



European standard EN 1004

Instructions for use and maintenance

MARCHETTI

www.marchetti.eu

100%
MADE IN ITALY

MOBILE ACCESS TOWER SYSTEM

System 120x200

System 120x180

System 100x200

System 100x180

System 75x200

System 75x180

The products identified in this handbook have been manufactured by MARCHETTI s.r.l. With QUALITY SYSTEM MANAGEMENT, certified by Tuv Italia, in accordance with ISO 9001

CUSTOMER ASSISTANCE DOCUMENT
NR. 35 REV. 8 OF 27/08/2020
Code 10731

Instructions Manual EN 1298 – IM – it x en

Mobile access towers must only be used for finishing, maintenance and similar works. This instructions manual contains important instructions on use, maintenance and safety of the mobile access tower; the operator must be completely aware of them before use. Strictly complying with this manual means working in compliance with the provisions of the current standard on health and safety in the workplace Leg. Decree. 09.04.2008 no. 81.

MARCHETTI S.r.l.
Via Piemonte, 22
06062 Città della Pieve - Perugia - Italy

info@marchetti.eu
www.marchetti.eu

ATTENTION:

- Read and understand this manual in its entirety.
- Follow the instructions as indicated.
- Before any installation, verify the integrity of each individual component.

Do not use damaged or not whole components

The mobile access tower is made according to the standards.

Any changes made by others invalidate the manufacturer's responsibility.

WARRANTY

All MARCHETTI products are covered by the company's official guarantee, pursuant to applicable norms. The guarantee is immediately effective and is ratified by the invoice accompanying the goods. A product found to be faulty is guaranteed. We shall accept no responsibility for products used incorrectly or damaged during use or transport. The product must be returned with its original packaging, undamaged; it shall be covered by guarantee if it has not been dismantled, modified or tampered with.

COPYRIGHT

This documentation is protected by copyright. Any copying or reproduction, including extracts thereof, and the reproduction of images (even in a modified state), is only permitted with the written authorisation of the manufacturer.

REFERENCE STANDARDS

- Leg. Decree 09.04.2008 no. 81 (O.G. no. 101 dated 30.04.08) "Consolidating act on health and safety in the workplace".
- EN 1004 (July 2005) "Mobile access and working towers) composed of prefabricated elements. Materials, dimensions, design loads, safety and performance requirements";
- EN 1298 (February 1996) "Mobile access towers. Regulations and guidelines for preparation of an instructions manual";
- Leg. Decree 06.09.2005 no. 206 (O.G. no. 235 on 08.10.05 – Ordinary Supplement no. 162) "Consumers' Code".

DESIGNATION, CLASS, CAPACITY

System 120x200 working tower EN 1004 – 3 – 8 / 12 XXCD.

System 120x180 working tower EN 1004 – 3 – 8 / 12 XXCD.

System 100x200 working tower EN 1004 – 3 – 8 / 8,5 XXCD.

System 100x180 working tower EN 1004 – 3 – 8 / 8,5 XXCD.

System 75x200 working tower EN 1004 – 3 – 7 / 7 XXCD.

System 75x180 working tower EN 1004 – 3 – 7 / 7 XXCD.

manufactured in compliance with Leg. Decree 81/08 and Technical Standard EN 1004

Class of loads distributed uniformly equal to "3" (2.0 KN/m²);

- max height work platform without stabilizers: m 2,50 / max height work platform with stabilizers: m 6,10 (H max tower: m 3,50).
- SYSTEM 120: max height work platform with stabilizers: m 8,00 outside of buildings, m 12,00 inside of buildings
- SYSTEM 100: max height work platform with stabilizers: m 8,00 outside of buildings, m 8,50 inside of buildings
- SYSTEM 75: max height work platform with stabilizers: m 7,00 outside of buildings and inside of buildings
- The sum of the loads relating to each surface must not exceed the overall value of the load permitted for the scaffolding.
- Minimum height clearance between work platforms is: m 1,90.
- Maximum vertical distance between work platform: m 4,20.
- Maximum vertical distance between the ground and the first level: m 4,60.

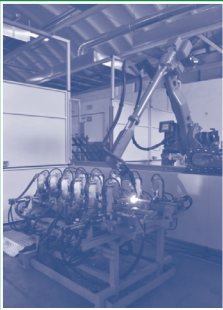
Base dimensions	Overall load permitted (kg)	max n° of working platform	H max mobile tower EN1004 (m)	H max mobile tower D.LGS.81 (m)
120x200	390	3	12,50	17,00
120x180	350	3	12,50	14,00
100x200	330	3	9,50	11,00
100x180	295	3	9,50	9,50
75x200	226	2	8,00	8,00
75x180	204	2	8,00	8,00

- There are two types of stabilizers: Normal-35 and Super-35.
- Normal-35 stabilizers must be always fitted inside of buildings.
- Outside the buildings they can be fitted for work platform heights less than to m 6,00 (H max tower less than m 7,00) in wind exposed conditions.
- When the tower on wheels are mounted next to a wall (ex. building) such as to constitute a barrier to the wind, the Normal brackets can be mounted as an alternative to the Supers. In the latter case, the wall-side brackets must be oriented towards the outside of the tower in a position parallel to the wall.
- Super-35 stabilizers must be fitted to towers with work platform above m 5,00 and when the tower is completely exposed to the wind (for example, in the middle of a square next to a structure, such as a light pole, that does not act as a wind barrier, etc.).

Access to work platform

Access to the work platform can only take place inside the tower using one of the following methods:

- vertical rung ladder, composed of uprights on the side frames of the structure
- inclined rung ladder, internal
- inclined step ladder, internal.



MARCHETTI

www.marchetti.eu

100%
MADE IN ITALY

DECLARATION OF CONFORMITY

MARCHETTI s.r.l.

with headquarters in Città della Pieve (Pg) - Via Piemonte, 22:

DECLARES

- that the mobile tower called SYSTEM 120X200 - 120X180 - 100X200 - 100X180 - 75X200 - 75X180 are manufactured in compliance with Leg. Decree 09.04.2008 no. 81 and in particular the Technical Standard EN 1004 (July 2005)
- that are manufactured in compliance with the prototype which has surpassed rigidity testing, pursuant to Appendix "A" of the Technical Standard EN 1004 (2005) and that it was subject, with a positive outcome, with the ASSESSMENT as outlined in point 13 of the Technical Standard EN 1004 (2005) at the:

UNIVERSITY OF PERUGIA
Department of Industrial Engineering
Certificate no. Marc 77/79/81/82/83/84
- the identification marking is outlined on all specimens of the products and on the Instructions Manual drafted according to specifications in Technical Specification EN1298 (point 9 of the Technical Standard EN 1004).

MARCHETTI s.r.l.

