CASE

- 14½ backhoe or 16½ Extendahoe
- 3800 lb. Hydra-leveling® Loader
- 52† HP gasoline or diesel engine
- Transmission: 8 speed direct drive with shuttle or 4 speed with torque converter and power shuttle

CONSTRUCT LOADER / BACKHOE

FEATURES

- Strength, ruggedness and versatility to match big loading or trenching assignments. Capable of matching anything in its class and even many much larger outfits.
- Case-built gasoline or diesel engine. Both high in efficiency, low on fuel con-sumption. Develop peak torque at ¾ rated rpm. Plenty of lugging power. Safety starting.
- 4-speed transmission with full power shuttle and torque converter. Power shuttle eliminates clutch-ing. Torque converter in-creases loader push power as needed to match load requirements.
- Manual 8-speed synchro-nized shuttle transmission with direct drive. Right speed for any job need.
- Massive alloy steel, box section design boom. Hardened pins and re-placeable bushings at points of greatest stress. Exposed cylinders for time-saving, easy maintenance. Wide selection of alloy steel buckets.
- 190° foot-controlled swing or dual-lever hand control for operation of swing, boom, crowd and bucket action. Precise cut-ting. Extra fast for more dig-dump cycles per hour.
- Hydra-leveling® Loader. 3800 lbs. lift to full height, 7400 lbs. breakout with backhoe attached. Bucket rolls back 40°, stays level to full dump height. Single lever loader control and bucket return-to-dig feature help simplify operation and speed production. Choice of buckets to ½ cu. yd., SAE rated nominal heaped capacity. Also 4-in-1® bucket.
- One hydraulic system serves both loader and backhoe. No-lag hydraulics permit continuous oper-ation, even after dropping the bucket fast.
- Hydrostatic power steer-ing. Takes the work out of maneuvering. Ideal for close quarter jobs and for production loading.





LOADER OPERATING DATA

†*Dump clearance at maximum height — 45° dump	8'71/2"
†*Dump reach at maximum height — 45° dump	411/ "
Dump reach at / dump neight — 45 dump	771/ "
*Reach — bucket on ground	// /8
*Bucket rollback (at ground line) 40° (at 18"	
*Digging depth below ground line — bucket flat	43/4"
*Maximum dump angle at maximum height	45°
Grading angle	
*Breakout force, maximum (with backhoe)	7400 lbs.
"Maximum lift capacity to full height - rear of unit not tied	
*Raising time - from ground line to full height (bucket em	
*Dumping time (full bucket)	
*Lowering time (power down, bucket empty)	3.0 sec.
†See loader specification sheet for details.	

BACKHOE/LOADER OPERATING			
	Standard Backhoe		ndahoe (Extended)
*Overall reach (from tractor rear axle) *Digging radius (from swing pivot) Digging depth — *IEMC rated Mfrs. rated	17'11/2"	20'1 ½" 17'1 ½" 14'0" 14'4"	22'1/4" 19'1/4" 16'0" 16'4"
Loading height (clearance) *IEMC rated Mfrs. rated *Loading reach	10'13'4" 10'81/2"	10'13'4" 10'81'2" 7'1"	11'5" 11'5" 9'5½"
*Swing arc (uninterrupted without change of linkage) *Bucket arc		190° 157°	190° 157°
(operating position)	81"	8'11" 81" 9640 lbs.	8'11" 9640 lbs.
Pryout force (depending on location of fulcrum under bucket) Lift capacity (boom and		6,000 lbs. or n	nore
dipper arm fully extended) Maximum grade on which backhoe		2000 lbs.	1500 lbs.
will make vertical cut	12°	12°	12°



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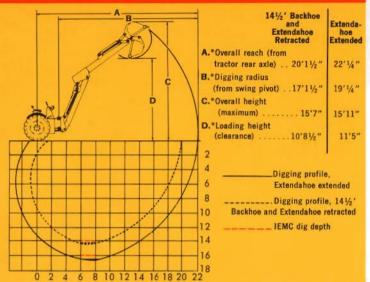
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†See specifications reverse side

