TOTAL RATED LOADS (kg) TM-45Z

Working Radius (m)	2.1	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
Total Rated Load (kg)	4,000	3,350	2,800	2,400	2,100	1,850	1,650	1,500	1,350

TM-45ZH

3.41m/5.82m boom length

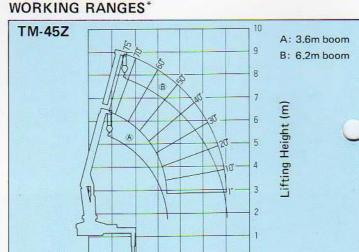
Working Radius (m)	2.1	2.5	2.7	3.0	3.5	4.0	4.5	5.0	5.5					
Total Rated Load (kg)	4,000	3,250	3,000	2,700	2,300	2,000	1,800	1,600	1,450					
3.2m boom length														
Working Radius (m)	2.1	2.5	2.7	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
Total Rated Load (kg)	3,000	3,000	3,000	2,700	2,300	2,000	1,800	1,600	1,450	1,350	1,250	1,150	1,050	1,000

1. The weight of the hook (45kg), slings and other ancillary lifting devices must be added to the weight of the load.

the above tables. This will depend on the type of chassis and its laden condition.

T	E	C	Н	N	C	ΑL	SP	E	CI	FI	C	ΔT	10	NS	

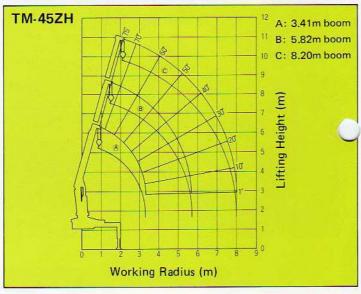
MODEL	TM-45Z	TM-45ZH						
MAXIMUM CAPACITY	4,000kg	at 2.1m						
BOOM								
Type	Box type, full power telescoping							
	under load							
Sections	2	3						
Length	3.6m - 6.2m	3.41m - 8.2m						
	centres	centres						
Extension speed	Min max, in 14sec	Min max in 24sec						
Elevation range/speed	1° - 75° in 15sec							
Maximum tip height	Approx. 8,9m*	Approx. 10.9m*						
Maximum hook height	Approx. 7.7m*	Approx. 9.7m*						
Maximum working	00.4	0.0-*						
radius	6.0m*	8.0m*						
WINCH								
Type	Axial piston motor wit	h spur gear reduction						
	and power lowering with an automatic fail-							
	safe brake							
Permissible single line	1. Marie 1.							
pull	800kg							
Maximum single line	56m/min	54m/min						
speed	off the top (4th) layer	off the top (4th) laye						
Wire rope	54m x 9mm							
SWING	360° continuous swing on heavy duty ball-							
	bearing swing ring driven by axial piston							
	motor through worm reduction gearing							
Speed	2.5rpm							
OUTRIGGERS	Integral with crane frame with manually							
	operated slider beams and hydraulically							
	operated jacks with check valves. Power up							
	and down							
Extended width								
- maximum	3,75m centres							
- midway	3.00m centres							
HYDRAULIC SYSTEM								
Pump	Single gear pump							
Control valves	Multiple control valve bank with integral							
	pressure relief valve							
Oil reservoir	Contents	Contents						
	approx. 400	approx. 400						
	Total circuit contents	Total circuit content						
	approx. 64.50	approx. 680						
SAFETY EQUIPMENT	Load Meter							
	Load Indicator							
	Overhoist alarm							
	Hook safety latch							
	Pressure relief valve							
	Counterbalance valves							
	Counterbal	alice valves						



Working Radius (m)

2. The total rated loads are based on crane strength only. Total

rated loads based on truck stability may be lower than those in



NOTES

- 1. * no allowance made for boom deflection under laden conditions
- 2. Operating speeds are based on a pump delivery of 450/min.
- 3. Continuing technical development requires Tadano to retain the right to make specification, equipment and price changes without notice.

