

SPECIFICATION GUIDE

GRADALL®

EXCAVATORS

CROSSOVER • HIGHWAY • CRAWLER • ROUGH TERRAIN



SERIES





DISCOVERY SERIES excavators by Gradall are the cost-effective solution for governments and contractors who need to get to jobs faster ... complete many different jobs with fewer workers and machines ... while staying within a tight equipment budget. Available in two-wheel or four-wheel-drive, Discovery Series models feature the famous telescoping, tilting Gradall boom as well as a Freightliner truck chassis.



SERIES V EXCAVATORS feature an upgrade to Tier 4-final compliant diesel engines by Volvo Penta, meeting stringent government emissions standards. These XL Series excavators are proven performers for contractors and governments, putting rugged



Gradall booms to work on high performance excavation, demolition, loading and unloading as well as finished grading and spreading rip-rap.





CROSSOVER HIGHWAY SPEED EXCAVATORS

GRADALL

		D 172	D 174
OPERATING RANGE & PERFORMANCE	Max. Digging Depth	13' 6" (4.1 m)	13' 0" (4.0 m)
	Max. Radius at Groundline	24' 11" (7.6 m)	24' 9" (7.5 m)
	Max. Loading Height	16' 4" (5.0 m)	16' 10" (5.1 m)
	Max. Work Hgt., (Boom below grade)	14' 1" (4.3 m)	14' 7" (4.5 m)
	Boom Telescope	10' 3" (3.1 m)	10' 3" (3.1 m)
	Boom Tilt	220°	220°
	Bucket Pivot Angle	165°	165°
	Rated Boom Force	16,387 lb (72.9 kN)	16,387 lb (72.9 kN)
	Rated Bucket Breakout Force	11,400 lb (50.7 kN)	11,400 lb (50.7 kN)
	Max. Lift Capacity	5,490 lb (2,490 kg)	5,490 lb (2,490 kg)
	Operating Weight	32,200 lb (14,600 kg)	34,500 lb (15,650 kg)
	Swing Clearance	6' 7" (2.0 m)	6' 7" (2.0 m)
WEIGHTS & DIMENSIONS	Transport Length w/ Bucket	27' 1" (8.3 m)	27' 1" (8.3 m)
	Transport Height w/ Bucket	12' 3" (3.7 m)	12' 9" (3.8 m)
	Transport Width w/ Bucket	8' 6" (2.6 m)	8' 6" (2.6 m)
	Drive	4 x 2	4 x 4
	Gross Vehicle Axle Rating	37,320 lb (16,928 kg)	36,200 lb (16,420 kg)
UNDERCARRIAGE	Wheelbase	15' 10" (4.8 m)	15' 10" (4.8 m)
	Engine Standard	Cummins ISB 6.7	Cummins ISB 6.7
	HP @ RPM	300/2600	300/2600
	Travel Speed	60 mph (97 kph)	60 mph (97 kph)
	Ground Clearance	10" (254 mm)	10" (254 mm)
ATTACHMENTS	Trenching Buckets		
	Excavating Buckets	•	•
	Ditch Cleaning Buckets	•	•
	Dredging Buckets		
	Pavement Removal Buckets	•	•
	Grading Blades		
	Telestick		
	Boom Extensions		
	Flail Mowers	•	•
	Rotary Mowers	•	•
	Hydraulic Hammers		
	Grapples	•	•