IDENTIFICATION SYSTEM 120X200

Table of elements composing the configurations

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS							
				A1	A2	A3	A4	A5	B6	B7	B8
	20579	EXTRACTABLE BASE									
1	20551	Wheel-bearing section for extr. Base S120	12,70	1	1	1	1	1	1	1	1
2	20550	Wheel-bearing section for extr. Base S120	12,60	1	1	1	1	1	1	1	1
3	20552	Base brace - 200	6,40	2	2	2	2	2	2	2	2
4	20318	Extractable adjustable foot	3,50	4	4	4	4	4	4	4	4
5	30523	Handgrip screw M14x50	0,14	4	4	4	4	4	4	4	4
	20583	TOWER									
10	20556	Bearing frame - 120	9,50	2	4	6	8	10	12	14	16
11	20563	Connecting brace - 200	3,90	2	4	6	8	10	12	14	16
12	20564	Diagonal bracing - 200	1,30	4	8	12	16	20	24	28	32
	21076	WORK PLATFORM - STEEL									
24	21083	Platform w/trapdoor - 200x51	15,14	1	1	1	2	2	2	3	3
26		Long toeboard - 200	3,92	2	2	2	4	4	4	6	6
25		Platform w/out trapdoor - 200x51	15,09	1	1	1	2	2	2	3	3
27		Short toeboard - 120	1,59	2	2	2	4	4	4	6	6
	20748	COMPLETE GUARDRAILS									
17	20632	Long guardrail - 200	5,50	2	2	2	2	2	2	2	2
18	20784	Short guardrail - 120	2,30	2	2	2	2	2	2	2	2
		GUARDRAIL BARS									
28	20188	Guardrail bar - 200	2,20	0	0	0	2	2	2	4	4
	20753	COMPLETE STABILIZERS									
19	20765	Stabilizers - 35	9,80	0	0	4	4	4	4	4	4
20	31383	Stabilizers coupler for round tube -35	1,00	0	0	8	8	8	8	8	8
	21557	COMPLETE STABILIZERS									
19	21557	Telescopic Stabilizer - 35	6,25	0	0	4	4	4	4	4	4

For configurations with H=0,90 m terminal riser A1T-A2T-A3T-A4T-A5T-B6T-B7T, add the following elements:

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS						
				A1T	A2T	A3T	A4T	A5T	B6T	B7T
	20585	TOWER								
21	20557	Bearing frame - 120	5,80	2	2	2	2	2	2	2
11	20563	Connecting brace - 200	3,90	2	2	2	2	2	2	2
22	20565	Terminal diagonal bracing - 200	1,10	4	4	4	4	4	4	4

IDENTIFICATION SYSTEM 120X180

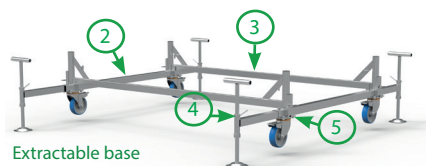
Table of elements composing the configurations

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS							
				A1	A2	A3	A4	A5	B6	B7	B8
	20580	EXTRACTABLE BASE									
1	20551	Wheel-bearing section for extr. Base S120	12,70	1	1	1	1	1	1	1	1
2	20550	Wheel-bearing section for extr. Base S120	12,60	1	1	1	1	1	1	1	1
3	20554	Base brace - 180	6,00	2	2	2	2	2	2	2	2
4	20318	Extractable adjustable foot	3,50	4	4	4	4	4	4	4	4
5	30523	Handgrip screw M14x50	0,14	4	4	4	4	4	4	4	4
	20584	TOWER									
10	20556	Bearing frame - 120	9,50	2	4	6	8	10	12	14	16
11	20562	Connecting brace - 180	3,50	2	4	6	8	10	12	14	16
12	20566	Diagonal bracing - 180	1,20	4	8	12	16	20	24	28	32
	21077	WORK PLATFORM - STEEL									
24	21086	Platform w/trapdoor - 180x51	13,74	1	1	1	2	2	2	3	3
26		Long toeboard - 180	3,55	2	2	2	4	4	4	6	6
25		Platform w/out trapdoor - 180x51	13,64	1	1	1	2	2	2	3	3
27		Short toeboard - 180	1,59	2	2	2	4	4	4	6	6
	20749	COMPLETE GUARDRAILS									
17	20631	Long guardrail - 180	5,10	2	2	2	2	2	2	2	2
18	20784	Short guardrail - 120	2,30	2	2	2	2	2	2	2	2
		GUARDRAIL BARS									
28	20600	Guardrail bar - 180	1,95	0	0	0	2	2	2	4	4
	20753	COMPLETE STABILIZERS									
19	20765	Stabilizers - 35	9,80	0	0	4	4	4	4	4	4
20	31383	Stabilizers coupler for round tube- 35	1,00	0	0	8	8	8	8	8	8
	21557	COMPLETE STABILIZERS									
19	21557	Telescopic Stabilizer - 35	6,25	0	0	4	4	4	4	4	4

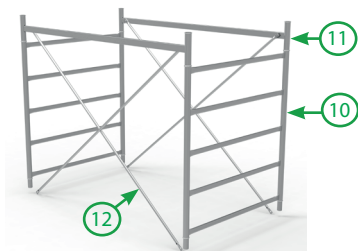
For configurations with H=0,90 m terminal riser A1T-A2T-A3T-A4T-A5T-B6T-B7T, add the following elements:

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS						
				A1T	A2T	A3T	A4T	A5T	B6T	B7T
	20586	TOWER								
21	20557	Bearing frame - 120	5,80	2	2	2	2	2	2	2
11	20562	Connecting brace - 180	3,50	2	2	2	2	2	2	2
22	20567	Terminal diagonal bracing - 180	1,10	4	4	4	4	4	4	4

