

Mecalac

MDX
SERIES



MDX
SERIES
Mecalac



MDX

TECHNICAL DATA

E.S. MDX

Mec

Mecalac

6MDX

TECHNICAL DATA

	6MDX - FRONT TIP SKIP SynchroShuttle - Cab	6MDX - SWIVEL TIP SKIP SynchroShuttle - Cab	6MDX - FRONT TIP SKIP Hydrostatic - ROPS bar / Cab	6MDX - SWIVEL TIP SKIP Hydrostatic - ROPS bar / Cab
SKIP CAPACITY				
Payload	6000 kg (13,228 lbs)	6000 kg (13,228 lbs)	6000 kg (13,228 lbs)	6000 kg (13,228 lbs)
Skip type	Front tip skip	Swivel tip skip	Front tip skip	Swivel tip skip
Skip volume - Water	1598 l	1580 l	1598 l	1580 l
Skip volume - Struck	2359 l	2399 l	2359 l	2399 l
Skip volume - Heaped	2927 l	3085 l	2927 l	3085 l
MACHINE WEIGHT				
Operating weight ISO6016 – full tank of fuel and 75kg (165 lbs) operator				
- Cab	4760 kg (10494 lbs)	4960 kg (10935 lbs)	4720 kg (10406 lbs)	4900 kg (10803 lbs)
- ROPS bar	-	-	4460 kg (9833 lbs)	4640 kg (10229 lbs)
ENGINE				
Manufacturer/Model	Perkins - 904J-E28TA			
Emission regulation	EU Stage V / U.S. EPA Tier 4 Final*			
Type	Water-cooled 4-cylinder diesel			
Displacement	2800 cm³ (171 in³)			
Gross power (DIN 70020)	55 kW (74hp)			
Maximum torque	380 Nm (280 ft.lbf) at 1380 rpm			
Maximum engine speed	2400 rpm			
Aspiration	Turbocharged			
Fuel system	Electronic high pressure common rail			
Aftertreatment	Diesel Oxidation Catalyst (DOC) + Diesel Particulate Filter (DPF)			
TRANSMISSION				
Type	SynchroShuttle		Hydrostatic	
Traction	Gearbox via transfer box to front & rear axles		Hydrostatic Motor via Transfer Box to Front & Rear Axles	
Drive	Permanent 4 wheel-drive		Permanent 4 wheel-drive	
Flow rate	4/4 Forward and Reverse		1/1 Forward and Reverse	
Working pressure	-		234 l/min (61.8 US gpm)	
	-		Nominal 400 bar (5802 psi) - Maximum 530 bar (7687 psi)	
DRIVE CHARACTERISTICS				
Maximum turning radius	6483 mm (21'3")	6382 mm (20'11")	6483 mm (21'3")	6382 mm (20'11")
Maximum speed	24 km/h (15 mph)		25 km/h (15.5 mph)	
Chassis	Articulated and oscillating			
Steering angle	+/-30°			
Oscillation angle	+/-10.5°			
Gradeability (defined by maximum safe working angle)	25%			
Tyre Size	405-70-20 (14 PR)			
HYDRAULIC SYSTEM				
Pump type	Gear pump			
Flow rate	74 l/min (19.5 US gpm)			
Operating pressure	210 bar (3045 psi)			
Steering system	Orbitrol hydrostatic steering unit powering a central hydraulic steering cylinder			
BRAKING SYSTEM				
Working brake	Hydraulic boosted foot Brake - Oil immersed discs on front/rear			
Parking brake	Over centre parking brake - Dry disc on gearbox output		Over centre parking brake-integrated in rear axle	
EMISSIONS				
Noise emission (ISO 4871) – Operators ear sound pressure (LpAd)	85 dB			
Noise emission (ISO 4871) – Machine Noise Power (LWAAd)	101 dB			
Noise compliance	Noise - Equipment used outdoors directive 2000/14/EC			
Hand arm vibration (defined by EN474-1 for all operations)	<2.5 m/s²			
Whole body vibration (defined by ISO/TR25398 for a work cycle)	0.529 (0.264 m/s² uncertainty)			
TANK CAPACITIES				
Fuel tank	65 l (17.17 US gal)			
Hydraulic tank	50 l (13.2 US gal)			

*According to National regulation - Environmental Protection Agency (EPA). Specifications are subject to change.

