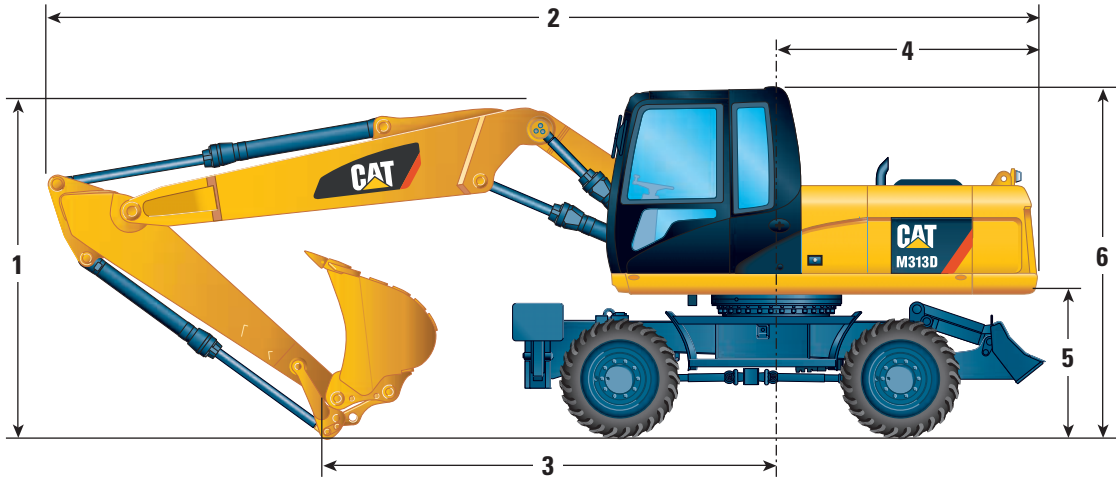


M313D Wheel Excavator

Dimensions

All dimensions are approximate.

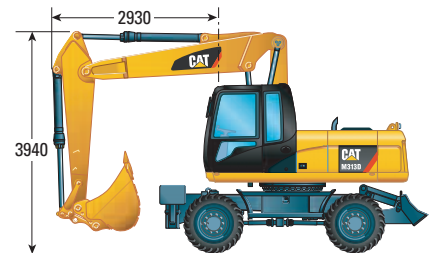
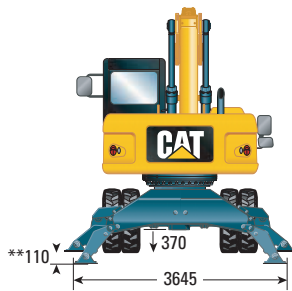
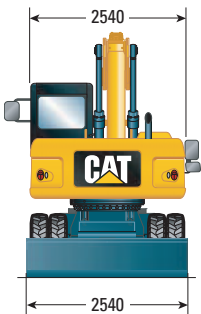


		VA Boom				One-Piece Boom				Offset Boom	
Stick Length	mm	2000	2300	2600	*2900	2000	2300	2600	*2900	2000	2300
1 Shipping Height	mm	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120
2 Shipping Length	mm	8310	8300	8290	8130	8090	8080	8090	7950	8300	8300
3 Support Point	mm	3820	3470	3320	3580	3480	3120	2950	3170	3820	3460
4 Tail Swing Radius	mm	2060				2060				2060	
5 Counterweight Clearance	mm	1230				1230				1230	
6 Cab Height	mm	3120				3120				3120	

