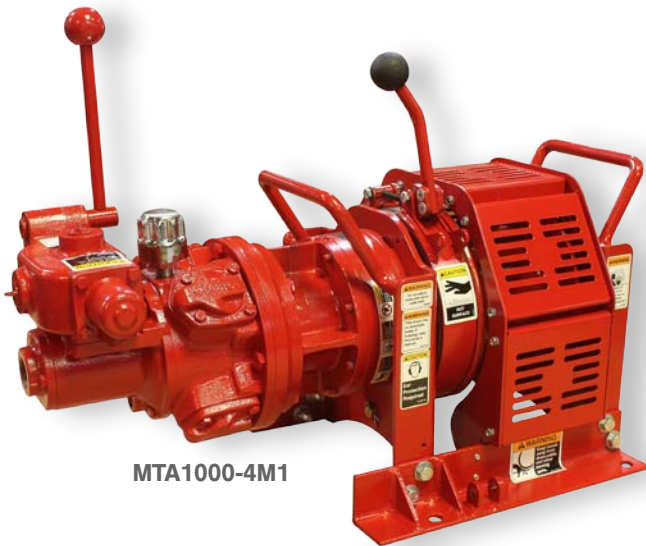




Mini Thern Air Winches Cutsheet

Thern's Mini Series Air Winches are ideal wherever power, precise control and portability are a priority. These tough little tuggers can handle a multitude of tasks around construction sites, mines, power plants, grain elevators, and in the oil patch.



MTA1000-4M1



MTA2000-5A1

1000 lb and
2000 lb Capacity
(454 kg, 907 kg)

- Radial Piston Air Motors
- Cycloidal Reducer
- Manual or Automatic Band Brakes
- Single Side Operator Control
- Wide Range of Wire Rope Payout
- Industry-Leading 2-Year Limited Warranty

ISO
9001:2008
REGISTERED



Winona, MN USA | www.thern.com

MINI THERN AIR SERIES



MTA

Series is ideal wherever power, precise control and portability are a prerequisite

HALF TON CAPACITY

Model MTA1000

LEVER CONTROL

Manual lever control comes standard on the M1 and A1 Models

BRAKE GUARD

Standard on all automatic brake models for optimum operator and mechanism protection

LIFTING HANDLES

Comfortable lifting handles for carrying and positioning. No sharp edges to damage slings

MULTIPLE DRUM LENGTHS

Multiple drum lengths are available for increased rope capacity requirements

RADIAL PISTON MOTOR

Radial piston motor provides reliable operation combined with 87:1 gear reducer ratio provides superior torque and working speed

BOLTED CONSTRUCTION

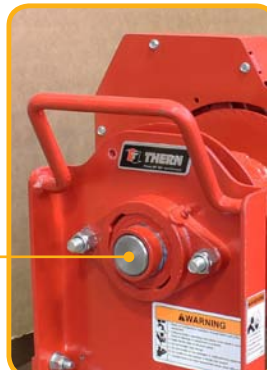
Bolted construction allows for easy maintenance, repair or customization. Gussets provide additional strength for over or under wound operation

IMPROVED BRAKE DESIGN

Easy access brake adjustment requires no special tools. Up to 96% band brake drum coverage provides maximum stopping power with minimal effort for both manual or automatic brake operation. The new brake is quieter and requires fewer adjustments

BALL BEARING OPERATION

Anti-friction ball bearings (equipped with grease zerks) provide long product life.



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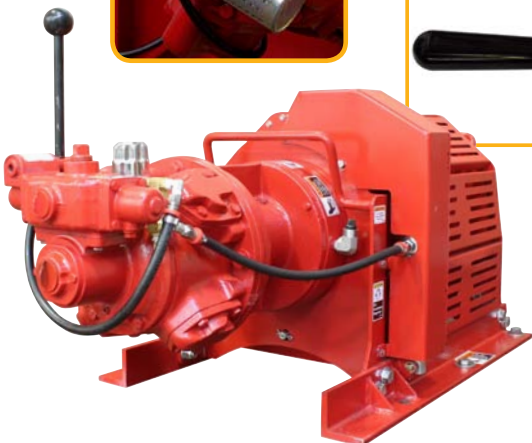


FEATURES AND OPTIONS

Mighty Power in a Mini Package!