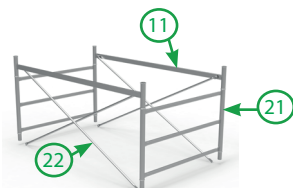
COMPONENTS ELEMENTS



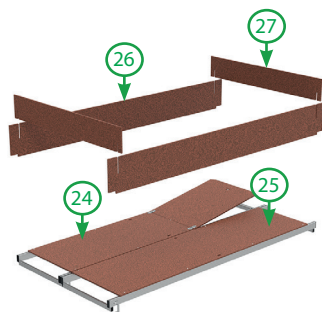
Extractable base



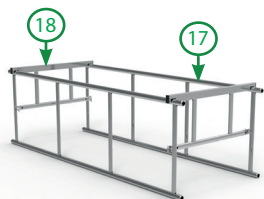
Tower H=1,50 m



Terminal tower H=0,90 m



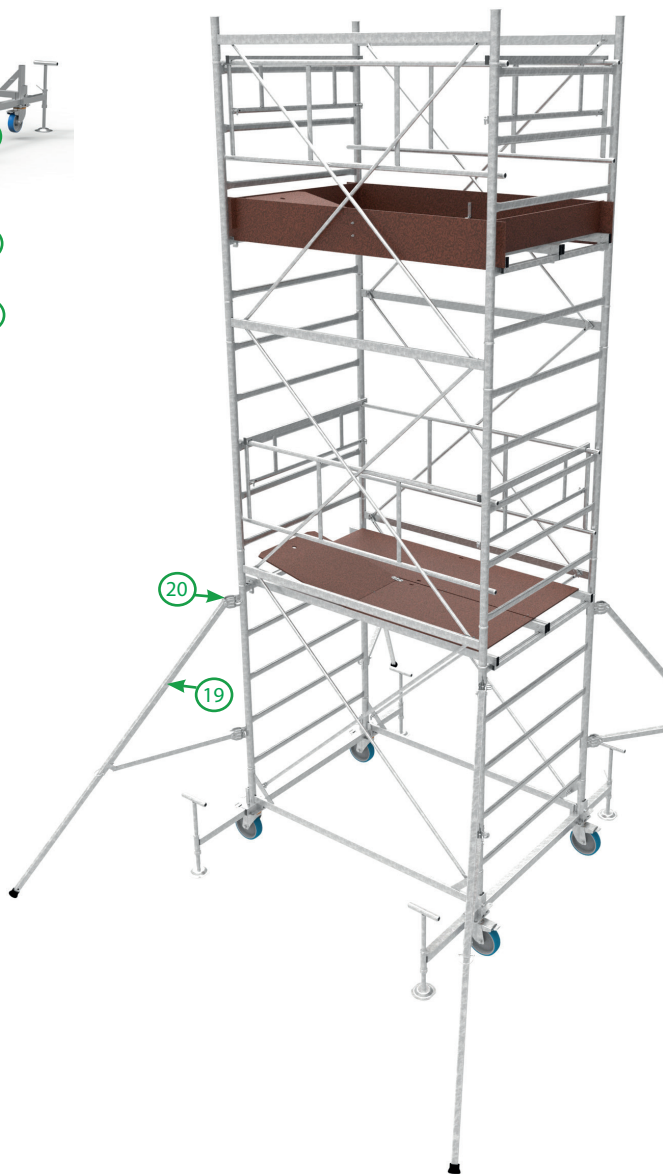
Work platform



Guardrail



Guardrail bars



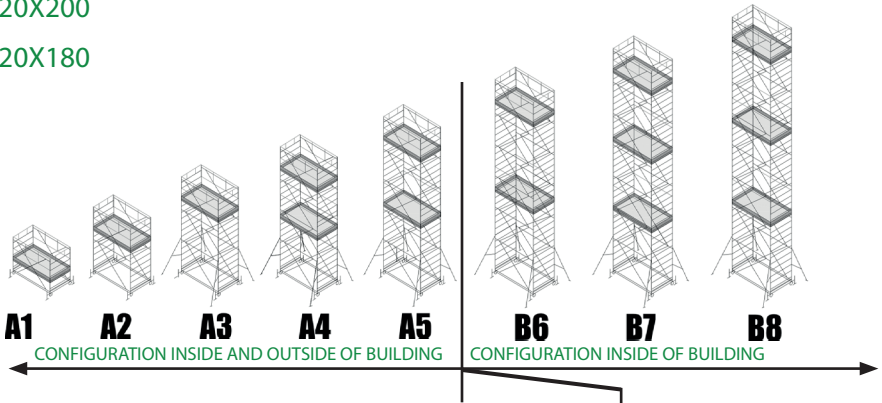
SYSTEM 120X200

SYSTEM 120X180

SYSTEM EN 1004 CONFIGURATION

SYSTEM 120X200

SYSTEM 120X180



WITHOUT TERMINAL TOWER H=0,90 m

CONFIGURATIONS	A1	A2	A3	A4	A5	B6	B7	B8	
H max mobile tower	m	2,00	3,50	5,00	6,50	8,00	9,50	11,00	12,50
H max work platform	m	1,00	2,50	4,00	5,50	7,00	8,50	10,00	11,50
H tower (H= 1,50 m)	n°	1	2	3	4	5	6	7	8
Work platform	n°	1	1	1	2	2	2	3	3
Complete guardrail	n°	1	1	1	1	1	1	1	1
Guardrail bars	n°	0	0	0	2	2	2	4	4
Stabilizers-35	n°	0	0	4	4	4	4	4	4
Base section	n°	1	1	1	1	1	1	1	1

WITH TERMINAL TOWER DA H=0,90 m

CONFIGURATIONS	A1T	A2T	A3T	A4T	A5T	B6T	B7T	
H max mobile tower	m	2,90	4,40	5,90	7,40	8,90	10,40	11,90
H max work platform	m	1,90	3,40	4,90	6,40	7,90	9,40	10,90
H tower (H= 1,50 m)	n°	1	2	3	4	5	6	7
H tower (H= 0,90 m)	n°	1	1	1	1	1	1	1
Work platform with parapet	n°	1	1	2	2	2	2	3
Complete guardrail	n°	1	1	1	1	1	1	1
Guardrail bars	n°	0	0	2	2	2	2	4
Stabilizers-35	n°	0	4	4	4	4	4	4
Base section	n°	1	1	1	1	1	1	1

IDENTIFICATION SYSTEM 100x200

Table of elements composing the configurations

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS					
				A1	A2	A3	A4	A5	B6
	20575	EXTRACTABLE BASE							
1	20547	Wheel-bearing section for extr. Base S100	12,30	1	1	1	1	1	1
2	20546	Wheel-bearing section for extr. Base S100	12,20	1	1	1	1	1	1
3	20552	Base brace - 200	6,40	2	2	2	2	2	2
4	20318	Extractable adjustable foot	3,50	4	4	4	4	4	4
5	30523	Handgrip screw M14x50	0,14	4	4	4	4	4	4
	20587	TOWER							
6	20558	Bearing frame - 100	8,40	2	4	6	8	10	12
7	20563	Connecting brace - 200	3,90	2	4	6	8	10	12
8	20564	Diagonal bracing - 200	1,30	4	8	12	16	20	24
	21078	WORK PLATFORM - STEEL							
20		Platform w/trapdoor - 200x51	15,14	1	1	1	2	2	2
22	21083	Long toeboard - 200	3,92	2	2	2	4	4	4
21	21085	Platform w/out trapdoor - 200x36	12,30	1	1	1	2	2	2
23		Short toeboard - 100	1,39	2	2	2	4	4	4
	20746	COMPLETE GUARDRAILS							
15	20632	Long guardrail - 200	5,50	2	2	2	2	2	2
16	20785	Short guardrail - 100	2,00	2	2	2	2	2	2
		GUARDRAIL BARS							
24	20188	Guardrail bar - 200	2,20	0	0	0	2	2	2
	20753	COMPLETE STABILIZERS							
17	20765	Stabilizers - 35	9,80	0	0	4	4	4	4
18	31383	Stabilizers coupler for round tube- 35	1,00	0	0	8	8	8	8
	21557	COMPLETE STABILIZERS							
17	21557	Telescopic Stabilizer - 35	6,25	0	0	4	4	4	4

For configurations with H=0,90 m terminal riser da H=0,90 m (A1T - A2T - A3T - A4T - A5T) add the following elements:

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS				
				A1T	A2T	A3T	A4T	A5T
	20589	TOWER						
9	20559	Bearing frame - 120	4,90	2	2	2	2	2
7	20563	Connecting brace - 180	3,90	2	2	2	2	2
10	20565	Terminal diagonal bracing - 180	1,10	4	4	4	4	4

IDENTIFICATION SYSTEM 100x180

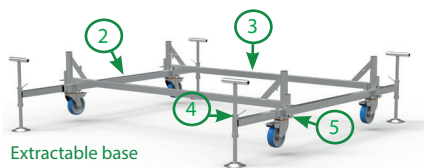
Table of elements composing the configurations

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS					
				A1	A2	A3	A4	A5	B6
	20576	EXTRACTABLE BASE							
1	20547	Wheel-bearing section for extr. Base S100	12,30	1	1	1	1	1	1
2	20546	Wheel-bearing section for extr. Base S100	12,20	1	1	1	1	1	1
3	20554	Base brace - 180	6,00	2	2	2	2	2	2
4	20318	Extractable adjustable foot	3,50	4	4	4	4	4	4
5	30523	Handgrip screw M14x50	0,14	4	4	4	4	4	4
	20588	TOWER							
6	20558	Bearing frame- 100	8,40	2	4	6	8	10	12
7	20562	Connecting brace - 180	3,50	2	4	6	8	10	12
8	20566	Diagonal bracing - 180	1,20	4	8	12	16	20	24
	21079	WORK PLATFORM - STEEL							
20		Platform w/trapdoor - 180x51	13,74	1	1	1	2	2	2
22	21086	Long toeboard - 180	3,55	2	2	2	4	4	4
21	21088	Platform w/out trapdoor - 180x36	11,22	1	1	1	2	2	2
23		Short toeboard - 100	1,39	2	2	2	4	4	4
	20747	COMPLETE GUARDRAILS							
15	20631	Long guardrail - 180	5,50	2	2	2	2	2	2
16	20785	Short guardrail - 100	2,00	2	2	2	2	2	2
		GUARDRAIL BARS							
24	20600	Guardrail bar - 180	1,95	0	0	0	2	2	2
	20753	COMPLETE STABILIZERS							
17	20765	Stabilizers - 35	9,80	0	0	4	4	4	4
18	31383	Stabilizers coupler for round tube- 35	1,00	0	0	8	8	8	8
	21557	COMPLETE STABILIZERS							
17	21557	Telescopic Stabilizer - 35	6,25	0	0	4	4	4	4

