e trattamento	scale

63	1	maraging	2:1
39	2	AISI 304	1:1
rif.	pezzi	mat. e trattamento	scale

Tolleranze generali di lavorazione UNI 5307-63

Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A. Takamori

N. payl300.025

dis. PROMEC 7.01.03

part. dal 001-007

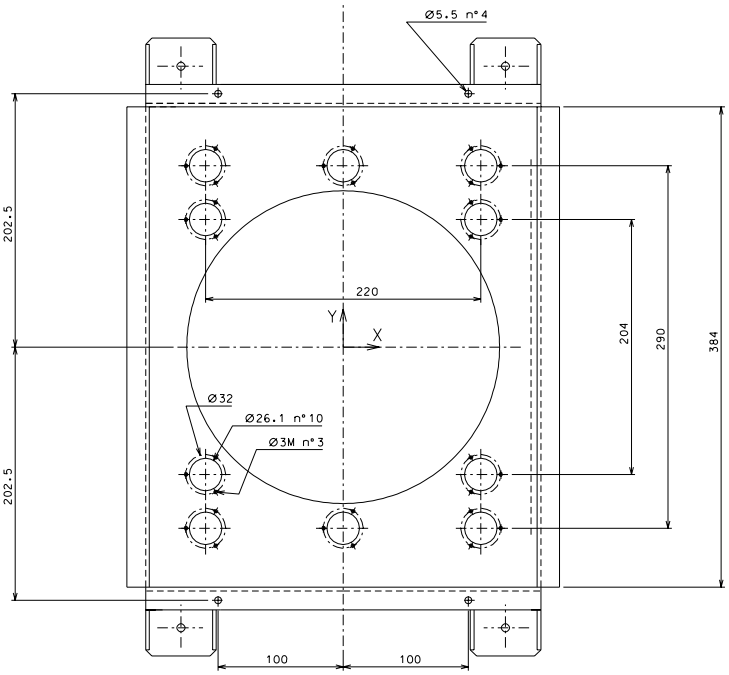
titolo

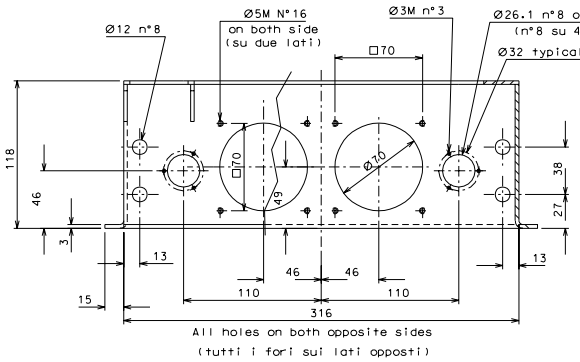
Payload 300

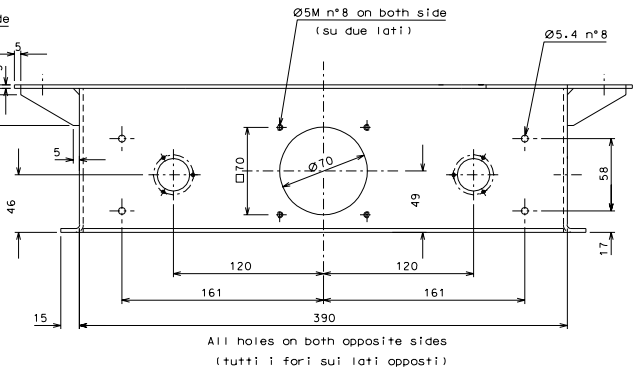
DETAILS

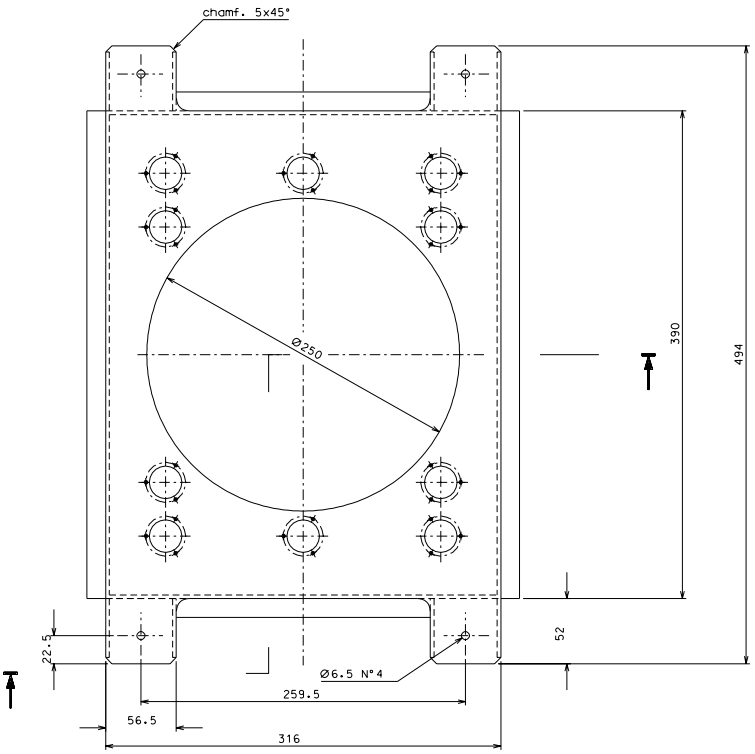
sost. il N.

A 2







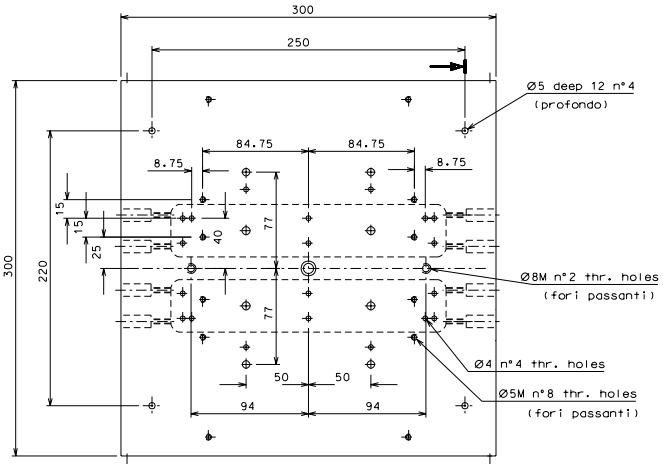


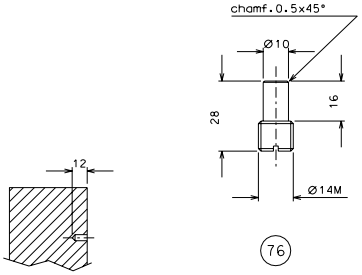
ref.	note	date	signature
modifications			

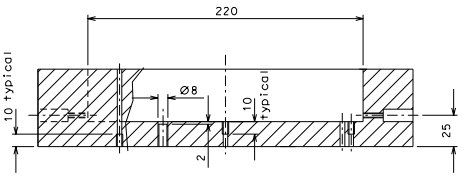
10	1	AISI 304 L	1:2					
ref.	pieces	mat. and treatments	scale		ref.	pieces	mat. and treatments	scale

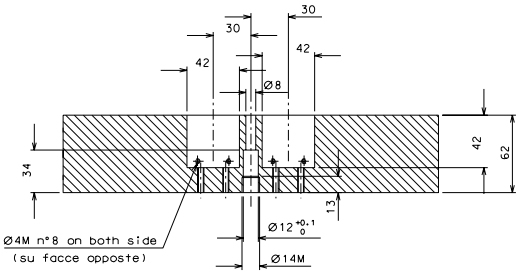
General machining tolerances UNI 5307-63							
Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear toll.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular toll.	± 1	± 30'	± 20'		± 10'	referred to the shortest side		

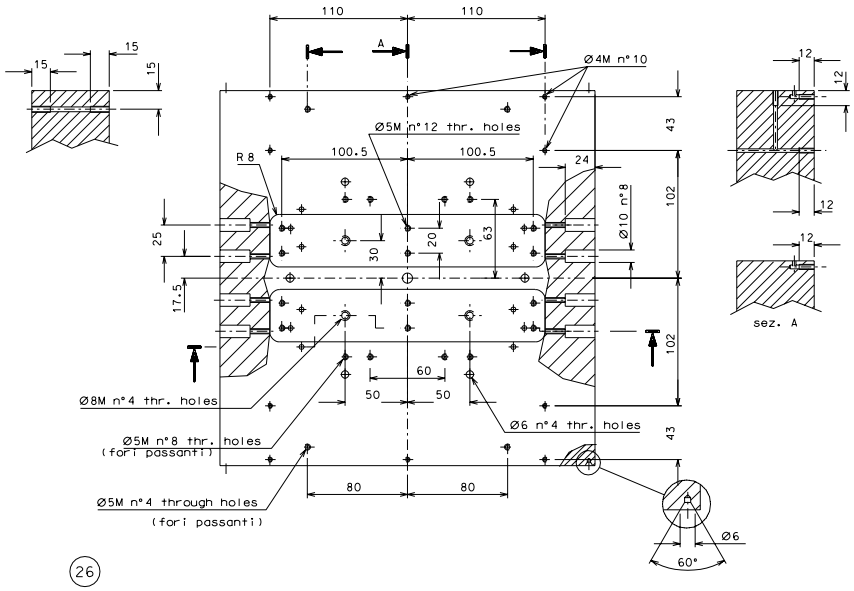
TAMA PROJECT	designed for	A.Takamori
	n.	payl300.026
title	PAYLOAD 300 DETAIL	dron. PROMEC 6-10-02
	details from	000
	replaces dr. Numb.	A 1

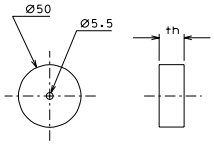








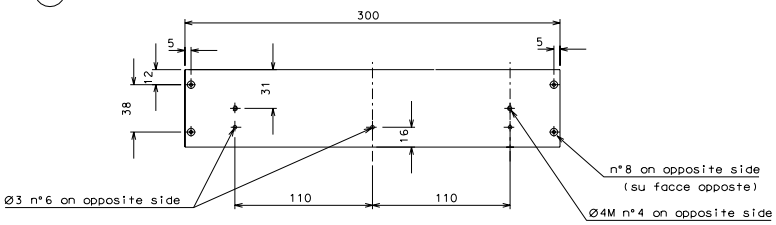




Thickness	40	20	10	5
Pieces N.	4	4	4	4

26.1

26



ref.	note	date	signature
	modifications		

76	16	AISI 316	1:1
26.1	16	AISI 304	1:2
26	1	UNI 9006/4	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'	referred to the shortest side		

TAMA PROJECT

designed for A.Takamori

n. payl300.027

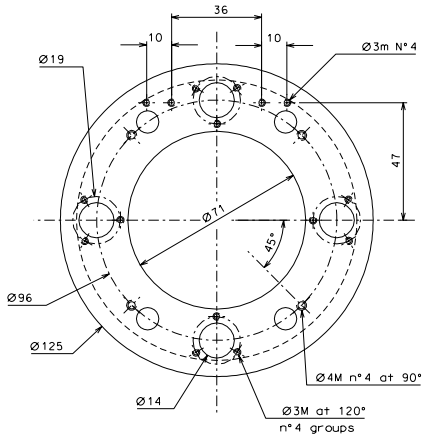
title: PAYLOAD 300 DETAIL

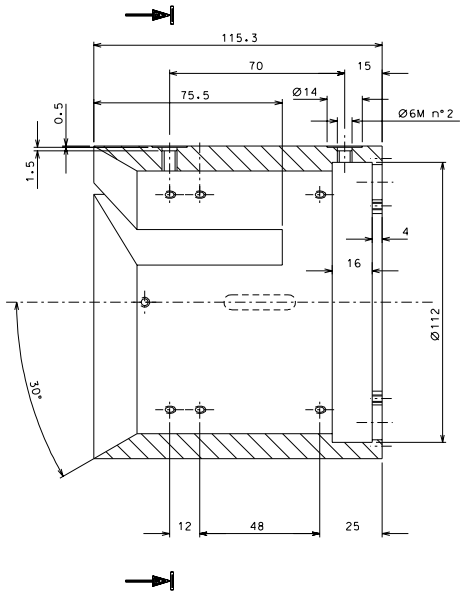
drw. PROMEC 6-10-02

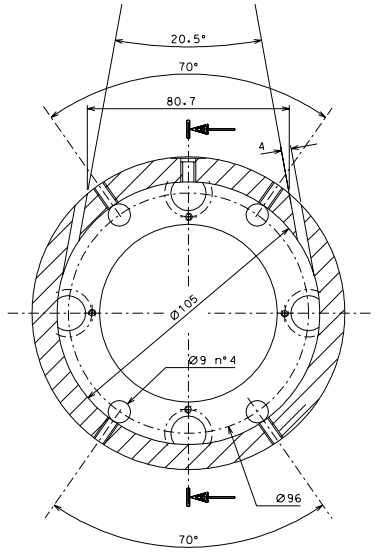
details from 005

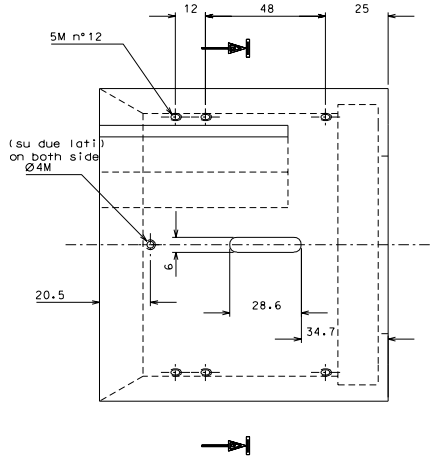
replaces dr. Numb.

