

MOXY

Articulated Dump Trucks

MDT30 28,000kg | 17.8m³

MDT40 40,000kg | 26m³



EQUIPPING
YOUR Success

DISTRIBUTED IN NEW ZEALAND BY



MATAMATA INDUSTRIAL MACHINERY IMPORTS LTD



MOXY DELIVERS FOR KIWI OPERATORS

New and existing Moxy Articulated Dump Truck (ADT) owners can expect to see on-going benefits from MIMICO distributing Moxys in New Zealand.

MIMICO provides nationwide sales and product support for Moxy equipment, to go with the company's extensive parts availability.

MIMICO sells and supports the Moxy MDT30 and Moxy MDT40 in New Zealand.

- The **MDT30** has a payload of 28,000kg and a capacity of up to 17.8m³.
- The **MDT40** can handle up to 40,000kg with its maximum capacity of 26m³.

Innovation fuels productivity

High productivity means more material moved every day. Moxy brings an increased level of innovation to the productivity game. In every weight category, the Moxy ADT leads the industry with its superior body capacity.

It is designed to work in tough conditions and travel over 50 kilometres per hour. Add to this

its sure-footed traction in rough terrain and a quick-unloading tailgate and you get an ADT that delivers more, any way you look at it.

The Moxy ADT, with its unique forward-mounted turning ring, sloping rear frame and free-swinging gear driven tandem bogie, has stability that's hard to match and performance that can't be beaten. It all comes down to more contact with the ground, better traction and use of power, and faster work with better results.

Even the best equipment needs regular maintenance. Moxy delivers everything needed for a long lasting machine with a minimum of effort to achieve it: on-board diagnostic systems, easy component access plus a standard fleet management system.

Moxy fits neatly with MIMICO's existing brands such as Kobelco excavators, Metso crushing and screening equipment, Kawasaki wheel loaders, Atlas Copco rock breakers, and ZF off-road parts and service. It also fits well with MIMICO's existing clientele in the quarrying, mining, construction and forestry industries.

MOXY DELIVERS PRODUCTIVITY

Unique Sloping Frame - Better Weight Distribution

Other brands use rigid axles which lose traction and have a rougher ride. The Moxy frame is sloped downward from the hinge points to provide equal weight distribution on all axles when the truck is fully loaded. This provides a lower centre of gravity along with superior stability and tractive effort – not to mention better tire wear.

Centre of Gravity Adjustment

This productivity-preserving feature keeps the load securely in place for reliable performance. If a load starts to pull system hoist cylinders backward, the system slows down the tipping speed, giving the operator time to react and prevent spillage or unexpected dumping.

Front Wheel Suspension

The unique semi-independent front suspension allows free movement of one side, keeping the front wheels in contact with the ground for excellent traction and shock absorption.

Free-Swinging Rear Tandem Gear Driven Bogie Suspension

The Moxy ADT's free-swinging rear tandem bogie and special articulation system offer excellent

performance and the best possible ground contact in soft and uneven terrain for maximum productivity. It also allows easy loading of the truck in almost all positions and applications.

Downhill Speed Modulation

Downhill braking can be increased or decreased by simply 'feathering' the accelerator pedal.

Single Driveline

The single driveline only needs one longitudinal differential lock to provide the optimal power split of 50% to the front and 50% to the rear drive train. Together with two state-of-the-art, limited-slip differentials, Moxy ADTs will always deliver best-in-class traction. One easy-to-lock differential is used in the rear, providing operator comfort when driving. Other brands use two rear differentials connected by an interaxle drive-through system. This type of design is subject to damage from the outside, loss of power and premature wear.

One Rear Differential for Consistent Power

Moxy ADTs have one rear differential to reduce loss in power. Therefore the driveline delivers more power with fewer parts.