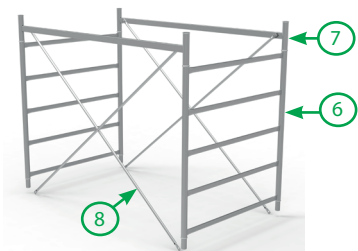
For configurations with H=0,90 m terminal riser H=0,90 m (A1T - A2T - A3T - A4T - A5T) add the following elements:

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS				
				A1T	A2T	A3T	A4T	A5T
	20590	TOWER						
9	20559	Bearing frame - 100	4,90	2	2	2	2	2
7	20562	Connecting brace - 180	3,50	2	2	2	2	2
10	20567	Terminal diagonal bracing - 180	1,10	4	4	4	4	4

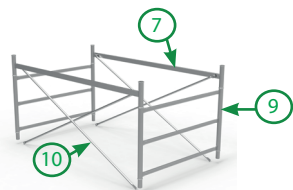
COMPONENTS ELEMENTS



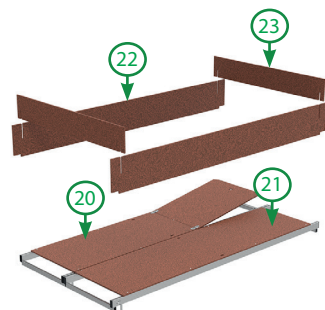
Extractable base



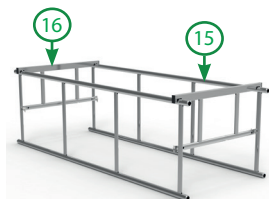
Tower H=1,50 m



Terminal tower H=0,90 m



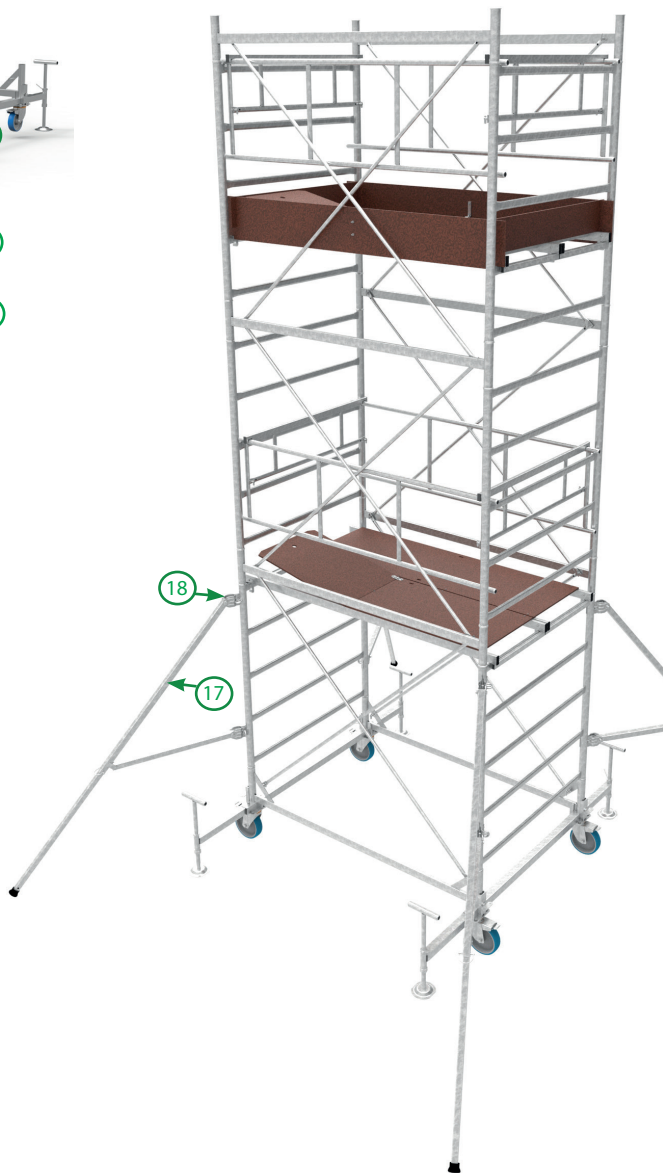
Work platform



Guardrail



Guardrail bars

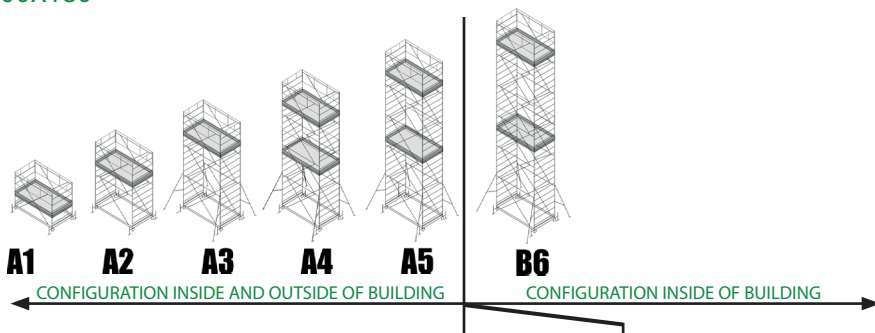


SYSTEM 100X200
SYSTEM 100X180

SYSTEM EN 1004 CONFIGURATION

SYSTEM 100X200

SYSTEM 100X180



WITHOUT TERMINAL TOWER H=0,90 m

CONFIGURATIONS		A1	A2	A3	A4	A5	B6
H max mobile tower	m	2,00	3,50	5,00	6,50	8,00	9,50
H max work platform	m	1,00	2,50	4,00	5,50	7,00	8,50
Tower (H= 1,50 m)	n°	1	2	3	4	5	6
Work platform	n°	1	1	1	2	2	2
Complete guardrail	n°	1	1	1	1	1	1
Guardrail bars	n°	0	0	0	2	2	2
Stabilizers-35	n°	0	0	4	4	4	4
Base section	n°	1	1	1	1	1	1

CONFIGURATION INSIDE AND OUTSIDE OF BUILDING

WITH TERMINAL TOWER DA H=0,90 m

CONFIGURATIONS		A1T	A2T	A3T	A4T	A5T
H max mobile tower	m	2,90	4,40	5,90	7,40	8,90
H max work platform	m	1,90	3,40	4,90	6,40	7,90
Tower (H= 1,50 m)	n°	1	2	3	4	5
Tower (H= 0,90 m)	n°	1	1	1	1	1
Work platform with parapet	n°	1	1	2	2	2
Complete guardrail	n°	1	1	1	1	1
Guardrail bars	n°	0	0	2	2	2
Stabilizers-35	n°	0	4	4	4	4
Base section	n°	1	1	1	1	1

IDENTIFICATION SYSTEM 75x200

Table of elements composing the configurations

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS				
				A1	A2	A3	A4	A5
	20577	EXTRACTABLE BASE						
1	20548	Wheel-bearing section for extr. Base S 75	11,00	1	1	1	1	1
2	20549	Wheel-bearing section for extr. Base S 75	10,90	1	1	1	1	1
3	20552	Base brace - 200	6,40	2	2	2	2	2
4	20318	Extractable adjustable foot	3,50	4	4	4	4	4
5	30523	Handgrip screw M14x50	0,14	4	4	4	4	4
	20591	TOWER						
6	20560	Bearing frame - 75	6,90	2	4	6	8	10
7	20563	Connecting brace - 200	3,90	2	4	6	8	10
8	20564	Diagonal bracing - 200	1,30	4	8	12	16	20
	20616	WORK PLATFORM - ALUMINIUM						
11	20616	Platform w/trapdoor - 200x60	13,30	1	1	1	2	2
12		Short toeboard - 75	1,60	2	2	2	4	4
13		Long toeboard - 200	4,60	2	2	2	4	4
	20750	COMPLETE GUARDRAILS						
14	20632	Long guardrail - 200	5,50	2	2	2	2	2
15	20786	Short guardrail - 75	1,70	2	2	2	2	2
		GUARDRAIL BARS						
19	20188	Guardrail bar - 200	2,20	0	0	0	2	2
	20753	COMPLETE STABILIZERS						
16	20765	Stabilizers - 35	9,80	0	0	4	4	4
17	31383	Stabilizers coupler for round tube- 35	1,00	0	0	8	8	8
	21557	COMPLETE STABILIZERS						
16	21557	Telescopic Stabilizer - 35	6,25	0	0	4	4	4

