





FEATURES



POWER & PERFORMANCE

- NEW Cummins QST30 Tier I Emissions Certified Engine, 760 Gross HP/720 Net HP 3-mode switch (Normal, Heavy Duty, Load & Carry) NEW Adjustable Declutch Efficient, versatile and productive NEW
- Enhanced LED Taillights

ECONOMIC AND EFFICIENT SYSTEMS

ELS (Efficient Loading System) NEW

- Increases rimpull power when digging while demanding less fuel. Increases productivity, and fuel efficiency.
- Switch located on instrument control panel allows operator to activate from cab.

COMFORT

- Enhanced Brake and throttle pedals are re-positioned for increased leg room
- Enhanced Dual boom kickout controls allow the operator to control raising and lowering of the boom. The operator can adjust the kickout position from the cab. Boom soft-landing feature is selectable via an OFF/ON switch.

Enhanced Lock Up Clutch

Located in the torque converter, the standard lock up clutch reduces cycle times, increases fuel efficiency and increases production efficiency in load & carry applications and hill climbing. Smoother shifting, this operation engages automatically.



Declutch Boom Soft Selector/ Landing Adjustment Switch Świtch





SERVICEABILITY

NEW MODM (Machine Operations/Diagnostics Module) provides essential operations and diagnostic information in an easy to read LCD display.

- Operations Monitors fluids and filters
- Diagnostics Monitors engine codes, transmission codes, alarm signals

Enhanced Sealed universal joints only require greasing at 2,000 hour intervals extending the life expectancy of the drive shaft

NEW Engine PreLub Starter has been replaced with a stand alone pump for simplified maintenance of the starter.



BUCKET DATA



				Standa	rd Boom	
			Rock-V	/-Edge	Rock-Straight-Edge	General Purpose
And and a second			With Teeth & Segments	Without Teeth	With Teeth & Segments	With Bolt-on Cutting Edge
Capacity	Heaped	yd ³ (m ³)	12.8 (9.7)	12.4 (9.5)	12.8 (9.7)	13.5 (10.3)
	Struck	yd³ (m³)	11.1 (8.5)	10.8 (8.25)	10.9 (8.3)	11.5 (8.8)
Maximum dump clearance	ing	ft-in (mm)	13' ³ /4" (3,980)	14'2 ⁷ /8" (4,340)	13'10 ¹ /2" (4,230)	14'8 ³ /8" (4,480)
Dumping reach of bucket edge of		ft-in (mm)	7'5 ¹ /8" (2,265)	6'7 ¹ /8" (2,010)	6'6³/8" (1,990)	5'11 ⁷ /8" (1,825)
Bucket hinge pir	n height	ft-in (mm)	19'9 ⁷ /8" (6,040)	19'97/8" (6,040)	19'9 ⁷ /8" (6,040)	19'97/8" (6,040)
Digging depth	Digging depth ft-in (mm)		6 ¹ /4" (160)	3" (75)	6 ⁷ /8" (175)	5" (125)
Breakout force	Breakout force Ib (kg		130,785 (59,323)	130,785 (59,323)	160,890 (72,980)	148,670 (67,435)
Bucket tilt-	at ground level		41.0°	41.0°	41.0°	41.0°
back angle	at carry position		49.2°	49.2°	49.2°	49.2°
	Length	ft-in (mm)	42'7 ³ /4" (13,000)	41'2 ⁷ /8" (12,570)	41'55/8" (12,640)	40'6 ⁵ /8" (12,360)
Overall	Height	ft-in (mm)	16'2³/4" (4,945)	16'2³/4" (4,945)	16'2 ³ /4" (4,945)	16'2 ³ /4" (4,945)
Overall	Width (outside tire)	ft-in (mm)	13'7 ^{13/} 16" (4,160)	13'7 ¹³ / ₁₆ " (4,160)	13'7 ¹³ / ₁₆ " (4,160)	13'7 ¹³ / ₁₆ " (4,160)
	Width (outside bucket)	ft-in (mm)	14'10" (4,520)	14'10" (4,520)	14'10" (4,520)	14'10" (4,520)
Wheel base		ft-in (mm)	15'9" (4,800)	15'9" (4,800)	15'9" (4,800)	15'9" (4,800)
Minimum	at outside bucket	ft-in (mm)	31'11 ¹ /2" (9,740)	31'7 ¹ /2" (9,640)	32'1/4" (9,760)	31'10 ¹ /4" (9,710)
turning radius	at center of outside tire	ft-in (mm)	26'7 ¹³ / ₁₆ " (8,120)			
Minimum ground clearance	d	ft-in (mm)	1'11 ¹ /4" (590)	1'11 ¹ /4" (590)	1'11 ¹ /4" (590)	1'111/4" (590)
Full articulation	angle	degree	40°	40°	40°	40°
Operating weigh (with ROPS Car	nt hopy and Cabin)	lb (kg)	181,880 (82,500)	180,760 (81,990)	178,930 (81,160)	178,020 (80,750)
Static Tipping Load (with	Straight	lb (kg)	106,050 (48,105)	107,090 (48,575)	110,870 (50,290)	111,470 (50,560)
ROPS Canopy and Cabin)	Full turn	lb (kg)	93,330 (42,335)	94,260 (42,755)	97,580 (44,260)	98,090 (44,495)