ONE TON CAPACITY

Model MTA2000



PORTABILITY

Reduced unit weight combined with comfortable lifting handles greatly improves portability and positioning.

CORROSION RESISTANT FINISH

All winches come standard with red enamel coating and zinc plated hardware for corrosion protection. Optional epoxy finish is available for ultimate protection.

DRUM GUARD

Optional drum guard allows for virtually any payout angle and meets MSHA requirements.

AUTOMATIC BRAKE

An automatic brake option is available for ultimate ease of operation. A manual brake unit can be converted to automatic with simple bolt-on attachments.

MUFFLERS

To reduce noise, mufflers should be installed in both exhaust ports. Mufflers should be selected to reduce noise to the level required by the environment.

PENDANT CONTROL

Pendant control on the A3 models provide the ability to operate unit from a remote location 20 feet away. Our pendant controls come equipped with e-stop.

2-YEAR WARRANTY

Industry-leading two-year limited warranty on *all* our products.



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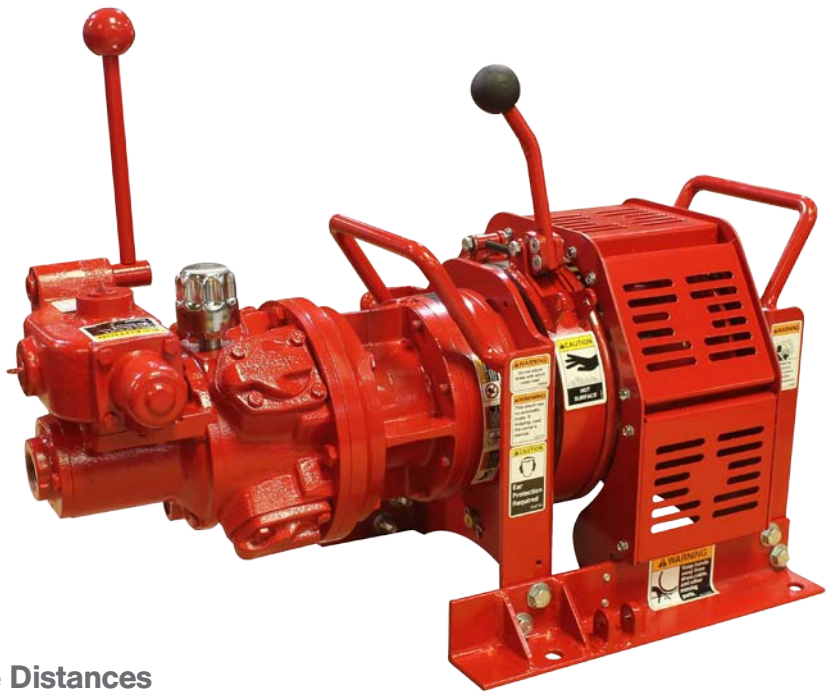
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MINI THERN AIR SERIES

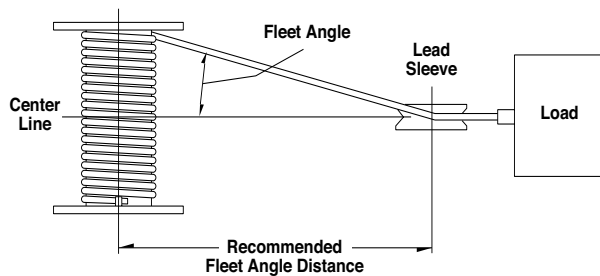


MTA1000



MTA1000 Minimum Fleet Angle Distances

Series	Drum Diameter		Flange Diameter		Drum Width		Fleet Angle Dist.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(ft)	(m)
MTA1000	4.5	114	8.5	216	4.5	114	7.16	2.18



MTA1000 Drum Capacities*

Drum Width				4.5 in (114 mm)					
Rope Diameter		Breaking Strength**		1st Layer		Mid Drum		Full Drum	
(in)	(mm)	(lb)	(kg)	(ft)	(m)	(ft)	(m)	(ft)	(m)
1/4	6.35	7,000	3,175	16	4.8	87	26.5	190	57.9

* Drum capacity is based on a flange clearance of at least 1.5 times the wire rope diameter with the rope at top layer. ** Values based on 7x19 Galvanized Aircraft Cable wire rope.

