



Skid Steer 1835C

ENGINE

Model Wis-Con TM20
 Fuel Gasoline
 Cylinders 3
 Fuel supply Vacuum fuel pump
 Bore/Stroke 3.58" x 4.06"
 Displacement 123 in³
 Horsepower
 Gross 51 @ 2700 rpm
 Net 48 @ 2700 rpm

DRIVELINE

CHAIN DRIVE DESIGN

Single-stage 80 HT drive chain transmits power from the drive motor to each wheel. Quick and easy external adjustment for proper tension.

INFINITELY VARIABLE SPEEDS

Speed transitions within a range of 0-5.9 mph in both forward and reverse.

DYNAMIC BRAKING

Moving the hand controls to the neutral position brings the unit to a stop. Engage the parking latch by raising the seat bar.

DIRECT-DRIVE TRANSMISSION PUMPS

Two variable displacement piston pumps deliver oil to corresponding hydrostatic motors for independent control of each side. Pumps are mounted in tandem and are driven directly

OPERATOR ENVIRONMENT

Seat bar serves as an operator restraining device and armrest. Two servo-assisted low effort "hands-only" levers control direction and loader functions. Optional auxiliary hydraulic foot pedal control for precision applications or continuous hydraulic flow as

MONITORING SYSTEM

Systems normal light, flashing low fuel level, hourmeter and LED warning lights and audible alarms.

LED WARNING LIGHTS

Hydraulic filter – Fuel level – Air cleaner restriction

LED WARNINGS WITH AUDIBLE ALARMS

Engine oil pressure – Seat belt – Alternator – Transmission oil temperature – Low battery voltage – Engine coolant temperature

HYDRAULIC SYSTEM

Pump Direct drive
 Capacity 16.4 gpm @ 2700 rpm @ 2250 psi
 Main relief setting 2300 psi @ 120° F @ 2850 rpm
 Filtration 6-micron spin-on replaceable element w/warning light

SERVICE CAPACITIES

Fuel tank 19.5 gal
 Engine oil w/filter change 6 qts
 Cooling system 4.5 gal
 Hydraulic system (total) 10.5 gal
 Chain compartments (per side). 6 qts

ELECTRICAL SYSTEM

Voltage 12 volts, negative ground
 Alternator 12 volt, 65 amp
 Battery (1) 12-volt 650 cold-cranking amps

TIRE SELECTION

Type (tubeless)	Ply Rating
10.00 x 16.5 lug-type flotation.....	6
10.00 x 16.5 heavy-duty lug-type flotation.....	8
10.00 x 16.5 cushion non-pneumatic.....	NA
7.50 x 15 cushion non-pneumatic.....	NA
7.00 x 15 steel cap.....	6

LOADER PERFORMANCE SPECIFICATIONS

Lift capacity to maximum height 2,350 lb
 Operating load 1,200 lb
 Tipping capacity 2,400 lb
 Breakout force
 Tilt cylinder 3,066 lbf
 Lift cylinder 2,773 lbf
 Cycle times w/rated loads
 Raising time 4.4 sec
 Lowering time (power down). 2.3 sec
 Rollback time 1.4 sec
 Dump time 2.2 sec
 Unit w/full fuel, 175 lb operator, 54" dirt bucket,

LOADER BUCKETS

Bucket Width	Struck Capacity	Heaped Capacity	Weight
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DIRT

54"	7.9 ft ³	10.1 ft ³	343 lb
63"	9.1 ft ³	11.9 ft ³	374 lb

UTILITY

54"	13.7 ft ³	17.0 ft ³	428 lb
63"	15.9 ft ³	19.8 ft ³	462 lb
74"	18.5 ft ³	23.1 ft ³	496 lb

BACKHOE BUCKETS

Bucket Width	Struck Capacity	Heaped Capacity	Weight
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D100/D100 XR TRENCHING

13"	1.13 ft ³	1.42 ft ³	98 lb
18"	1.62 ft ³	2.04 ft ³	116 lb
24"	2.29 ft ³	2.88 ft ³	138 lb

D100/D100 XR BELLHOLE

12"	1.05 ft ³	1.31 ft ³	80 lb
18"	1.60 ft ³	1.96 ft ³	107 lb
22"	1.90 ft ³	2.40 ft ³	120 lb

BACKHOE PERFORMANCE DATA

BACKHOE	D100	D100 XR
Overall operating height	99.5"	124"
Loading height	47"	72.5"
Digging radius.....	114"	137"
Transport length.....	167"	171"
Digging depth.....	94"	111"
Stabilizer spread		
Working -		
Fold-down	91.2"	91.2"
Vertical	42.3"	42.3"
Transport -		
Fold-down	62.5"	62.5"
Vertical	52.8"	52.8"
Digging force - bucket	5,380 lbf.....	5,380 lbf
Digging force - dipper.....	2,380 lbf.....	2,380 lbf
Backhoe weight w/o bucket.....	1,135 lb	1,311 lb

NOTE: Unit equipped with 24" trenching bucket w/teeth, 10.00 x 16.5 tires and standard equipment;
Backhoe main relief set @ 2000 psi

DIMENSIONS

Overall operating height	145.5"
Height to bucket hinge pin.....	110.5"
Height to -	
top of ROPS.....	77"
loader arm fully raised	105"
Overall length w/o attachment w/Case coupler	96.5"
Overall length w/bucket on ground.....	125"
Dump angle at maximum height	42.5°
Dump height, loader arm at maximum height	84" @ 40°
Reach - fully raised.....	22" @ 40°
Reach attachment on ground	49.7"
Maximum rollback, attachment at full height	100°
Maximum rollback, attachment on ground	29°
Wheelbase	37"
Ground clearance.....	6.5"
Clearance circle front less bucket	44"
Clearance circle front -	
w/54" dirt bucket.....	73"
w/63" dirt bucket.....	74.8"
Clearance circle rear.....	59"
Overall width -	
w/7.00 x 15 tires	54"
w/10.00 x 16.5 tires	59.9"
Tread width -	
w/7.00 x 15 tires	45.7"
w/10.00 x 16.5 tires	48.9"
Operating weight*.....	4,950 lb

NOTE: Dimensions taken with dirt buckets.

*Unit with full fuel, 175 lb operator, ROPS, standard equipment and 54" bucket.

CASE CORPORATION

700 STATE STREET
RACINE, WI 53404 U.S.A.

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CASE CANADA CORPORATION

3350 SOUTH SERVICE ROAD
BURLINGTON, ON L7N 3M6 CANADA

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