Specifications based on counterweight, open ROPS and enclosed cab, 45/65-39 L5 tires, full fuel tank, and operator.

Materials and specifications are subject to change without notice and without obligation on the part of the manufacturer. The specifications supplied, while believed to be completely reliable, are not to be taken as warranty for which we assume legal responsibility.

BUCKET DATA

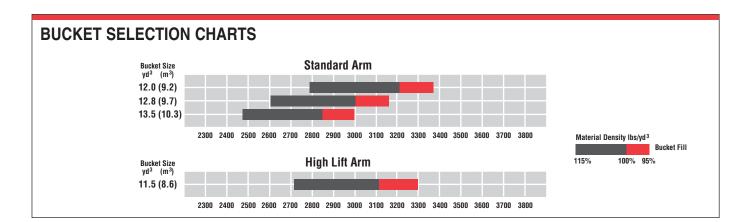


			High Lif	't Boom
		_	Rock-V-Edge	Rock-Straight-Edge
A Second			With Teeth	With Teeth
Capacity	Heaped	yd ³ (m3)	11.5 (8.6)	11.5 (8.6)
	Struck	yd ³ (m ³)	10.2 (7.6)	10.2 (7.6)
Maximum dump clearance	ing	ft-in (mm)	15'51/8" (4,700)	17' (4,900)
Dumping reach of bucket edge of	(to front or tooth)	ft-in (mm)	7'11/ ₁₆ " (2,150)	6'4 ¹³ / ₁₆ " (1,950)
Bucket hinge pir	n height	ft-in (mm)	21'8 ⁵ /16" (6,610)	21'85/16" (6,610)
Digging depth	Digging depth		61/2" (165)	61/2" (165)
Breakout force	Breakout force		145,725 (66,100)	171,740 (77,900)
Bucket tilt-	at ground level		42°	42°
back angle	at carry position	0.5	49°	49°
	Length	ft-in (mm)	44'37/8" (13,510)	43'41/2" (13,220)
Overall	Height	ft-in (mm)	16'2³/4" (4,945)	16'2³/4" (4,945)
	Width (outside tire)	ft-in (mm)	13'7 ^{13/} 16" (4,160)	13'7 ¹³ / ₁₆ " (4,160)
	Width (outside bucket)	ft-in (mm)	14'10" (4,520)	14'10" (4,520)
Wheel base		ft-in (mm)	15'9" (4,800)	15'9" (4,800)
Minimum	at outside bucket	ft-in (mm)	32'81/4" (9,960)	32'81/4" (9,960)
turning radius	at center of outside tire	ft-in (mm)	26'7 ¹³ / ₁₆ " (8,120)	26'7 ¹³ / ₁₆ " (8,120)
Minimum ground clearance	Minimum ground clearance		1'11'/4" (590)	1'11'/4" (590)
Full articulation a	Full articulation angle		40°	40°
Operating weigh (with ROPS can	t opy and cabin)	lb (kg)	180,290 (81,780)	179,610 (81,470)
Static tipping load (with	Straight	lb (kg)	106,350 (48,240)	107,475 (48,750)
ROPS canopy and cabin)	Full turn	lb (kg)	92,530 (41,970)	93,520 (42,240)

Specifications based on highlift counterweight, open ROPS and enclosed cab, 45/65-39 L5 tires, full fuel tank, and operator.