For configurations with H=0,90 m terminal riser H=0,90 m (A1T - A2T - A3T - A4T)add the following elements:

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS			
				A1T	A2T	A3T	A4T
	20593	TOWER					
9	20561	Bearing frame - 75	4,10	2	2	2	2
7	20563	Connecting brace - 200	3,90	2	2	2	2
10	20565	Terminal diagonal bracing - 200	1,10	4	4	4	4

IDENTIFICATION SYSTEM 75x180

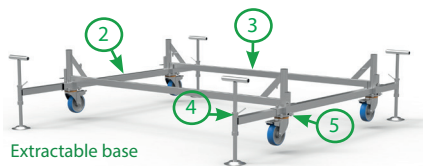
Table of elements composing the configurations

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS				
				A1	A2	A3	A4	A5
	20578	EXTRACTABLE BASE						
1	20548	Wheel-bearing section for extr. Base. S 75	11,00	1	1	1	1	1
2	20549	Wheel-bearing section for extr. Base S 75	10,90	1	1	1	1	1
3	20554	Base brace - 180	6,00	2	2	2	2	2
4	20318	Extractable adjustable foot	3,50	4	4	4	4	4
5	30523	Handgrip screw M14x50	0,14	4	4	4	4	4
	20592	TOWER						
6	20560	Bearing frame - 75	6,90	2	4	6	8	10
7	20562	Connecting brace - 180	3,50	2	4	6	8	10
8	20566	Diagonal bracing - 180	1,20	4	8	12	16	20
	20617	WORK PLATFORM - ALUMINIUM						
11	20617	Platform w/trapdoor - 180x60	12,50	1	1	1	2	2
12		Short toeboard - 75	1,60	2	2	2	4	4
13		Long toeboard - 180	4,20	2	2	2	4	4
	20751	COMPLETE GUARDRAILS						
14	20631	Long guardrail - 180	5,10	2	2	2	2	2
15	20786	Short guardrail - 75	1,70	2	2	2	2	2
		GUARDRAIL BARS						
19	20600	Guardrail bar - 180	1,95	0	0	0	2	2
	20753	COMPLETE STABILIZERS						
16	20765	Stabilizers - 35	9,80	0	0	4	4	4
17	31383	Stabilizers coupler for round tube- 35	1,00	0	0	8	8	8
	21557	COMPLETE STABILIZERS						
16	21557	Telescopic Stabilizer - 35	6,25	0	0	4	4	4

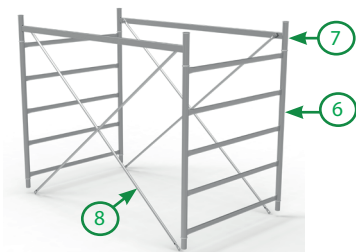
For configurations with H=0,90 m terminal riser H=0,90 m (A1T - A2T - A3T - A4T) add the following elements:

	Cod.	Component Elements	Weight Kg	CONFIGURATIONS			
				A1T	A2T	A3T	A4T
	20594	TOWER					
9	20561	Bearing frame - 75	4,10	2	2	2	2
7	20562	Connecting brace - 180	3,50	2	2	2	2
10	20567	Terminal diagonal bracing - 180	1,10	4	4	4	4

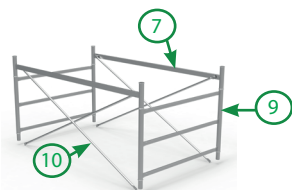
COMPONENTS ELEMENTS



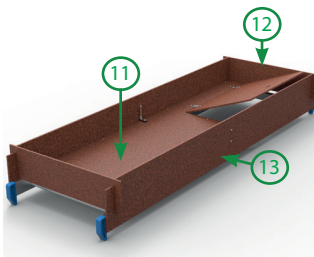
Extractable base



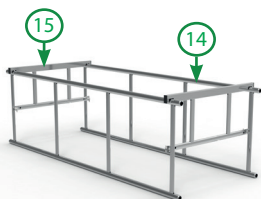
Tower H=1,50 m



Terminal tower H=0,90 m



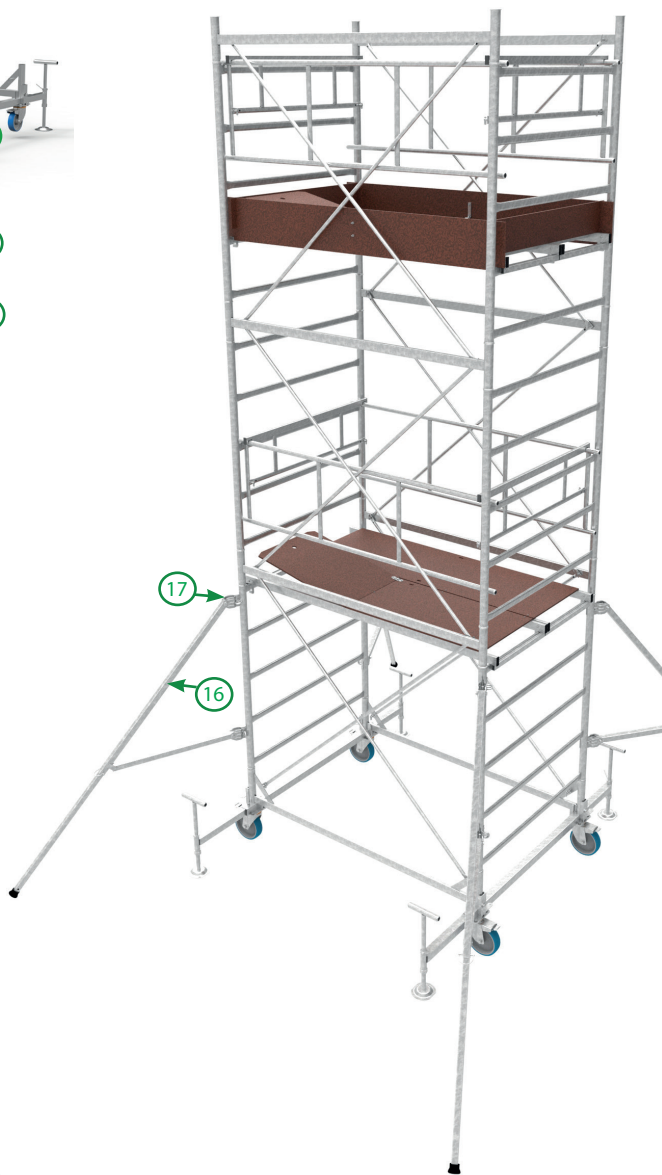
Work platform



Guardrail



Guardrail bars



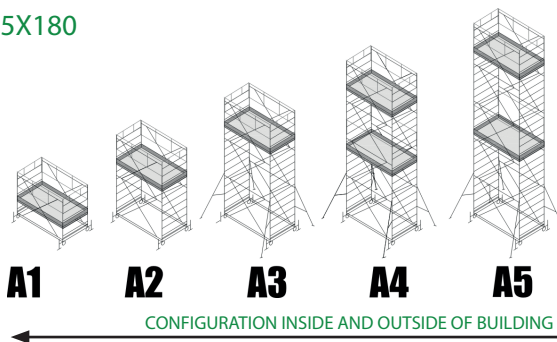
SYSTEM 75X200

SYSTEM 75X180

SYSTEM EN 1004 CONFIGURATION

SYSTEM 75X200

SYSTEM 75X180



WITHOUT TERMINAL TOWER H=0,90 m

CONFIGURATIONS		A1	A2	A3	A4	A5
H max mobile tower	m	2,00	3,50	5,00	6,50	8,00
H max work platform	m	1,00	2,50	4,00	5,50	7,00
H tower (H= 1,50 m)	n°	1	2	3	4	5
Work platform	n°	1	1	1	2	2
Complete guardrail	n°	1	1	1	1	1
Guard rail bars	n°	0	0	0	2	2
Stabilizers -35	n°	0	0	4	4	4
Base section	n°	1	1	1	1	1