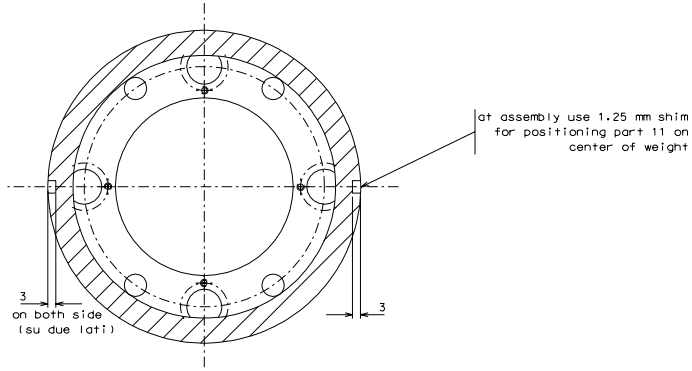
A 1











ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
18	1	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular toll.	± 1	± 30'	± 20'		± 10'	referred to the shortest side		

TAMA PROJECT

designed for A. Takamori

n. payl300.028

drw. PROMEC 6-10-02

details from 001

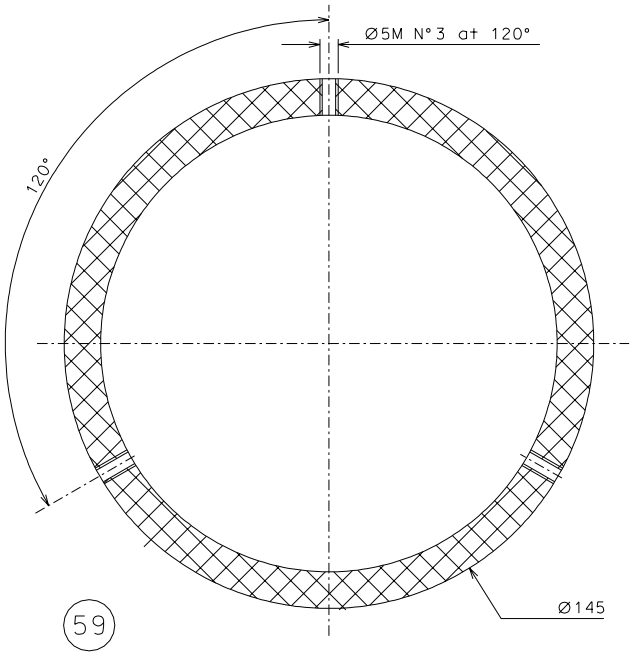
title

PAYLOAD 300

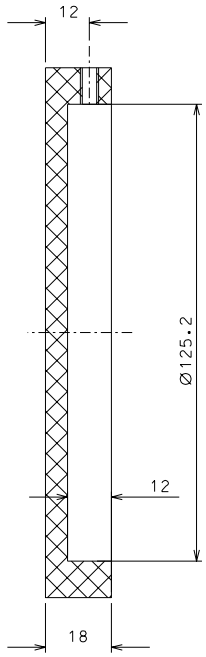
DETAIL

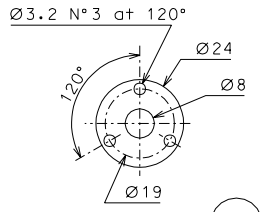
replaces dr. Numb.

A 2

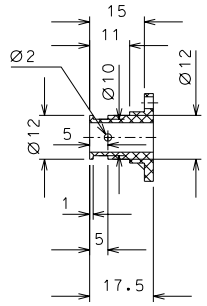


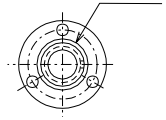
59

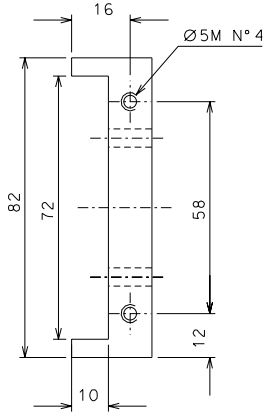


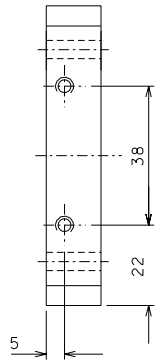


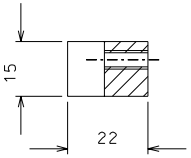
19



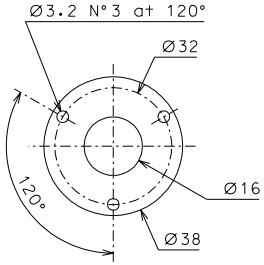


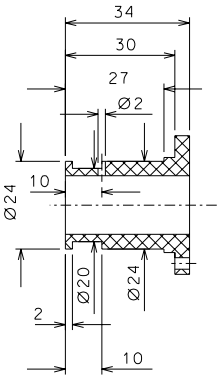


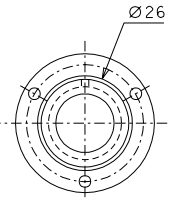




24







25

ref.	note	date	signature

modifications

59	1	PVC	1:1
25	8	peek	1:1
24	4	UNI 9006/4	1:1
19	4	peek	1:1
rif.	pezzi	mat. e trattamento	scale

rif.	pezzi	mat. e trattamento	scale

Tolleranze generali di lavorazione UNI 5307-63

Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A. Takamori

N. payl300.029

dis. PROMEC 6.10.02

titolo

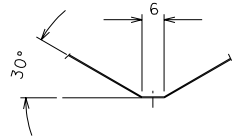
Payload 300

DETAILS

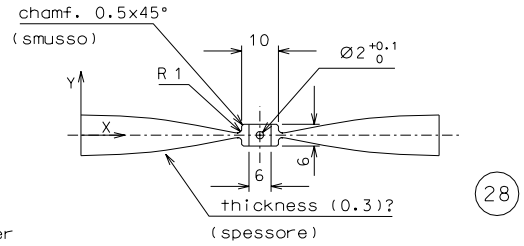
part. dal 001-005-013

sost. il N.

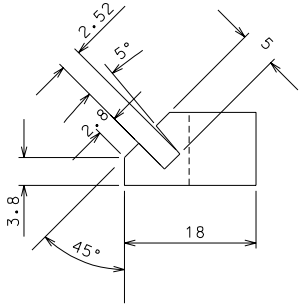
A 2

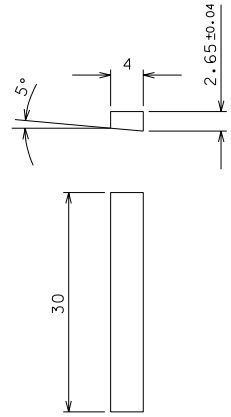


X	Y
0	5.38
10.7	5.25
19.03	4.66
23.2	4.125
31.53	2.78
41.94	.75
42.75	.65
43.07	.65
49	0 center



28

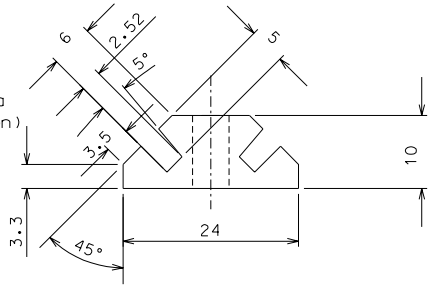


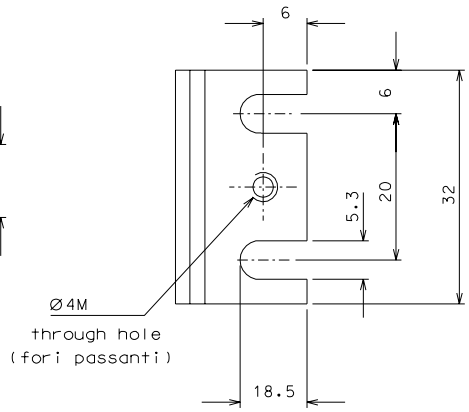


64 ground surface
(lati rettificati)

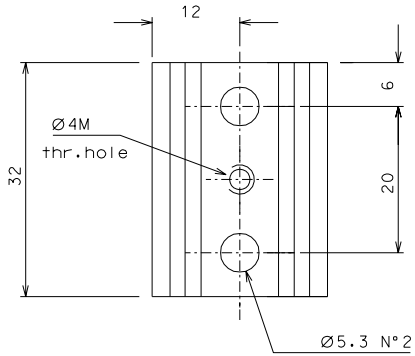
Surface treatment: Electropolishing and light nickel-plating
(Trattamento superfice:Elettropulitura e nichelatura leggera)

Termal treatment: Baking at 435° for 100 hours in argon atmosphere
(Trattamento termico: Riscaldamento a 435° per 100 ore in atmosfera di argon)





27



23

ref.	note	date	signature
	modifications		

64	12	AISI 304	2:1
28	4	maraging	1:1
27	4	AISI 304	2:1
23	2	AISI 304	2:1
rif.	pezzi	mat. e trattamento	scale

rif.	pezzi	mat. e trattamento	scale

Tolleranze generali di lavorazione UNI 5307-63

Dimensioni	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato più corto				

TAMA PROJECT

cliente A. Takamori

N. payl300.031

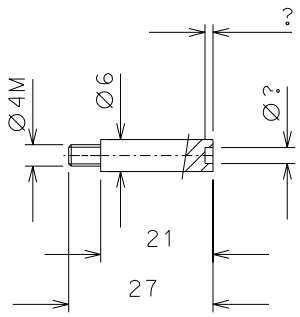
dis. PROMEC 6.10.02

titolo
Payload 300
DETAILS

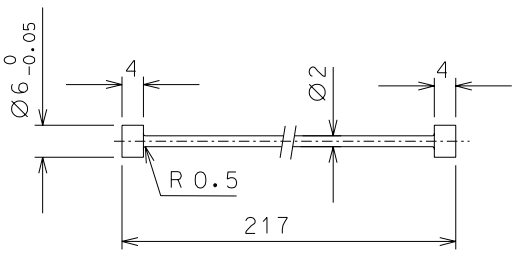
part. dal 000-005

sost. il N.

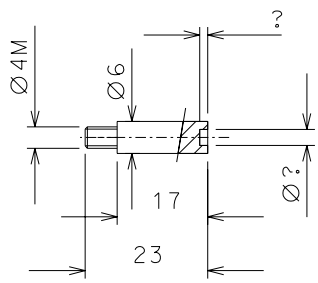
A 2



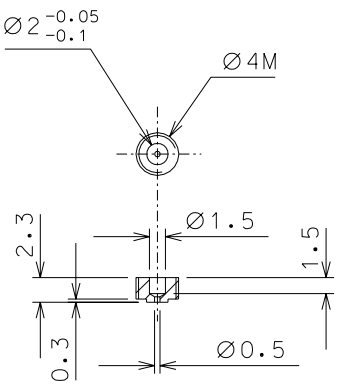
69



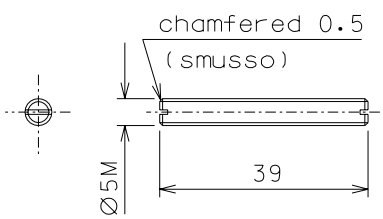
67



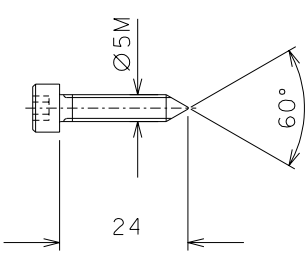
68



73



72



66

ref.	note	date	signature

modifications

rif.	pezzi	mat. e trattamento	scale
72	3	stainless steel	1:1
69	4	peek	1:1
68	4	peek	1:1
67	1	maraging	1:1
66	16	stainless steel	1:1

rif.	pezzi	mat. e trattamento	scale
73	4	bronze	1:1

Tolleranze generali di lavorazione UNI 5307-63								
Dimensioni	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
Toll. lineari	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
Toll. angolari	± 1	± 30'	± 20'	± 10' riferito al lato piu corto				

TAMA PROJECT

cliente A. Takamori

N. payl300.032

dis. PROMEC 7.01.03

part. dal 000-001-005

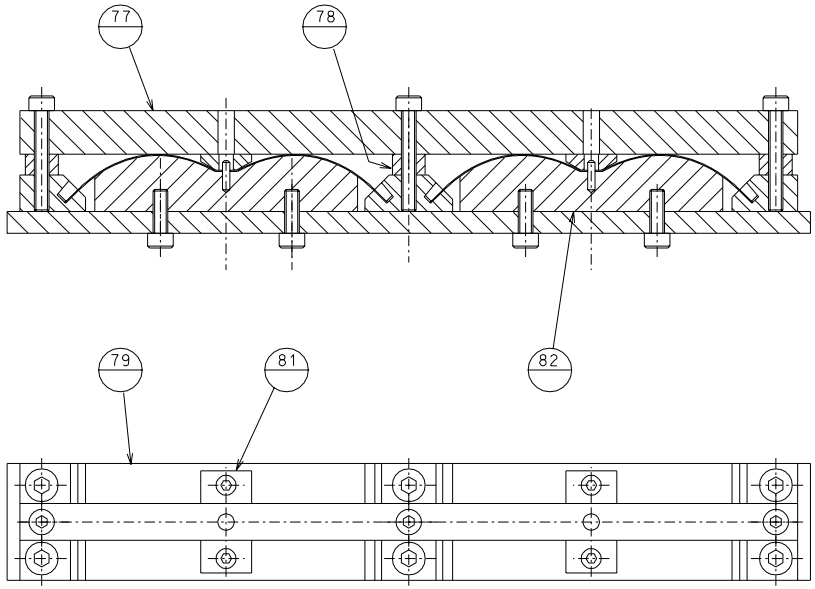
sost. il N.

A 3

titolo

Payload 300

DETAILS



detail	type	n°piec.

Screw's table

ref.	note	date	signature

modifications

82	034	
81	034	
79	034	
78	034	
77	034	
ref.	draw.	added legend

ref.	draw.	added legend

TAMA PROJECT

designed for A. Takamori

ass. numb. payl300.033

drw. PROMEC 6-10-02

title

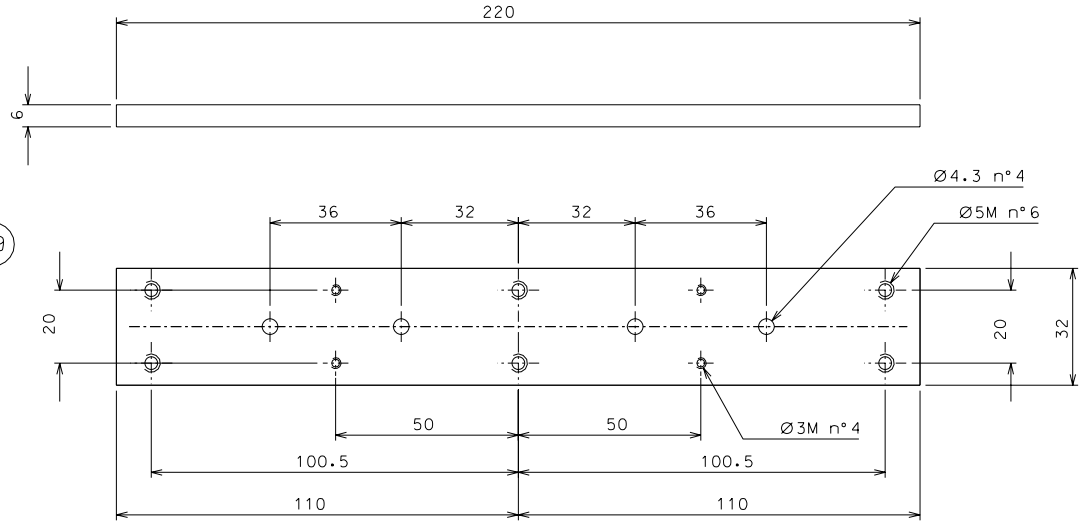
PAYLOAD 300

TOOLS ASSEMBLY

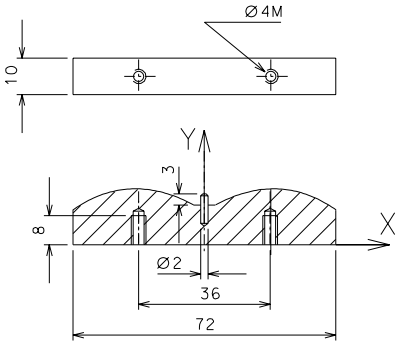
scale 1:1

replaces dr. Numb.