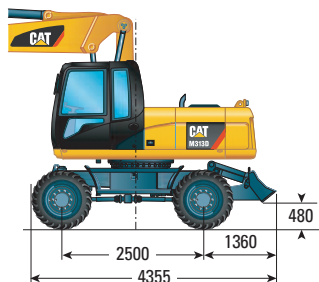
* Industrial stick

** Maximum tire clearance
with outrigger fully down

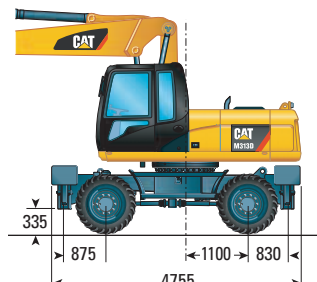
Roading position with 2300 mm stick



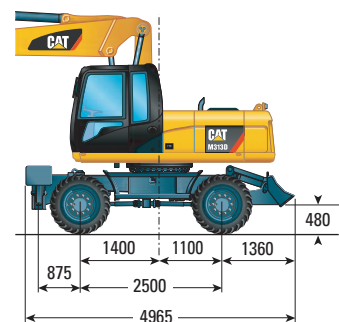
Undercarriage with dozer only



Undercarriage with 2 sets
of outriggers

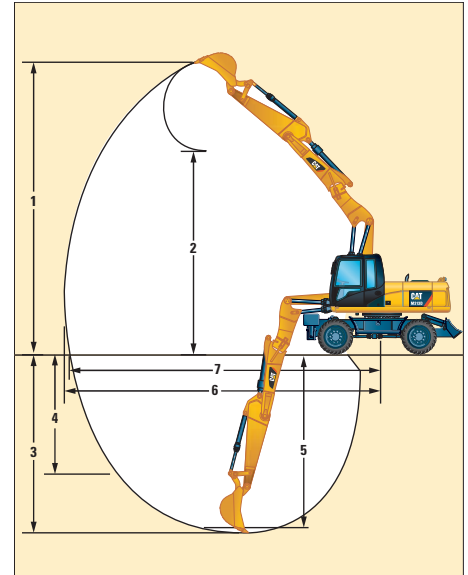
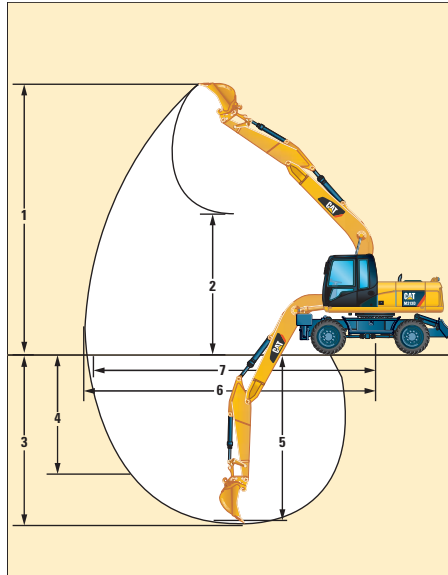
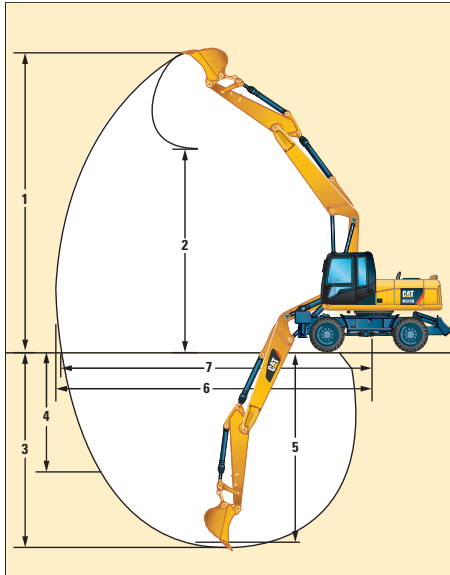


Undercarriage with 1 set
of outriggers and dozer



M313D Wheel Excavator

Working Ranges



		VA Boom				One-Piece Boom				Offset Boom	
Stick Length	mm	2000	2300	2600	*2900	2000	2300	2600	*2900	2000	2300
1 Digging Height	mm	9670	9820	10 060	8500	8600	8620	8790	7140	9670	9820
2 Dump Height	mm	6900	7060	7290	4020	5910	5970	6140	3160	6900	7060
3 Digging Depth	mm	5160	5450	5750	4670	4990	5290	5590	4500	5160	5450
4 Vertical Wall Digging Depth	mm	3500	3600	3890	—	3410	3370	3670	—	3500	3600
5 Depth 2.5 m Straight Clean-Up	mm	4920	5230	5550	—	4750	5070	5390	—	4920	5230
6 Reach	mm	8670	8920	9210	7910	8420	8660	8950	7610	8670	8920
7 Reach at Ground Level	mm	8490	8740	9030	7710	8230	8480	8770	7400	8490	8740
Bucket Forces (ISO 6015)	kN	93	93	93	—	93	93	93	—	93	93
Stick Forces (ISO 6015)	kN	73	67	62	—	73	67	62	—	73	67

* Industrial stick has no bucket linkage. All dimensions refer to sticknose.

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1400 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1236 mm.

M313D Wheel Excavator

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

Pin-On Buckets					Variable Adjustable Boom 5020 mm												One-Piece Boom 4815 mm											
Stick Length					2000 mm				2300 mm				2600 mm				2000 mm				2300 mm				2600 mm			
	Width	Weight*	Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized
	mm	kg	m³																									
Excavation	450	312	0.18	3																								
	600	345	0.28	3																								
	750	362	0.38	4																								
	900	403	0.49	4																								
	1000	427	0.56	4																								
	1100	463	0.64	5																								
	1200	486	0.72	5																								
Extreme Excavation	1200	496	0.72	5																								
Excavation (leveling)	600	382	0.38	3																								
	750	407	0.50	3																								
	800	422	0.54	3																								
	900	443	0.64	4																								
	1000	484	0.73	4																								
	1100	519	0.82	4																								
	1200	546	0.92	5																								
Extreme Excavation (leveling)	1200	557	0.84	5																								
Ditch Cleaning	1800	465	0.73																									
	2000	495	0.83																									
Tiltable Ditch Cleaning	1800	690	0.61																									
	2000	720	0.68																									

* Bucket weight includes Ground Engaging Tools

Maximum material density 1800 kg/m³

Maximum material density 1500 kg/m³

Maximum material density 1200 kg/m³

Not recommended

M313D Wheel Excavator

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

CW Quick Coupler Buckets					Variable Adjustable Boom 5020 mm												One-Piece Boom 4815 mm											
Stick Length					2000 mm				2300 mm				2600 mm				2000 mm				2300 mm				2600 mm			
	Width	Weight*	Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized
	mm	kg	m³																									
Excavation	600	339	0.28	3																								
	750	352	0.38	3																								
	900	390	0.49	4																								
	1000	413	0.56	4																								
	1100	450	0.64	4																								
	1200	473	0.72	5																								
Extreme Excavation	1200	483	0.72	5																								
Excavation (leveling)	600	390	0.38	3																								
	750	435	0.50	4																								
	800	409	0.54	3																								
	900	443	0.64	4																								
	1000	470	0.73	4																								
	1100	505	0.82	4																								
	1200	533	0.92	5																								
Extreme Excavation (leveling)	600	396	0.38	3																								
	800	416	0.54	3																								
	1200	544	0.92	5																								
Ditch Cleaning	1800	430	0.73																									
	2000	460	0.83																									
Tiltable Ditch Cleaning	1800	650	0.61																									
	2000	680	0.68																									