MTA1000 Load Rating

Load Rating 1st Layer	1,400 lb	635 kg
Load Rating Mid-Drum	1,000 lb	453 kg
Load Rating Full Drum	800 lb	362 kg
Line Speed 1st Layer*	30 fpm	9 m/min
Line Speed Mid Drum*	41 fpm	12.5 m/min
Line Speed Full Drum*	52 fpm	15.8 m/min
Input HP	1.35 hp	1.0 kw
Max. Stall Pull 1st Layer**	2,600 lbs	1179 kg
Pressure	90 psi	6.2 bar
Flow	60 scfm	1.69 m3/min
Pipe Inlet Size	0.5 (in)	12.7 mm
Hose Size	.75 (in)	19.0 mm
Minimum Design Temp	-4° F	-20° C

* Line speeds are estimated values based on testing and may vary based on conditions of air supply. Speeds shown are at max line pull.

** Estimated value

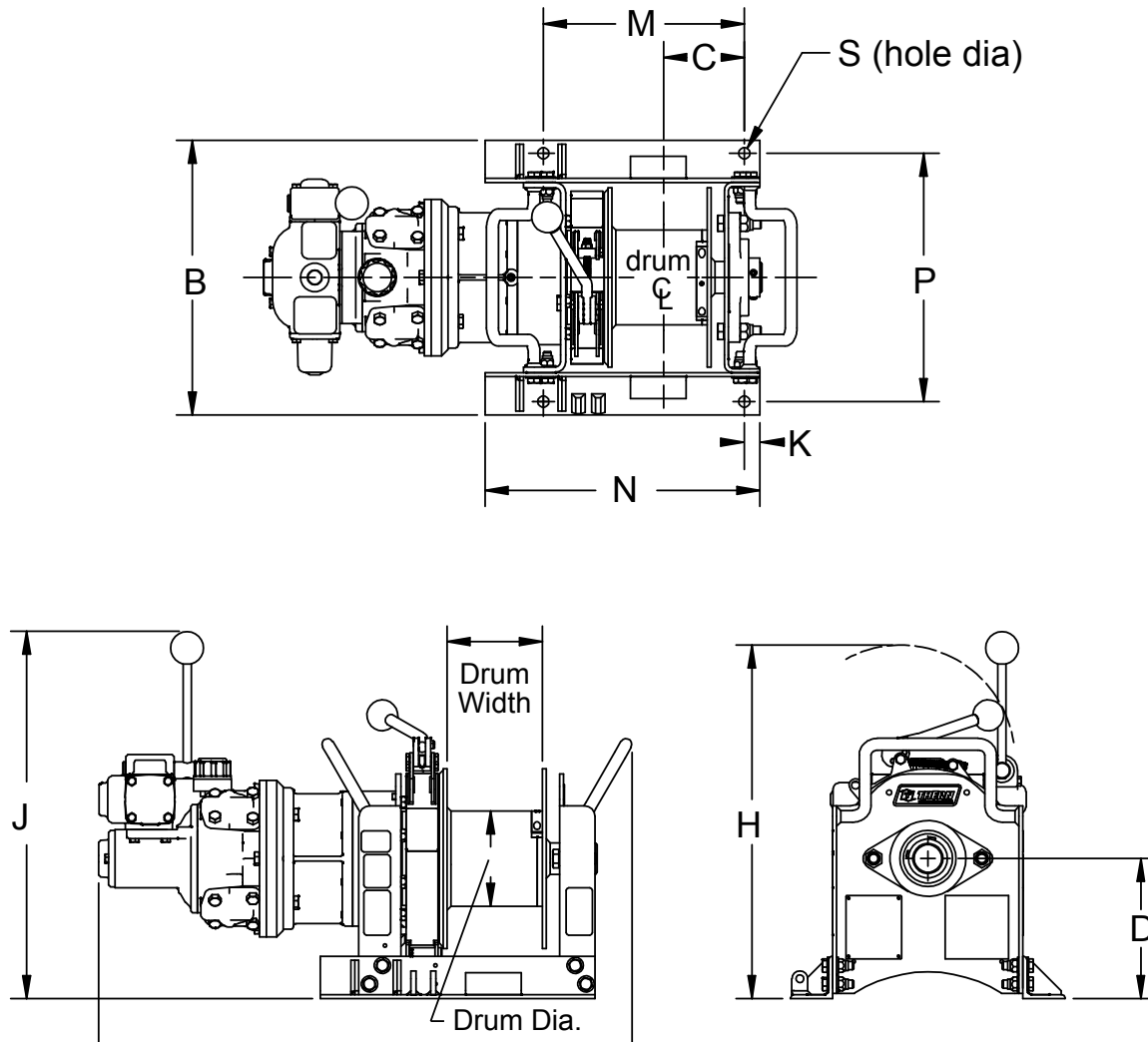


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MTA1000 DIMENSIONS



MTA Series Winch Dimensions

Model	A		B		C		D		H		J	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
MTA1000 4M1	25.25	641	13	330	3.81	97	6.625	168	16.75	425	17.375	441
MTA1000 4A1	25.25	641	13	330	3.81	97	6.625	168	-	-	17.375	441
MTA1000 4A3	25.25	641	13	330	3.81	97	6.625	168	-	-	-	-

	K		M		N		P		S (Hole Dia.)		Ship. Wt.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)
MTA1000 4M1	0.75	19	9.5	241	13	330	11.75	298	.56	14	124	56
MTA1000 4A1	0.75	19	9.5	241	13	330	11.75	298	.56	14	133	60
MTA1000 4A3	0.75	19	9.5	241	13	330	11.75	298	.56	14	153	69

Dimensions are for reference only and subject to change without notice. Please contact Thern for exact dimensions.

IMPORTANT:

It is the owner or operator's responsibility to determine the suitability of the equipment to its intended use. Study all applicable codes, manuals and regulations. Be sure to read the Owner's Manual supplied with the equipment before operating it.