Semi-Independent Front Suspension

The new hydro-pneumatic system, exclusively designed for Moxey ADTs and available on the MDT40 only, works with the sloping rear frame and free swinging tandem to deliver low ground-bearing pressure, about equal to that of a traditional machine equipped with flotation tires.

Unique Front-Mounted Differential

Since the front differential is integrated into the transmission, the total length of the truck is reduced. This design brings better weight distribution and a smaller turning radius. That's an important advantage in confined areas.

Heavy-Duty Wet Disc Brakes for Each Wheel

The oil-cooled wet disc brakes on all six wheels provide excellent braking performance. Dry disc brakes are open and exposed to dirt and water. The wet brakes on Moxey ADTs are not affected by these conditions because they are fully encased in oil. Wet disc brakes last longer, have fewer service intervals, and are especially useful in extreme

conditions such as in deep mud and water. Air-cooled disc brakes on the MDT30 do not require forced cooling like most competitor designs.

Operate in Comfort and Simplicity

The operator's cab meets both Rollover Protective Structure (ROPS) and Falling Object Protective (FOPS) criteria. The cab is also equipped with heating and air-conditioning, plus a high quality air-suspension seat with a seat belt to provide excellent comfort. Precise steering, good visibility and low noise levels provide a productive and comfortable cab environment for the operator.

Best Manufacturing, Best Components

Moxey ADTs are among the most reliable dump trucks in the industry thanks to the long history of using reliable and proven components and manufacturing processes. With in-house control of all machining and robotic welding, Moxey maximizes the durability of all its assemblies. Moxey ADTs use proven, specifically designed engine and transmission components tested not only by our suppliers, but by Moxey itself.

Standard/Optional Equipment

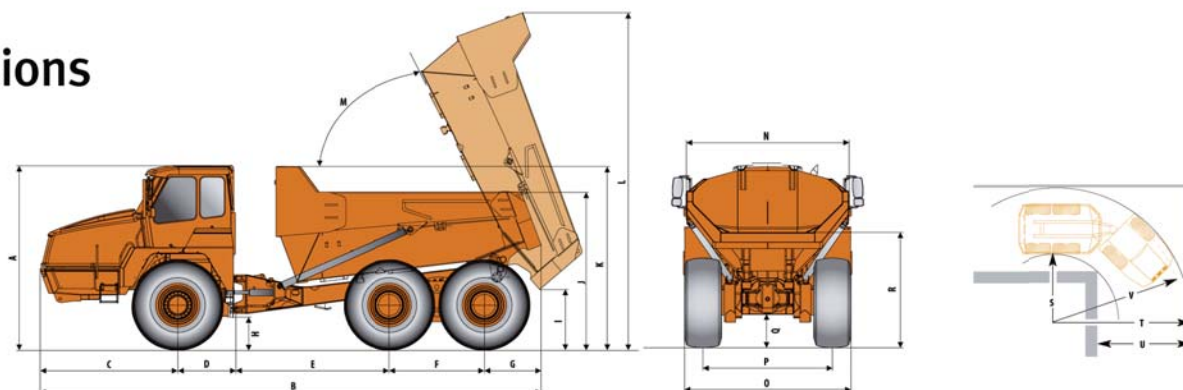
- Standard Equipment
- Optional Equipment
- N/A

