





Note: Some specifications are subject to change.

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TRUCK LOADER CRANE

TM-ZX1200MH For Large Size Vehicles

High quality and comfortable operability, for more powerful work.

The TM-ZX1200MH is a high quality machine, combining robustness and power of a large-scale crane with comfortable workability.

TM-ZX1200MH

Three advantages for more powerful work

2

3

Max. Lifting Capacity: 12 t

Crane Capacity: 22 tm (8.8 t at 2.5 m)

Boom Length: 16 m

Max. Lifting Height: Approx. 17.8 m Max. Load Radius: 15.7 m

Max. Outriggers **5.5**m

Tough outriggers with box structure jacks ensure excellent stability.



TM-ZX1200MH **Cargo Crane for Large Size Vehicles**

TADANO X1200

Hook-in System

TADANO original hook-in system is equipped as standard and enhances work efficiency.

Anti-twoblock **Function**

This function stops crane operation (hoisting up, boom elevation, and boom extension) when the hook block touches the weight, and warns the operator with an alarm, to prevent the hook block from hitting the boom head



Responding to Operator's command

Equipped with optimally matched, high-performance control valves, the operating levers provide improved responsiveness and fine-tuned control.

Operation is fast or slow in accordance with operator's command.

The stainless rods between the left and right operation levers are provided as standard.



Continuous 360° Full Circle Slewing

The newly designed compact slewing post improves performance providing full circle, continuous rotation for more efficient operations. Automatic slewing lock: The boom is mechanically locked at the slewing post base which prevents boom rotation during vehicle travel.



Strong Pentagonal Boom

TADANO's strong and light pentagonal boom made of high tensile steel thoroughly designed and well proven for its quality, strength and smoothness, with a rigid and fine-tuned telescoping boom providing comfortable crane operation.



Strong and wide **Outrigger**

Strong 5.5 m width and powerful outriggers with box structure jacks, an easy and safe lock system together with new universal floats. The lock system is one of the advanced reliable TADANO standard safety systems.





Big **Hydraulic Tank**

TADANO

Big hydraulic tank with approximately 90 liter capacity.

Tiltable Front Outrigger Jack Float

Tiltable float rotates 360 degrees to fit any ground, for better stability. Large floats reduce ground pressure.



3

Automatic Slewing Lock System

The boom is mechanically locked securely at the boom post base to prevent the boom from accidentally slewing out during travel.

Powerful Elevating Cvlinder

The cylinder use hydraulic, control, and processing technologies cultivated from more than 50 years of manufacturing experience, supporting greater work capacity.

Cable Follower

The cable follower prevents disorderly cable (wire rope) winding by always pressing the cable onto the winch drum and puts the wire rope at a right position.



TM-221200



TM-ZX1200MH

Technical Specifications

Model	TM-ZX1205MH
MAXIMUM LIFTING CAPACITY	12,000 kg at 1.6 m (8-part line)
CRANE CAPACITY	8,800 kg at 2.5 m (8-part line)
BOOM	Five-sectioned, fully powered partly synchronized telescoping boom of pentagonal box construction with 4 sheaves at boom head
Fully retracted length	4.48 m
Fully extended length	16.00 m
Extension speed	11.5 m in 38 s
Elevation	Elevated by two double-acting hydraulic cylinders
Boom raising speed	0° to 80° in 22 s
Boom point	4 sheaves
WINCH	Hydraulic motor driven. Spur gear speed reduction, provided with mechanical brake and cable follower
Single line pull	14.96 kN {1,525 kgf}
Single line speed	44 m/min (at 4th layer)
Wire rope(Diameter x length)	10 mm x 95 m
Wire rope(Breaking strength)	73.5 kN {7,500 kgf}
Wire rope(Construction)	7 x 7 + 6 x Fi (29)
Hook block	4 sheaves
HOOK STOWING DEVICE	Mechanically stowed beneath boom top portion
SLEWING	Hydraulic motor driven. Worm gear speed reduction. Continuous 360° full circle slewing on ball bearing slew ring. Automatic slewing lock
Slewing speed	2.1 min ⁻¹ {rpm}
OUTRIGGERS	Hydraulically operated beams and jacks. Integral with crane frame
Extended width	Min.: 2,280 mm, Mid.: 3,900 mm, Max.: 5,500 mm
HYDRAULIC SYSTEM	
Hydraulic pump	Single gear pump
Hydraulic motors	Axial piston type for winch and slewing
Control valves	Multiple control valves with integral safety valves
Oil tank capacity	approx. 90 liters
SAFETY DEVICES	 Load meter Load indicator Over-winding alarm Anti-two-block device Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge
OPTIONAL EQUIPMENT	•Rear outriggers (outrigger beam extension type) •Rear outriggers (outrigger beam non-extension type) •Oil cooler •Maintenance cock
CRANE MASS	Approx. 3,500 kg (except mounting parts)