CONFIGURATION INSIDE AND OUTSIDE OF BUILDING

WITH TERMINAL TOWER DA H=0,90 m

CONFIGURATIONS		A1T	A2T	A3T	A4T
H max mobile tower	m	2,90	4,40	5,90	7,40
H max work platform	m	1,90	3,40	4,90	6,40
H tower (H= 1,50 m)	n°	1	2	3	4
H tower (H= 0,90 m)	n°	1	1	1	1
Work platform with parapet	n°	1	1	2	2
Complete guardrail	n°	1	1	1	1
Guard rail bars	n°	0	0	2	2
Stabilizers -35	n°	0	4	4	4
Base section	n°	1	1	1	1

COMPLETE GUARDRAIL EN 1004

The lateral protection consists of two steel pipes frames joined by two steel cross elements that ensure protection at both intermediate and top positions. They are hooked to the lateral cross-pieces to avoid accidental detachment. Use as working top guardrail.

GUARDRAIL BAR

Steel bar with device unthreading at either ends. To use as a protection in the passing workplatform. If such workplatforms were used as staging or for working is obligatory the use of the EN 1004 guardrail.

ASSEMBLY AND DISMANTLING

GENERAL INFORMATION

- The assembly and dismantling of the mobile access towers requires at least two people, both of whom must be familiar with the assembly and use instructions.
- The choice of configuration will depend on your required working heights. The elements required for assembly, along with their weights and quantities, are listed
- Damaged components must not be used.
- Only original components indicated by the manufacturer may be used.

SAFETY PLATFORM (D.Lgs. 09.04.2008 n° 81 Sez. IV - art. 128)

The Safety Platform (constructed in the same way as a normal work platform) is obligatory in maintenance and repair works lasting more than 5 days and always obligatory in building works and must be positioned under the work platform at a distance not greater than m 2.50.

PRELIMINARY CHECKS

- The surface on which the tower is to be assembled and moved (if necessary) must be capable of supporting the weight. It must be perfectly levelled and capable of guaranteeing the distribution of the load, preferably with the use of wooden planks or their equivalent;
- Ensure that the ground is free of obstacles of any kind;
- The assembly operations can only be undertaken in the absence of wind;
- Check that all of the parts, accessories and safety equipment are near at hand before assembling the mobile access tower;
- The uprightness of mobile access towers must be controlled by spirit level or pendulum.

ASSEMBLY INSTRUCTIONS

SYSTEM TOWERS OVER EXTRACTABLE BASE

Having checked that all of the requirements, proceed with the assembly of the base section:

- Join the two wheel-bearing sections with the two base connecting braces using the four handgrip screws supplied;
- Before tightening the screws fully, position the first two lateral frames; taking care to position the pawls towards the inside and the labels towards the outside.
- Tighten the screws, engage the brakes in the four wheels and proceed to the horizontal extraction of the adjustable feet to the maximum length the surrounding surface space allows; Pull the extractables up to the MAX line Then tighten the extraction locking screw.
- Level the base section using the screws on the feet, taking care to raise all the wheels at least 20 mm off the ground; once levelled, tighten the lock nuts;
- Continue the assembly by inserting the 2 connecting braces into the slots on top of the uprights of the lateral frames; taking care to position the pawls towards the inside and the labels towards the outside.
- Install the diagonal bracing rods, hooking the ends onto the anti-slip latches on the connecting braces;
- Position the mobile access tower's elements on the fourth rung from the bottom of the first two lateral frames;
- First, position the 2 long toeboards parallel to the walking surface. Now fit the 2 short toeboards into the respective housings found in the long boards;
- At this point at least one of the workers authorised to assemble the tower must put on a safety belt and climb onto the work platform from the inside of the tower through the trapdoor;
- After having securely attached the end of the rope of the safety belt to one of the two already fitted connecting braces, the next two lateral frames can be attached and the tower can then continue to be assembled following the same sequence of operations described up to this point;
- If the tower must be erected to a work platform height above m 2,50 the 4 stabilizers must be fitted at this point
- arrange the stabilizers in open position remove the respective stabilizers couplers from the bag supplied. Open the rear clamp of the first coupler by loosening the eyebolt nut. Fit the coupler to the tower's upright on the rung weld point at the height that allows accommodating the upper vertical portion of the stabilizer. Repeat the operation on the same upright with a second coupler. Place the coupler at an appropriate distance from the first in order to accommodate the same stabilizer. Open the front clamps of the two couplers by loosening the respective eyebolt nuts. Position the stabilizer between the two couplers at an angle of about 120° in relation to the tower's longer side.

Always try to increase the dimensions of the floor contact surface area. Close the two front clampson on the stabilizer, making sure it rests firmly on the ground, and then tighten the corresponding eyebolt nuts. Repeat the same sequence of operations for the other three tower uprights;

- As the tower is being assembled, pay careful attention to place the floor pieces in a position that allows the person working at height the maximum possible safety and freedom of movement. The person should have the possibility to anchor the safety belt worn easily;
- Once the tower has been assembled, fit the work platforms, toeboards and lateral protections at the desired heights; make sure that the anti-lifting devices (hooks), located at the ends, are in the correct position of the anti- detachment;
- The lateral protections are composed of 2 long frames and 2 short frames. The two frames must be fitted first, parallel to the long sides of the tower. Rest them on the cross-pieces of the load bearing frames, making sure the top pipe is one meter from the walking surface. Install the short frames parallel to the short side of the mobile access tower, hooking them up to the long guardrails at the top end, and to the latches positioned on the latter at the bottom side;
- Once assembly is complete, insert the caps (packaged together with this manual, in the Wheel-bearing section) in the terminal horizontal bracing, to preserve the scaffolding.
- For passage platform use the steel guardrail bar, with anti-detachment device at the ends. Place the bars on the rung and make sure that the hooks are in the correct anti-detachment position.
- During assembly, to raise the components for the upper section, it is advisable to use ropes or cables rated for the application, taking care never to pass up more than one component at a time;
- If access to the work platforms is to be gained by inclined rung or step ladders, these must be attached with the two hooks at the top end to the cross piece on which the work platform

DISASSEMBLY

- To dismantle the mobile access tower, follow the assembly instructions in reverse order;
- Lower mobile access tower components from above using ropes, cables or other suitable means, avoiding at all times abrupt impact with the ground.

STABILITY

- Erect and use the mobile access towers only in the absence of windy conditions;
- Fit the stabilizers, based on the configuration and height to be reached.
- The maximum horizontal load capacity (e.g. applied by effect of work in progress in an adjacent structure) is 25 kg, understood as the sum of the loads applied by the various operators working on the tower;
- If the tower must be left unattended in position due to temporary interruption of work or windy conditions, anchor it firmly to a fixed, stable structure;

- At the summit of the mobile access tower additional overlying structures should not be mounted, and shielding of any kind, such as lattice, tarpaulin, etc., should not be fitted.

PRELIMINARY CHECKS

- Verify that the mobile access tower has been assembled in an upright position. Refer to the supplier's instructions regularly and follow them scrupulously to guarantee a perfect execution;
- Verify that there are no adverse weather conditions that could influence the safe use of the mobile access tower (ice, rain, wind, etc.).