	MDT30	MDT40
ENGINE		
Emissions (EPA)	Tier 2 (T4 optional)	
Selective Catalyst Reduction (SCR)	•	•
Diesel Exhaust Fluid (DEF)	•	•
High Pressure Common Rail (HPCR)	•	•
Fuel Filter with Water Separator	•	•
Coolant Recovery Tank	•	•
Dual Element dry-type air filter with Evacuator	•	•
Electronic Engine Control	•	•
Cool Down Mode	•	•
HYDRAULIC		
Variable Displacement Axial Piston	•	•
Variable Speed Hydraulic Cooling Fan	•	•
Emergency steering pump (Ground-driven)	•	•
- Variable Displacement Radial Piston	•	•
ELECTRICAL		
Alternator - 24V, 100 AMP	•	•
2 x 12V Batteries 140Ah Reserve Capacity	•	•
Blade Type Fuse Panel	•	•
Work Lights (Front & Rear)	■	■
Work lights - LED (Front & Rear)	■	■
Rotating Beacon	■	■
Hour Meter	•	•
Rear View Camera	•	•
Laptop Service Port	•	•
Telematics	•	•
Diesel Powered Coolant Heater	■	■
Block Heater	■	■
Emergency Shutdown Switch	•	•
CABIN		
Steel, All-Weather & Sound Suppressed	•	•
ROPS (ISO 3471)	•	•
FOPS (ISO 3449)	•	•
Front Window with Wiper/Washer	•	•
Tinted Safety Glass	•	•
Retractable roller sunblind	•	•
Adjustable Sliding Side Door Window	•	•
Defrost	•	•
Lockable Doors	•	•
Seat		
- Air Suspension	•	•
- 2" (51 mm) Seat Belt	•	•
- Adjustable Height	•	•
- Adjustable Recline	•	•
- Adjustable Fore/Aft	•	•
- Adjustable Arm Rests	•	•
Seat - Heated	■	■
Instructors Seat, folding	•	•
Storage for Operator's Manuals	•	•
Mirrors		
- Interior Rear View	•	•
- Exterior	•	•
Mirror, Heated Exterior	■	■
Fully Adjustable HVAC	•	•
Multi-Function LCD Display	•	•
Cigarette lighter	•	•
AM/FM Stereo with CD Player & MP3 port	•	•
Speakers (2)	•	•
Antenna	•	•
Space for cooler box	•	•
Storage	•	•
Power Socket, 12V	•	•
Beverage Holder	•	•
Interior Light	•	•
Guard, Rear Window	•	•
Cab tilting system	•	•
CONTROLS		
Adjustable steering column	•	•
- Tilting	•	•
- Telescoping	•	•
- RPM	•	•
- Speedometer	•	•
- Engine Coolant Temperature	•	•
- Transmission Oil Temperature	•	•
FRAME & SUSPENSION		
Articulation hinge	•	•
Steering Cylinder, Double-acting (2)	•	•
- Cushion, Retracting	•	•
Turning ring, Forward-mounted	•	•
Towing hook, front and rear	•	•
Sloping Rear Frame	•	•
Semi-independent rubber spring & shock absorbers (Front)	•	•
Semi-independent gas-hydraulic (Front)	•	•
Tires - Radial, 23.5 R25	•	•
Tires - Radial, 29.5 R25	•	•