SPECIFICATIONS

CONSTRUCTION KING LOADER / BACKHOE



nodel)	hrakes With	64" " to 79%" 71" to 79"77"15½"
APACITIES AE rating	Struck	
18 cu. ft. 20 cu. ft. 34 cu. yd. 18 cu. yd.	15.372 cu. ft. 17.510 cu. ft. 17.807 cu. ft. 20.016 cu. ft.	538 lbs. 550 lbs.
% cu. yd. 15 cu. ft. tread is used	21.962 cu. ft. 10.422 cu. ft.	
Standard Backhoe . 15'7	(Retracted) (I 15'7" 1	Extended) 5'11"
֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	with ound 3 77%6" 4,000 lbs. PPACITIES AE rating inal heaped) 18 cu. ft. 20 cu. ft. ½ cu. yd. ½ cu. yd. ½ cu. yd. ½ su. yd. ½ standard Backhoe	inal heaped) 18 cu. ft. 15.372 cu. ft. 20 cu. ft. 17.510 cu. ft. 4 cu. yd. 17.807 cu. ft. 4 cu. yd. 20.016 cu. ft. 15 cu. ft. 10.422 cu. ft. tread is used. AND WEIGHTS Standard Backhoe (Retracted) (I. 15'7' 15'7" 1

LOADER/BACKHOE DIMENSIONS A	ND WEIGHT	S	
(with standard equipment)	Standard	Ext	tendahoe
	Backhoe	(Retracted	d) (Extended)
Overall height (maximum)	. 15'7	15'7"	15'11"
(*travel position)		12'10"	
Overall width (travel position —		12 10	
stabilizers raised)	81"	81"	81"
Width at rear wheels		77"	77"
Overall length (short lip bucket)		21'7"	
(long lip bucket)		22'1"	
††Approximate shipping weights:			
With converter			
Gasoline	. 9220 lbs.	9:	300 lbs.
Diesel	. 9420 lbs.	9!	500 lbs.
Less converter			
Gasoline	. 9100 lbs.	9:	180 lbs.
Diesel		93	380 lbs.
††Shipping weights include standar bucket plus 24" backhoe trenchin	rd equipment	and 73"	long lip loader
*BACKHOE BUCKETS	_		

BACKHUE	DU	UNE	13							
12", 18",	24"	and	36"	trenching.	12",	16",	30"	and	36"	bellhole

bucket plus 24 backnoe trend	ining bucket.	
*BACKHOE BUCKETS		
12", 18", 24" and 36" trenchin	g. 12", 16", 30" and	36" bellhole.
ENGINE	Gasoline	Diesel
Make and model	Case G159	Case G188
*Fuel	gasoline, reg.	diesel, No. 2
@ 2100 rpm w/torque conv.	52	52
@ 1900 rpm w/direct drive		48.0
§§*Horsepower, SAE net		
@ 2100 rpm w/torque conv.	46.0	46.5
@ 1900 rpm w/direct drive	42.5	43.0
Torque, maximum, lbsft.	100 @ 1050	100 @ 1050
\$ea level @ 60°F	139 @ 1250 rpm 122 @ 1250 rpm	139 @ 1350 rpm 124 @ 1300 rpm
Torque, governed rpm, lbsft.	122 @ 1250 rpm	124 @ 1300 fpiii
Sea level @ 60°F.		
(with torque converter)	130 @ 2100 rpm	130 @ 2100 rpm
(with direct drive)	132 @ 1900 rpm	133 @ 1900 rpm
*500' altitude @ 85°F.		
(with torque converter)	115 @ 2100 rpm	117 @ 2100 rpm
(with direct drive)	117 @ 1900 rpm	117 @ 1900 rpm
*Bore and stroke	3½" x 4½"	313/6" x 41/8"
*Displacement (cu. in.)	159	188
Compression ratio	7.4 to 1	17.5 to 1
Starting	12 V electric	12 V electric

Battery 55 amp. hrs. (1)
Fuel induction up-draft carburetor

Fuel supply Ignition
Air cleaner
Oil filter — full flow type

pump

Cooling system, type

Governor . Lubrication

gravity feed injection coil and distributor diesel oil bath renewable cartridge mechanical flyweight positive pressure pressurized, 4 psi impeller, permanently lubricated bearing

105 amp. hrs. (4)

injectors (4)

§Manufacturer's rating of maximum engine horsepower at flywheel when equipped with oil, water and fuel pumps, with fuel set at approximate mean delivery. Corrected to sea level — 29.92" Hg. and 60°F. dry air.