* Bucket weight includes Ground Engaging Tools

Maximum material density 1800 kg/m³

Maximum material density 1500 kg/m³

Maximum material density 1200 kg/m³

Not recommended

M313D Wheel Excavator

Work Tools Matching Guide

When choosing between various work tool models that can be installed onto the same machine configuration, consider work tool application, productivity requirements, and durability. Refer to work tool specifications for application recommendations and productivity information.

[illegible]

 360° Working Range
 Over the front only

M313D Wheel Excavator

Lift Capacities – Variable Adjustable Boom (5020 mm)

All values are in kg, without bucket and without QC, with counterweight (3300 kg), heavy lift on.

 Load at maximum reach (sticknose/bucket pin)		 Load over front			 Load over rear			 Load over side			 Load point height			
	Undercarriage configuration	3.0 m			4.5 m			6.0 m						
													m	
6.0 m	Rear dozer up				*5000	3900	3550				*3550	2550	2300	5.82
	Rear dozer down					*5000	4100					*3550	2650	
	Dozer and stabilizer down					*5000	*5000					*3550	*3550	
	2 sets of stabilizers down				*5000	*5000	*5000				*3550	*3550	*3550	
4.5 m	Rear dozer up				*5450	3750	3400	3500	2400	2200	2900	2000	1800	6.71
	Rear dozer down					*5450	3950		*4500	2550		*3250	2100	
	Dozer and stabilizer down					*5450	*5450		*4500	3850		*3250	3200	
	2 sets of stabilizers down				*5450	*5450	*5450	*4500	*4500	4500	*3250	*3250	*3250	
3.0 m	Rear dozer up				5250	3500	3200	3400	2300	2100	2600	1750	1600	7.16
	Rear dozer down					*6250	3700		*4750	2450		*3200	1850	
	Dozer and stabilizer down					*6250	5850		*4750	3750		*3200	2850	
	2 sets of stabilizers down				*6250	*6250	*6250	*4750	*4750	4400	*3200	*3200	*3200	
1.5 m	Rear dozer up				5000	3300	2950	3300	2200	2000	2500	1700	1550	7.28
	Rear dozer down					*6750	3450		*4900	2350		*3300	1800	
	Dozer and stabilizer down					*6750	5600		*4900	3650		*3300	2750	
	2 sets of stabilizers down				*6750	*6750	6650	*4900	*4900	4250	*3300	*3300	3200	
0.0 m	Rear dozer up				4900	3200	2850	3250	2150	1950	2600	1750	1600	7.06
	Rear dozer down					*6500	3350		*4750	2250		*3600	1850	
	Dozer and stabilizer down					*6500	5450		*4750	3600		*3600	2850	
	2 sets of stabilizers down				*6500	*6500	6500	*4750	*4750	4200	*3600	*3600	3350	
-1.5 m	Rear dozer up	*6700	5950	5200	4900	3150	2850	3250	2150	1950	2950	1950	1800	6.48
	Rear dozer down		*6700	6250		*5550	3350		*4000	2250		*3300	2050	
	Dozer and stabilizer down		*6700	*6700		*5550	5450		*4000	3600		*3300	3250	
	2 sets of stabilizers down	*6700	*6700	*6700	*5550	*5550	*5550	*4000	*4000	*4000	*3300	*3300	*3300	

Medium Stick 2300 mm

	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						
																	m
6.0 m	Rear dozer up				*4600	3950	3600	*3500	2450	2250				*2900	2350	2150	6.13
	Rear dozer down					*4600	4150		*3500	2550					*2900	2450	
	Dozer and stabilizer down					*4600	*4600		*3500	*3500					*2900	*2900	
	2 sets of stabilizers down				*4600	*4600	*4600	*3500	*3500	*3500				*2900	*2900	*2900	
4.5 m	Rear dozer up				*5200	3800	3450	3550	2450	2200				*2750	1900	1700	6.98
	Rear dozer down					*5200	4000		*4350	2550					*2750	2000	
	Dozer and stabilizer down					*5200	*5200		*4350	3900					*2750	*2750	
	2 sets of stabilizers down				*5200	*5200	*5200	*4350	*4350	*4350				*2750	*2750	*2750	
3.0 m	Rear dozer up				5300	3550	3200	3400	2350	2100				2450	1650	1500	7.42
	Rear dozer down					*6050	3750		*4650	2450					*2700	1750	
	Dozer and stabilizer down					*6050	5900		*4650	3800					*2700	*2700	
	2 sets of stabilizers down				*6050	*6050	*6050	*4650	*4650	4400				*2700	*2700	*2700	
1.5 m	Rear dozer up				5000	3300	3000	3300	2200	2000	2400	1600	1450	2400	1600	1450	7.52
	Rear dozer down					*6700	3500		*4900	2350		*3050	1700		*2850	1700	
	Dozer and stabilizer down					*6700	5600		*4900	3650		*3050	2650		*2850	2650	
	2 sets of stabilizers down				*6700	*6700	6650	*4900	*4900	4300	*3050	*3050	*3050	*2850	*2850	*2850	
0.0 m	Rear dozer up				4900	3150	2850	3200	2150	1950				2450	1650	1500	7.32
	Rear dozer down					*6600	3350		*4800	2250					*3150	1750	
	Dozer and stabilizer down					*6600	5450		*4800	3600					*3150	2700	
	2 sets of stabilizers down				*6600	*6600	6500	*4800	*4800	4200				*3150	*3150	*3150	
-1.5 m	Rear dozer up	*6800	5850	5150	4850	3150	2850	3200	2100	1950				2750	1850	1650	6.76
	Rear dozer down		*6800	6200		*5800	3350		*4200	2250					*3300	1950	
	Dozer and stabilizer down		*6800	*6800		*5800	5450		*4200	3550					*3300	3050	
	2 sets of stabilizers down	*6800	*6800	*6800	*5800	*5800	*5800	*4200	*4200	4150				*3300	*3300	*3300	
-3.0 m	Rear dozer up				*4150	3200	2900										
	Rear dozer down					*4150	3400										
	Dozer and stabilizer down					*4150	*4150										
	2 sets of stabilizers down				*4150	*4150	*4150										