NOTE: METRIC MEASUREMENTS ARE THE CRITICAL VALUES • 1 Litre = 0.26417 US Liquid Gallons • 1 Litre = 0.21997 Imperial Liquid Gallons

9MDX

TECHNICAL DATA

	9MDX - FRONT TIP SKIP SynchroShuttle - Cab	9MDX - SWIVEL TIP SKIP SynchroShuttle - Cab	9MDX - FRONT TIP SKIP Hydrostatic - ROPS bar / Cab	9MDX - SWIVEL TIP SKIP Hydrostatic - ROPS bar / Cab
SKIP CAPACITY				
Payload	9000 kg (19,842 lbs)	9000 kg (19,842 lbs)	9000 kg (19,842 lbs)	9000 kg (19,842 lbs)
Skip type	Front tip skip	Swivel tip skip	Front tip skip	Swivel tip skip
Skip volume - Water	2014 l	1902 l	2014 l	1902 l
Skip volume - Struck	3775 l	3318 l	3775 l	3318 l
Skip volume - Heaped	4466 l	4096 l	4466 l	4096 l
MACHINE WEIGHT				
Operating weight ISO6016 – full tank of fuel and 75kg (165 lbs) operator				
- Cab	5375 kg (11850 lbs)	5795 kg (12776 lbs)	5315 kg (11718 lbs)	5715 kg (12600 lbs)
- ROPS bar	-	-	5055 kg (11144 lbs)	5455 kg (12026 lbs)
ENGINE				
Manufacturer/Model	Perkins - 904J-E28TA			
Emission regulation	EU Stage V / U.S. EPA Tier 4 Final*			
Type	Water-cooled 4-cylinder diesel			
Displacement	2800 cm³ (171 in³)			
Gross power (DIN 70020)	55 kW (74 hp)			
Maximum torque	380 Nm (280 ft.lbf) at 1380 rpm			
Maximum engine speed	2400 rpm			
Aspiration	Turbocharged			
Fuel system	Electronic high pressure common rail			
Aftertreatment	Diesel Oxidation Catalyst (DOC) + Diesel Particulate Filter (DPF)			
TRANSMISSION				
Type	SynchroShuttle		Hydrostatic	
	Gearbox via transfer box to front & rear axles		Hydrostatic Motor via Transfer Box to Front & Rear Axles	
Traction	Permanent 4 wheel-drive		Permanent 4 wheel-drive	
Drive	4/4 Forward and Reverse		1/1 Forward and Reverse	
Flow rate	-		234 l/min (61.8 US gpm)	
Working pressure	-		Nominal 400 bar (5802 psi) - Maximum 530 bar (7687 psi)	
DRIVE CHARACTERISTICS				
Maximum turning radius	6557 mm (21'6")	6464 mm (21'2")	6557 mm (21'6")	6464 mm (21'2")
Maximum speed	24 km/h (15 mph)		25 km/h (15.5 mph)	
Chassis	Articulated and oscillating			
Steering angle	+/-30°			
Oscillation angle	+/-10.5°			
Gradeability (defined by maximum safe working angle)	20%			
Tyre Size	500-60-22.5 (16 PR)			
HYDRAULIC SYSTEM				
Pump type	Gear pump			
Flow rate	74 l/min (19.5 US gpm)			
Operating pressure	210 bar (3045 psi)			
Steering system	Orbitrol hydrostatic steering unit powering a central hydraulic steering cylinder			
BRAKING SYSTEM				
Working brake	Hydraulic boosted foot Brake - Oil immersed discs on front/rear			
Parking brake	Over centre parking brake - Dry disc on gearbox output		Over centre parking brake-integrated in rear axle	
EMISSIONS				
Noise emission (ISO 4871) – Operators ear sound pressure (LpAd)	85 dB			
Noise emission (ISO 4871) – Machine Noise Power (LWAd)	101 dB			
Noise compliance	Noise - Equipment used outdoors directive 2000/14/EC			
Hand arm vibration (defined by EN474-1 for all operations)	<2.5 m/s²			
Whole body vibration (defined by ISO/TR25398 for a work cycle)	0.529 (0.264 m/s² uncertainty)			
TANK CAPACITIES				
Fuel tank	65 l (17.17 US gal)			
Hydraulic tank	50 l (13.2 US gal)			

*According to National regulation - Environmental Protection Agency (EPA). Specifications are subject to change.