USE

- It is not allowed to increase the height of the mobile tower by using stairs, boxes or other devices;
- it is mandatory to access the work surface from inside the tower, according to one of the three possibilities:
 - Vertical rung ladder; in this case, the lateral bearing frames, which have rungs with non-slip surface and rung spacings compliant with the regulatory requirements, can be used for this purpose
 - Inclined rung ladder
 - Inclined step ladder
- All scaffolds in the tower, must be provided with lateral protection and toeboards, whethe used for passage or work;» Where possible, towers used outside of buildings, must be secured to the building or other structure;
- Tools and materials must be lifted from the inside of the tower, from one platform to another, through the trapdoors, using manual traction with appropriate ropes/cables. Where not possible, materials may be lifted on the outside of the tower. Manual traction with appropriate ropes/cables must still be used, the load must not exceed 50 kg, and it must be lifted vertically parallel to the tower, ensuring it remains within the area marked out by the stabilizers;
- The attachment or use of hoisting devices to lift materials is forbidden;
- It is forbidden to jump on the platforms;
- it is not allowed to make bridging connections between a tower bridge and a building;
- The mobile access towers are not designed to be lifted off the ground or suspended in the air (e.g. by means of a crane).

MOVING THE TOWER

- Mobile access towers can only be moved manually, on compact, smooth surfaces that are free of obstacles and in wind-free conditions;
- Before moving the tower, reduce the tower's total height to a maximum of 7.00 m, lift the adjustable feet and the stabilizers off the ground by no more than 20 mm and disengage the wheel brakes;
- Normal walking pace should not be exceeded while moving the tower;
- Material and personnel should not be on the mobile access tower while it is being moved;

- It is mandatory to keep a distance of at least 5.00 metres from power line;
- Once moved, engage the brakes on the four wheels, level the tower again and move the stabilizers until perfectly in contact with the ground.

VERIFICATION, CARE AND MAINTENANCE

- After a certain number of uses, at the discretion of the operator, clean away the encrustations of cement, mortar, paint or other which will eventually build up on the various components;
- Always keep the supplied clamping and adjusting screws, and the gudgeon/wrist pins and couplings of the various couplers well oiled;
- Before every assembly, check that all components are in perfect condition, replacing any damaged or worn components with others of the same type, which must be original components as indicated by the manufacturer;
- While moving, transporting or storing the mobile access tower, take care to not subject any of its components to loads which could cause permanent deformation, avoiding therefore badly organised stacking and stacking together with materials of a different nature.
- Storage in a covered and sheltered place is recommended to reduce damage due to corrosion over time.

USE ACCORDING TO D.LGS. 81/08

- All the mobile access towers pursuant to D.Lgs. 81/08, but not to EN 1004 standard, must be anchored to a fixed stable structure every two levels.
- They can also have only one working platform fitted, complete with toeboards and guardrails.
- Guardrails can be D.Lgs. 81/08 composed of n° 2 steel bracing elements with blocking device at the two parts. If guardrails are D.Lgs. 81/08 working platforms need to be placed attentively, in order to have the tower lateral bracing element (upper guardrail) at a minimum of m 1.00 distant from working platform and insert bracing element of guardrails in a intermediate position between upper guardrail and toeboard.
- Work platform can also be mounted in positions such as to have the rod as an upper parapet and a tower beam as an intermediate parapet, always respecting the mutual distances mentioned above.
- Mobile towers compliant with Legislative Decree 81/08, must have the wheels of the base braked during use and positioned on a perfectly leveled floor.
- The extractable feet, when present, are removed by the maximum quantity compatible with the surrounding dimensions: pull the extractables up to the MAX line.

• The stabilizers (cod: 20525, 20753, 21557) are component of the base, essential to mobile access towers higher than 7.00 m and they always must be present on such towers, both during use and in every movement. Put them vertically at about 10 mm to the ground.

ACCESSING THE WORK PLATFORM

It is obligatory to gain access to the work platforms from inside the tower; the cross pieces of the lateral load-bearing frames constitute the access ladder. Workers assigned to use the tower are required to use a fall arrest device attached to a safety belt that limits the free-fall to a maximum of 0.7 metres. This device must run along a rope/cable anchored above on the highest cross-piece of the highest lateral load bearing frame and below on the wheel bearing section of the base. The fall arrest device, the safety belt and the supporting rope/cable must be type-approved. For the access to the work platforms using inclined ladders, the descriptions are in the attached EN 1298 IM-itxen handbook apply.

DIFFERENCE BETWEEN D.LGS. 09.04.2008 N°81 AND EN 1004: System[®]are built in compliance with both the Italian D.Lgs. 81/08 and the EN 1004 Technical Standard. the difference is in the possibilities of their use: • in the case of use according to EN 1004 (refer to the handbook attached), for the two towers of the “System 120” series the maximum work platform height allowed is 7.90 m if used outside buildings and 11.50 m if used inside buildings; for the two towers of the “System 100” series the maximum work platform height allowed is 7.90 m if used outside buildings and 8.50 if used inside buildings; for the two towers of the “System 75” series the maximum work platform height allowed is 7.00 m, whether used inside or outside buildings; They must all be erected in strict accordance with one of the standard configurations illustrated in the handbook. The use of stabilizer is required for work platform heights above those indicated in the manual. Anchoring to a fixed, stable structure is recommended (not required).

Tower mobile D.Lgs.81/08	H max tower m	H max work platform m	N. Ot tower	Min n° Working platform	N° stabilizers H>7 m	Type of base	Wall anchorage
System 120x200	17,00	16,00	11	1	n°4 standard type	Extractable	every 2 towers
System 120x180	14,00	13,00	9	1	n°4 standard type	Extractable	every 2 towers
System 100x200	11,00	10,00	7	1	n°4 standard type	Extractable	every 2 towers
System 100x180	9,50	8,50	6	1	n°4 standard type	Extractable	every 2 towers
System 75x200	8,00	7,00	5	1	n°4 standard type	Extractable	every 2 towers
System 75x180	8,00	7,00	5	1	n°4 standard type	Estraibile	Ogni 2 alzate

KIT LANDING ON ROOFS AND COVERINGS

Mobile towers can also be used for landing on roofs and roofs, in the configurations indicated below, with the appropriate landing kit.

The landing kit consists of two brackets for the safe locking of the short toe boards and 2 steel rods with anti-slip device at the ends.

CAUTION:

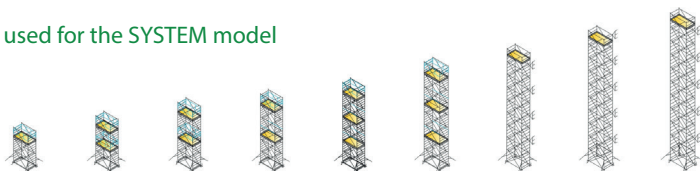
Access to high-altitude floors is allowed only if suitable fall protection is guaranteed on these (parapets, lifeline ...);

The mobile tower used to land at height must necessarily be used anchored to the wall, even if it is a mobile tower with wheels compliant with the EN 1004 standard; In any case, compliance with the maximum open spaces permitted by legislation must be guaranteed (Legislative Decree 81/08):

- The distance between the walkway of the scaffolding and the landing point (building) must not exceed 20 cm;
- The maximum height difference between the walkway of the scaffolding and the landing surface must not exceed 16 cm

If necessary, correct the height of the scaffolding only using the methods indicated in the manual mentioned above;