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M313D Wheel Excavator

Lift Capacities – Variable Adjustable Boom (5020 mm)

All values are in kg, without bucket and without QC, with counterweight (3300 kg), heavy lift on.

 Load at maximum reach (sticknose/bucket pin)		 Load over front			 Load over rear			 Load over side			 Load point height						
	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						
																m	
6.0 m	Rear dozer up				*4000	*4000	3650	3600	2500	2250				*2500	2150	1950	6.49
	Rear dozer down					*4000	*4000		*3650	2600					*2500	2250	
	Dozer and stabilizer down					*4000	*4000		*3650	*3650					*2500	*2500	
	2 sets of stabilizers down				*4000	*4000	*4000	*3650	*3650	*3650					*2500	*2500	
4.5 m	Rear dozer up				*4500	3850	3500	3550	2450	2250				*2350	1750	1600	7.29
	Rear dozer down					*4500	4000		*4200	2550					*2350	1850	
	Dozer and stabilizer down					*4500	*4500		*4200	3900					*2350	*2350	
	2 sets of stabilizers down				*4500	*4500	*4500	*4200	*4200	*4200					*2350	*2350	
3.0 m	Rear dozer up				5300	3550	3250	3400	2350	2100	2450	1650	1500	2300	1550	1400	7.71
	Rear dozer down					*5850	3750		*4500	2450		*3350	1750		*2350	1650	
	Dozer and stabilizer down					*5850	*5850		*4500	3800		*3350	2700		*2350	*2350	
	2 sets of stabilizers down				*5850	*5850	*5850	*4500	*4500	4400	*3350	*3350	3100	*2350	*2350	*2350	
1.5 m	Rear dozer up				5050	3300	3000	3300	2200	2000	2400	1600	1450	2250	1500	1350	7.81
	Rear dozer down					*6550	3500		*4800	2350		3750	1700		*2450	1600	
	Dozer and stabilizer down					*6550	5600		*4800	3650		3750	2650		*2450	*2450	
	2 sets of stabilizers down				*6550	*6550	*6550	*4800	*4800	4250	*3800	*3800	3050	*2450	*2450	*2450	
0.0 m	Rear dozer up				4850	3150	2850	3200	2100	1900	2350	1550	1400	2300	1500	1400	7.61
	Rear dozer down					*6650	3350		*4800	2250		*3550	1650		*2700	1600	
	Dozer and stabilizer down					*6650	5450		*4800	3550		*3550	2600		*2700	2550	
	2 sets of stabilizers down				*6650	*6650	6500	*4800	*4800	4150	*3550	*3550	3050	*2700	*2700	*2700	
-1.5 m	Rear dozer up	*6400	5800	5050	4800	3100	2800	3150	2100	1900				2550	1700	1550	7.08
	Rear dozer down		*6400	6100		*6000	3300		*4350	2200					*3150	1800	
	Dozer and stabilizer down		*6400	*6400		*6000	5400		*4350	3500					*3150	2800	
	2 sets of stabilizers down	*6400	*6400	*6400	*6000	*6000	*6000	*4350	*4350	4150				*3150	*3150	*3150	
-3.0 m	Rear dozer up				*4550	3150	2850	*2900	2150	1950							
	Rear dozer down					*4550	3350		*2900	2250							
	Dozer and stabilizer down					*4550	*4550		*2900	*2900							
	2 sets of stabilizers down				*4550	*4550	*4550	*2900	*2900	*2900							