A 2

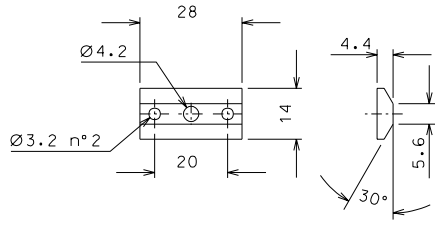


79

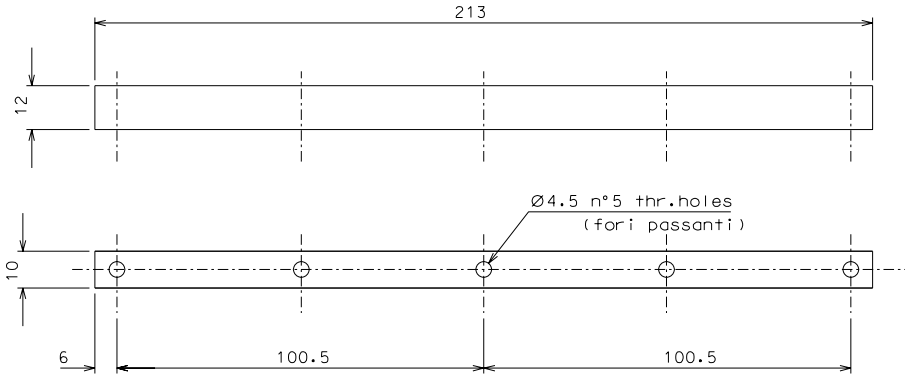


82

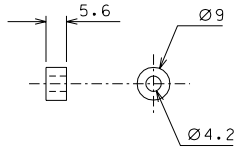
X	Y
0	10.9
3.2	10.9
8.2	13.3
13.2	14.74
18.2	15.31
23.2	14.99
28.2	13.7
33.2	11.36
36	9.53



81



77



78

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
82	2	UNI 9006/4	1:1
81	4	stainless steel	1:1
79	1	UNI 9006/4	1:1
78	3	UNI 9006/4	1:1
77	1	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A. Takamori

N. pay1300.034

drow. PROMEC 6-10-02

details from 033

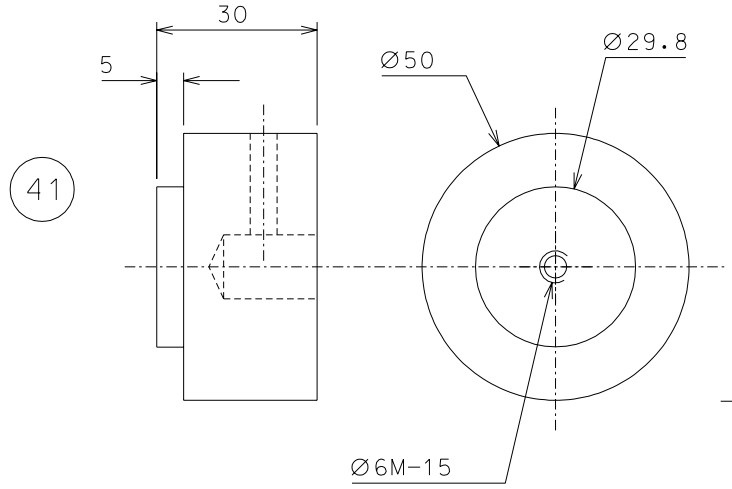
title

PAYLOAD 300

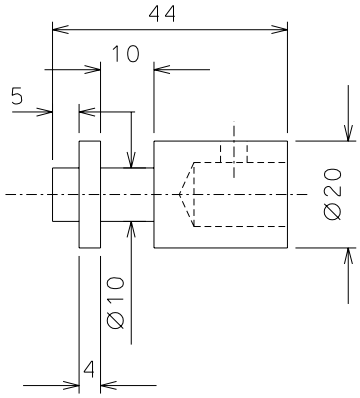
TOOLS DETAILS

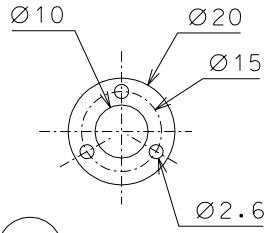
replaces dr. Numb.

A 2

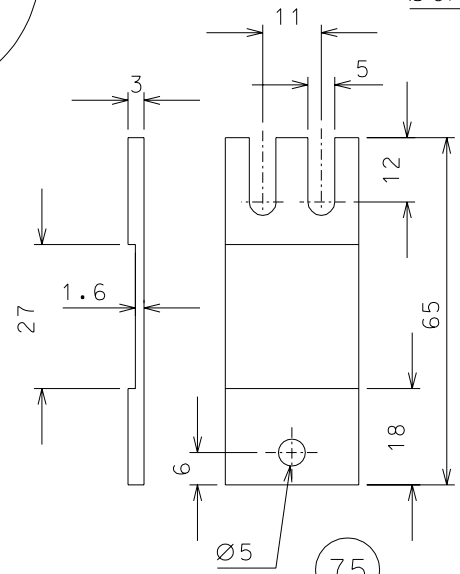


41

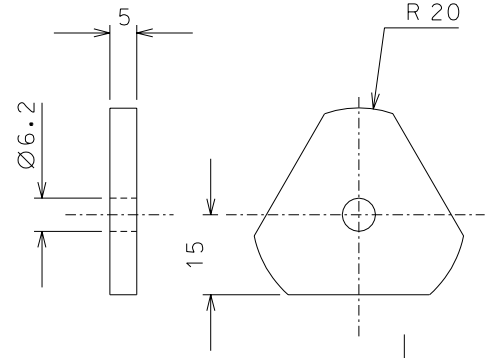




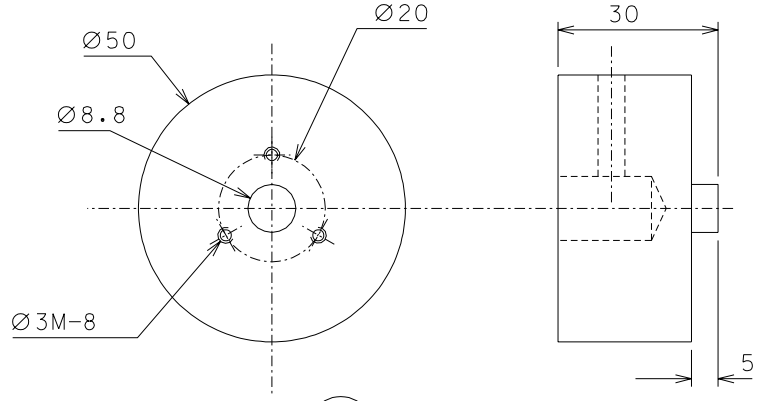
86



75



84



85

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
86	1	UNI 9006/4	1:1
85	1	UNI 9006/4	1:1
84	1	UNI 9006/4	1:1
75	1	UNI 9006/4	1:1
41	1	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

TAMA PROJECT

designed for A.Takamori

N. payl300.035

draw. PROMEC 6-10-02

details from 001

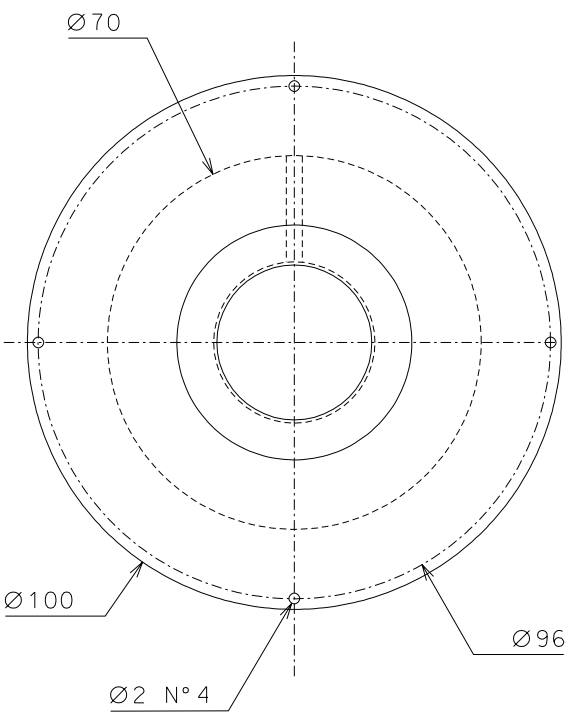
title

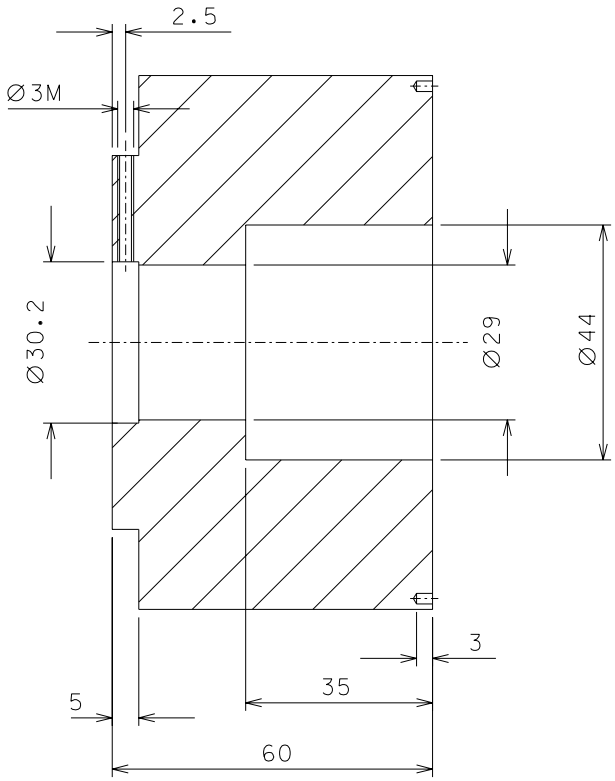
PAYLOAD 300

TOOLS

replaces dr. Numb.

A 3





87

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
87	1	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

TAMA PROJECT

designed for A. Takamori

N. payl300.036

draw. PROMEC 6-10-02

details from 001

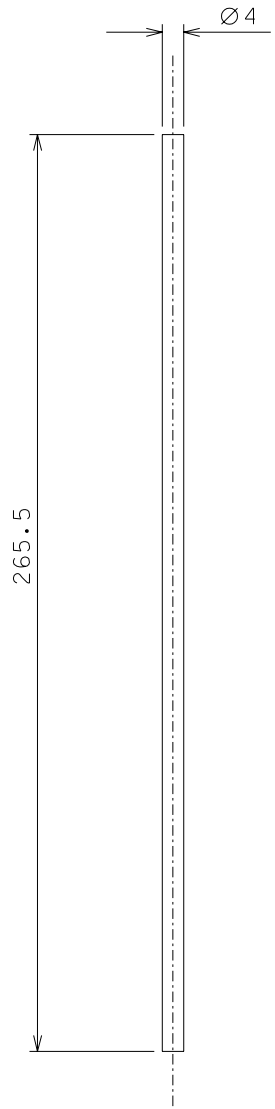
replaces dr. Numb.

A 3

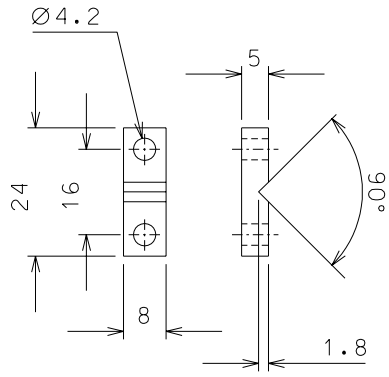
title

PAYLOAD 300

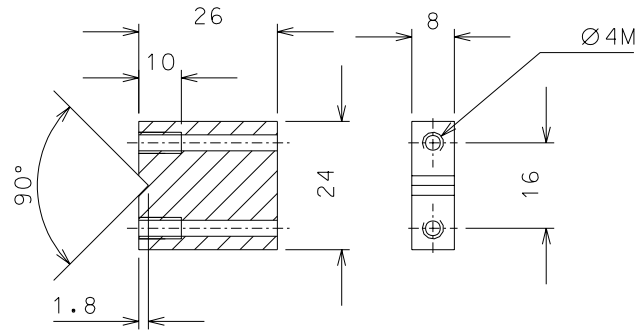
DUMMY MIRROR



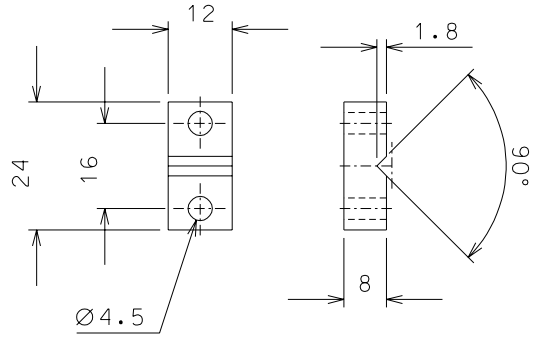
88



7



8



60

88	2	AISI 304	1:1
60	4	AISI 304	1:1
8	2	AISI 304	1:1
7	2	AISI 304	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