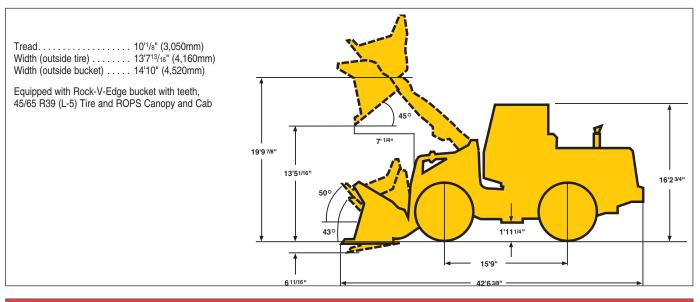
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OPERATING SPECIFICATIONS 1352V-2



WEIGHTS AND DIMENSIONS (SUPPLEMENTAL DATA)

		Operating	Tippir	ng Load		Overall Width	Tread Vertical Dimensions	Overall	
		Weight	Straight	Full Turn		(Outside Tire)		Dimensions	Length
Tires: 41.25/70-39 PR34	lb (kg)	-880 (-400)	-650 (-295)	-575 (-260)	in (mm)	1 ⁷ /8" (-48)			



TRUCK DESIGNATION							
	35 Ton Height: 10' 4" Width: 11' 11"	40 Ton Height: 11' 2" Width: 11' 11"	50 Ton Height: 12' 5" Width: 16' 8"	65 Ton Height: 13' 1" Width: 16' 8"	85 Ton Height: 13' 8" Width: 17' 11"	100 Ton Height: 14' 1" Width: 19' 10"	
Kawasaki 135ZV (18 T) 12.8 cu. yd. Spade Nose Rock Bucket Dump: 13' ³ /4" Reach: 7' 5 ¹ /6"	2 Pass	2–3 Pass	3 Pass	3–4 Pass	N/A	N/A	
Kawasaki 135ZV (16.8 T) Hi-Lift 11.5 cu. yd. Spade Nose Rock Bucket Dump: 15' 5" Reach: 7' ¹¹ / ₁₆ "	2–3 Pass	3 Pass	3–4 Pass	4 Pass	4–5 Pass	5–6 Pass	

OPERATING SPECIFICATIONS 1352V-2

ENGINE

Gross Power (SAE J1995)	760 HP/2100 RPM
Net Power (SAE J1349)	720 HP/2100 RPM
Net Peak Torque	2400 lbft./1300RPM
Make/Model/Fuel Type	Cummins QST30
Туре	4-cycle, watercooled, in-line direct injection type with 2 turbo chargers and aftercooled
Number of cylinders	12
Bore and stroke	5.25" x 6.25" (190mm x 165mm)
Total displacement	1,861 in ³ (30,500 cm ³)
Alternator	AC24V – 1800W (75amp)
Battery	12V – 140AH (900 CCA), 4 units

TORQUE CONVERTER AND TRANSMISSION

Torque converter	3 elements, single stage with lock-up	
Torque stall ratio	2.53:1	
Main clutches	Wet hydraulic, multi-disc type	
Cooling method	Forced circulation type	
Transmission	Full power shift, 4 forward, 3 reverse with automatic mode (2nd – 3rd) with downshift switch for 2nd – 1st downshifting. Autobrake protects transmission from overspeeding	
Speeds Forward	1st: 4.3 MPH (6.9 km/hr) 2nd: 8.0 MPH (12.8 km/hr) 3rd: 15.2 MPH (24.4 km/hr) Lock-up: 18.6 MPH (30.0 km/hr)	
Speeds Reverse	1st: 4.8 MPH (7.7 km/hr) 2nd: 8.9 MPH (14.3 km/hr) 3rd: 17.0 MPH (27.3 km/hr)	

SERVICE REFILL CAPACITY					
LOCATION	Gallons	Liters			
Engine (coolant)	71.3	(270)			
Fuel tank (diesel fuel)	277.4	(1,050)			
Engine oil (oil pan)	35.1	(133)			
Front axle (gear oil)	83.7	(317)			
Rear axle (gear oil)	83.7	(317)			
Torque converter and transmission (engine oil)	52.8	(200)			
Hydraulic system including tank (hydraulic oil)	190.2	(720)			