Industrial Stick 2900 mm

	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						
																m	
6.0 m	Rear dozer up				*4150	*4150	3850		2700	2500				*3150	2300	2150	6.60
	Rear dozer down					*4150	*4150		*4000	2800					*3150	2400	
	Dozer and stabilizer down					*4150	*4150		*4000	*4000					*3150	*3150	
	2 sets of stabilizers down				*4150	*4150	*4150	*4000	*4000	*4000				*3150	*3150	*3150	
4.5 m	Rear dozer up				*4600	4050	3700	3750	2650	2450				2700	1900	1750	7.39
	Rear dozer down					*4600	4250		*4250	2750					*3100	2000	
	Dozer and stabilizer down					*4600	*4600		*4250	4100					*3100	3000	
	2 sets of stabilizers down				*4600	*4600	*4600	*4250	*4250	*4250				*3100	*3100	*3100	
3.0 m	Rear dozer up				5550	3800	3500	3650	2550	2350	2600	1850	1700	2450	1700	1600	7.80
	Rear dozer down					*5850	4000		*4650	2650		*3800	1950		*3200	1800	
	Dozer and stabilizer down					*5850	*5850		*4650	4000		*3800	2900		*3200	2700	
	2 sets of stabilizers down				*5850	*5850	*5850	*4650	*4650	4600	*3800	*3800	3300	*3200	*3200	3100	
1.5 m	Rear dozer up				5300	3550	3250	3500	2400	2200	2550	1800	1650	2400	1650	1500	7.90
	Rear dozer down					*6700	3750		*5000	2550		3900	1850		*3400	1750	
	Dozer and stabilizer down					*6700	5850		*5000	3850		3950	2800		*3400	2600	
	2 sets of stabilizers down				*6700	*6700	*6700	*5000	*5000	4500	*4000	*4000	3250	*3400	*3400	3000	
0.0 m	Rear dozer up				5100	3400	3050	3400	2300	2150	2550	1750	1600	2450	1700	1550	7.71
	Rear dozer down					*6950	3550		*5100	2450		3850	1850		3700	1750	
	Dozer and stabilizer down					*6950	5700		*5100	3750		*3900	2800		*3700	2700	
	2 sets of stabilizers down				*6950	*6950	6750	*5100	*5100	4400	*3900	*3900	3200	*3700	*3700	3100	
-1.5 m	Rear dozer up	*7400	6050	5300	5050	3350	3000	3350	2300	2100				2650	1800	1650	7.18
	Rear dozer down		*7400	6350		*6450	3500		*4750	2400					*3600	1900	
	Dozer and stabilizer down		*7400	*7400		*6450	5600		*4750	3700					*3600	2950	
	2 sets of stabilizers down	*7400	*7400	*7400	*6450	*6450	*6450	*4750	*4750	4350				*3600	*3600	3400	
-3.0 m	Rear dozer up	*6950	6150	5400	5050	3350	3050	3400	2300	2100				3200	2200	2000	6.25
	Rear dozer down		*6950	6450		*5150	3550		*3600	2450					*3300	2300	
	Dozer and stabilizer down		*6950	*6950		*5150	*5150		*3600	*3600					*3300	*3300	
	2 sets of stabilizers down	*6950	*6950	*6950	*5150	*5150	*5150	*3600	*3600	*3600				*3300	*3300	*3300	

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M313D Wheel Excavator

Lift Capacities – One-Piece Boom (4815 mm)

All values are in kg, without bucket and without QC, with counterweight (3300 kg), heavy lift on.

 Load at maximum reach (sticknose/bucket pin)
  Load over front
  Load over rear
  Load over side
  Load point height

Short Stick
2000 mm

	Undercarriage configuration	3.0 m			4.5 m			6.0 m						m
														
4.5 m	Rear dozer up				*5100	3800	3450	3500	2400	2250	*3000	2150	2000	6.44
	Rear dozer down					*5100	3950		*4450	2550		*3000	2250	
	Dozer and stabilizer down					*5100	*5100		*4450	3850		*3000	*3000	
	2 sets of stabilizers down				*5100	*5100	*5100	*4450	*4450	*4450	*3000	*3000	*3000	
3.0 m	Rear dozer up				5300	3600	3250	3450	2350	2150	2750	1900	1750	6.91
	Rear dozer down					*6000	3750		*4700	2450		*2950	2000	
	Dozer and stabilizer down					*6000	5900		*4700	3800		*2950	*2950	
	2 sets of stabilizers down				*6000	*6000	*6000	*4700	*4700	4400	*2950	*2950	*2950	
1.5 m	Rear dozer up				5050	3350	3050	3350	2250	2050	2650	1800	1650	7.03
	Rear dozer down					*6750	3550		*4950	2400		*3100	1900	
	Dozer and stabilizer down					*6750	5650		*4950	3700		*3100	2900	
	2 sets of stabilizers down				*6750	*6750	6700	*4950	*4950	4300	*3100	*3100	*3100	
0.0 m	Rear dozer up				4950	3250	2950	3250	2200	2000	2750	1850	1700	6.80
	Rear dozer down					*6800	3450		*4950	2300		*3450	1950	
	Dozer and stabilizer down					*6800	5500		*4950	3600		*3450	3050	
	2 sets of stabilizers down				*6800	*6800	6550	*4950	*4950	4200	*3450	*3450	*3450	
-1.5 m	Rear dozer up	*8300	6000	5300	4900	3250	2950	3250	2200	2000	3150	2100	1950	6.20
	Rear dozer down		*8300	6350		*6100	3400		*4250	2300		*3900	2250	
	Dozer and stabilizer down		*8300	*8300		*6100	5500		*4250	3600		*3900	3450	
	2 sets of stabilizers down	*8300	*8300	*8300	*6100	*6100	*6100	*4250	*4250	4200	*3900	*3900	*3900	
-3.0 m	Rear dozer up	*5800	*5800	5400	*4250	3300	3000				*3300	2850	2600	5.07
	Rear dozer down		*5800	*5800		*4250	3500					*3300	3000	
	Dozer and stabilizer down		*5800	*5800		*4250	*4250					*3300	*3300	
	2 sets of stabilizers down	*5800	*5800	*5800	*4250	*4250	*4250				*3300	*3300	*3300	