TAMA PROJECT

designed for A. Takamori

N. payl300.037

draw. PROMEC 6-10-02

details from 000

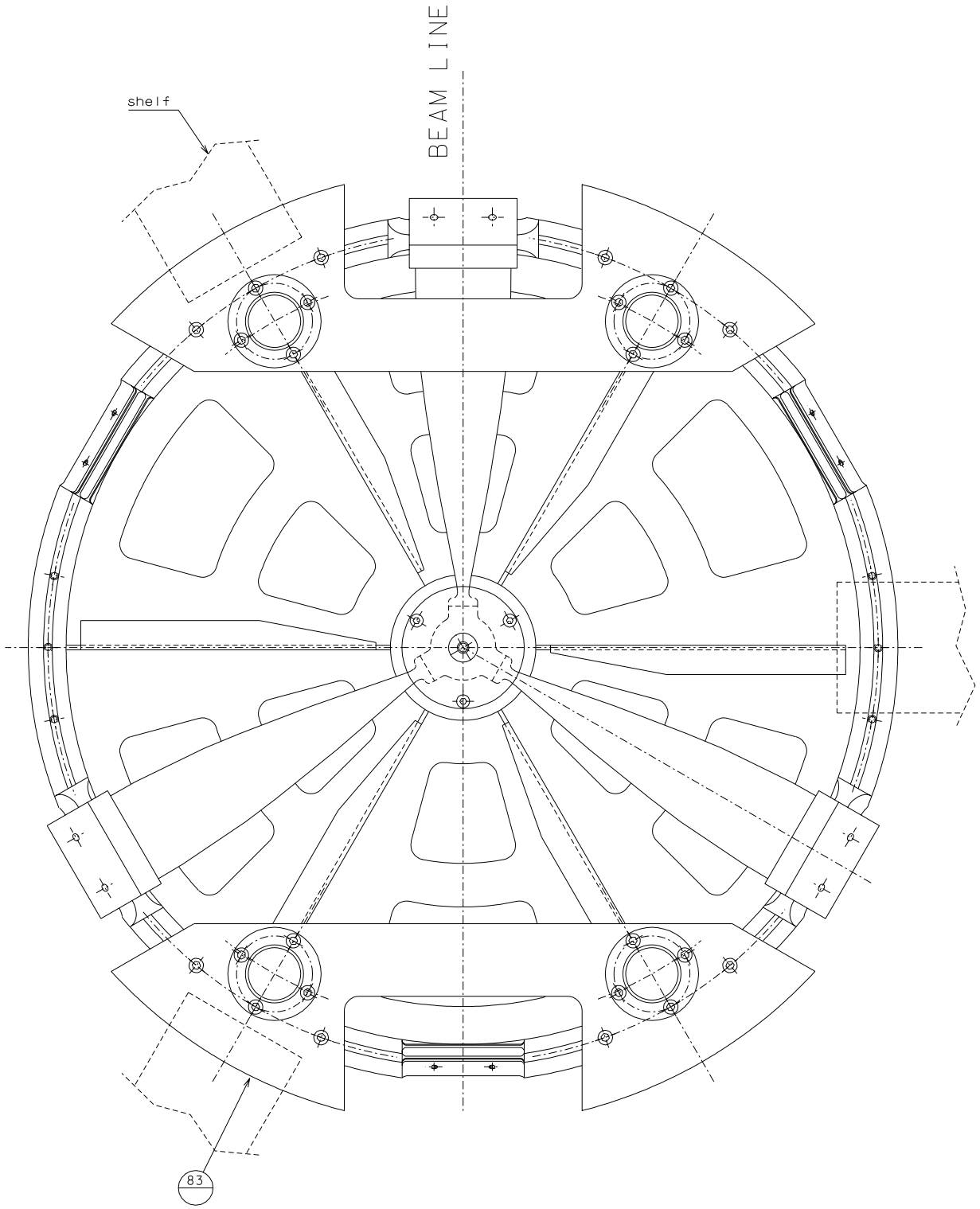
replaces dr. Numb.

A 3

title

PAYLOAD 300

DETAILS



detail	type	n°piec.
Screw's table		

83	039	plate connection
ref.	draw.	added legend

ref.	draw.	added legend

TAMA PROJECT

designed for A.Takamori

ass. numb. pay1300.038

draw. PROMEC13-10-02

title

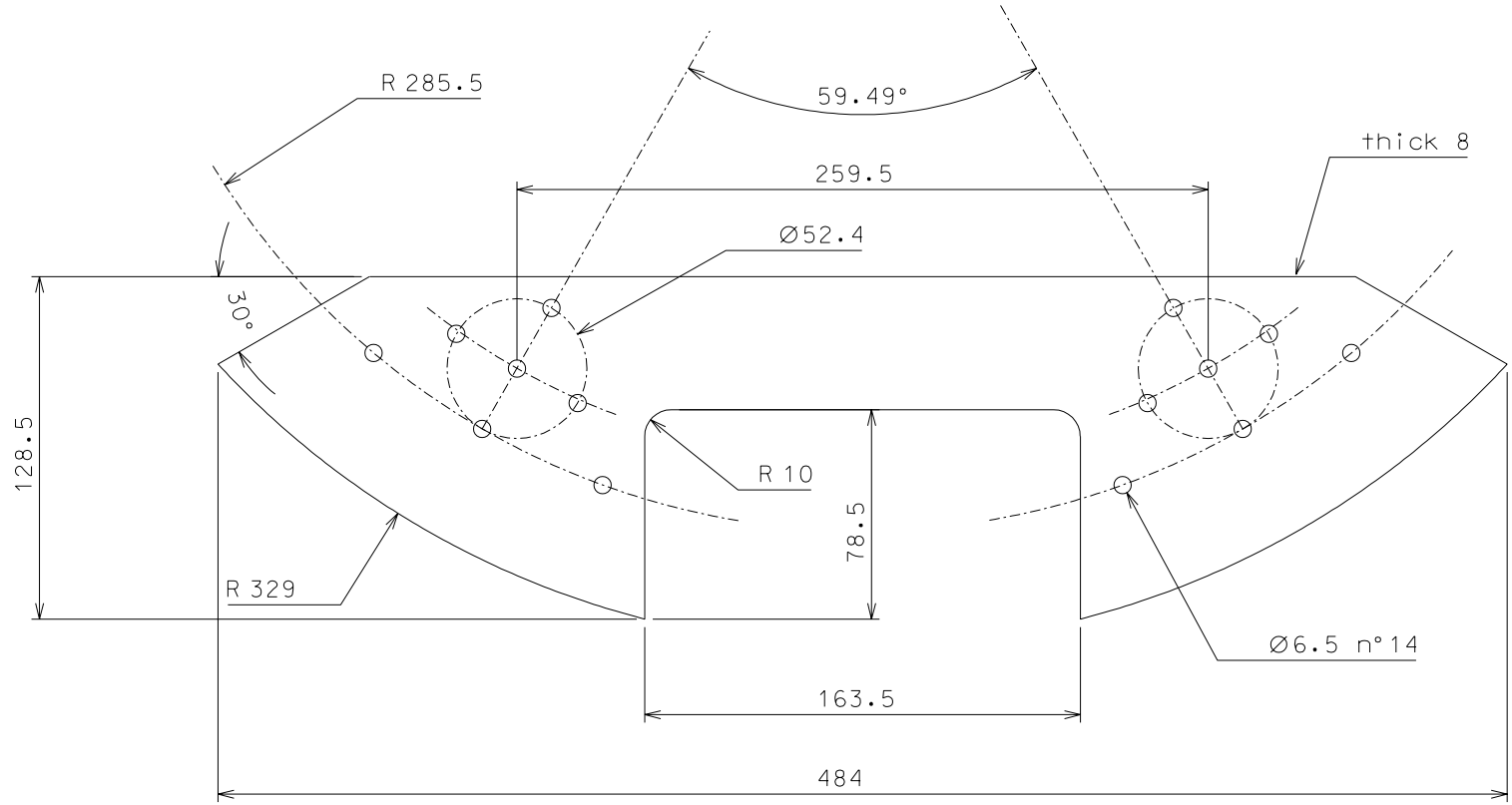
PAYLOAD 300

CONNECTION TO FILTER

scale 1:2

replaces dr. Numb.

A 2



83	2	AISI 304	1:2
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

ref.	note	date	signature

modifications

TAMA PROJECT

designed for A. Takamori

N. payl300.039

draw. PROMEC 13-10-02

details from 038

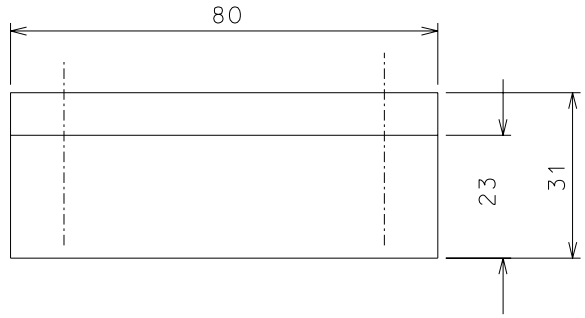
replaces dr. Numb.

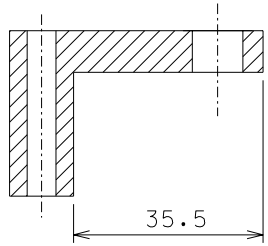
A 3

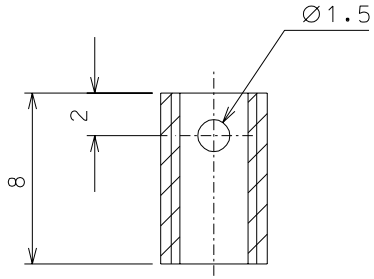
title

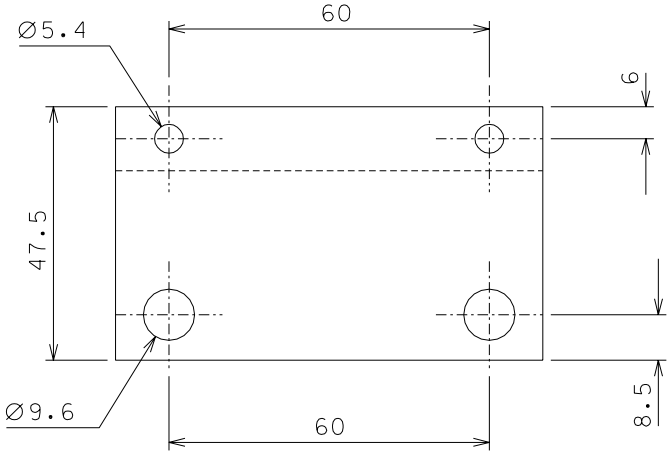
PAYLOAD 300

DETAIL

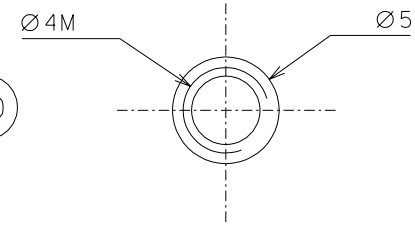




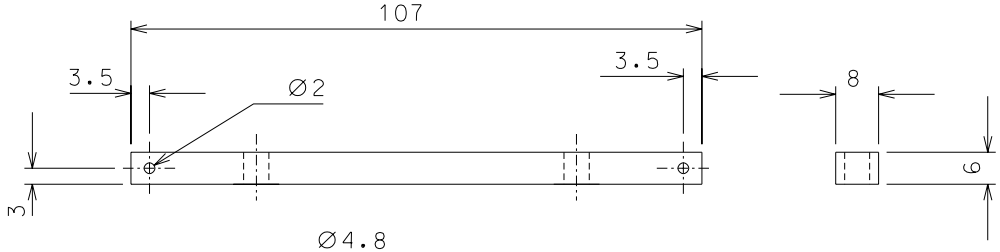




65



40



4

65	2	UNI 9006/4	1:1
40	4	inox	4:1
4	2	UNI 9006/4	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

TAMA PROJECT

designed for R. De Salvo

N. payl300.040

draw. PROMEC 6-11-02

details from 000-001

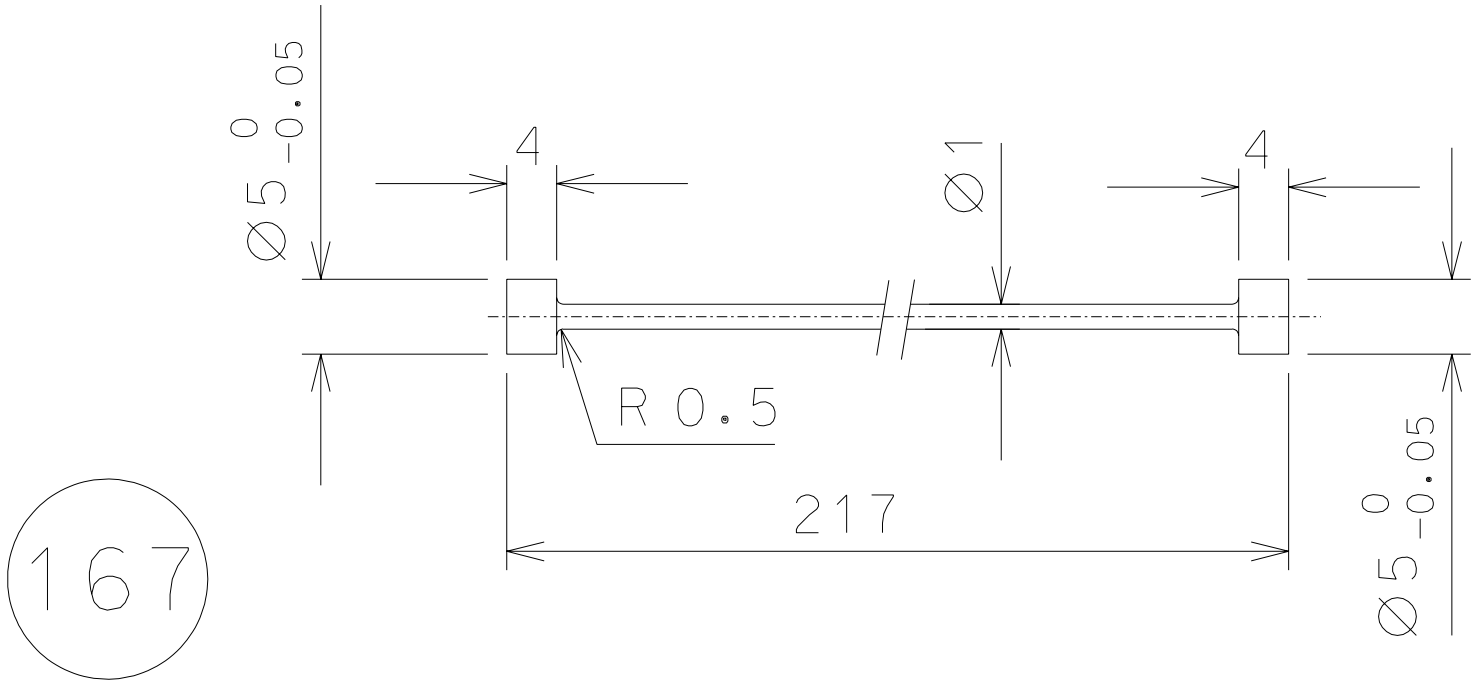
title

PAYLOAD 300

DETAILS

replaces dr. Numb.