Note: Operating speeds of the crane are guaranteed under the condition that the pump delivery is 60 L/ min.

Working Range (4 parts of line)



Note: The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

Dimensions



Rated Lift	ing (Capa	aciti	es (x 1,00	0 kg)		< over-	side , over	-rear are	a >	(over-fi	ront area	: 25%	of emp	ty chas	ssis rate	ed lifting	g capacity)	
Table A									Table B											
• 4 48 m boom									• 4 48	8 m boo	m									
Load radius (m)	1.6 and	2	25 30		33		3.5	4.18	Load	radius (r	m)	1.6 and	2	5	3.0	3.3	3 35		4.18	
Crane Stren9th	12.00	8.8	8.80 7.00		6.1	10 5.70		4.70	Crane	Streng	th	12.00) 8.8	0	7.00 F		6.10 5.7		4.70	
Extension Max.	12.00	8.8	8.80 7.00 6.		6.1	0 5.70		4.70		Extension	Max.	12.00) 8.8	8.80		6.1	0 5.70		4.70	
Empty width of Mid. 12.		8.8	30	6.85	5.4	5 4	4.80	3.25	Empty	width of	Mid.	12.00	3.8	0	7.00	6.1	.10 5.7		4.10	
Min.	10.00	3.8	3.80 2		2.2	0 .	1.95	1.35	Glidssis	outriggers	Min.	12.00) 4.6	5	3.30		2.75 2		1.70	
• 7.36 m boom																				
Load radius (m)	2.5 below	3.0	3.5	4.0	4.5	5.0	6.0	7.06	Load	radius (r	m)	2.5 below	3.0	3.5	4.0	4.5	5.0	6.0	7.06	
Crane Stren9th	6.10	6.10	5.50	4.90	4.40	3.90	3.10	2.50	Crane	Strengt	th	6.10	6.10	5.50	4.90	4.40	3.90	3.1	0 2.50	
Extension Max.	6.10	6.10	5.50	4.90	4.40	3.65	2.50	1.75	Empty	Extension	Max.	6.10	6.10	5.50	4.90	4.40	3.90	J 3.1	0 2.25	
Chassis outriggers	0.10	0.10	4.65	3.50	2.75	2.20	1.50	1.04	Chassis	outriggers	Mia.	6.10	0.10	5.50	4.40	3.50	2.90	2.0	5 1.45	
10.24 m hoom																				
Load radius (m)	15 and	5.0	60) 7	0	80	9.0	0.01	L oad	radius (r	m)	15 and	5.0	6	7 ר	0	80	9.0	9.94	
Crane Strength	3.30	3.20	2.9	0 2	50	2.10	1.85	1.55	Crane	Strengt	th	3.30	3.20	2.9	0 2	50	2.10	1.85	1.55	
Eutonoion Max.	3.30	3.20	2.5	0 1.	75	1.35	1.05	0.85		Extension	Max.	3.30	3.20	2.9	0 2.	25	1.85	1.50	1.20	
Empty width of Mid.	2.75	2.20	1.5	0 1.	04	0.82	0.62	0.46	Empty	width of	Mid.	3.30	2.90	2.0	5 1.	45	1.15	0.90	0.70	
Onassis outriggers Min.	1.10	0.85	0.5	2 0.	26	0.19	-	-	Griassis	outriggers	Min.	1.40	1.15	0.7	5 0.	45	0.25	-	-	
 13.12 m boom 	• 13.1	• 13.12 m boom																		
Load radius (m)	4.5 ^{and} 5	5.0 6.	0 7.0	8.0	9.0	10.0	11.0 12	.0 12.82	Load	radius (r	m)	4.5 ^{and} below	5.0 6.0) 7.0	8.0	9.0	10.0	11.0 1	2.0 12.82	