Medium Stick
2300 mm

	Undercarriage configuration	3.0 m			4.5 m			6.0 m						m
														
6.0 m	Rear dozer up										*2700	2600	2350	5.81
	Rear dozer down											*2700	*2700	
	Dozer and stabilizer down											*2700	*2700	
	2 sets of stabilizers down										*2700	*2700	*2700	
4.5 m	Rear dozer up				*4850	3850	3500	3550	2450	2250	*2500	2050	1850	6.70
	Rear dozer down					*4850	4000		*4250	2550		*2500	2150	
	Dozer and stabilizer down					*4850	*4850		*4250	3900		*2500	*2500	
	2 sets of stabilizers down				*4850	*4850	*4850	*4250	*4250	*4250	*2500	*2500	*2500	
3.0 m	Rear dozer up				5350	3600	3300	3450	2350	2150	*2500	1800	1650	7.16
	Rear dozer down					*5800	3800		*4550	2500		*2500	1900	
	Dozer and stabilizer down					*5800	*5800		*4550	3800		*2500	*2500	
	2 sets of stabilizers down				*5800	*5800	*5800	*4550	*4550	4400	*2500	*2500	*2500	
1.5 m	Rear dozer up				5100	3400	3050	3350	2250	2050	2500	1700	1550	7.27
	Rear dozer down					*6650	3550		*4900	2400		*2650	1800	
	Dozer and stabilizer down					*6650	5650		*4900	3700		*2650	*2650	
	2 sets of stabilizers down				*6650	*6650	*6650	*4900	*4900	4300	*2650	*2650	*2650	
0.0 m	Rear dozer up	*4500	*4500	*4500	4950	3250	2950	3250	2200	2000	2600	1750	1600	7.05
	Rear dozer down		*4500	*4500		*6850	3450		*4950	2300		*3000	1850	
	Dozer and stabilizer down		*4500	*4500		*6850	5500		*4950	3600		*3000	2850	
	2 sets of stabilizers down	*4500	*4500	*4500	*6850	*6850	6550	*4950	*4950	4200	*3000	*3000	*3000	
-1.5 m	Rear dozer up	*8650	5950	5250	4900	3200	2900	3250	2150	2000	2950	1950	1800	6.47
	Rear dozer down		*8650	6300		*6300	3400		*4450	2300		*3650	2100	
	Dozer and stabilizer down		*8650	*8650		*6300	5450		*4450	3600		*3650	3250	
	2 sets of stabilizers down	*8650	*8650	*8650	*6300	*6300	*6300	*4450	*4450	4200	*3650	*3650	*3650	
-3.0 m	Rear dozer up	*6550	6100	5350	*4750	3300	2950				*3450	2550	2350	5.40
	Rear dozer down		*6550	6400		*4750	3450					*3450	2700	
	Dozer and stabilizer down		*6550	*6550		*4750	*4750					*3450	*3450	
	2 sets of stabilizers down	*6550	*6550	*6550	*4750	*4750	*4750				*3450	*3450	*3450	

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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M313D Wheel Excavator

Lift Capacities – One-Piece Boom (4815 mm)

All values are in kg, without bucket and without QC, with counterweight (3300 kg), heavy lift on.