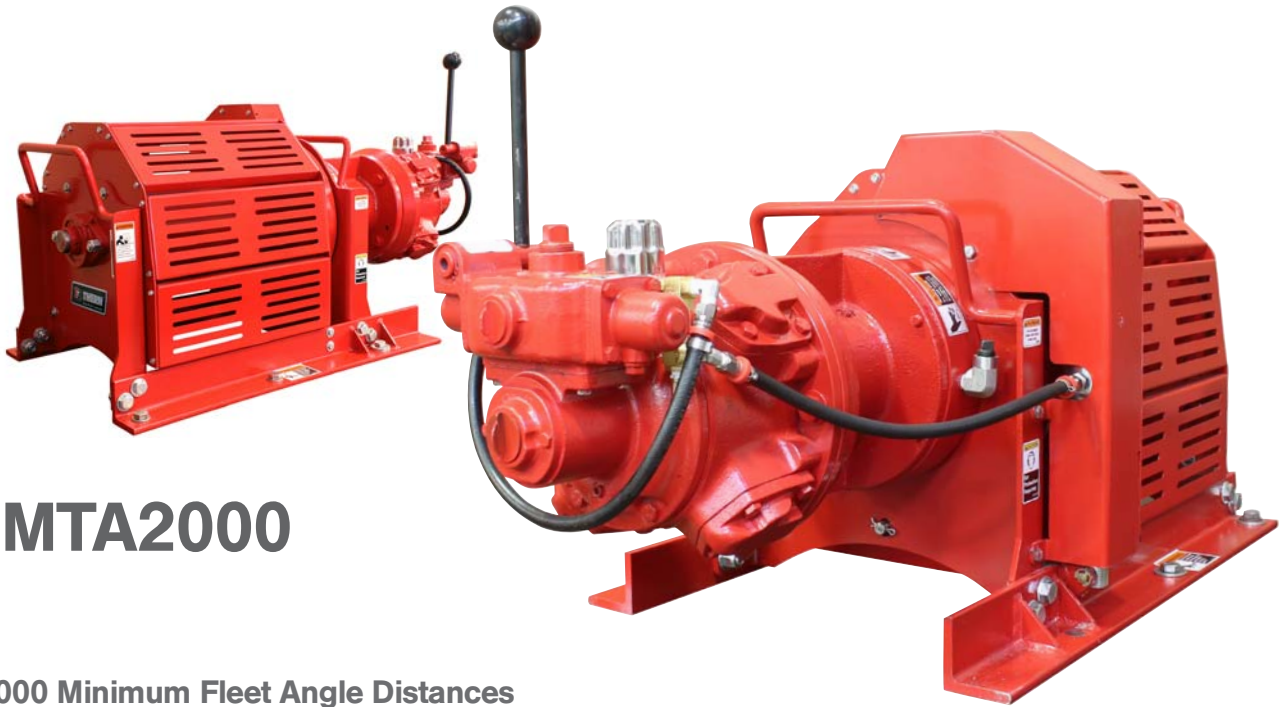


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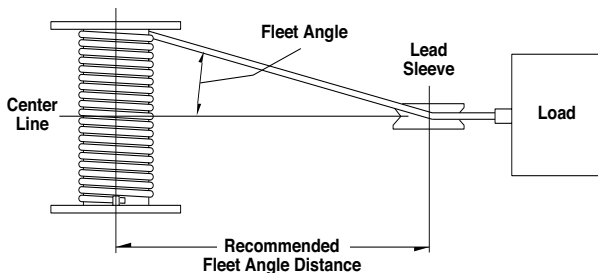
MINI THERN AIR SERIES



MTA2000

MTA2000 Minimum Fleet Angle Distances

Series	Drum Diameter		Flange Diameter		Drum Width		Fleet Angle Dist.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(ft)	(m)
MTA2000-5	7	177.8	13.75	349	5.0	127	7.95	2.4
MTA2000-13	7	177.8	13.75	349	13.0	330	20.67	6.3



MTA2000 Drum Capacities*

Drum Width		Rope Diameter		Breaking Strength**		1st Layer		Mid Drum		Full Drum	
(in)	(mm)	(in)	(mm)	(lb)	(kg)	(ft)	(m)	(ft)	(m)	(ft)	(m)
5	127	3/8	9.5	15,100	6,849	17	5.1	100	30.4	220	67.0
13	330	3/8	9.5	15,100	6,849	55	16.7	260	79.2	580	176

* Drum capacity is based on a flange clearance of at least 1.5 times the wire rope diameter with the rope at top layer. ** Values based on 6x37 IWRC EIPS wire rope.

MTA2000 Series Load Rating

Load Rating 1st Layer	2,700 lb	1,224 kg
Load Rating Mid-Drum	2,000 lb	907 kg
Load Rating Full Drum	1,600 lb	725 kg
Line Speed 1st Layer*	40 fpm	12.2 m/min
Line Speed Mid Drum*	54 fpm	16.4 m/min
Line Speed Full Drum*	67 fpm	20.4 m/min
Input HP	3.5 hp	2.6 kw
Max. Stall Pull 1st Layer**	5,800 lbs	2630 kg
Pressure	90 psi	6.2 bar
Flow	140 scfm	3.96 m3/min
Pipe Inlet Size	0.75 (in)	19.0 mm
Hose Size	1.0 (in)	25.4 mm
Minimum Design Temp	-4° F	-20° C

* Line speeds are estimated values based on testing and may vary based on conditions of air supply. Speeds shown are at max line pull.