A 3



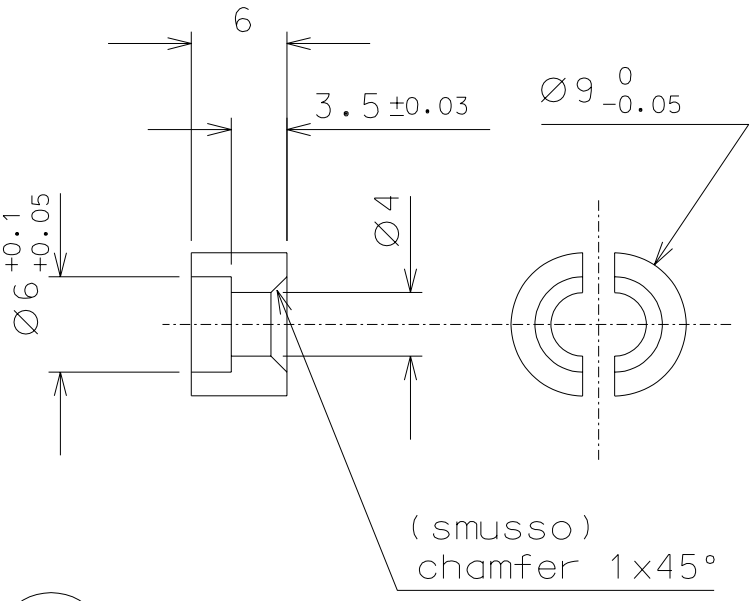
167

Ø2 −0.05 −0.1

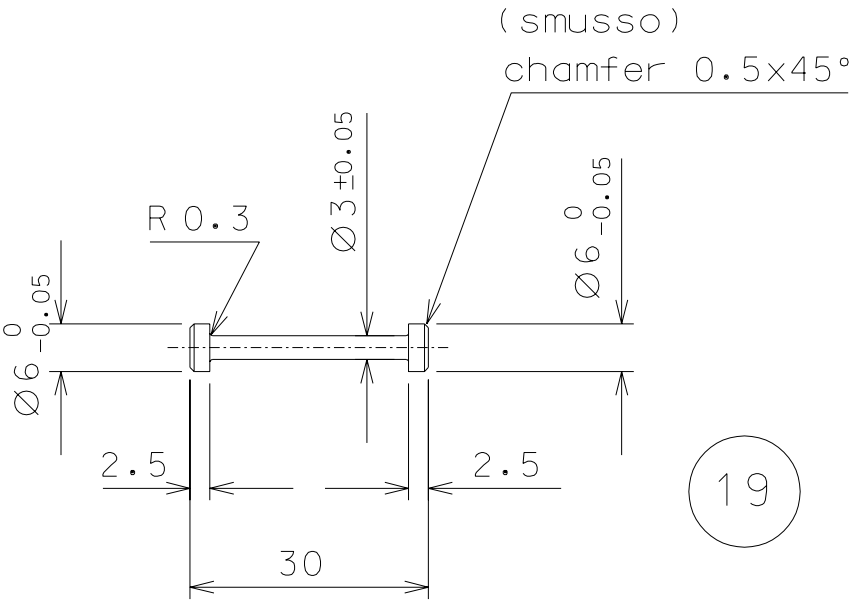
Ø4M

A

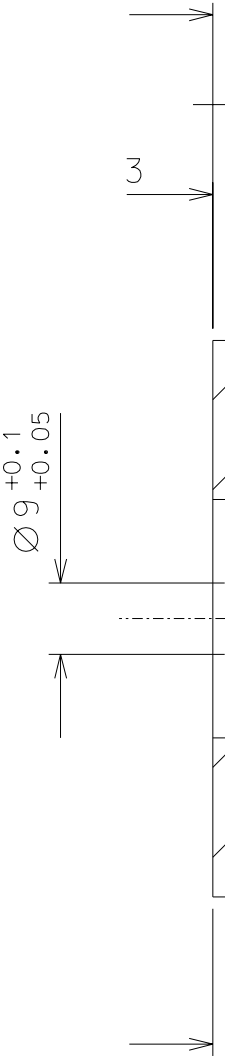
B



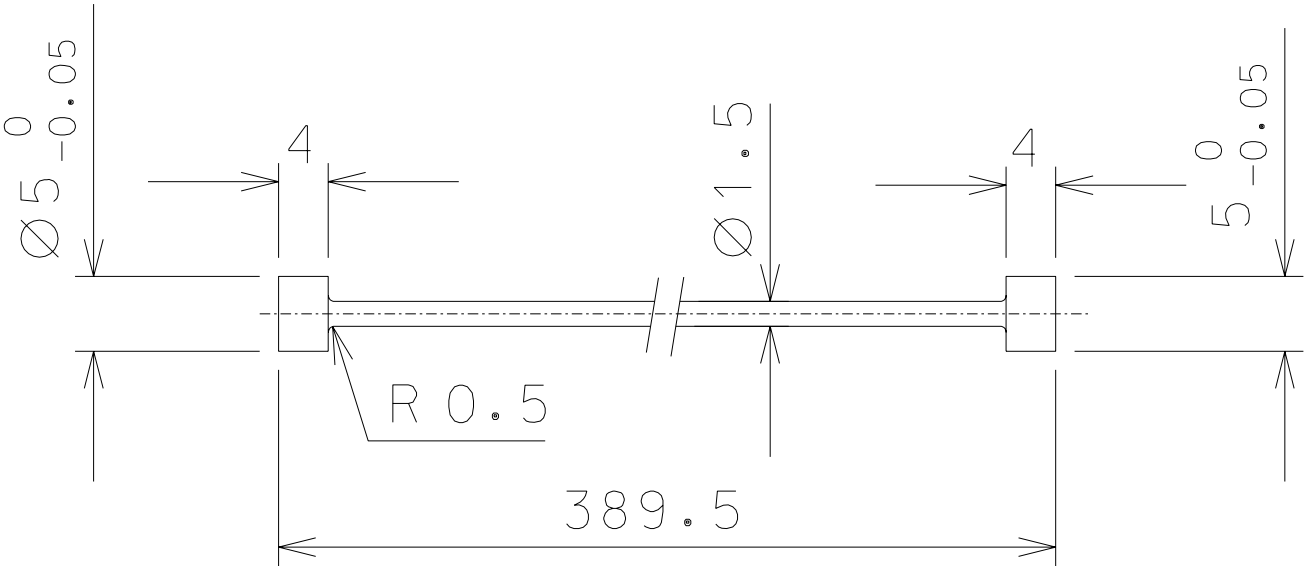
18 light nickel plated
(nichelato leggero)



19



Ø4.2 n°12

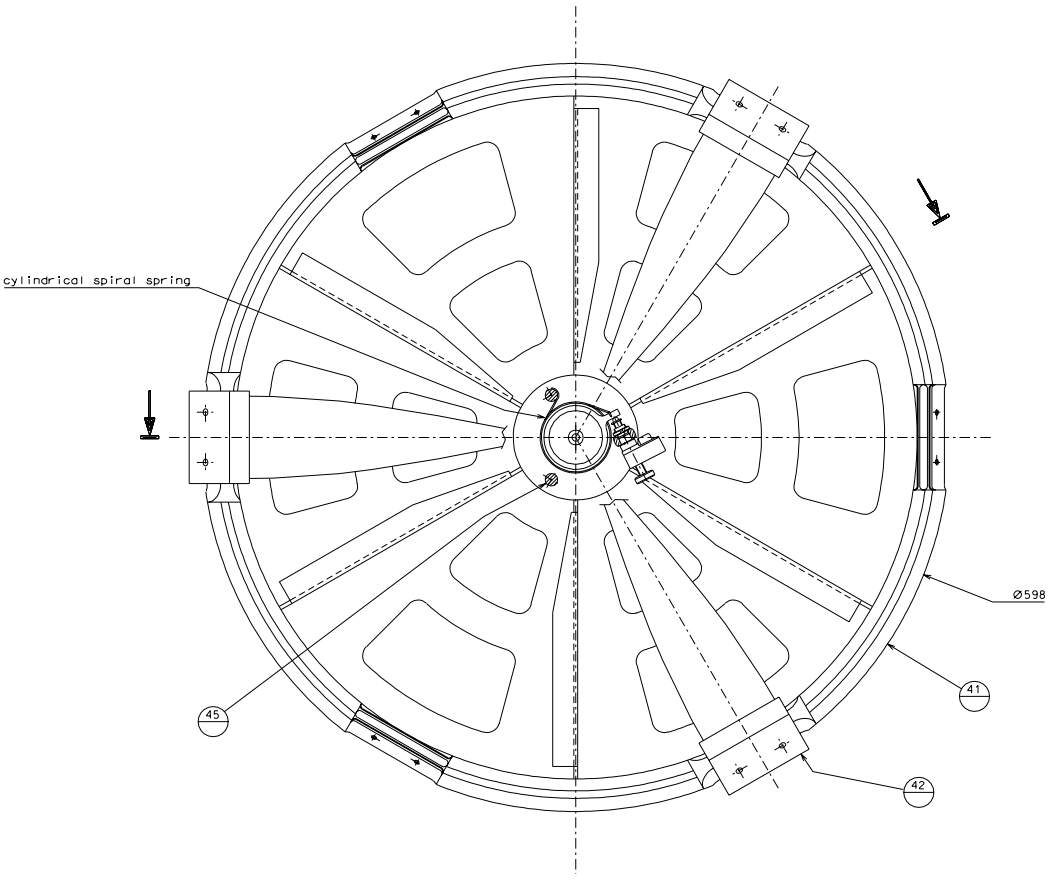


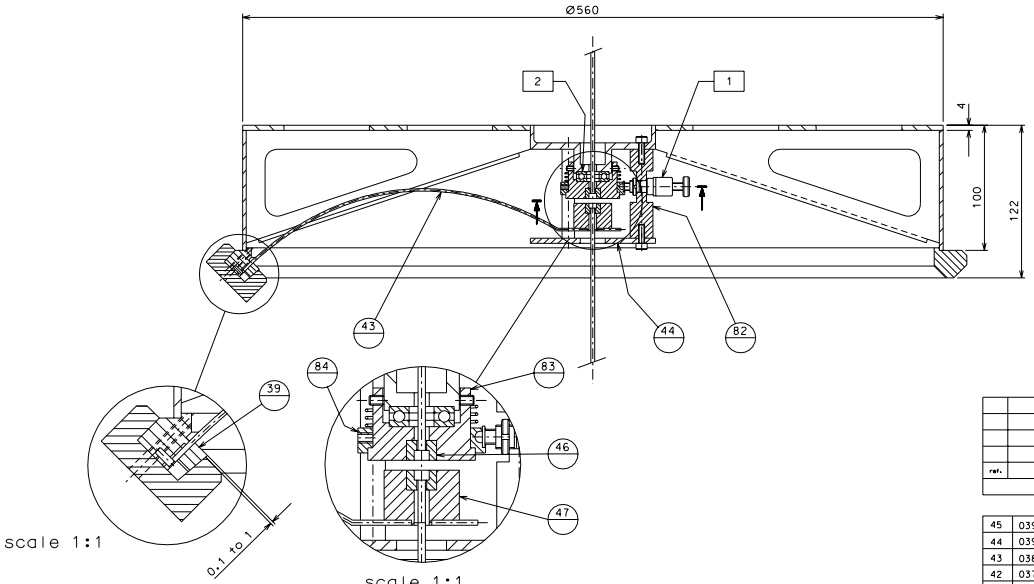
69

1 2

84	grub screw 4Mx5	1
83	grub screw 4Mx5	2
44	allen stand. socket M5x12	6
detail	type	n°piec.

Screw's table





scale 1:1

scale 1:1

Note - Test assembly: Wedge must be tested with a blade section of the same thickness of the blade material. The wedge base must stick out 0.1 to 1.0 mm from the clamp surface

ref.	note	date	signature

modifications

45	039	safety stand
44	039	safety disk
43	038	blade
42	037	blade's clamp
41	034	blade's ring
39	037	wedge
ref.	dran.	added legend

84	035	adjustment ring
83	037	cup rotable
82	035	clamp picomotor
47	039	1/2 cup retainer
46	037	1/2 cup
ref.	dran.	added legend

1 Picomotor 8301-V / n°1 piece

2 Ball bearing japanese vacuum compatible OD=26, ID=10, h=8 / n°1 piece

LIGO PROJECT

designed for R. De Salvo

ass. numb. Tama300.007

dran. PROMEC 6-01-03

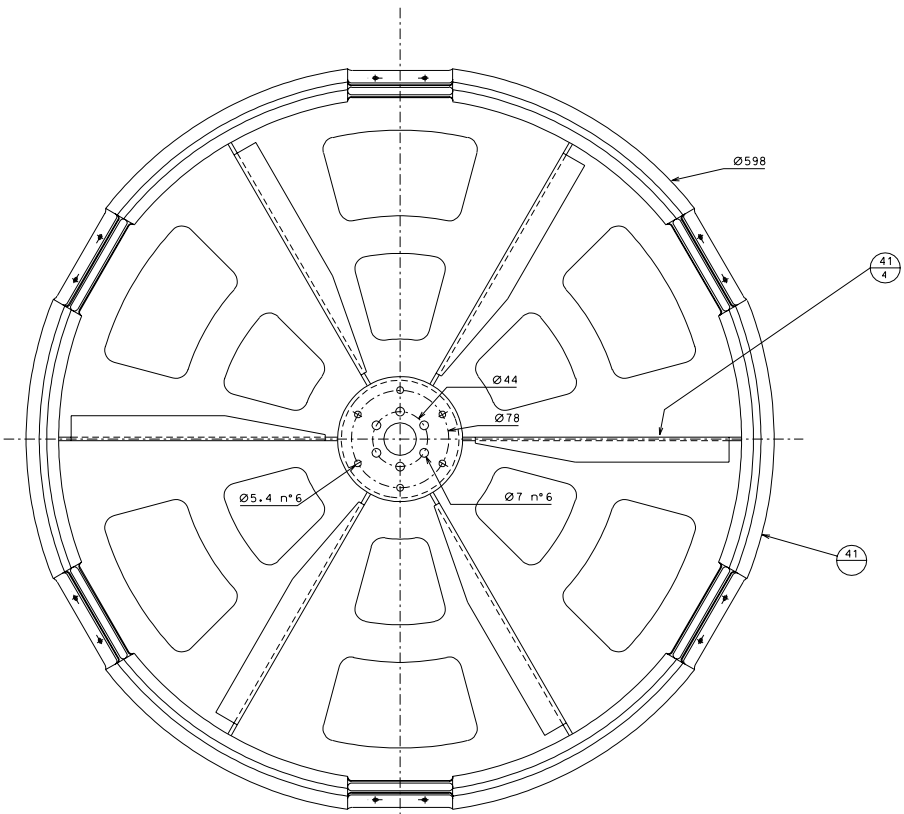
title TAMA-SAS-TOWER-300

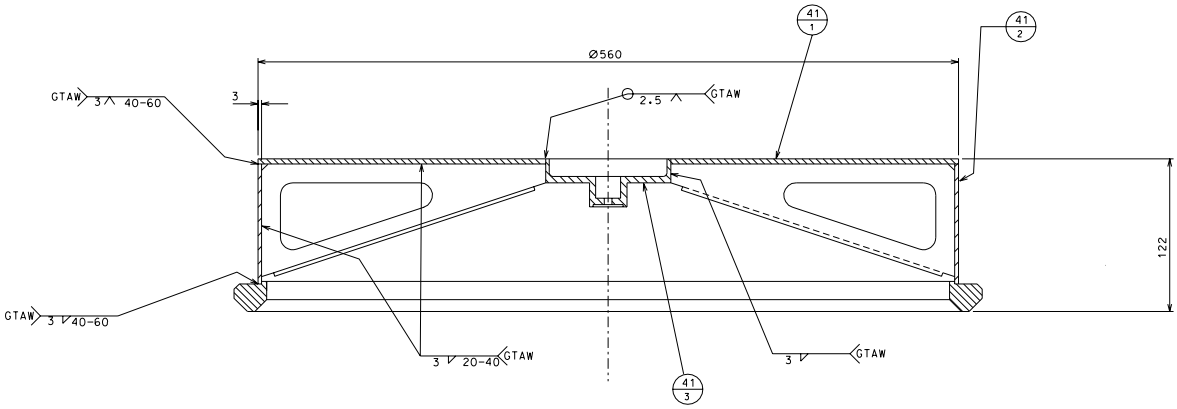
SMALL FILTER

scale 1:2

replaces dr. numb.