NOTE: METRIC MEASUREMENTS ARE THE CRITICAL VALUES • 1 Litre = 0.26417 US Liquid Gallons • 1 Litre = 0.21997 Imperial Liquid Gallons

3.5·6·9·MDX DIMENSIONS

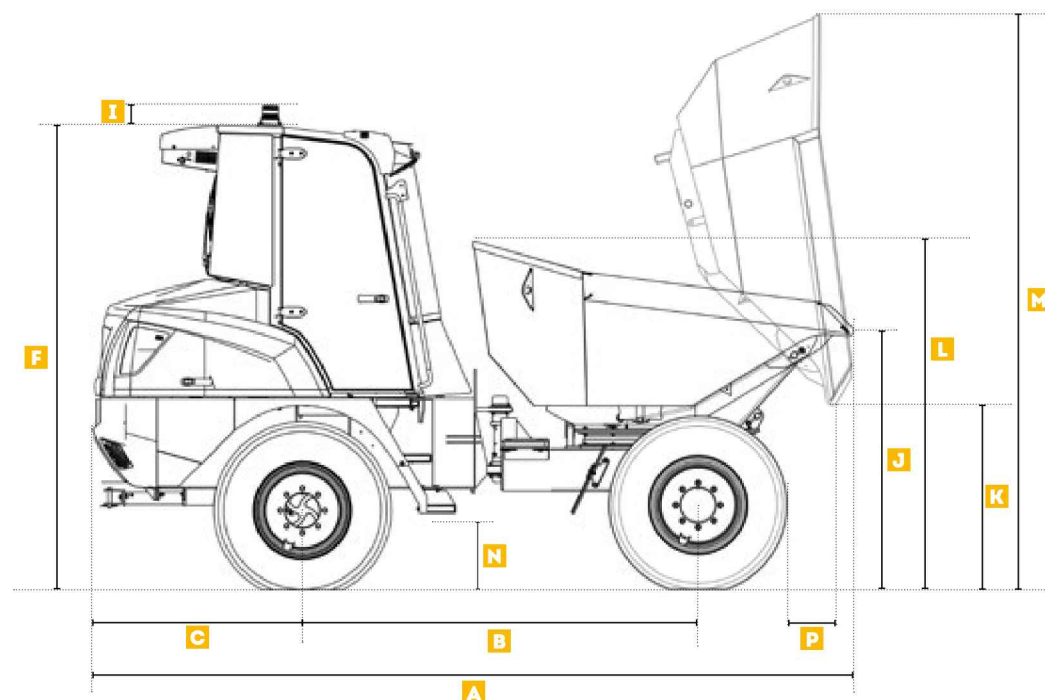


Illustration not contractual

MACHINE DIMENSIONS	3.5MDX		6MDX		9MDX	
	FRONT TIP mm (ft in)	SWIVEL TIP mm (ft in)	FRONT TIP mm (ft in)	SWIVEL TIP mm (ft in)	FRONT TIP mm (ft in)	SWIVEL TIP mm (ft in)
A Overall length	3821 (12'6")	4012 (13'2")	4454 (14'7")	4711 (15'5")	4587 (15'1")	4735 (15'6")
B Wheelbase	1939 (6'4")	1939 (6'4")	2450 (8')	2450 (8')	2450 (8')	2450 (8')
C Rear overhang	1124 (3'8")	1124 (3'8")	1287 (4'3")	1287 (4'3")	1293 (4'3")	1293 (4'3")
D Total width	1957 (6'5")	1846 (6'1")	2300 (7'7")	2211 (7'3")	2389 (7'10")	2364 (7'9")
E Skip width	1957 (6'5")	1685 (5'6")	2300 (7'7")	2211 (7'3")	2389 (7'10")	2341 (7'8")
F Overall height of cab	2663 (8'9")	2663 (8'9")	2875 (9'5")	2875 (9'5")	3384 (11'1")	3384 (11'1")
G Overall height of ROPS - unfolded	-	-	2906 (9'6")	2906 (9'6")	3389 (11'1")	3389 (11'1")
H Overall height of ROPS - folded	-	-	2285 (7'6")	2285 (7'6")	2798 (9'2")	2798 (9'2")
I Additional height for beacon	130 (5")	130 (5")	130 (5")	130 (5")	130 (5")	130 (5")
J Height to lip of skip - untipped	1419 (4'8")	1469 (4'10")	1581 (5'2")	1685 (5'6")	1682 (5'6")	1827 (5'12")