** Estimated value

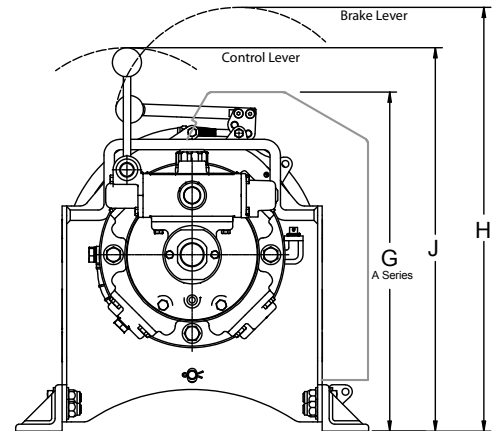
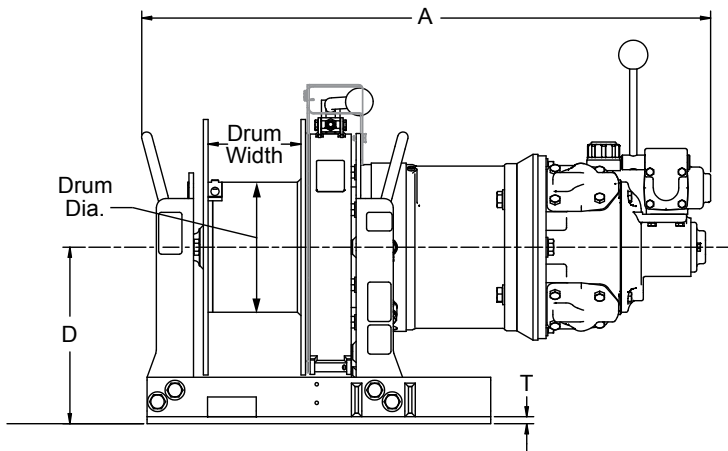
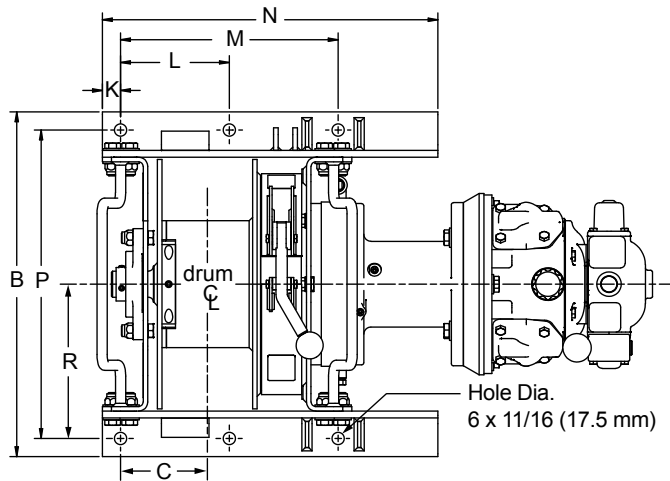


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MTA2000 DIMENSIONS



MTA2000 Series Winch Dimensions

Model	A		B		C		D		G		H		J		K	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
MTA2000-5M1	30.625	778	19	482	4.781	121	9.5	241	-	-	22.8	579	20.625	524	1.0	25.4
MTA2000-5A1	30.625	778	19	482	4.781	121	9.5	241	18.25	463	-	-	20.625	524	1.0	25.4
MTA2000-5A3	30.625	778	19	482	4.781	121	9.5	241	18.25	463	-	-	-	-	1.0	25.4
MTA2000-13M1	30.625	778	19	482	8.781	223	9.5	241	-	-	22.8	579	20.625	524	1.0	25.4
MTA2000-13A1	30.625	778	19	482	8.781	223	9.5	241	18.25	463	-	-	20.625	524	1.0	25.4
MTA2000-13A3	30.625	778	19	482	8.781	223	9.5	241	18.25	463	-	-	-	-	1.0	25.4

	L		M		N		P		S (Hole Dia.)		T		Ship. Wt.	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lb)	(kg)
MTA2000-5M1	6	152	12	305	18.5	470	17	432	.6875	17.5	.375	9.5	282	128
MTA2000-5A1	6	152	12	305	18.5	470	17	432	.6875	17.5	.375	9.5	294	134
MTA2000-5A3	6	152	12	305	18.5	470	17	432	.6875	17.5	.375	9.5	315	143
MTA2000-13M1	10	254	20	508	26.5	673	17	432	.6875	17.5	.375	9.5	320	145
MTA2000-13A1	10	254	20	508	26.5	673	17	432	.6875	17.5	.375	9.5	332	151
MTA2000-13A3	10	254	20	508	26.5	673	17	432	.6875	17.5	.375	9.5	353	160

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