	MDT30	MDT40
DISPLAY MONITOR & WARNINGS		
- Fuel Level	•	•
Body Control Lever	•	•
Gear Selector Joystick	•	•
Throttle pedal (accelerator)	•	•
Brake Pedal	•	•
Gauges		
- RPM	•	•
- Speedometer	•	•
- Engine Coolant Temperature	•	•
- Transmission Oil Temperature	•	•
- Retarder Oil Temperature	•	•
- Fuel Level	•	•
- DEF Level	•	•
- Transmission Gear Indicator	•	•
- Hour Meter	•	•
- Fuel Consumption	•	•
- Trip Meter	•	•
Warning & Indicator Lights		
- Engine Coolant Level & Temp	•	•
- Engine Oil Pressure	•	•
- Air Filter	•	•
- Transmission Oil Temp	•	•
- Retarder Oil Temp	•	•
- Fuel Level	•	•
- DEF Level	•	•
- Transmission Lock-Up	•	•
- Transmission Mode	•	•
- Retarder Brake	•	•
- Engine Brake	•	•
- Emergency Steering	•	•
- Lubrication System	•	•
- Battery Charge	•	•
- Error Code	•	•
- Seat Belt	•	•
- Body Down	•	•
- Direction Signal	•	•
- Lights (High, Main, Work, Beacon)	•	•
DRIVELINE		
Transmission	•	•
- Automatic	•	•
- Electronic Shift Control	•	•
- Torque Converter Lock-up Clutch	•	•
Full-time 6x6 Drive	•	•
Tandem Rear Bogey	•	•
- Gear Driven	•	•
- Free-swinging	•	•
Driveline Interaxle Differential	•	•
- 1/3 Front, 2/3 Rear	•	•
- Torque Divider, 100% Locking Ratio	•	•
Front axle transverse differential	•	•
- Limited-slip, 45% locking ratio	•	•
Rear axle transverse differential (1)	•	•
- Limited-slip, 45% locking ratio	•	•
Rear axle transverse differential (1)	•	•
- Clutch-engaged, torque dependent locking ratio	•	•
BODY		
Body, High tensile HB400 steel	•	•
Body (none)	■	■
Lifting Cylinder, Double-acting (2)	•	•
- Cushion, Extending	•	•
Tailgate, Scissor Type	•	•
Tailgate (none)	■	■
Spill guard on front of body	•	•
Body heating kit	■	■
Body Heating Ready	•	•
Body lining standard	■	■
Body lining full	■	■
Side extensions	■	■
Payload meter	•	•
BRAKES		
Dual circuit braking system	•	•
Hydraulic, wet multiple discs (each wheel)	•	•
Spring applied hydraulic release parking brake (driveshaft mounted)	•	•
Automatic engine brake	•	•
Automatic hydrodynamic transmission retarder	•	•
OTHER		
Automatic lubrication system	•	•
Handrails	•	•
Skid-Resistant Steps	•	•
Body Lift Support	•	•
Fire extinguisher	■	■
First aid kit	■	■
Manuals	•	•
- Operation & Maintenance	•	•
- Parts	•	•
- AEM Safety Manual	•	•
Telematics, 1 Year Subscription	•	•
Vandalism Protection	•	•
- Lockable Panels	•	•
- Lockable Fluid Fill points	•	•
48 Hour Parts Guarantee	•	•
Speed limitation	■	■
Tool kit	■	■
Warning triangle	■	■
Fast fill	■	■
Mud Flaps	■	■

SPECIFICATIONS

Dimensions



		UNIT	MDT30	MDT40
HEIGHT, CABIN	A	in. (mm)	11' 8" (3560)	12' 8" (3850)
LENGTH, OVERALL	B	in. (mm)	31' 4" (9558)	34' 9" (10590)
OVERHANG, FRONT	C	in. (mm)	8' 7" (2650)	9' 1" (2775)
ARTICULATION JOINT - FRONT AXLE	D	in. (mm)	3' 11" (1195)	4' 2" (1275)
ARTICULATION JOINT - REAR AXLE	E	in. (mm)	9' 7" (2916)	10' 5" (3170)
WHEELBASE, REAR TANDEM	F	in. (mm)	5' 10" (1768)	6' 5" (1960)
OVERHANG, REAR	G	in. (mm)	3' 5" (1029)	4' 8" (1410)
GROUND CLEARANCE, FRONT	H	in. (mm)	1' 11" (576)	2' 2" (652)
BODY DUMP CLEARANCE	I	in. (mm)	2' 0" (610)	2' 6" (763)
BODY LOADING CLEARANCE	J	in. (mm)	9' 8" (2946)	11' 0" (3355)
BODY HEIGHT (LOWERED)	K	in. (mm)	11' 3" (3436)	12' 1" (3685)
BODY HEIGHT (RAISED)	L	in. (mm)	19' 4" (5885)	21' 11" (6680)
BODY DUMP ANGLE	M	°	70	70
BODY WIDTH	N	in. (mm)	9' 5" (2875)	11' 2" (3395)
TIRE WIDTH	O	in. (mm)	9' 10" (2990)	11' 5" (3475)
TREAD WIDTH	P	in. (mm)	7' 9" (2370)	8' 10" (2690)
GROUND CLEARANCE, REAR	Q	in. (mm)	1' 11" (576)	2' 4" (706)
BODY FLOOR HEIGHT	R	in. (mm)	6' 11" (2100)	7' 10" (2390)
TURNING RADIUS, INSIDE	S	in. (mm)	12' 9" (3890)	13' 6" (4120)
TURNING CLEARANCE, OUTSIDE	T	in. (mm)	26' 4" (8030)	29' 1" (8850)
ROAD WIDTH, MINIMUM (90° TURN)	U	in. (mm)	17' 4" (5280)	19' 6" (5930)
TURNING RADIUS, OUTSIDE*	V	in. (mm)	25' 2" (7680)	27' 8" (8420)
			*Turning radius according to ISO 7457	