Crane Strength	3.20 3	.10 2.7	70 2.40	2.10	1.75	1.50	1.30 1.1	10 1.00	Crane	Streng	th	3.20	3.10 2.7	0 2.40	2.10	1.75	1.50	1.30 1	.10 1.00	
Empty Extension Max.	3.20 3	.10 2.5	50 1.75	0 1.35	1.05	0.80	0.68 0.6	50 0.55	Empty	width of	Max.	3.20	3.10 2.7	0 2.2	0 1.85	1.50	1.15	0.95 0	.80 0.70	
• 16 00 m boom	2.75 2	.20 1.3	50 1.04	0.82	0.62	0.45	0.37 0.3	31 0.26	16 (outriggers	Mia.	3.20	2.90 2.0	5 1.4	5 1.15	0.90	0.65	0.50 0	.40 0.35	
Load radius (m)	5 Dand 6		80 0	0 100	11 0 1	12 0 13	0 1/ 0 1	150 157	L oad	radius (r	m)	5 n and 6		80 0	0 10 0	110	120 13	0 1/ 0	15 0 15 7	
Crane Strength	2 60 2 4	0 2 20	1.90 1	70 1 45	1 25 1	1 10 1 0		0.80 0.70	Crane	Stren@	th	2 60 2	40 2 20	1.90 1	70 1 45	1 25	1 10 1 (0 0 90	0.80 0.70	
Empty Extension Max.	2.60 2.4	0 1.75	1.35 1.	05 0.80	0.68 0	0.60 0.5	53 0.47 (0.42 0.39	Empty	Extension	Max.	2.60 2	40 2.20	1.85 1.	50 1.15	0.95	0.80 0.6	68 0.60	0.55 0.50	
Chassis outriggers Mid.	2.20 1.5	0 1.04	0.82 0.	62 0.45	0.37 0	0.31 0.2	25 0.22 0	0.18 0.15	Chassis	outriggers	Mid.	2.60 2.	05 1.45	1.15 0.	90 0.65	0.50	0.40 0.3	33 0.28	0.25 0.22	
Table C									Notes											
Table C									1. This	s value d	epen	ds on c	ondition t	hat cra	ne is se	t level	on firm	level gr	ound.	
4.48 m boom									2. This	s value h	as be	en calc	ulated or	the ba	isis of IS	SO 154	42.	5		
Load radius (m)	1.6 and below	, 2.	5	3.0	3.3	3	3.5	4.18	3. Thi	s value in	nclud	es the n	nass of lif	ting de	vices su	ich as l	hook bl	ock (95 n dofloc	i kg).	
Crane Stren9th	12.00	8.8	30	7.00	6.1	0 5	5.70	4.70	5. Rat	ed lifting	capa	acitv is i	n conside	eration	of the lo	adina	on the t	truck be	d. and is	
Extension Max.	12.00	8.8	30	7.00	6.1	0 {	5.70	4.70	with	nin the ra	inge f	rom the	empty c	hassis	rated lif	ting ca	pacity t	o the cr	ane	
Chassis outriggers Mid.	12.00	8.8	30	7.00	6.1		5.70	4.70	stre	ngth rate	ed lift	ing cap	acity.	ble vel		o littlo	the ne	rformor	oo io	
Min.	12.00	5.5	50	3.95	3.3	5 3	3.00	2.15	limi	ted to the	e per	formanc	ce of the la	next bo	om leno	a iitile, ath.	, the pe	norman	Ceis	
l oad radius (m)	2 5 and	3.0	3.5	4.0	15	5.0	60	7.06	7. Wh	en the lif	ting l	oad is h	eavier that	an 6,10	0 kg, nu	imber o	of part I	ines mu	st be 8. In	