D 172
 32,200 lb (14,600 kg)
 24' 11" (7.6 m) reach
 13' 6" (4.1 m) dig depth



D 174
 34,500 lb (15,650 kg)
 24' 9" (7.5 m) reach
 13' 0" (4.0 m) dig depth

SERIES

HIGHWAY SPEED WHEELED EXCAVATORS

GRADAL



	XL 3100 V	XL 4100 V	XL 5100 V	
OPERATING RANGE & PERFORMANCE	Max. Digging Depth	18' 4" (5.6 m)	20' 3" (6.2 m)	24' 5" (7.4 m)
	Max. Radius at Groundline	27' 3" (8.3 m)	30' 3" (9.2 m)	33' 9" (10.3 m)
	Max. Loading Height	15' 5" (4.7 m)	17' 2" (5.2 m)	18' 11" (5.8 m)
	Max. Work Hgt., (Boom below grade)	14' 11" (4.5 m)	15' 0" (4.6 m)	15' 0" (4.6 m)
	Boom Telescope	11' 0" (3.4 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
	Boom Tilt	220°	220°	220°
	Bucket Pivot Angle	165°	165°	165°
	Rated Boom Force	21,940 lb (97.6 kN)	21,940 lb (97.6 kN)	24,500 lb (109 kN)
	Rated Bucket Breakout Force	17,990 lb (80 kN)	24,900 lb (111 kN)	24,900 lb (111 kN)
	Max. Lift Capacity	7,870 lb (3,570 kg)	12,130 lb (5,500 kg)	12,425 lb (5,635 kg)
	Operating Weight	40,930 lb (18,566 kg)	49,684 lb (22,536 kg)	57,670 lb (26,159 kg)
	Swing Clearance	7' 6" (2.3 m)	8' 0" (2.4 m)	8' 6" (2.6 m)
WEIGHTS & DIMENSIONS	Transport Length w/ Bucket	27' 6" (8.4 m)	29' 6" (9.0 m)	30' 5" (9.3 m)
	Transport Height w/ Bucket	11' 11" (3.6 m)	11' 9" (3.6 m)	11' 9" (3.6 m)
	Transport Width w/ Bucket	8' 6" (2.6 m)	8' 6" (2.6 m)	8' 6" (2.6 m)
	Drive	4 x 2 or 4 x 4	6 x 4 or 6 x 6	6 x 4 or 6 x 6
	Gross Vehicle Axle Rating	43,990 lb (19,954 kg)	68,740 lb (31,180 kg)	68,740 lb (31,180 kg)
UNDERCARRIAGE	Wheelbase	13' 4" (4.1 m)	14' 2" (4.3 m)	14' 3" (4.3 m)
	Engine Standard	Volvo TAD572VE Tier 4f 5.1L	Volvo TAD871VE Tier 4f 7.7L	Volvo TAD873VE Tier 4f 7.7L
	HP @ RPM	215/2300	248/2200	315/2200
	Travel Speed	60 mph (96.6 kph)	59.9 mph (96.4 kph)	59.5 mph (95.8 kph)
	Ground Clearance	10" (254 mm)	10" (254 mm)	10" (254 mm)
ATTACHMENTS	Trenching Buckets	•	•	•
	Excavating Buckets	•	•	•
	Ditch Cleaning Buckets	•	•	•
	Dredging Buckets	•	•	•
	Pavement Removal Buckets	•	•	•
	Grading Blades	•	•	•
	Telestick	•	•	•
	Boom Extensions	•	•	•
	Flail Mowers	•	•	•
	Rotary Mowers	•	•	•
	Hydraulic Hammers	•	•	•
	Grapples	•	•	•

XL 3100 V

40,930 lb (18,566 kg)
27' 3" (8.3 m) reach
18' 4" (5.6 m) dig depth



XL 4100 V

49,684 lb (22,536 kg)
30' 3" (9.2 m) reach
20' 3" (6.2 m) dig depth



XL 5100 V

57,670 lb (26,159 kg)
33' 9" (10.3 m) reach
24' 5" (7.4 m) dig depth



SERIES



CRAWLER EXCAVATORS

GRADALL®

	XL 3200 V	XL 4200 V	XL 5200 V	
OPERATING RANGE & PERFORMANCE	Engine Standard	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L
	HP @ RPM	172/2,000	173/2,200	173/2,200
	Max. Digging Depth	19' 2" (5.8 m)	22' 0" (6.7 m)	25' 4" (7.7 m)
	Max. Radius at Groundline	27' 5" (8.4 m)	30' 6" (9.3 m)	33' 11" (10.3 m)
	Max. Loading Height	14' 9" (4.5 m)	16' 3" (5.0 m)	17' 11" (5.5 m)
	Max. Work Hgt., (Boom below grade)	14' 0" (4.3 m)	14' 0" (4.3 m)	14' 0" (4.3 m)
	Boom Telescope	11' 0" (3.4 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
	Boom Tilt	220°	220°	220°
	Bucket Pivot Angle	165°	165°	165°
	Rated Boom Force	22,075 lb (98.2 kN)	22,075 lb (98.2 kN)	24,941 lb (111 kN)
	Rated Bucket Breakout Force	19,300 lb (86 kN)	25,405 lb (113 kN)	25,405 lb (113 kN)
	Max. Lift Capacity	8,200 lb (3,720 kg)	12,590 lb (5,710 kg)	12,350 lb (5,600 kg)
WEIGHTS & DIMENSIONS	Operating Weight	39,240 lb (17,799 kg)	46,862 lb (21,256 kg)	54,452 lb (24,699 kg)
	Swing Clearance	7' 6" (2.3 m)	8' 0" (2.4 m)	8' 6" (2.6 m)
	Transport Length w/ Bucket	24' 6" (7.5 m)	26' 6" (8.1 m)	28' 11" (8.8 m)
	Transport Height w/ Bucket	10' 9" (3.3 m)	10' 9" (3.3 m)	10' 9" (3.3 m)
	Transport Width w/ Bucket	8' 6" (2.6 m)	10' 6" (3.2 m)	10' 6" (3.2 m)
UNDERCARRIAGE	Travel Speed	3.4 mph (5.5 kph)	3.4 mph (5.5 kph)	3.4 mph (5.5 kph)
	Track Length	11' 9" (3.6 m)	13' 8" (4.2 m)	13' 8" (4.2 m)
	Pad Width	23.6" (600 mm)	31.5" (800 mm)	31.5" (800 mm)
	Ground Bearing Pressure	7.5 psi/51.7kPa	5.7 psi/39.3 kPa	6.6 psi/45.5 kPa
	Ground Clearance	18" (454 mm)	18" (454 mm)	18" (454 mm)
ATTACHMENTS	Trenching Buckets	•	•	•
	Excavating Buckets	•	•	•
	Ditch Cleaning Buckets	•	•	•
	Dredging Buckets	•	•	•
	Pavement Removal Buckets	•	•	•
	Grading Blades	•	•	•
	Telestick	•	•	•
	Boom Extensions	•	•	•
	Flail Mowers	•	•	•
	Rotary Mowers	•	•	•
	Hydraulic Hammers	•	•	•
Grapples	•	•	•	