§§SAE net flywheel horsepower of engine as applied to this vehicle when equipped with operating accessories including oil, water and fuel pumps, generator, air cleaner, fan and muffler. Corrected to 500' altitude with .38" Hg. vapor pressure (29.38" Hg. observed barometer) and 85°F, air (per SAE J816a).

*FUEL TANK (capacity): U.S. gal22	Imperial gal 181/3
STEERING	
Type (standard)	

BRAKES
Foot, hand/disc. Individual rear wheel, lock together for park or travel, parking lock

*Standard transmission: 8-speed sliding spur gear with dual range lever, synchronized shuttle shift and ferrometallic clutch.

Optional transmission: 4-speed sliding spur gear with full power shuttle and torque converter.

*Torque converter: Single-stage hydrokenetic type (2.31 to 1 ratio).

*Final drive: Spur gear.

*Clutch: Foot operated, mechanical, single plate, dry disc, 11" diameter with ferrometallic lining (with standard transmission).

*Shuttle: Standard — synchronized sliding gear (manual).
Optional — full power (hydraulic clutch).

*TRAVEL SPEEDS (mph)

STANDARD: With synchronized shuttle shift transmission and direct drive @ 1900 engine rpm, 14.9 x 24 tires.

v range	1st	2nd	3rd	4th
wardverse		3.3	4.0 5.0	11.7 14.5
ect range				
ward	2.8	5.3	6.5	18.8
verse	3.4	6.7	8.1	23.4
				53

OPTIONAL: With power shuttle transmission and torque converter @ 2100 engine rpm, 14.9 x 24 tires.

1st	2nd	3rd	4th
Forward3.1	5.9	7.2	20.8
Reverse	7.1	8.6	24.9

*TIRES	
Standard: Front 7.50 x 16, 10 ply (l ₁)	Rear 14.9 x 24, 6 ply (R ₄)
Optional: Front Rear	. 7.50 x 16, 10 ply, truck tread
Rear	
	14 0 × 24 6 ply (P.)

Rear		 14.9 x 24, 6 ply (R ₁) 14.9 x 24, 6 ply (R ₃)
*TREAD: Front	53"	62"

*Cylinders: Double acting with hardened and chrome-plated rods to resist damage, increase strength and resist corrosion.

Boom cylinder (1) 4" dia. x 35½" stroke, 2" rod Crowd cylinder (1) 4" dia. x 35½" stroke, 2" rod Bucket cylinder (1) 3½" dia. x 27½" stroke, 1¾" rod Swing cylinders (2) 4" dia. x 11" stroke, 1¾" rod Stabilizer cylinders (2) 3½" dia. x 16¾" stroke, 1¾" rod

Cylinder design and packing: Easy-to-service with threaded end cap. Hard-ened and chrome-plated rods. Cylinder equipped with two-way, triple-seal packing and phenolic guide rings for positive action. Nylon wiper rings and self-locking cap screw or nut on rod with "U" cup packing.

Reservoir: 11 U.S. gallons refill capacity with *40 micron element on return side. Condition gauge for filter.

*Pump: Front-mounted, direct-drive, gear-type. 20 gpm capacity @ 1900 rpm (direct drive models) or 22 gpm @ 2100 rpm (torque converter models) @ 2200 psi with Case Hi-Lo TCH oil.

Backhoe control valve: Heavy-duty, six-spool sectional valve. Exclusive foot swing pedals (dual-lever control optional) control backhoe swing with cushioned stops. *Relief valve pressure set at 2200 psi @ 22 gpm.