3.5.6.9.MDX

DIMENSIONS

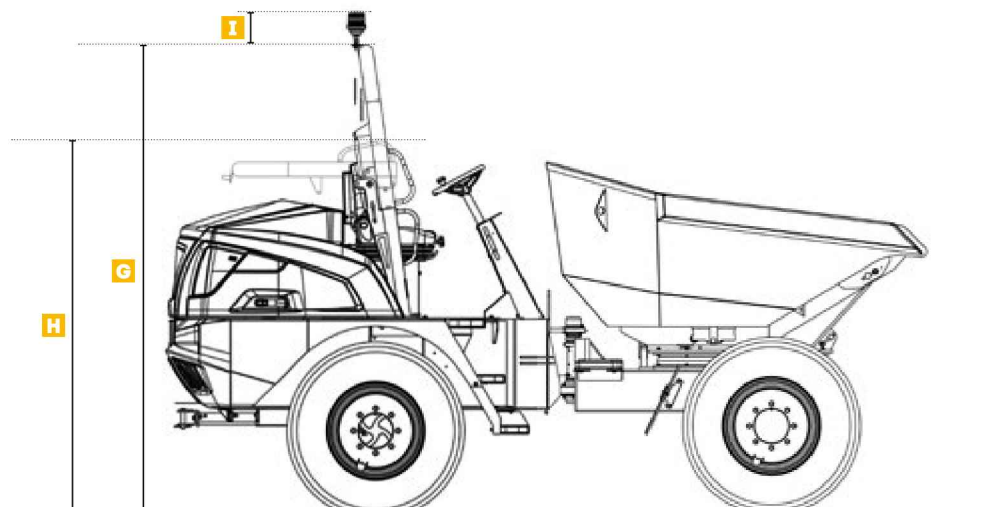
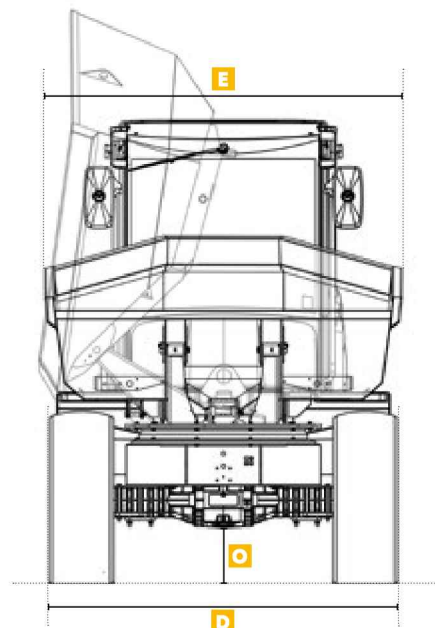


Illustration not contractual

MACHINE DIMENSIONS	3.5MDX		6MDX		9MDX	
	FRONT TIP mm (ft in)	SWIVEL TIP mm (ft in)	FRONT TIP mm (ft in)	SWIVEL TIP mm (ft in)	FRONT TIP mm (ft in)	SWIVEL TIP mm (ft in)
K Height to lip of skip - tipped	248 (10")	841 (2'9")	430 (1'5")	1126 (3'8")	462 (1'6")	1171 (3'10")
L Height of skip - untipped	1820 (5'12")	1805 (5'11")	1998 (6'7")	2167 (7'1")	2292 (7'6")	2483 (8'2")
M Height of skip - tipped	1973 (6'6")	2904 (9'6")	2379 (7'10")	3545 (11'8")	2746 (9')	3782 (12'5")
N Height to first step	518 (1'8")	518 (1'8")	472 (1'7")	472 (1'7")	509 (1'8")	509 (1'8")
O Minimum ground clearance	217 (8")	217 (8")	347 (1'2")	347 (1'2")	396 (1'4")	396 (1'4")
P Discharge distance - front	550 (1'10")	526 (1'9")	513 (1'8")	354 (1'2")	583 (1'11")	408 (1'4")
Discharge distance - side	-	209 (8")	-	16 (0'6")	-	12 (0'5")