A 1





Welded structure

ref.	note	date	signature
	modifications		

41.4	036	spoke
41.3	036	central cup
41.2	035	ferrule
41.1	035	top plate
41	034	ring for blades
ref.	draw.	added legend

ref.	draw.	added legend

LIGO PROJECT

designed for R. De Salvo

ass. numb. Tama300.033

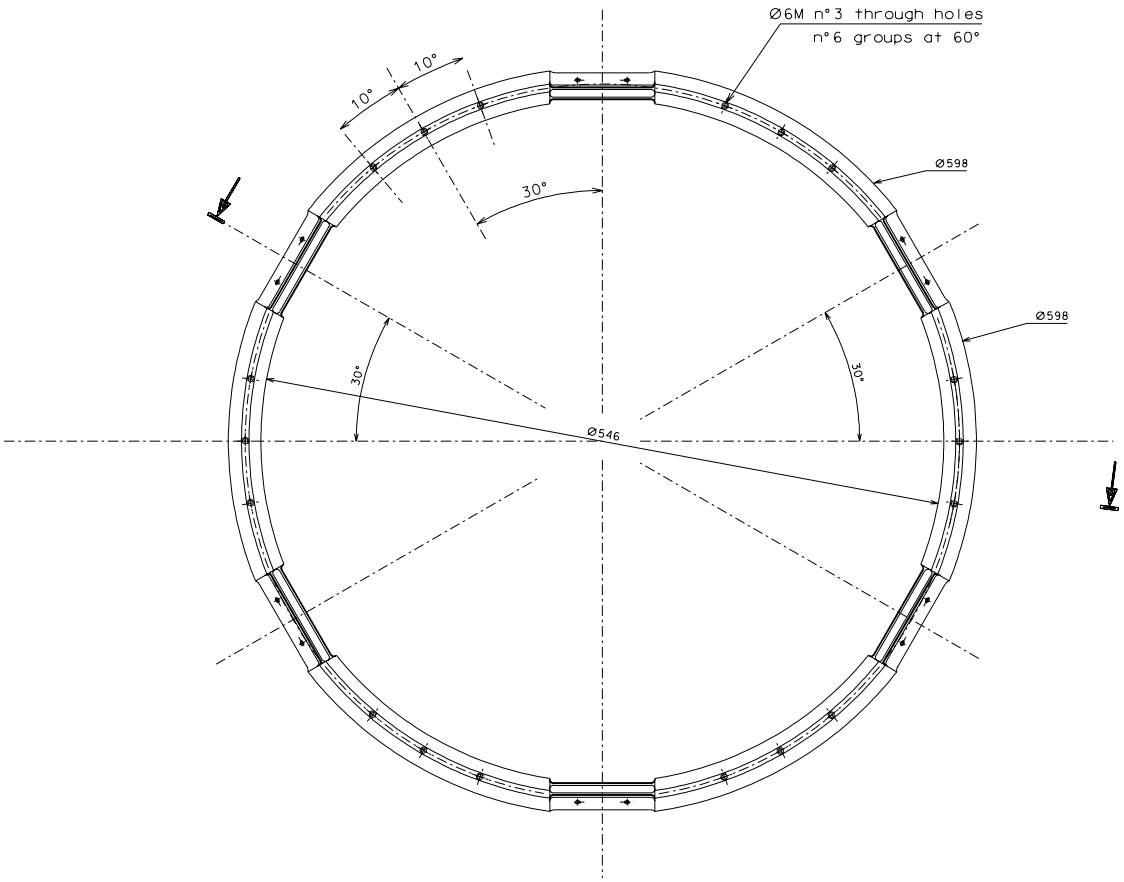
draw. PROMEC 4-11-02

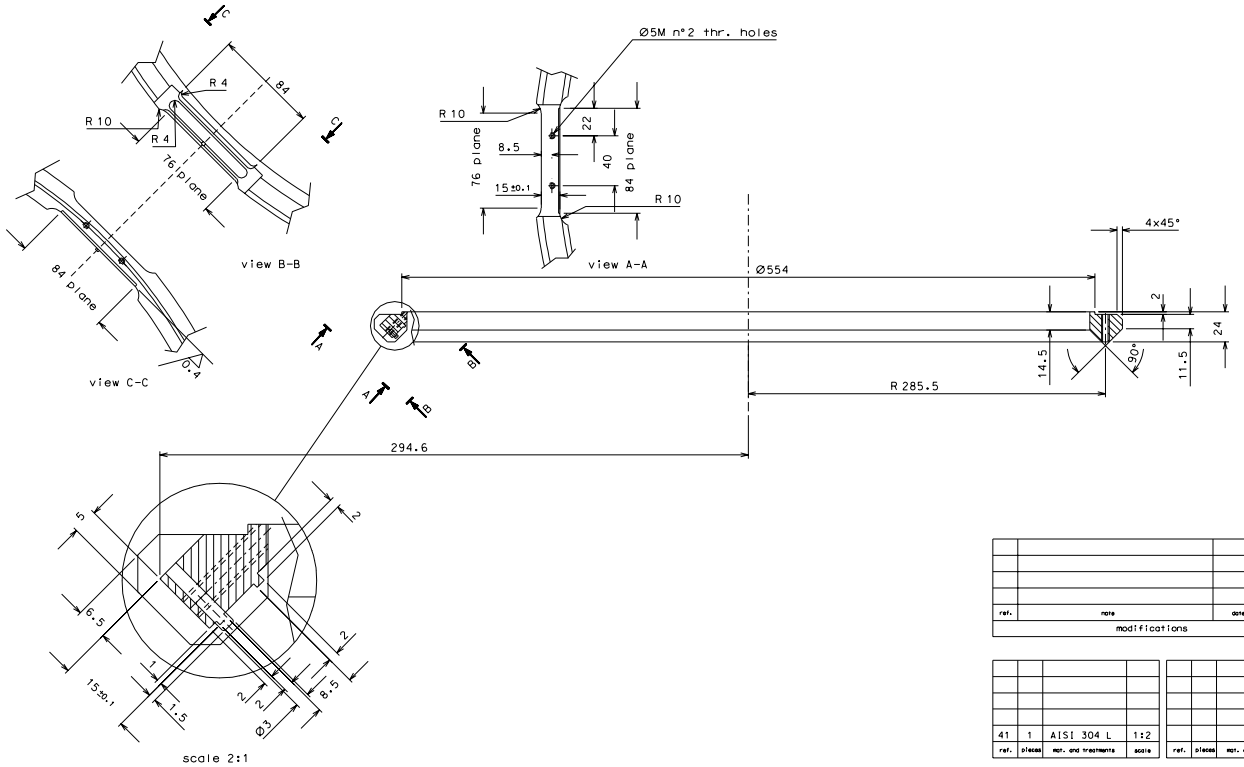
title
TAMA-SAS-TOWER-300
BODY OF STANDARD FILTER

scale 1:2

replaces dr. numb.

A 1





scale 2:1

To insert a pin forced d=3x8 (A)
(inserire spine forzate d=23x8)

Note: To mill after welded on the body

ref.	note	date	signature
	modifications		

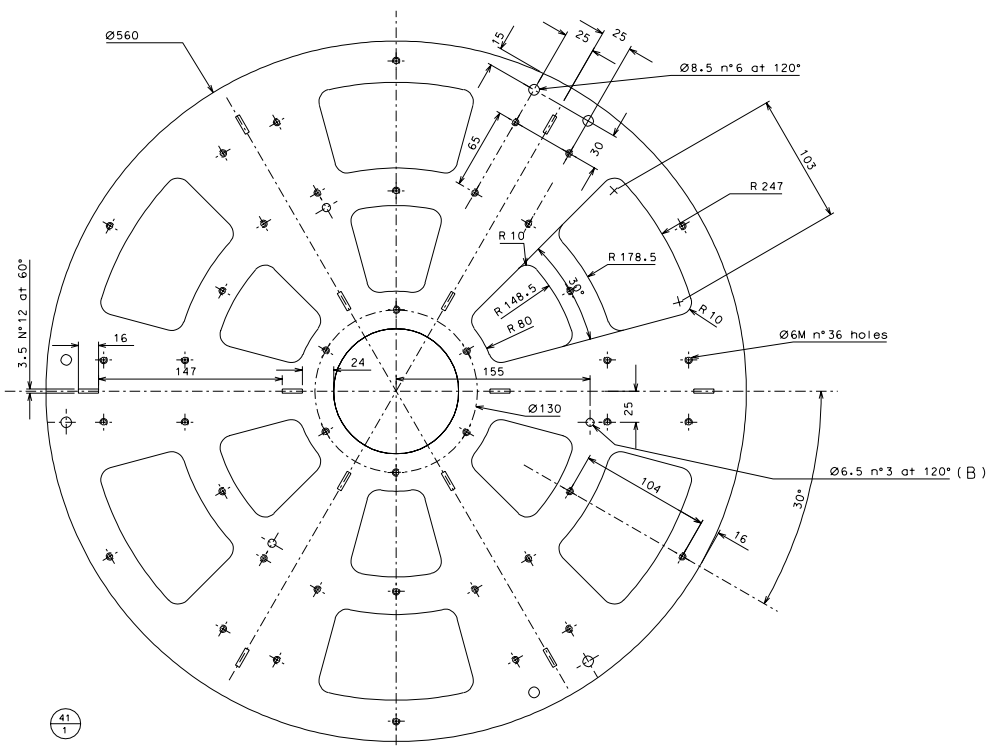
ref.	pieces	mat. and treatments	scale
41	1	AISI 304 L	1:2

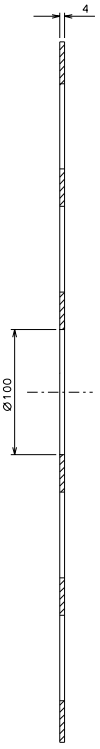
ref.	pieces	mat. and treatments	scale

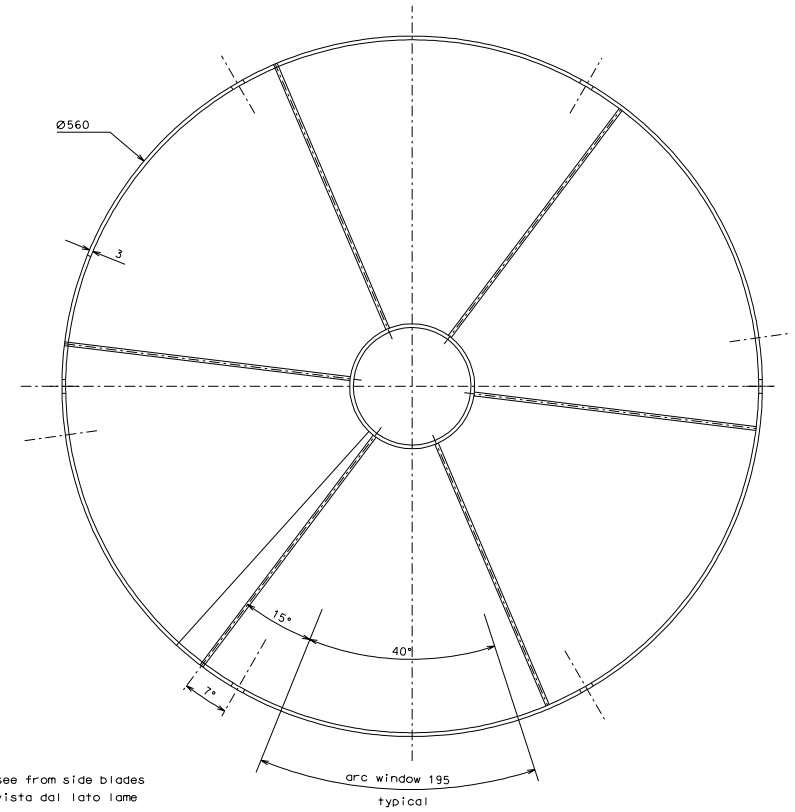
General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear tol.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular tol.	± 1	± 30'	± 20'		± 10'			

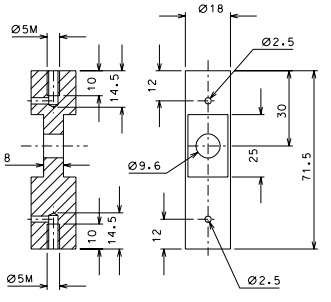
	LIGO PROJECT	designed for R. De Salvo
		n. Tama300.034
title: TAMA-SAS-TOWER-300 BLADE'S RING OF FILTER_S		drow. PROMEC 5-11-02
		details from 007-033
		replaces dr. Numb. A 1

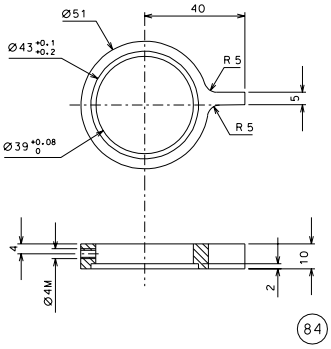


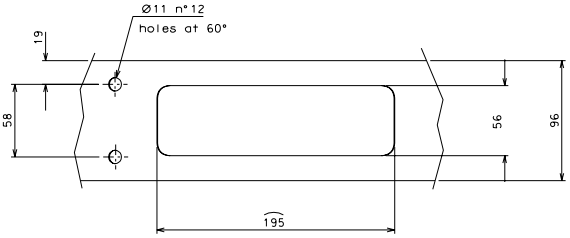




41
2 see from side blades
vista dal lato lame







ref.	note	date	signature
	modifications		

ref.	pieces	mat. and treatments	scale
84	1	AISI 304	1:1
82	1	AISI 304	1:1
41.2	1	AISI 304 L	1:2
41.1	1	AISI 304 L	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	>4000
linear toll.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular toll.	± 1	± 30'	± 20'		± 10'		referred to the shortest side	

