

SPECIFICATIONS



DIMENSIONAL SPECIFICATIONS

	45DT	45DTN	45DW
A. Overall Operating Height, in (mm)	85 (2159)	85(2159)	84(2134)
B. Height to Hinge Pin, in (mm)	68.8 (1746)	68.8(1746)	67.8(1721)
C. Overall Height of Vehicle, in (mm)	51.3 (1302)	51.3(1302)	50.3(1276)
D. Overall Length with Bucket, in (mm)	79.8 (2026)	79.8(2026)	79.8(2026)
E. Dump Angle, Degree	72	72	72
F. Dump Height, in (mm)	46 (1168)	46(1168)	45(1143)
G. Reach- Fully Raised, in (mm)	10 (254)	10(254)	10(254)
H. Height at 45 deg. Dump Angle, in (mm)	48.8 (1238)	48.8(1238)	47.8(1213)
I. Reach at 45 deg. Dump Angle, in (mm)	18.8 (476)	18.8(476)	18.8(476)
J. Maximum Rollback at Ground, Deg.	35	35	35
K. Maximum Rollback Fully Raised, Deg.	34	34	34
M. Wheelbase, in (mm)	29.3 (743)	29.3(743)	29.1(740)
N. Overall Length Less Bucket, in (mm)	63.3 (1607)	63.3(1607)	63.3(1607)
O. Ground Clearance, in (mm)	6 (152)	6(152)	5(127)
P. Maximum Grading Angle Bucket, Deg.	70	70	70
Q. Angle of Departure, deg.	30	30	30
R. Bucket Width, in (mm)	42 (1067)	36(914)	30.3(768)
S. Clearance Front-Less Bucket, in (mm)	43.5 (1105)	43.5(1105)	38.4(975)
T. Clearance Front-With Bucket, in (mm)	64.4 (1635)	63.5(1613)	51(1295)
U. Clearance Circle Rear, in (mm)	25.8 (654)	25.8(654)	37.8(960)
V. Overall Width - Less Bucket, in (mm)	41.2 (1046)	35.6(904)	41(1041)
W. Tread, in (mm)	32.14 (816)	28.51(724)	32.75(832)

Specifications are with 9.06" (230mm) tracks & 42" (1067mm) bucket

Specifications are with 7.09" (180mm) tracks & 36" (914mm) bucket

Specifications are with 18 x 8.50 x 8 tires & 42" (1067mm) bucket

Tipping load is based on a 200 lb. (91 kg) operator.

Specifications and design are subject to change without notice.



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THOMAS 45 SERIES



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PERFORMANCE:

	45DT	45DTN	45DW
Tipping Load, lbs (kg)	1235 (560)	1180 (535)	1135 (515)
Travel Speed, High Range, mph (km/hr)	3.5 (5.6)	3.5 (5.6)	3.2 (5.1)
Travel Speed, Low Range, mph (km/hr)	2.1 (3.4)	2.1 (3.4)	1.9 (3.1)
Travel Speed, Inching Range, mph (km/hr)	0.4 (0.6)	0.4 (0.6)	0.4 (0.6)
Travel Speed, Max. Overdrive, mph (km/hr)	5.3 (8.5)	5.3 (8.5)	4.6 (7.4)
Breakout Force, tilt lbs (kg)	2200 (998)	2200 (998)	2200 (998)
Shipping Weight, lbs (kg)	2200 (998)	2140 (971)	1800 (816)
* Operating Weight, lbs (kg)	2525 (1145)	2465 (1118)	2125 (964)

* With 200 lb (91kg) operator

ENGINE:

	Kubota	Kubota	Kubota
Make/Model	D1105 -E3B	D1105 -E3B	D1105 -E3B
Power, gross hp (kW)	24.8 (18.5)	24.8 (18.5)	24.8 (18.5)
Torque, ft.lbs (N.m)	52.7 (72)	52.7 (72)	52.7 (72)
Fuel Type	Diesel	Diesel	Diesel
Fuel Capacity, gal (l)	10 (37.9)	10 (37.9)	10 (37.9)

HYDRAULICS:

Hydraulic Pump Output, Low Flow, gpm (l/m)	5.5(20.8)	5.5(20.8)	5.5(20.8)
Hydraulic Pump Output, High Flow, gpm (l/m)	8.5(32.2)	8.5(32.2)	8.5(32.2)
Combined Hydraulic Flow, gpm (l/m)	14(53.0)	14(53.0)	14(53.0)
System Relief pressure, psi (bar)	3000(206.8)	3000(206.8)	3000(206.8)
Aux. Circuit Equipped with Cylinder Spool	Yes	Yes	Yes
Aux. Circuit Equipped with Motor Spool	Yes	Yes	Yes
Selector Valve, Standard	Yes	Yes	Yes
Combiner Valve, Standard	Yes	Yes	Yes
Flow Control Valve, Standard	Yes	Yes	Yes
Number of Bucket Cylinders	1	1	1
Number of Boom Cylinders	2	2	2
Self Leveling Bucket Standard	Yes	Yes	Yes
Filtration	10 Micron	10 Micron	10 Micron
Hyd. Oil Cooler w/ Auto Fan	Yes	Yes	Yes
Hydraulic Reservoir Capacity, gal (l)	11(41.6)	11(41.6)	11(41.6)

OPERATOR COMFORT

Yes Yes Yes

& SAFETY:

Hydraulic Controls Lockout - Traction Drive Lockout Boom Support - Work Light Standard - Shielded Hydraulic Hoses - Lifting Lugs - Transportation Tie Downs Single Lever Joystick Hydraulic Control - Single Hand Steering - Padded Operator Area - 12 Volt Accessory Plug

THREE HARD WORKING MODELS



The compact **45 series** is designed to get you to your work no matter how tight the quarters. And when there, have the power and performance features to make short work of any job. Available in three hard working

models, the **45DT** is equipped with 9 inch (230 mm) rubber tracks and low 4.8 psi (33.1 kPa) ground pressure lets you float over any terrain. When the walls start closing in the **45DTN** and its narrow 7 inch (180 mm) rubber tracks let you breeze through the skinniest openings with room to spare. The quick and nimble model **45DW** is equipped with 8.5 x 18 tires that allow smooth performance and turning with minimal disturbance on the softest turf.

POWER – PERFORMANCE

With a tipping load capacity of up to 1235 lbs. (560 kg) and standard no spill, self leveling bucket system, the 45 series turns even the most novice operator into a pro in seconds. Not just a lift and carry loader, the 45 series boasts a bucket breakout force of over 2200 lb. (998 kg) and when combined with its dual industrial boom cylinder design and powerful low speed high torque drive motors they become true digging machines. Power is supplied by a rugged Kubota D1105, 25 HP liquid cooled diesel engine. This reliable, top of the industry workhorse provides serious power and torque to the loaders drive system.

SIMPLE OPERATION

The 45's intuitive control system makes it simple to maneuver around the work area. Two steering levers provide precise one hand operation of both speed and direction. The loaders boom lift and bucket dump functions are controlled by a single joystick.



For maximum productivity and performance the operator has total control of power distribution. For optimum hydraulic performance, maximum power can be directed to the hydraulic circuit when operating attachments requiring high hydraulic flow such as snow blowers, earth augers and trenchers. When the work speeds up you can instantly direct maximum power to the drive system getting you wherever you need to go in a hurry. The 45's variable flow control provides precise metering of the hydraulic flow with the flexibility to even offer "inching" capability when trenching.

COMPLETE VERSATILITY

Your Thomas comes standard with a universal quick-tach able to mount a wide choice of attachments ensuring you always have the right tool for the job. Unlike its competitors, Thomas



comes equipped with two separate boom mounted hydraulic circuits. One circuit operates cylinder equipped attachments such as grapples and 4:1 buckets. The second hydraulic circuit equipped with integrated motor spool is used to power and protect motor driven attachments such as sweepers and snow blowers.

SAFETY FIRST

To protect the operator from unintended movement of the loader or the loaders boom or bucket on start up, all controls remain locked until the operator releases them. The loader is also equipped with a parking brake, lifting lugs and boom supports for safe maintenance. Other standard features include a 12 volt accessory plug and work light as we know

your work day may extend around the clock.



Compact in stature but with big machine performance the Thomas 45 series provides you with a powerful solution to your worksite problems.