STANDARD / OPTIONAL EQUIPEMENT

	3.5MDX Front / Swivel tip skip Hydrostatic transmission	6MDX		9MDX	
		Front / Swivel tip skip SynchroShuttle transmission	Front / Swivel tip skip Hydrostatic transmission	Front / Swivel tip skip SynchroShuttle transmission	Front / Swivel tip skip Hydrostatic transmission
OPERATOR ENVIRONMENT					
ROPS foldable roll bar			•		•
Cab ROPS/FOPS fully enclosed and comfortable	•	•	o	•	o
Cab heating and ventilation system	•	•	• (Cab only)	•	• (Cab only)
Cab Air-conditioning system	o	o	o (Cab only)	o	o (Cab only)
Wide leg guard protection			o (Rops only)		o (Rops only)
Multifunctional display screen integrated into the dashboard	•	•	•	•	•
Adjustable ergonomic seat	•	•	•	•	•
High visibility orange seatbelt	•	•	•	•	•
SAFETY					
High visibility safety decals steps and handrails	•	•	•	•	•
Front-view camera with screen integrated into the dashboard		•	•	•	•
Rear-view camera with screen integrated into the dashboard		o	o	o	o
Rear-view mirrors	•	•	• (Cab only) o (Rops only)	•	• (Cab only) o (Rops only)
Cab front screen guard	o	o	o (Cab only)	o	o (Cab only)
Reverse Alarm	•	•	•	•	•
Fan Guard	•	•	•	•	•
Hazard / Object detection system	o	o	o	o	o
Hazard / Object detection system (system ready)	o	o	o	o	o
CESAR Datatag security kit (UK only)	o	o	o	o	o
SHIELD SAFETY TECHNOLOGIES					
SHIELD Safety Technology Pack Safety start interlock system, Parking brake reminder, Machine start signal, Seat belt reminder, Engine hood open warning, Automatic engine idle shutdown, Auto Start/Stop driver presence, Mass fuel loss warning, Service required warning, Regulatory speed limiter, Parking brake test	•	•	•	•	•
SHIELD PRO Safety Technology Pack Machine tilt monitoring, Tipped skip speed limiter and skip interlock, Roll- over lockout, Hazard detection system ready, Customization of shield features on the machine (Bluetooth adapter and dedicated free app), Possibility to switch on/off features, Possibility to adjust speed limits, timers, and angles	o	o	o	o	o

Country packs available

• = Standard

o = Optional

Standard and optional equipment may vary. Consult your Mecalac dealer for details.

STANDARD / OPTIONAL EQUIPEMENT

	3.5MDX Front / Swivel tip skip Hydrostatic transmission	6MDX Front / Swivel tip skip SynchroShuttle transmission	Front / Swivel tip skip Hydrostatic transmission	9MDX Front / Swivel tip skip SynchroShuttle transmission	Front / Swivel tip skip Hydrostatic transmission
LIGHTING					
LED Amber flashing beacon	•	•	•	•	•
Green Beacon seatbelt indicator	•	•	•	•	•
LED Front and rear work lights	•	•	• (Cab only)	•	• (Cab only)
Certified Road Lights Front and Rear - including Light Guards	o	o	o	o	o
Road Lights ready (Inc. Wiring and brake sensor)	o	o	o	o	o
COLOUR & BRANDING					
Standard machine colour - Mecalac Yellow & Grey	•	•	•	•	•
Custom machine colour	o	o	o	o	o
Mecalac Standard Branding	•	•	•	•	•
Mecalac Rental Branding - clear skip sides	•	•	•	•	•
TELEMATICS					
MyMecalac Telematics - including app	o	o	o	o	o
OTHERS					
Articulated and oscillating chassis	•	•	•	•	•
Traction tyres	•	•	•	•	•
Towing/Recovery Bracket	•	•	•	•	•
Heavy-duty articulation lock	•	•	•	•	•
Loose Wheel Nut Indicator	o	o	o	o	o
Spare Wheel	o	o	o	o	o
Biodegradable Hydraulic Oil	o	o	o	o	o
German / Swiss Road Homologation kit	o	o	o	o	o
UK Vehicle Registration & Road Fund Licence 12 Months (UK only)	•	•	•	•	•

Country packs available

• = Standard

o = Optional

Standard and optional equipment may vary. Consult your Mecalac dealer for details.