LIGO PROJECT

designed for R. De Salvo

n. Tama300.035

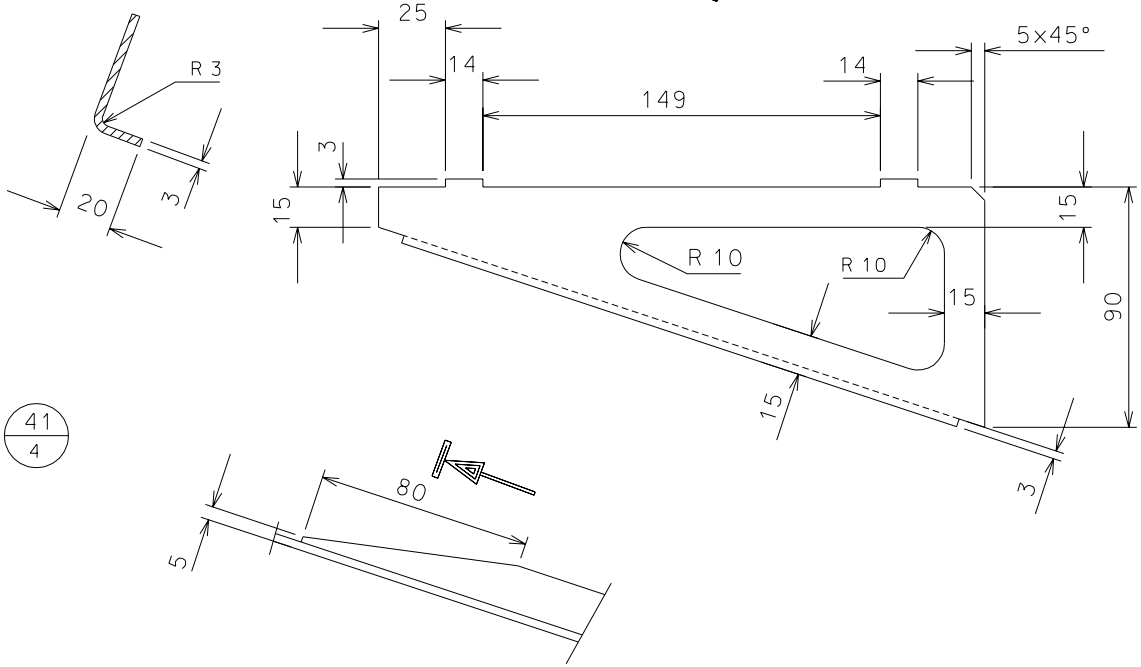
drw. PROMEC 5-11-02

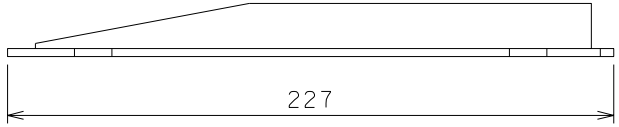
title
TAMA-SAS-TOWER-300
DETAILS FILTER_S

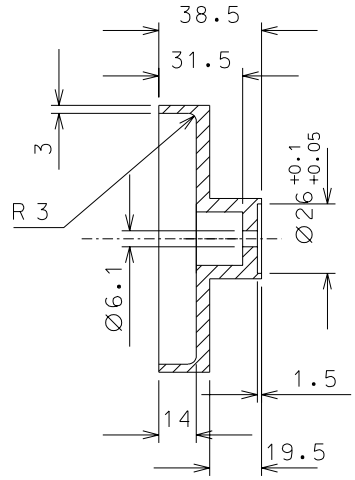
details from 033

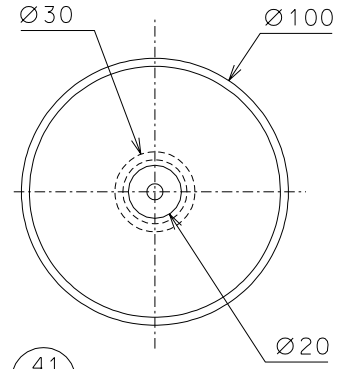
replaces dr. Numb.

A 1









ref.	note	date	signature
modifications			

41.4	6	AISI 304 L	1:2
41.3	1	"	1:2
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.036

draw. PROMEC 6-01-03

details from 033

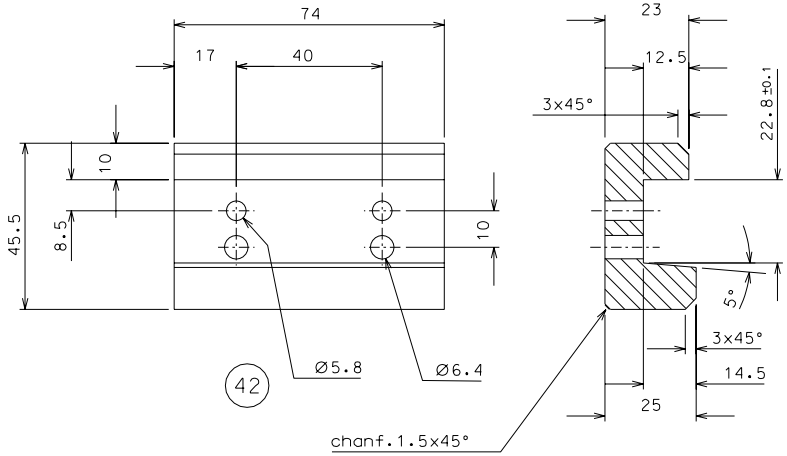
replaces dr. Numb.

A 3

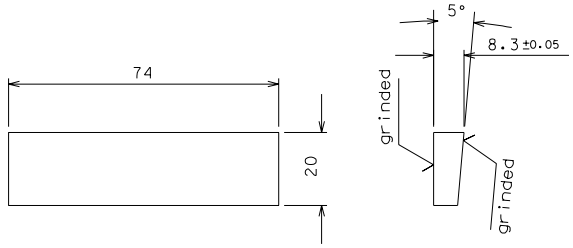
title

TAMA-SAS-TOWER-300

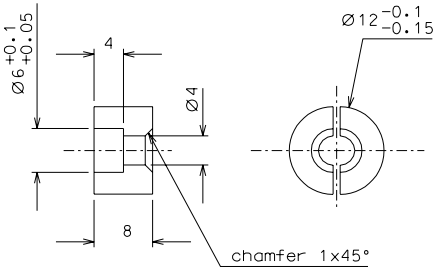
DETAILS FILTER_S



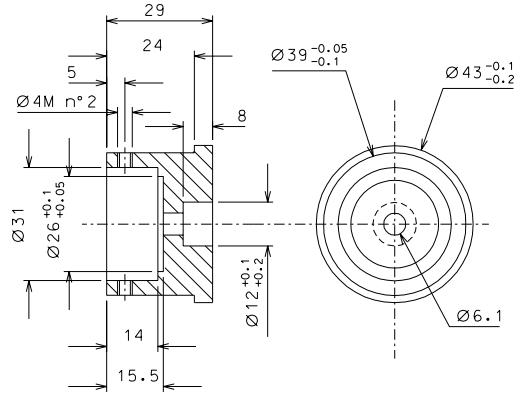
42



39 Height to be cut to fit blades into slots as specified on sheet 7



46 light nickel plated



83

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
83	1	AISI 304	1:1
46	1	maraging	2:1
42	3	AISI 304	1:1
39	6	"	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.037

drow. PROMEC 6-01-03

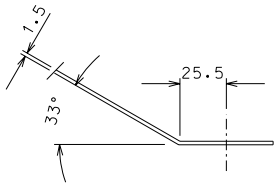
details from 007-033

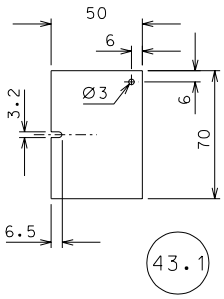
title TAMA-SAS-TOWER-300

DETAILS FILTER_S

replaces dr. Numb.

A 2





43.1

43

X	Y	X	Y	X	Y	X	Y
0	34.96	0	34.96	0	24.45	2	26.895
69.189	34.12	69.572	34.12	69.572	23.86	71.075	26.246
123.03	30.29	123.71	30.29	123.71	21.18	124.826	23.298
149.97	26.81	150.799	26.81	150.799	18.75	151.722	20.625
203.81	18.10	204.937	18.10	204.937	12.66	205.473	13.926
271.09	4.88	272.589	4.88	272.589	3.41	272.642	3.751
276.40	4.18	277.90	4.18	277.90	2.92	277.915	3.212
278.45	4.18	279.95	4.18	279.95	2.92	279.95	3.212
281.83	7	283.33	7	283.33	7	283.33	7
284.83	10	286.33	10	286.33	10	286.33	10
289.5	10	291	10	291	10	291	10
316	0	317.5	0	317.5	0	317.5	0
	center		center		center		center

Surface treatment: Electropolishing and light nickel-plating

Termal treatment: Baking at 435° for 100 hours in argon atmosphere

ref.	pieces	mat. and treatments	scale
43.1	3	tool for blade	1:2
43	1	blade	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

ref.	note	date	signature
	new profile	11-01-01	
B	new dimensions	26-10-00	
A	new hole	9-7-00	

modifications

Size A2

LIGO PROJECT

designed for R. De Salvo

N. Tama3.038

draw. PROMEC 3-7-00

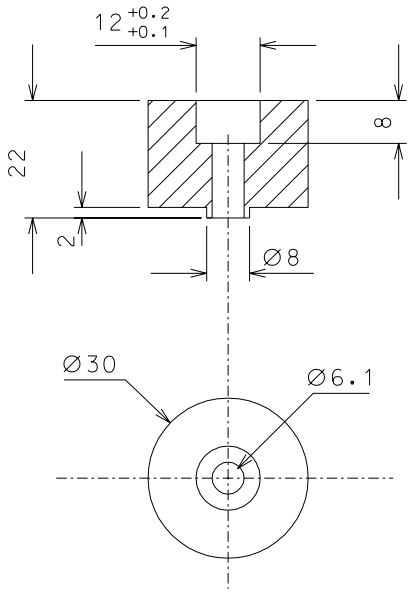
details from 007

replaces dr. Numb.

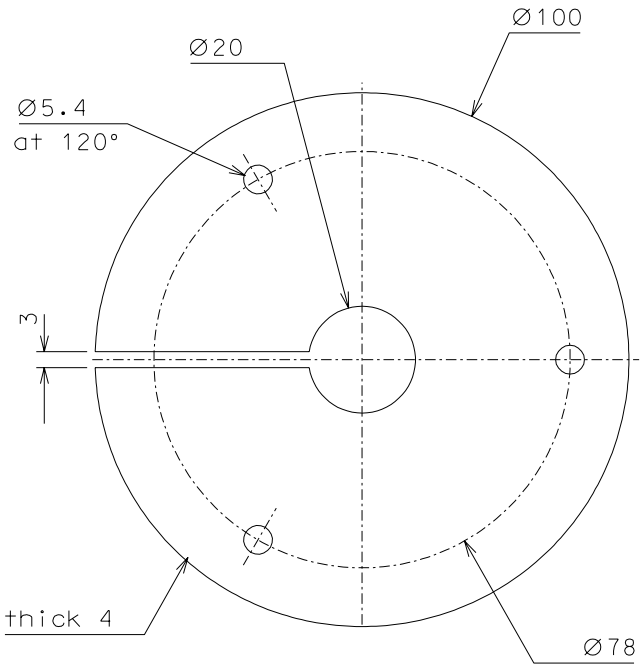
title

TAMA-SAS-TOWER-3

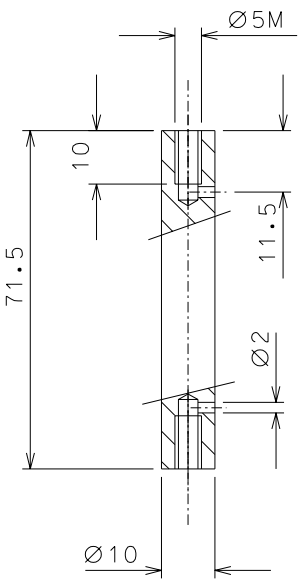
BLADE FILTER_S



47



44



45

ref.	note	date	signature
modifications			

47	1	AISI 304	1:1
45	3	"	1:1
44	1	"	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.039

draw. PROMEC 4-11-02

details from 007

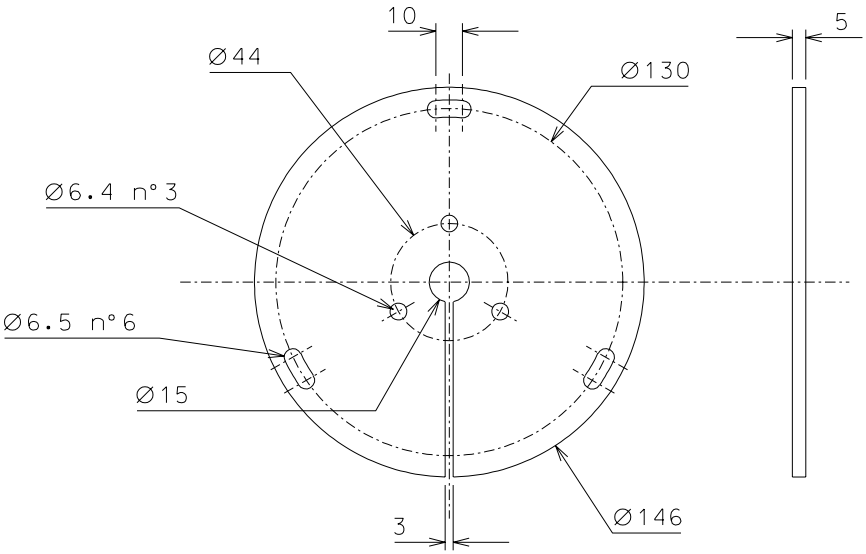
replaces dr. Numb.