HYDRA	HYDRAULIC AND STEERING SYSTEM					
Steering type		K-Lever+ hydraulic over hydraulic				
Steering mech	nanism	Hydraulic power steering unit, pilot operated type				
Lift (boom) cy	linder	Two (2) double-acting piston type: 9.43" x 50" (240mm x 1270mm)				
Tilt (bucket) c	linder	Two (2) double-acting piston type: 7.31" x 35.37" (185mm x 898mm)				
Steering cyline	der	Two (2) double-acting piston type: $5^{1}/8^{"} \times 26^{1}/3^{"}$ (130mm x 671mm)				
Steering oil pu (double section		Piston type: 120.5 GPM @ 2000 RPM (456 LPM @ 2000 RPM)				
Main oil pump		Piston type: 86.1 GPM @ 2000 RPM (321 LPM @ 2000 RPM)				
Pilot/Brake oil	pump	Gear type: 25.9 GPM @ 2000 RPM (97 LPM @ 2000 RPM)				
Relief valve	Loading	4550 psi (320 kg/cm ²)				
set pressure	Steering	4500 psi (320 kg/cm²)				
HYDRAULIC	CYCLE TIME*					
Lifting time (at	full load)	9.8 sec.				
Lowering time	(empty)	4.3 sec.				
Bucket dumpi	ng time	1.4 sec.				
TOTAL		15.5 sec.				

* Measured in accordance with SAE J732C

AXL	AXLE SYSTEM					
Drive s	system	4-wheel drive				
Front a	and rear axle	Full-floating banjo type				
Tires	Standard	45/65-39 (L-5) Radial				
	Optional	45/65-39 (L-4) and 41/25-70-39PR34				
	tion and ntial gear	Spiral bevel gear, 1 stage reduction				
Final reduction gear		Outboard mounted, Internal planetary gear				
Oscilla	tion angle	±11° (total ±22°)				

BRAKE SYSTEM

Service brakes	4 wheel adjustment-free, wet disc brake, Controlled by full hydraulic system, dual-circuit
Parking/Emergency brake	Spring-applied, oil pressure-released. Enclosed wet disk type. Mounted in front driveline.

EQUIPMENT DATA



STANDARD EQUIPMENT

Air cleaner Air conditioner (R134 refrigerant) Alarms (audible): Auto brake Brake pressure Brake oil temp. Engine oil pressure Parking brake with T/M engaged Alarms (Visual): Air filter Battery discharge Brake pressure Brake disc wear Brake oil temp. Central warning lamp Engine coolant temperature Engine oil pressure Engine warning (3 levels) Torque converter oil temperature Transmission control warning Transmission oil filter Alternator (75 amp) AM/FM CD radio with AUX input Auto brake Batteries: 12V-900CCA (4 units)

Boom kickout (2-position, adjustable, in cab) Boom, soft-landing Brake line protection Brake (parking) spring applied; oil pressure released, enclosed wet disc type Brakes (service), enclosed wet disc, dual system Bucket control lever (single, pilot assisted) Bucket leveler Coat hook Cold start aid (air heater) Converter, 12V/15Amp dash outlet Counterweight Cup holder Downshift button Drawbar Engine stop switch ELS (Efficient Loading System) Fan (blower) Fenders, front Gauges: Converter oil temperature Engine coolant temperature Fuel level

Hour meter Hydraulic oil level sight Tachometer Heater/Pressurizer Horn (electric) Hydraulic PowerBoost[™] Indicators: Autobrake Engine pre-heater High beam K-Lever Parking brake Transmission declutch Transmission shift monitor Working light K-Lever steering Linkage (dual Z-type, sealed) Lights: 2 Headlights (Hi/Lo/Halogen) 4 Forward working lights 4 Rear working lights 2 Stop/Tail/Backup (LED) 2 Step lights Lock-up torque converter MODM (Machine Operation Diagnostic Module) Muffler (2) Neutral safety start Operator's manual box Operating mode selection

(Normal, Heavy Duty, Load & Carry) PreLub[®] system Radiator: heavy duty plate fin type Radiator grille, steel Rear under-frame cover Reverse alarm ROPS canopy and enclosed cab: Enclosed cab with sound suppression, front and rear wipers and washers, two rear view and two side mirrors, tinted glass and roll-up side windows Safety articulation locking bar Seat, air ride Seat belt, retractable, 3" wide Shift control unit for automatic shift Traction control Transmission lock-up Transmission declutch Select/adjustment switch Wrist rest, adjustable

OPTIONAL EQUIPMENT							
Autolube Bucket teeth Emergency steering	Ground-level fueling system HID lighting High lift arms	Belly guard, hinged, transmission K-LINK Quick-change oil system	Ride control Snap-on cutting edge shrouds Wing shrouds				