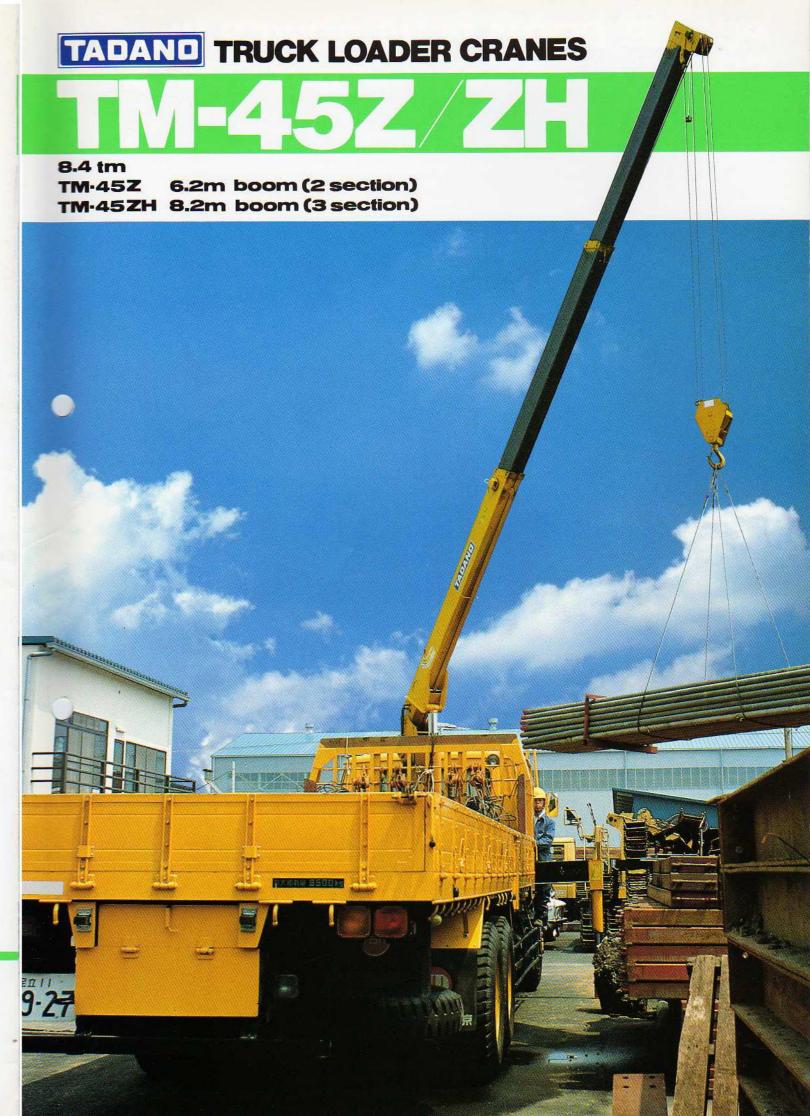
TADANO LTD.

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Form No. TM-45Z-1-07/08/EX-01 TEC 10000 35 2 Printed in Japan 650NM85G10



POWER BOOM PLUS POWER WINCH BOOST BUSINESS-LOWER COSTS

Tadano's new TM-45Z Series truck loader cranes not only make light work of any load but also increase your range of business applications. Easily fitted to almost any type of large size truck with a vehicle weight of 4.2 tons or more, these highly efficient 4 ton capacity truck loader cranes enable you to load, transport and unload almost any kind of cargo in complete safety, and with minimum manpower. Tadano's highly effective combination of full power boom and powerful hydraulic winch allows you to handle even really awkward loads in normally difficult situations.