Hydraulic lines: Steel tubing with brazed or flared fittings and wire-braid, high pressure hose with crimped, full-flow fittings.

NOTE: Data taken with 78%" short lip loader bucket and 24" backhoe trenching bucket.

STANDARD EQUIPMENT
All tractor and loader standard equipment plus 14½ 'Case-built easy on/off backhoe, less bucket. Stabilizer pads. Exclusive foot-controlled swing. Deluxe, single, swing-around seat for loader or backhoe operation (except on models with PTO or Draft-o-matic).

on models with PTO or Draft-o-matic).

OPTIONAL TRACTOR EQUIPMENT
R. and R₃ rear tires. Truck tread front tires. Pre-cleaner for engine. Wheel weights (front and rear). Differential lock. PTO (standard or independent for direct drive models—independent on torque converter models). Remote hydraulics (dual). Swinging drawbar (for field installation). Torque converter with power shuttle and 4-speed transmission. Anti-freeze to —40°F. 580 lb. front counterweight. Combination rear stop and taillight. Warning light and flasher attachment. Engine block heater. Horn. Locking gas cap. Directional signals. 3-point hitch with Draft-o-matic hydraulic control and matched equipment including Case-Danuser landscaper's blade, scarifier-scraper-rake and Case agricultural equipment. Side mounted rotary and sickle bar mowers. Rear-mounted rotary mowers. ‡Snow plow. ‡Drop hammer.

‡Equipment approved for use with the 580 Construction King, but not manufactured or warranted by J. I. Case Co. See your dealer for details.

OPTIONAL BACKHOE EQUIPMENT

16½' Extendahoe (use of front counterweight recommended). Backhoe dipper light. Street-cemetery pads for stabilizers. Rubber pads for street-cemetery pads. Quick-detach counterweight for use when backhoe is removed. Dual-lever backhoe control. Heavy-duty points for backhoe bucket teeth (field installation only). 1860 lb. quick-detach rear counterweight.

*These specifications conform to IEMC definitions. IEMC definitions are not established for specifications not preceded by an *.

IMPORTANT

J. I. Case Co. reserves the right to change these specifications without notice and without incurring any obligation relating to such changes.

SOLD AND SERVICED BY

. 52† hp gas or diesel engine

- · Choice of transmissions
- . 34,000 lb. dynamic load front axle
- Effortless Hydrostatic power steering

CONSTRUCTION

FEATURES

- Here is a rig particularly well suited to pulling tamp-ers, rollers, water wagons, scrapers, mixers, disks. A highly versatile unit on park maintenance and pub-lic works projects. Surpris-ingly low priced.
- 52 hp gasoline or diesel engine. Both are Case-built, big bore, long stroke per-formers that supply plenty of power. Low maintenance features include aluminum pistons and pressure lubri-cation with full-filtered oil.
- Choice of transmissions.

 4-speed forward and reverse with full power shuttle and torque converter or 8-speed synchronized shuttle with direct drive. Torque converter automatically matches power to loads. Power shuttle provides direction change without clutching. 8-speed transmission matches speed to individual job needs.
- Massive front axle. Made from solid alloy steel with dynamic rated load capacity of 34,000 lbs. Heavy-duty spindles and bearings absorb shock, twist and strain.
- Hydrostatic power steer-ing. Effortlessly turns front wheels full left to full right in just 2³/₄ turns of the steering wheel.
- Suspended clutch and Suspended clutch and brake pedals provide extra operator leg room. On torque converter models, left foot pedal serves as master brake with clutch cutout. Individual pedals on right provide extra steer-ing assist. Foot controlled differential lock available for both torque converter and direct drive rigs.
- Optional power takeoffs. Transmission-type or independent power takeoffs available for direct drive 580. Independent power takeoff for power shuttle and torque converter.
- Exclusive Draft-o-matic control. Simple, one-lever operation. Fits all Category 1, 3-point hitch fully mounted or semi-mounted ground working tools.
- Wide selection of 3-point hitch matched tools, in-cluding plows, cultivators, scarifiers, scrapers, land-scraper's blades, mowers.