 Load at maximum reach (sticknose/bucket pin)		 Load over front			 Load over rear			 Load over side			 Load point height						
Long Stick 2600 mm		3.0 m			4.5 m			6.0 m			7.5 m						
																m	
7.5 m	Rear dozer up													*2750	*2750	*2750	4.69
	Rear dozer down													*2750	*2750	*2750	
	Dozer and stabilizer down													*2750	*2750	*2750	
	2 sets of stabilizers down													*2750	*2750	*2750	
6.0 m	Rear dozer up							*2900	2450	2250				*2300	*2300	2150	6.17
	Rear dozer down								*2900	2600				*2300	*2300	*2300	
	Dozer and stabilizer down								*2900	*2900				*2300	*2300	*2300	
	2 sets of stabilizers down							*2900	*2900	*2900				*2300	*2300	*2300	
4.5 m	Rear dozer up							3550	2450	2250				*2150	1900	1750	7.01
	Rear dozer down								*4050	2550				*2150	2000		
	Dozer and stabilizer down								*4050	3900				*2150	*2150		
	2 sets of stabilizers down							*4050	*4050	*4050				*2150	*2150		
3.0 m	Rear dozer up				5350	3650	3300	3450	2350	2150				*2200	1700	1550	7.45
	Rear dozer down					*5500	3800		*4400	2500				*2200	1750		
	Dozer and stabilizer down					*5500	*5500		*4400	3800				*2200	*2200		
	2 sets of stabilizers down				*5500	*5500	*5500	*4400	*4400	*4400				*2200	*2200	*2200	
1.5 m	Rear dozer up				5100	3400	3050	3350	2250	2050	2400	1600	1500	*2300	1600	1450	7.55
	Rear dozer down					*6450	3550		*4800	2400		*2650	1700	*2300	1700		
	Dozer and stabilizer down					*6450	5650		*4800	3700		*2650	*2650	*2300	*2300		
	2 sets of stabilizers down				*6450	*6450	*6450	*4800	*4800	4300	*2650	*2650	*2650	*2300	*2300	*2300	
0.0 m	Rear dozer up	*4800	*4800	*4800	4900	3250	2900	3250	2150	2000				2450	1650	1500	7.35
	Rear dozer down		*4800	*4800		*6800	3400		*4950	2300					*2550	1750	
	Dozer and stabilizer down		*4800	*4800		*6800	5500		*4950	3600					*2550	*2550	
	2 sets of stabilizers down	*4800	*4800	*4800	*6800	*6800	6550	*4950	*4950	4200				*2550	*2550	*2550	
-1.5 m	Rear dozer up	*8050	5900	5200	4850	3200	2850	3200	2150	1950				2700	1800	1650	6.79
	Rear dozer down		*8050	6200		*6400	3350		*4600	2250					*3100	1900	
	Dozer and stabilizer down		*8050	*8050		*6400	5450		*4600	3550					*3100	3000	
	2 sets of stabilizers down	*8050	*8050	*8050	*6400	*6400	*6400	*4600	*4600	4150				*3100	*3100	*3100	
-3.0 m	Rear dozer up	*7200	6000	5250	4900	3200	2900							3400	2300	2100	5.79
	Rear dozer down		*7200	6300		*5100	3400								*3450	2400	
	Dozer and stabilizer down		*7200	*7200		*5100	*5100								*3450	*3450	
	2 sets of stabilizers down	*7200	*7200	*7200	*5100	*5100	*5100							*3450	*3450	*3450	

Industrial Stick 2900 mm		Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m						
																		m
6.0 m	Rear dozer up								*3500	2700	2500				*3050	2550	2350	6.23
	Rear dozer down									*3500	2800					*3050	2650	
	Dozer and stabilizer down									*3500	*3500					*3050	*3050	
	2 sets of stabilizers down								*3500	*3500	*3500					*3050	*3050	
4.5 m	Rear dozer up								3750	2650	2450				2900	2050	1900	7.06
	Rear dozer down									*4100	2800					*3000	2150	
	Dozer and stabilizer down									*4100	*4100					*3000	*3000	
	2 sets of stabilizers down								*4100	*4100	*4100					*3000	*3000	
3.0 m	Rear dozer up				*5500	3850	3550	3650	2550	2350				2650	1850	1700	7.50	
	Rear dozer down					*5500	4050		*4500	2700					*3100	1950		
	Dozer and stabilizer down					*5500	*5500		*4500	4000					*3100	2900		
	2 sets of stabilizers down				*5500	*5500	*5500	*4500	*4500	*4500				*3100	*3100	*3100		
1.5 m	Rear dozer up				5350	3650	3300	3550	2450	2250	2600	1800	1650	2550	1800	1650	7.60	
	Rear dozer down					*6550	3800		*4900	2600		*3800	1900		*3350	1850		
	Dozer and stabilizer down					*6550	5900		*4900	3900		*3800	2850		*3350	2800		
	2 sets of stabilizers down				*6550	*6550	*6550	*4900	*4900	4500	*3800	*3800	3250	*3350	*3350	3200		
0.0 m	Rear dozer up	*6350	6200	5450	5150	3450	3150	3450	2350	2200				2600	1800	1650	7.40	
	Rear dozer down		*6350	*6350		*7050	3650		*5150	2500					*3850	1900		
	Dozer and stabilizer down		*6350	*6350		*7050	5750		*5150	3800					*3850	2850		
	2 sets of stabilizers down	*6350	*6350	*6350	*7050	*7050	6750	*5150	*5150	4400				*3850	*3850	3300		
-1.5 m	Rear dozer up	*9100	6150	5450	5100	3400	3100	3400	2350	2150				2850	1950	1800	6.85	
	Rear dozer down		*9100	6450		*6800	3550		*4950	2450					*4150	2100		
	Dozer and stabilizer down		*9100	*9100		*6800	5650		*4950	3750					*4150	3150		
	2 sets of stabilizers down	*9100	*9100	*9100	*6800	*6800	6700	*4950	*4950	4350				*4150	*4150	3600		
-3.0 m	Rear dozer up	*8100	6200	5500	5100	3400	3100							3550	2400	2200	5.86	
	Rear dozer down		*8100	6550		*5700	3600								*4050	2550		
	Dozer and stabilizer down		*8100	*8100		*5700	5650								*4050	3900		
	2 sets of stabilizers down	*8100	*8100	*8100	*5700	*5700	*5700							*4050	*4050	*4050		

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

M313D Wheel Excavator

Lift Capacities – Offset Boom (5020 mm)

All values are in kg, without bucket and without QC, with counterweight (3300 kg), heavy lift on.