Weight

		UNIT	MDT30	MDT40
WEIGHTS				
GROSS WEIGHT		lb. (kg)	113,318 (51,400)	158,292 (71,800)
NET WEIGHT		lb. (kg)	51,588 (23,400)	70,107 (31,800)
PAY LOAD		lb. (kg)	61,729 (28,000)	88,185 (40,000)
EMPTY	FRONT AXLE	lb. (kg)	26,235 (11,900)	31,967 (14,500)
	REAR AXLE	lb. (kg)	25,353 (11,500)	38,140 (17,300)
LOADED	FRONT AXLE	lb. (kg)	36,597 (16,600)	49,070 (22,258)
	REAR AXLE	lb. (kg)	76,721 (34,800)	109,221 (49,542)
WEIGHT DISTRIBUTION, EMPTY	FRONT/REAR	%	51 / 49	48 / 52
WEIGHT DISTRIBUTION, LOADED	FRONT/REAR	%	31 / 69	31 / 69
NOTE: All weights include a full tank and operator				
GROUND PRESSURES				
EMPTY	FRONT AXLE	psi (bar)	15.0 (1.0)	12.8 (0.88)
	REAR AXLE	psi (bar)	7.7 (0.53)	7.0 (0.48)
LOADED	FRONT AXLE	psi (bar)	20.5 (1.41)	18.9 (1.3)
	REAR AXLE	psi (bar)	23.5 (1.62)	22.0 (1.52)
Measured with standard tires with 15% sinkage				
POWER (NET) TO WEIGHT RATIO				
EMPTY		hp/t (kW/t)	16.7 (11.45)	13.98 (11.32)
LOADED		hp/t (kW/t)	6.44 (5.2)	6.19 (5.01)