And needless to say, maintenance and costly down-time are minimised — a well proven design and Tadano quality see to that. Tadano's TM-45Z

Tough but lightweight 2 or 3 section booms

Full power boom telescoping cylinders

Powerful hydraulic winch for easy load handling

Smooth, continuous 360° swing

Fingertip control levers on both es

Well balanced and compact frame

(Ream retracte

Wide-span hydraulic outriggers

and TM-45ZH, versatile,

cost-saving and plain

Highly efficient return line filtration

common sense.

(Beam extended)

*The machine illustrated above is the sample model of the Tadano TM Series, and differs slightly from the one supplied.

THE MOST EFFICIENT WAY TO LOAD, TRANSPORT AND UNLOAD

TWO OR THREE SEC-TION FULL LENGTH POWER BOOMS

Both booms power telescope, the two section TM-45Z from 3.6 - 6.2m and the three section TM-45ZH from 3.41 - 8.2m. Counterbalance valves are fitted to the telescope and elevation cylinders to provide smooth, positively controlled boom retraction and lowering —the working range is 1° - 75°. The telescope cylinders are located inside the boom to provide a compact design of low overall height—easy

maintenance access is designed in from the start. The use of high tensile steel in the booms gives a strong but lightweight design of crane with higher lifting capacities and higher vehicle payload.

POWERFUL HYDRAULIC WINCH

The winch is a key feature of the Tadano TM Series truck loader range. The high starting torque axial piston motor with its easy 'inching' characteristics makes it simple to handle even fragile loads and, with its 800kg line pull, provides smooth, powerful hoisting and lowering through a single lever control. An automatic fail-safe brake ensures that the operator is always in control. Coupled with the power telescoping boom, the winch gives real flexibility.

TOUGH COMPACT DESIGN

Tadano's truck loader design features the tough, lightweight boom; well balanced and compact frame and wide-span outriggers enable these TM Series cranes to offer excellent lifting capacities as well as maintain cargo payload and loading space.

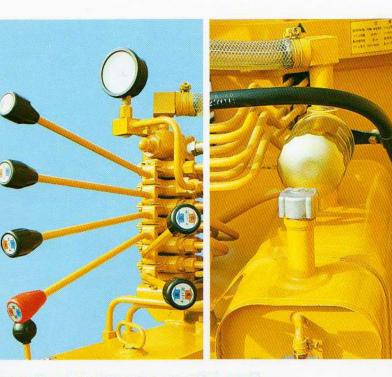


FINGERTIP CONTROLS

All crane functions are controlled by levers accessible from both sides of the truck. The swing control is grooved to make it easily distinguishable in the dark. Speeds are governed by the engine accelerator lever and the fingertip controls make light work of any job.

CONTINUOUS SWING THROUGH 360°

For easy loading and unloading the crane swings continuously through 360° on a heavy duty ball-bearing swing ring. Drive is provided by a high torque axial piston motor through reduction gearing. Braking is fully automatic.



WIDE-SPAN HYDRAULIC OUTRIGGERS

The outrigger beams slide out manually to give a 3.75m centres blocking base. For work in confined spaces they can also be pinned at 3.0m centres. The hydraulic jacks, with their integral check valves, extend or retract independently or simultaneously.

RETURN LINE FILTRATION

Both the TM-45Z and TM-45ZH feature return line filtration through a replaceable cartridge type oil filter. The hydraulic oil reservoir is fitted with a sight level gauge.

COMPREHENSIVE SAFETY EQUIPMENT

Tadano's proven technology, which has made the company one of the world's leading hydraulic crane manufacturers, has been put to good use in the design of the TM-45Z and TM-45ZH. All load bearing cylinders are fitted with safety valves as a precaution against hose failure. Counterbalance valves are fitted to the telescope and elevation cylinders to provide smooth retraction and lowering under positive control. A pressure relief valve is fitted to guard against hydraulic circuit overload. Tadano truck loaders are fitted with an overhoist alarm to prevent two-blocking when hoisting, a Load Meter which shows the load on the hook and a Load Indicator which shows the boom angle and permissible load for the boom length in use. Both of these latter safety devices can be read from either side of the crane.