 Load at maximum reach (sticknose/bucket pin)			 Load over front			 Load over rear			 Load over side			 Load point height		
	Undercarriage configuration	3.0 m			4.5 m			6.0 m						m
														
6.0 m	Rear dozer up				*4850	3850	3500				*3400	2400	2200	5.81
	Rear dozer down					*4850	4050					*3400	2550	
	Dozer and stabilizer down					*4850	*4850					*3400	*3400	
	2 sets of stabilizers down				*4850	*4850	*4850				*3400	*3400	*3400	
4.5 m	Rear dozer up				*5250	3650	3300	3400	2300	2050	2800	1850	1650	6.70
	Rear dozer down					*5250	3850		*4300	2400		*3100	1950	
	Dozer and stabilizer down					*5250	*5250		*4300	3750		*3100	3100	
	2 sets of stabilizers down				*5250	*5250	*5250	*4300	*4300	*4300	*3100	*3100	*3100	
3.0 m	Rear dozer up				5100	3300	3000	3250	2150	1950	2450	1600	1450	7.16
	Rear dozer down					*6000	3500		*4550	2300		*3050	1700	
	Dozer and stabilizer down					*6000	5700		*4550	3650		*3050	2750	
	2 sets of stabilizers down				*6000	*6000	*6000	*4550	*4550	4250	*3050	*3050	*3050	
1.5 m	Rear dozer up				4750	3000	2700	3100	2000	1800	2350	1500	1350	7.27
	Rear dozer down					*6400	3200		*4650	2150		*3200	1600	
	Dozer and stabilizer down					*6400	5350		*4650	3500		*3200	2600	
	2 sets of stabilizers down				*6400	*6400	6400	*4650	*4650	4100	*3200	*3200	3100	
0.0 m	Rear dozer up				4600	2850	2550	3050	1950	1750	2450	1550	1400	7.05
	Rear dozer down					*6150	3050		*4500	2050		*3450	1650	
	Dozer and stabilizer down					*6150	5150		*4500	3400		*3450	2700	
	2 sets of stabilizers down				*6150	*6150	*6150	*4500	*4500	4000	*3450	*3450	3200	
-1.5 m	Rear dozer up	*6400	5450	4700	4600	2850	2550	3050	1950	1750	2750	1750	1600	6.47
	Rear dozer down		*6400	5750		*5200	3050		*3700	2050		*3050	1900	
	Dozer and stabilizer down		*6400			*5200	5150		*3700	3400		*3050	*3050	
	2 sets of stabilizers down	*6400	*6400	*6400	*5200	*5200	*5200	*3700	*3700	*3700	*3050	*3050	*3050	

Medium Stick 2300 mm

			3.0 m			4.5 m			6.0 m			7.5 m						m
	Undercarriage configuration																	
6.0 m	Rear dozer up					*4600	3950	3550	*3350	2350	2150				*2800	2250	2050	6.12
	Rear dozer down						*4600	4100		*3350	2450					*2800	2350	
	Dozer and stabilizer down						*4600	*4600		*3350	*3350					*2800	*2800	
	2 sets of stabilizers down					*4600	*4600	*4600	*3350	*3350	*3350				*2800	*2800	*2800	
4.5 m	Rear dozer up					*5050	3750	3400	3450	2300	2100				*2650	1750	1600	6.97
	Rear dozer down						*5050	3900		*4200	2450					*2650	1850	
	Dozer and stabilizer down						*5050	*5050		*4200	3800					*2650	*2650	
	2 sets of stabilizers down					*5050	*5050	*5050	*4200	*4200	*4200				*2650	*2650	*2650	
3.0 m	Rear dozer up					5150	3400	3050	3300	2200	1950				2350	1500	1350	7.41
	Rear dozer down						*5800	3550		*4450	2300					*2600	1600	
	Dozer and stabilizer down						*5800	5750		*4450	3650					*2600	2600	
	2 sets of stabilizers down					*5800	*5800	*5800	*4450	*4450	4300				*2600	*2600	*2600	
1.5 m	Rear dozer up					4800	3050	2700	3150	2050	1850	2250	1450	1300	2250	1450	1300	7.52
	Rear dozer down						*6350	3200		*4650	2150		*2900	1550		*2750	1550	
	Dozer and stabilizer down						*6350	5350		*4650	3500		*2900	2500		*2750	2500	
	2 sets of stabilizers down					*6350	*6350	*6350	*4650	*4650	4100	*2900	*2900	*2900	*2750	*2750	*2750	
0.0 m	Rear dozer up					4600	2850	2550	3050	1950	1750				2300	1450	1300	7.31
	Rear dozer down						*6250	3050		*4550	2050					*3050	1550	
	Dozer and stabilizer down						*6250	5150		*4550	3400					*3050	2550	
	2 sets of stabilizers down					*6250	*6250	6200	*4550	*4550	4000				*3050	*3050	3000	
-1.5 m	Rear dozer up	*7000	5350	4650	4550	2850	2500	3000	1900	1700					2550	1650	1500	6.75
	Rear dozer down		*7000	5650		*5450	3000		*3950	2050						*3100	1750	
	Dozer and stabilizer down		*7000	*7000		*5450	5150		*3950	3350						*3100	2850	
	2 sets of stabilizers down	*7000	*7000	*7000	*5450	*5450	*5450	*3950	*3950	*3950					*3100	*3100	*3100	
-3.0 m	Rear dozer up					*3800	2950	2600										
	Rear dozer down						*3800	3100										
	Dozer and stabilizer down						*3800	*3800										
	2 sets of stabilizers down					*3800	*3800	*3800										

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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