General

		UNIT	MDT30	MDT40
ENGINE				
MODEL			Scania DC9	Scania DC13
NUMBER OF CYLINDERS		INLINE	5	6
POWER RATING GROSS (HP per ISO 3046)		hp (kW) @ rpm	375 (276) @ 2100	500 (368) @ 2100
POWER RATING NET (HP per ISO 9249)		hp (kW) @ rpm	365 (268) @ 2100	490 (360) @ 2100
MAXIMUM TORQUE GROSS		ft.-lb. (Nm) @ rpm	1381 (1873) @ 1,300	1750 (2373) @ 1,300
PISTON DISPLACEMENT		in. ³ (L)	568 (9.3)	775 (12.7)
BORE AND STROKE		in. x in. (mm x mm)	5.0 x 5.5 (127 x 140)	5.1 x 6.3 (130 x 160)
STARTER		V, hp (Kw)	24, 7.5 (5.5)	24, 7.5 (5.5)
BATTERY		V, AH	2 x 12, 140	2 x 12, 225
ALTERNATOR		V, amp	24V, 100	24V, 100
AIR CLEANER			Double Element, Dry	Double Element, Dry
HYDRAULICS				
MAIN PUMP		gpm (L/min)	80.6 (305)	80.6 (305)
RELIEF PRESSURE (MAIN)		psi (bar)	4061 (280)	4061 (280)
EMERGENCY STEER PUMP		gpm (L/min)	13.2 (50)	13.2 (50)
RELIEF PRESSURE (EMER. STEER)		psi (bar)	3046 (210)	3046 (210)
ENVIRONMENT				
SOUND LEVEL (per ISO 6395)		dB(A)	108	107
CABIN SOUND LEVEL (per ISO 6394)		dB(A)	72	71
TRANSMISSION SPEEDS				
TRAVEL SPEED - FORWARD (8)		mph (km/h)	3.1 / 5.0 / 6.8 / 9.3 / 13.7 / 18.6 / 26.1 / 34.2 (5 / 8 / 11 / 15 / 22 / 30 / 42 / 55)	3.1 / 5.0 / 6.8 / 9.3 / 13.7 / 18.6 / 26.1 / 34.2 (5 / 8 / 11 / 15 / 22 / 30 / 42 / 55)
TRAVEL SPEED - REVERSE (4)		mph (km/h)	3.1 / 5.0 / 6.8 / 9.9 (5 / 8 / 11 / 16)	3.1 / 5.0 / 5.8 / 9.9 (5 / 8 / 11 / 16)
REFILL CAPACITIES				
FUEL TANK		gal. (L)	88.5 (335)	140 (530)
DIESEL EXHAUST FLUID TANK		gal. (L)	10 (38)	10 (38)
COOLING SYSTEM (RADIATOR)		gal. (L)	11.9 (45)	13.2 (50)
ENGINE OIL		gal. (L)	8.7 (33)	11.6 (44)
TRANSMISSION		gal. (L)	19.8 (75)	19.8 (75)
FRONT DIFFERENTIAL		gal. (L)	3.5 (13.2)	3.5 (13.2)
REAR DIFFERENTIAL		gal. (L)	4.2 (16)	12.2 (46)
FRONT HUB (2)		gal. (L)	2.9 (11)	2.0 (7.5)
TANDEM HOUSING		gal. (L)	12.7 (48)	37.0 (140)
HYDRAULIC TANK		gal. (L)	32.5 (123)	55.2 (209)
BODY				
BODY VOLUME (2:1)		yd ³ (m ³)	23.3 (17.8)	34 (26)
TIPPING TIME		seconds	Up: 10 / Down: 9	Up: 10 / Down: 10
LEVEL CAPACITY	WITH TAILGATE	yd ³ (m ³)	18.6 (14.2)	26.7 (20.4)
	WITHOUT TAILGATE	yd ³ (m ³)	17.8 (13.6)	25.6 (19.6)
HEAPED CAPACITY	WITH TAILGATE	yd ³ (m ³)	23.3 (17.8)	34 (26)
	WITHOUT TAILGATE	yd ³ (m ³)	22 (16.8)	31.9 (24.4)
DENSITY INDEX		lb./yd ³ (kg/m ³)	2468 (1119)	2468 (1119)

Cylinders

		UNIT	MDT30	MDT40
HYDRAULIC CYLINDERS				
BODY TILT CYLINDERS (2)	BORE	in. (mm)	4.5 (115)	4.9 (125)
	STROKE	in. (mm)	90.2 (2290)	102.9 (2614)
STEERING (2)	BORE	in. (mm)	3.9 (100)	4.5 (115)
	STROKE	in. (mm)	20.3 (515)	21.7 (550)



MIMICO provides nationwide sales and product support for Moxy Articulated Dump Trucks, along with extensive parts availability.

Full circle for MIMICO clients Having the Moxy brand under MIMICO's umbrella completes the company's offering. MIMICO now offers Moxy ADTs alongside the existing range of equipment. Along with extensive parts availability and nationwide service support, it means you can gain the ease and assurance of dealing with one company for all your equipment, parts and service requirements. That will help improve your productivity and profits.



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