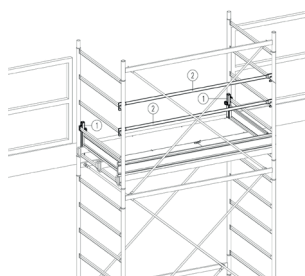
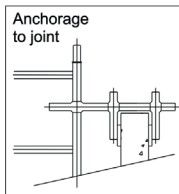
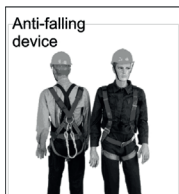
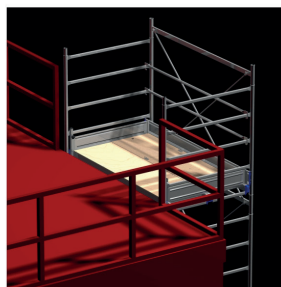
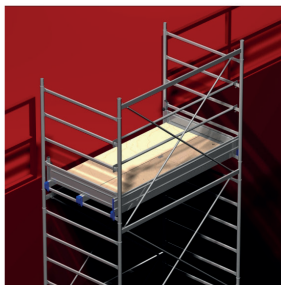
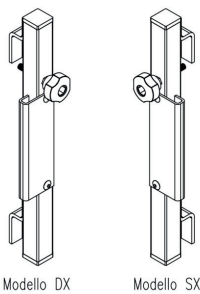
Landing kit can only be used for the SYSTEM model



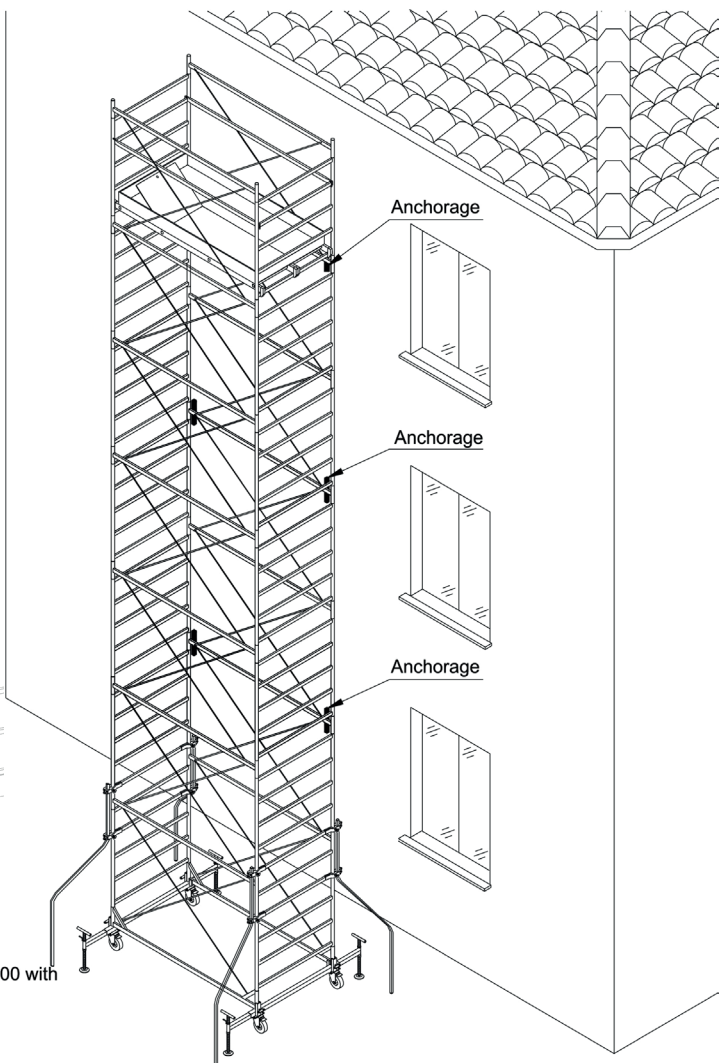
H max scaffolding m	3,50	5,00	6,50	8,00	9,50	11,00	12,50	14,00	15,50	17,00
H max work platform m	2,20	3,70	5,20	6,70	8,20	9,70	11,20	12,70	14,20	15,70

INSTRUCTIONS

- 1) Assemble the scaffolding in the desired configuration complete with all elements.
- 2) Install the parapet bars supplied with the kit on the side opposite the landing one;
- 3) Before use, anchor the scaffolding to a stable fixed structure every 2 rises.
- 4) The operator placed on the work surface near the landing, equipped with a suitable anti-fall system anchored correctly, can then proceed with the disassembly of the long toe board placed on the landing side, with the installation of the locking kit of the short toe boards, and then removal of the batten and the bracing rods placed on the access side;



N°4 wheels D=100 with brake



SIX-MONTHLY SERVICE

Mobile access tower Mod.

Service of

- Numerical verification of components
- Cleaning of components
- Integrity of components
- Absence of oxidised areas
- Integrity of welding
- Lubrication of tightening screws
- Lubrication of pins and sleeves
- Efficiency of wheels and braking devices
- Integrity of work platforms
- Integrity of railings
- Integrity of toe boards
- Integrity of Instruction Manual
- Integrity of stickers with identification markings

Faults detected

Discarded elements to be replaced

Notes

Health and Safety Officer
(Full name)

Health and Safety Officer
(Signature)

SIX-MONTHLY SERVICE

Mobile access tower Mod.

Service of

- Numerical verification of components
- Cleaning of components
- Integrity of components
- Absence of oxidised areas
- Integrity of welding
- Lubrication of tightening screws
- Lubrication of pins and sleeves
- Efficiency of wheels and braking devices
- Integrity of work platforms
- Integrity of railings
- Integrity of toe boards
- Integrity of Instruction Manual
- Integrity of stickers with identification markings

Faults detected

Discarded elements to be replaced

Notes

Health and Safety Officer
(Full name)

Health and Safety Officer
(Signature)

SIX-MONTHLY SERVICE

Mobile access tower Mod.

Service of

- Numerical verification of components
- Cleaning of components
- Integrity of components
- Absence of oxidised areas
- Integrity of welding
- Lubrication of tightening screws
- Lubrication of pins and sleeves
- Efficiency of wheels and braking devices
- Integrity of work platforms
- Integrity of railings
- Integrity of toe boards
- Integrity of Instruction Manual
- Integrity of stickers with identification markings

Faults detected

Discarded elements to be replaced

Notes

Health and Safety Officer
(Full name)

Health and Safety Officer
(Signature)

SIX-MONTHLY SERVICE

Mobile access tower Mod.

Service of

- Numerical verification of components
- Cleaning of components
- Integrity of components
- Absence of oxidised areas
- Integrity of welding
- Lubrication of tightening screws
- Lubrication of pins and sleeves
- Efficiency of wheels and braking devices
- Integrity of work platforms
- Integrity of railings
- Integrity of toe boards
- Integrity of Instruction Manual
- Integrity of stickers with identification markings

Faults detected

Discarded elements to be replaced

Notes

Health and Safety Officer
(Full name)

Health and Safety Officer
(Signature)

SIX-MONTHLY SERVICE

Mobile access tower Mod.

Service of

- Numerical verification of components
- Cleaning of components
- Integrity of components
- Absence of oxidised areas
- Integrity of welding
- Lubrication of tightening screws
- Lubrication of pins and sleeves
- Efficiency of wheels and braking devices
- Integrity of work platforms
- Integrity of railings
- Integrity of toe boards
- Integrity of Instruction Manual
- Integrity of stickers with identification markings

Faults detected

Discarded elements to be replaced

Notes

Health and Safety Officer
(Full name)

Health and Safety Officer
(Signature)

SIX-MONTHLY SERVICE

Mobile access tower Mod.

Service of

- Numerical verification of components
- Cleaning of components
- Integrity of components
- Absence of oxidised areas
- Integrity of welding
- Lubrication of tightening screws
- Lubrication of pins and sleeves
- Efficiency of wheels and braking devices
- Integrity of work platforms
- Integrity of railings
- Integrity of toe boards
- Integrity of Instruction Manual
- Integrity of stickers with identification markings

Faults detected

Discarded elements to be replaced

Notes

Health and Safety Officer
(Full name)

Health and Safety Officer
(Signature)

MARCHETTI

www.marchetti.eu

100%
MADE IN ITALY

MARCHETTI S.r.l.
Via Piemonte, 22
06062 Città della Pieve - Perugia - Italy

info@marchetti.eu
www.marchetti.eu