Crane Stren0th	6.10	6.10	5.50	4.0	4.5	3.0	3 10	2.50	cas	e of 6,10	0 kg	or less,	number (of part	lines mu	ust be 4	4. Load	per line	must not	
	6.10	6 10	5.50	4 90	4 40	3.90	3 10	2.50	8 Fm	Dass 14.8 ntv Chas	96 KIN sis R	1 { 1,525 lated Ca	Kgī}.	table A	B and	C dene	and on	the type	es of	
Empty Extension Mid.	6.10	6.10	5.50	4.90	4.05	3.35	5 2.40	1.75	cha	ssis.			apuonioo		, D unu	o dopt		ino type		
Chassis outriggers Min.	5.35	3.85	2.90	2.25	1.85	1.50) 1.00	0.70	9. Em	pty Chas	sis R	lated Ca	apacities	are sho	wn for	over-si	de area	s and o	ver-rear	
• 10.24 m boom									area	a. These	capa	icities fo	or over-fro	ont area	a may b	e lowei	red dep	ending	on the	
Load radius (m)	4.5 and below	5.0	6.0) 7	.0	8.0	9.0	9.94	(Th	e followir	ng tal	ole shov	vs quideli	nes for	bodyw	ork veh	nicles th	at can a	achieve	
Crane Stren9th	3.30	3.20	2.9	0 2.	50	2.10	1.85	1.55	the	rated lift	ing c	apacitie	s tables A	A, B and	d C. Ée	sure to	carry o	out a sta	ability	
Extension Max.	3.30	3.20	2.9	0 2.	50	2.10	1.80	1.45	insp	pection to	o det	ermine v	which per	tormar	ice to a	oply.)				
Chassis outriggers	3.30	3.20	2.4	0 1.	75	1.40	1.10	0.90	A 14	D. 5000		01/07 0	ANI: 0E +	01/07 0	A\A/£ /*-	1.204	01/07			
Min.	1.85	1.50	1.0	0 0.	/0	0.55	0.40	0.25	AW	DUUC	mm	over, G	VVV: 25 t	over, C	AVVI (*1	1): 3.0 t	over			
 13.12 m boom 	A r and		0 70	0.0	0.0	10.0	11 0 40	0 10 00	BW	IB: 5000	mm	over, G	vw: 25 t	over, C	AWt (*1	i): 4.0 t	over			
Load radius (m)	4.5 below	b.U 6.	0 7.0	8.0	9.0	10.0	11.0 12	12.82		/B: 5000	mm	over, G	VW: 25 t	over, C	CAWf (*1	1): 5.0 t	tover			

 Extension
 Max
 3.20
 3.10
 2.70
 2.40
 2.10
 1.75
 1.30
 1.10
 1.00

 Empty Chassis
 Extension
 Max
 3.20
 3.10
 2.70
 2.40
 2.10
 1.75
 1.40
 1.20
 1.05
 0.95
 • 16.00 m boom

 Load radius (m)
 5.02%
 6.0
 7.0
 8.0
 9.0
 10.0
 11.0
 12.0
 13.0
 14.0
 15.7

 Crane Strength
 2.60
 2.40
 2.20
 1.90
 1.70
 1.45
 1.25
 1.10
 1.00
 0.90
 0.80
 0.70

 Empty Chassis
 Extension Max
 2.60
 2.40
 2.20
 1.90
 1.70
 1.40
 1.20
 1.05
 0.90
 0.80
 0.70
 0.65

 Chassis
 outriggers
 Mid.
 2.60
 2.40
 1.75
 1.40
 1.10
 0.85
 0.70
 0.60
 0.53
 0.47
 0.42
 0.40



Truck mount



5

*1 Chassis front axle weight (excluding crane mass)



(mm)