XL 3200 V

39,240 lb (17,799 kg)
27' 5" (8.4 m) reach
19' 2" (5.8 m) dig depth



XL 4200 V

46,862 lb (21,256 kg)
30' 6" (9.3 m) reach
22' 0" (6.7 m) dig depth



XL 5200 V

54,452 lb (24,699 kg)
33' 11" (10.3 m) reach
25' 4" (7.7 m) dig depth



SERIES



ROUGH TERRAIN WHEELED EXCAVATORS



	XL 3300 V	XL 4300 V	XL 5300 V	
OPERATING RANGE & PERFORMANCE	Engine Standard	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L	Volvo TAD571 VE Tier 4f 5.1L
	HP @ RPM	172/2,000	173/2,200	173/2,200
	Max. Digging Depth	18' 5" (5.6 m)	21' 3" (6.5 m)	24' 7" (7.5 m)
	Max. Radius at Groundline	27' 3" (8.3 m)	30' 4" (9.2 m)	33' 10" (10.3 m)
	Max. Loading Height	15' 6" (4.7 m)	17' 0" (5.2 m)	18' 8" (5.7 m)
	Max. Work Hgt., (Boom below grade)	14' 9" (4.5 m)	14' 9" (4.5 m)	14' 9" (4.5 m)
	Boom Telescope	11' 0" (3.4 m)	12' 6" (3.8 m)	14' 0" (4.3 m)
	Boom Tilt	220°	220°	220°
	Bucket Pivot Angle	165°	165°	165°
	Rated Boom Force	22,075 lb (98.2 kN)	22,075 lb (98.2 kN)	24,941 lb (111 kN)
	Rated Bucket Breakout Force	19,300 lb (86 kN)	25,405 lb (113 kN)	25,405 lb (113 kN)
	Max. Lift Capacity	8,150 lb (3,695 kg)	12,540 lb (5,690 kg)	12,730 lb (5,775 kg)
WEIGHTS & DIMENSIONS	Operating Weight	39,295 lb (17,823 kg)	43,580 lb (19,768 kg)	51,216 lb (23,231 kg)
	Swing Clearance	7' 6" (2.3 m)	8' 0" (2.4 m)	8' 6" (2.6 m)
	Transport Length w/ Bucket	24' 6" (7.5 m)	26' 6" (8.1 m)	30' 5" (9.3 m)
	Transport Height w/ Bucket	11' 6" (3.5 m)	11' 6" (3.5 m)	11' 6" (3.5 m)
	Transport Width w/ Bucket	8' 6" (2.6 m)	9' 1" (2.8 m)	9' 1" (2.8 m)
UNDERCARRIAGE	Drive	4 x 4	4 x 4	4 x 4
	Wheelbase	8' 9" (2.7 m)	8' 9" (2.7 m)	8' 9" (2.7 m)
	Travel Speed	20 mph (32.2 kph)	17.5 mph (28.2 kph)	15.0 mph (24.1 kph)
	Ground Clearance	11" (275 mm)	11" (275 mm)	11" (275 mm)
ATTACHMENTS	Trenching Buckets	•	•	•
	Excavating Buckets	•	•	•
	Ditch Cleaning Buckets	•	•	•
	Dredging Buckets	•	•	•
	Pavement Removal Buckets	•	•	•
	Grading Blades	•	•	•
	Telestick	•	•	•
	Boom Extensions	•	•	•
	Flail Mowers	•	•	•
	Rotary Mowers	•	•	•
	Hydraulic Hammers	•	•	•
Grapples	•	•	•	

XL 3300 V

39,294 lb (17,823 kg)
27' 3" (8.3 m) reach
18' 5" (5.6 m) dig depth



XL 4300 V

43,580 (19,768 kg)
30' 4" (9.2 m) reach
21' 3" (6.5 m) dig depth



XL 5300 V

51,216 lb (23,231 kg)
33' 10" (10.3 m) reach
24' 7" (7.5 m) dig depth





THE AMERICAN WAY TO GET MORE DONE

Gradall high-productivity, high-versatility excavators can do just about anything, just about anywhere. Our low-profile telescoping, full-tilting boom even allows Gradall excavators to work under bridges and in tunnels where others won't fit. Specify the only excavator that's made only in America.

GRADALL

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It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

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