DIMENSIONS (with standard equipment)

*Overall width	.79"
Querall height (to top of exhaust stack)	112 "
*(to top of steering wheel)	11/2"
*Overall length (gasoline)9'8	17/8"
"(to top of steering wheel) .60 *Overall length (gasoline) .9'8 (diesel) .9'10	1/8"
*Ground clearance (at drawbar) 15 *Tread — front	1/2"
*Tread — front	53"
— rear, adjustable (standard)	76"
fixed (optional)	62"
reversible disc (optional)	66"
*Wheelbase (gasoline)	13/16"
(diesel)	37/16"
*Curb clearance circle (without brakes)	0'7"

*TRAVEL SPEEDS (mph)

STANDARD: Synchronized shuttle shift transmission with Ferrometallic clutch @ 1900 engine rpm, 14.9 x 24, R tires.

Low range	1st	2nd	3rd	4th
Forward	1.7 2.1	3.3 4.1	4.0 5.0	11.7
Direct range	710	the alternative of	AT AT THE PARTY	and soft
Forward	2.8 3.4	5.3 6.7	6.5 8.1	18.8

1st	2nd	3rd	4th
Forward	5.9	7.2	20.8
Reverse	7.1	8.6	24.9

*APPROXIMATE SHIPPING WEIGHTS

	With Converter	Less Converter
asoline	3750 lbs.	3630 lbs.
Diesel	3950 lbs.	3830 lbs.

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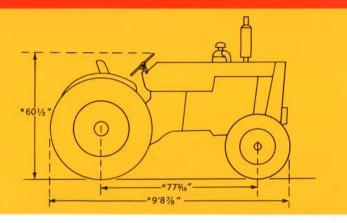
Racine, Wisconsin, U.S.A.



† See specifications reverse side

SPECIFICATIONS

580 CONSTRUCTION KING



ENGINE	Gasoline	Diesel
Make and model	Case G159	Case G188
*Fuel	gasoline, reg.	diesel, No. 2
(1)Horsepower (maximum)		
@ 2100 rpm with		
torque converter	52.0	52.0
@ 1900 rpm with		
standard clutch	47.5	48.0
(2) Rated horsepower (SAE net)		
@ 2100 rpm with		
torque converter	46.0	46.5
@ 1900 rpm with		
standard clutch	42.5	43.0
Torque, maximum, lbs. ft.		
Sea level, 60° F	139 @ 1250 rpm	139 @ 1350 rpm
*500' altitude, 85° F	122 @ 1250 rpm	124 @ 1300 rpm
Torque, governed rpm, lbs. ft.		
Sea level, 60° F	120 @ 0100	120 @ 0100
(with torque converter) (with standard clutch)	130 @ 2100 rpm 132 @ 1900 rpm	130 @ 2100 rpm 133 @ 1900 rpm
*500' altitude, 85° F	132 @ 1900 rpm	133 @ 1900 /pm
(with torque converter)	115 @ 2100 rpm	117 @ 2100 rpm
(with standard clutch)	117 @ 1900 rpm	117 @ 2100 rpm
*Cylinders, no. (valve-in-head)	4	4
*Bore and stroke	3½" x 4½"	313/16" x 41/8"
*Displacement (cu. in.)	159	188
Compression ratio	7.4 to 1	17.5 to 1
Starting	12 volt electric	12 volt electric
Batteries (capacity & quantity)	55 amp.hrs. (1)	105 amp.hrs. (2)
Fuel induction	up-draft carburetor	injectors (4)
Fuel supply	gravity feed	injection pump
Ignition	coil and distributor	diesel cycle
Air cleaner	oil b	
Oil filter, full flow type	renewable	_
Governor	mechanical	
Lubrication	positive p	
Cooling system, type	pressurize	
	impeller, permanently	
(1)Manufacturer's rating of maxi	mum engine horsepor	wer at flywheel when
equipped with oil, water and to delivery. Corrected to sea lev		
(2)SAE net flywheel horsepower	_	•
equipped with operating acces		
generator, air cleaner, fan an	d muffler. Corrected	to 500' altitude with
.38" Hg. vapor pressure (29.3	8" Hg. observed baro	meter) and 85° F air
(per SAE J816a).		
*FUEL TANK (capacity)		22 U.S. gals.
*STEERING		
Type (standard)		hydrostatic
Turning ratio (stop to stop)		
BRAKES		