A 3

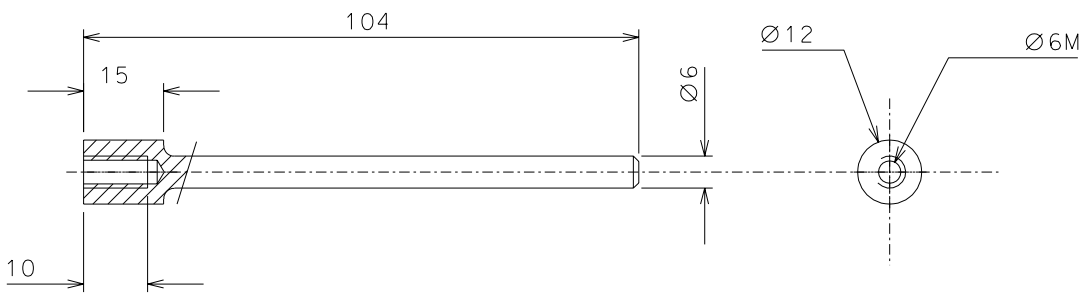
title

TAMA-SAS-TOWER-300

DETAILS FILTER_S



65



66

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
66	3	AISI 304	1:1
65	1	〃	1:2

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	±0.1	±0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30′	± 20′	± 10′ refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.040

draw. PROMEC 5-11-02

details from

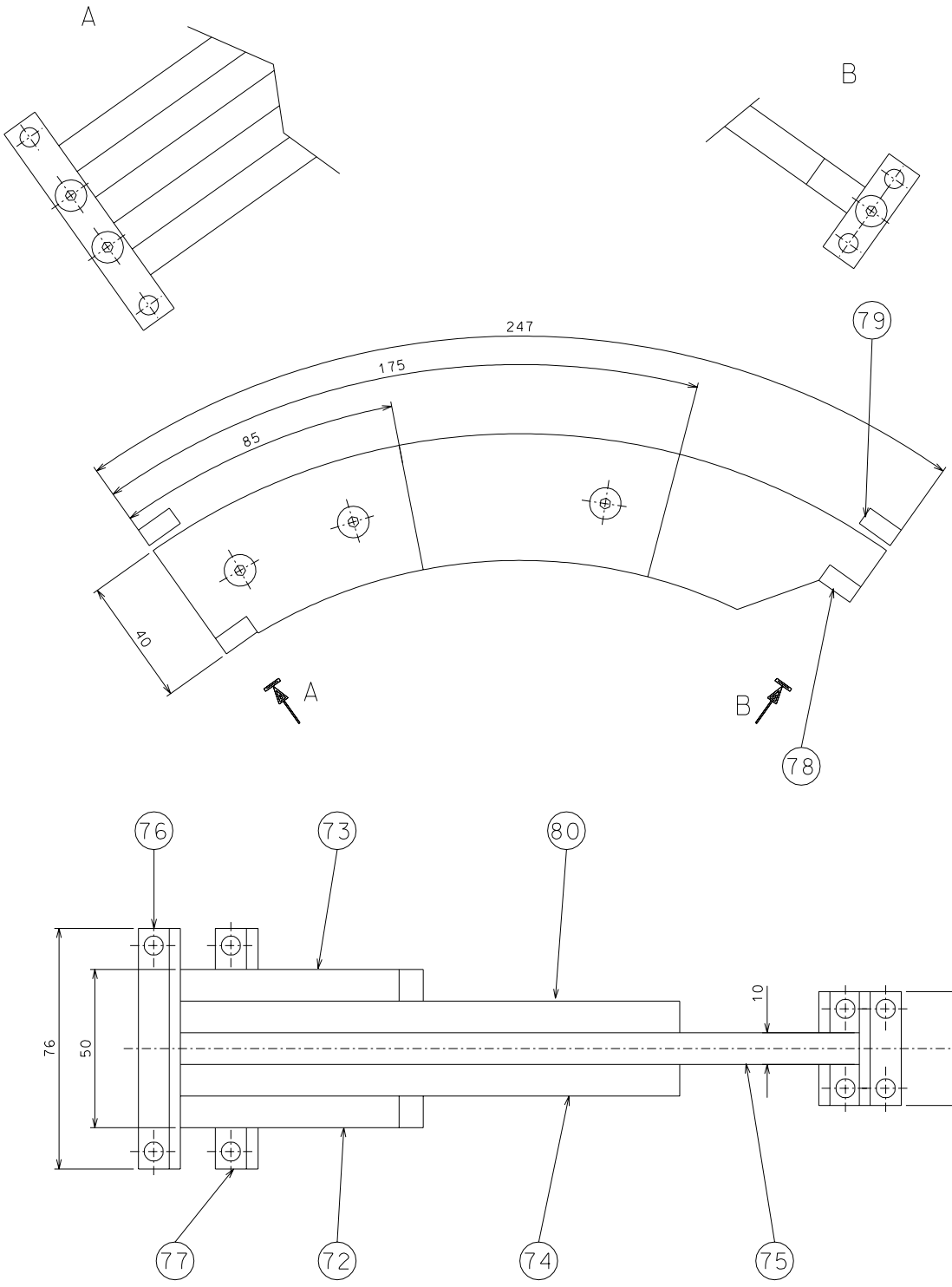
replaces dr. Numb.

A 3

title

TAMA-SAS-TOWER-300

TOOL FOR FILTER_S



77	046	
76	046	
75	045	
74	046	
73	046	
72	046	
ref.	draw.	added legend

80	045	
79	045	
78	045	
ref.	draw.	added legend

LIGO PROJECT

designed for R. De Salvo

ass. numb. Tama300.044

draw. PROMEC 5-11-02

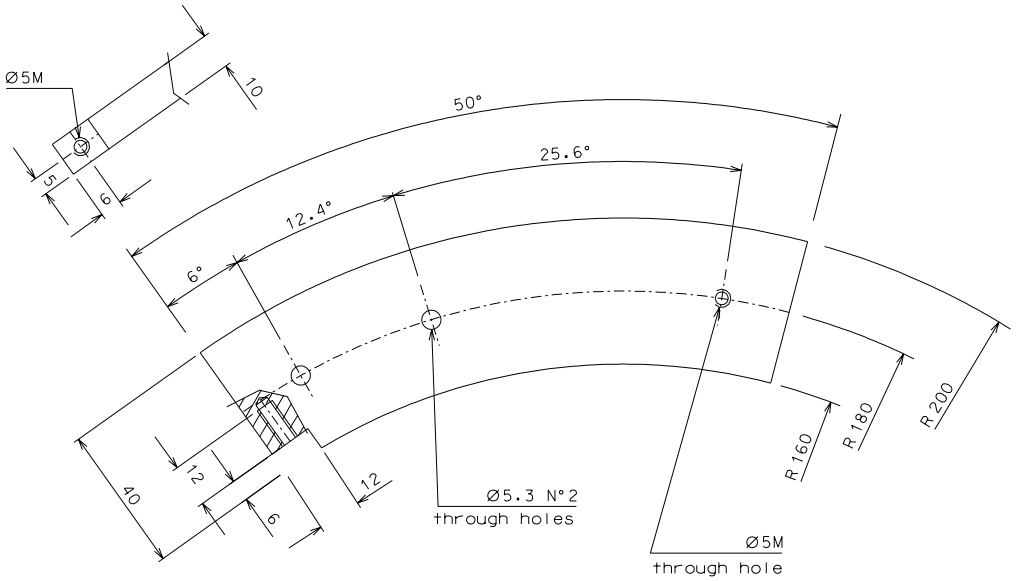
title TAMA-SAS-TOWER-300

TOOL

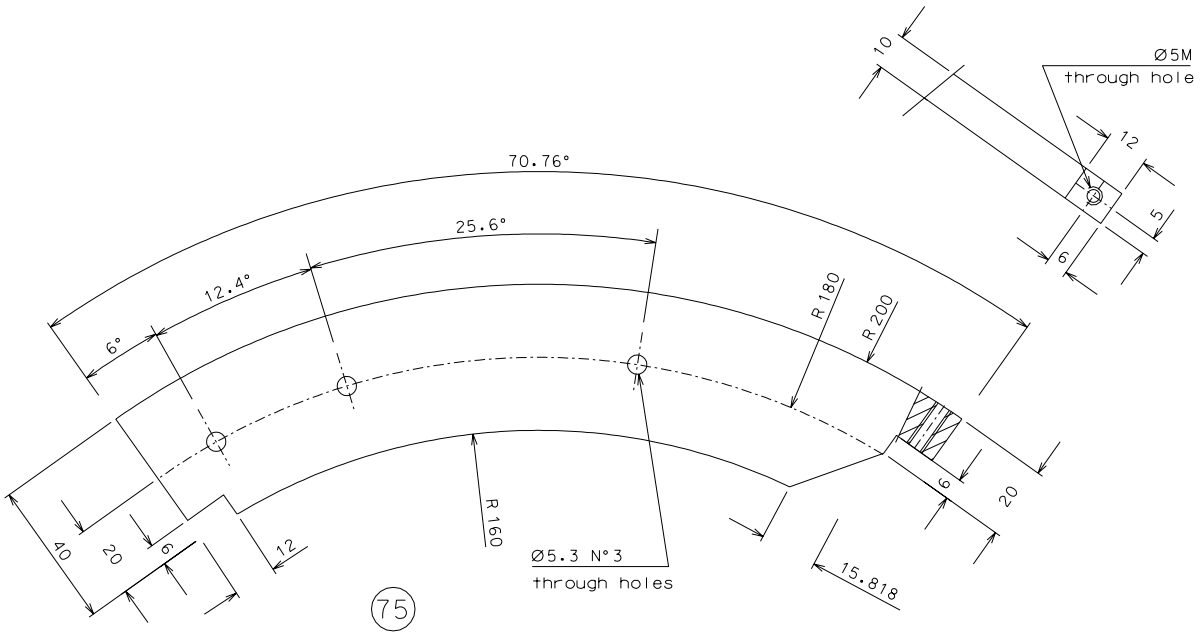
scale 1:1

replaces dr. Numb.

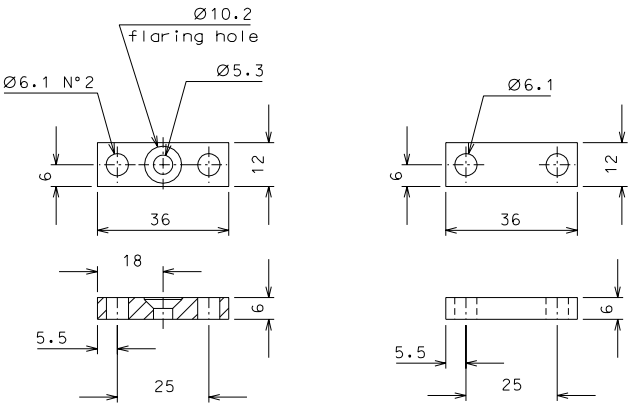
A 2



80



75



79 78

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
79	1	bronze	1:1
78	1	bronze	1:1
75	1	UNI 9006/4	1:1
80	1	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.045

draw. PROMEC 5-11-02

details from 044

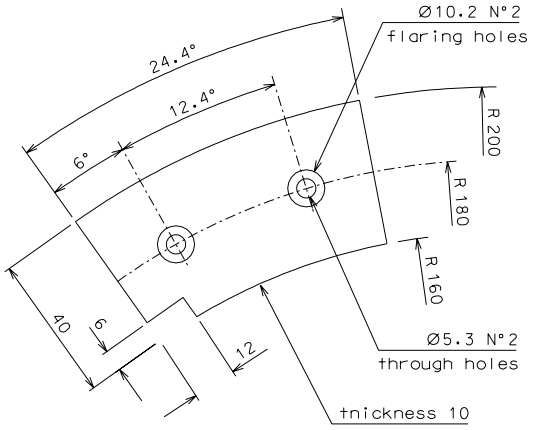
replaces dr. Numb.

A 2

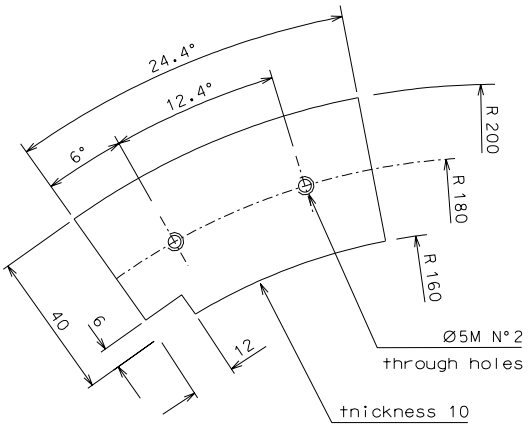
title

TAMA-SAS-TOWER-300

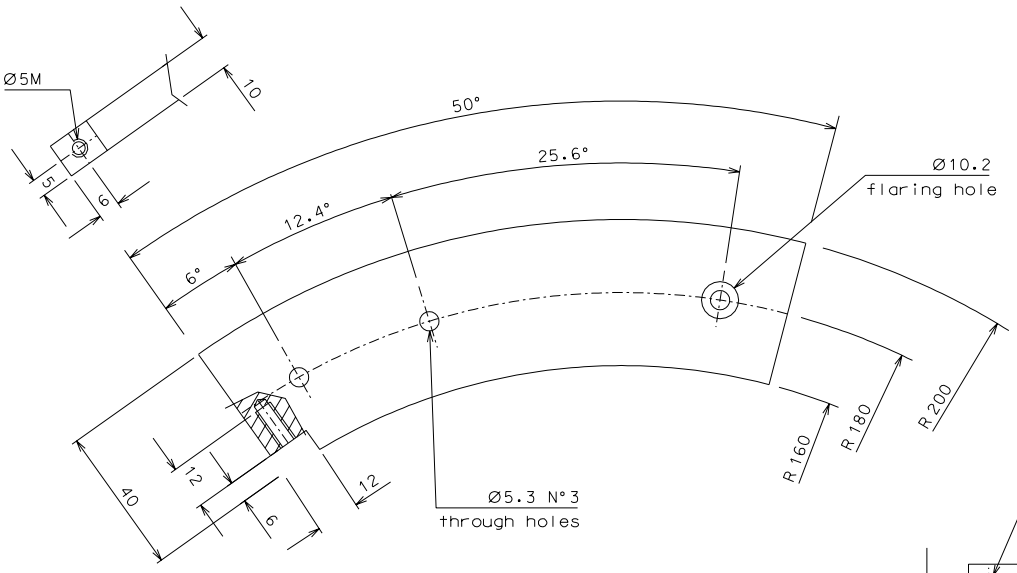
DETAILS TOOL FILTER_S



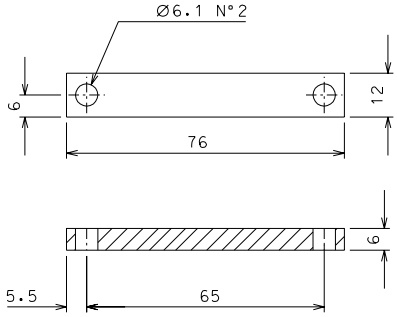
72



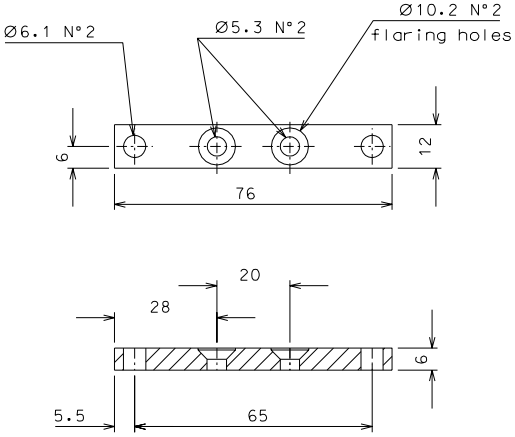
73



74



76



77

ref.	note	date	signature

modifications

ref.	pieces	mat. and treatments	scale
77	1	bronze	1:1
76	1	bronze	1:1
74	1	UNI 9006/4	1:1
73	1	UNI 9006/4	1:1
72	1	UNI 9006/4	1:1

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' refered to the shortest side				

LIGO PROJECT

designed for R. De Salvo

N. Tama300.046

draw. PROMEC 5-11-02

details from 044

replaces dr. Numb.

A 2

title

TAMA-SAS-TOWER-300

DETAILS TOOL FILTER_S