Foot, band/disc. Individual rear wheel, lock together for

POWER TRAIN

- *Standard transmission: 8-speed sliding spur gear with dual range lever and synchronized shuttle shift. Ferrometallic clutch.
- *Optional transmission: 4-speed sliding spur gear with full power shuttle and torque converter.
- *Torque converter: Single-stage hydrokinetic type (2.31 to 1 ratio).
- *Final drive: Spur gear.
- *Clutch: Foot-operated, mechanical, single plate, dry disc, 11" diameter with Ferrometallic lining (not on converter models).
- *Shuttle: Standard synchronized sliding gear (manual). Optional full power (hydraulic clutch).

*TIRES

Standard: Front	
Rear	14.9 x 24, 6 PR (R _I)
Optional: Front	
Rear	14.9 x 24, 6 PR (R ₃)
	14.9 x 24, 6 PR (R₄)
Dual rear	
	12.4 x 24, 4 PR (R₃)

FRONT AXLE RATING

Dynamic	. 34,000 lbs.
Static	8500 lbs.

STANDARD EQUIPMENT

Choice of Case-built gasoline or diesel engine. Choice of torque converter with power shift shuttle or synchronized shuttle with Ferrometallic clutch. 8-speed transmission or 4-speed transmission. Heavy duty, 34,000 lb. dynamic load front axle with 53" tread. 14.9 x 24, 6 PR (R_I) rear tires. 7.50 x 16, 10 PR (I_I) front tires. 56" to 64" adjustable tread rear wheels. Heavy duty, industrial front grille. Anti-freeze solution to -20° F. Engine oil filter. Air cleaner (oil bath type). Speedometer. Tachometer (engine speed indicator). Hourmeter. Engine oil pressure warning light. Fuel level gauge. Generator warning light and torque converter pressure gauge (torque converter models only). Electric manifold pre-heater (diesel). Rear wheel fenders. Tool box. Fuses. Instrument panel light. Light switch. Two headlamps (shock mounted). Combination rear working light and rear taillight. Hand and foot throttles. Comfortable, weather resistant, easy ride seat (adjustable fore and aft). Floor plates. 12-volt starter, generator and voltage regulator. Hydrostatic steering. Fuel filters (diesel). Suction-type fan. Foot clutch (except on torque converter models). Three foot brake pedals for torque converter models. (Two on right provide independent braking of rear wheels while left pedal engages both wheels simultaneously after interrupting power flow to rear wheels.) Two foot brake pedals for clutch models (two on right provide independent braking of rear wheels). Key switch with safety start mechanism. Heavy duty, swinging drawbar.

OPTIONAL EQUIPMENT

Combination rear stop and taillight. Warning light and flasher attachment. Engine block heater. Horn. Locking gas cap. Directional signals. R_1 and R_4 rear tires. Dual rear wheels. Truck-type tread front tires. Pre-cleaner for engine. Wheel weights (front and rear). Differential lock. PTO (standard or independent for clutch models — independent on converter models). Remote hydraulics. Upright muffler with rain cap. Anti-freeze to -40° F. Rear wheels (62" tread). Rear wheels (58" or 66" tread). 3-point hitch with Draft-o-matic® hydraulic control and matched equipment, including Case-Danuser landscaper's blade, scarifier-scraper-rake, depth gauge wheel. Case agricultural implements. §Side mounted rotary and sickle bar mowers. §Rear mounted rotary mowers.

§Equipment approved for use with the 580 Construction King, but not manufactured or warranted by J. I. Case Company. See your dealer for complete details on these and other items.

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