case

Loader/Backhoe

SPECIFICATIONS 580SK turbo



Courtesy of Machine.Market



From the panoramic visibility to the specially designed suspension seat and easy-access controls, the 580SK turbo is the loader/backhoe of choice for operator comfort and control.

 Window size, shape and location have been designed to provide maximum visibility for all work and transport functions.

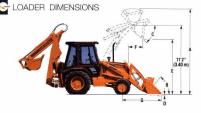


- Easy-to-operate, durable suspension seat with adjustable height and weight controls lessens operator fatique.
- Ample legroom between the seat and ROPS post permits unobstructed operator movement between loader and backhoe controls.
- Powerful cooling and heating system ventilates air through six louvers for a comfortable, year-round work environment. Maximum insulation
- for temperature and sound control.

  Heavy-duty all steel cab roof for safety. Easy mounting antenna and beacon.

- Easy-to-reach loader control lever has convenient transmission disconnect feature to maximize loader productivity.
- Transmission control on the right side of the console is within easy reach. The T-handle shifter has a clutch disconnect button located on the end of the handle to shift gears with ease, increasing tractor response and productivity.
- Power shuttle lever is mounted on the steering column for hands-on forward and reverse operation.
- Low-effort lever reduces operator fatigue and enhances metering for precision backhoe and loader performance.
- Operator warning system monitors vital system functions and alerst the operator with an audible alarm and visual indicator if a problem occurs. The system also tells the operator if the parking brake is applied when the forward/ reverse lever is engaged.
- Gauges and warning lights: Converter oil temperature - Engine coolant temperature - Fuel - Tachometer/hourmeter -Voltmeter - Engine oil pressure - Hydraulic system filter - Transmission oil filter -Air cleaner - Brake fluid level
- Long roof overhang plate acts as a rain deflector when rear window is open. Work lights are located in steel brackets on the front and rear of the cab for added protection.
- There are two control patterns to choose from.
  Atthere-lever control pattern for the boom,
  dippersick and busket includes a foot swing. The
  swing and the three backhoe functions are
  combined in the two-lever worbbestick hand
  control pattern. The Extendahoe' dippersick is
  controlled by a fourth lever on the three-lever
  pattern or by a foot control on the two-lever
  wobblestick pattern.

# Courtesy of Machine.Market



13'11" (4.24 m) ......

B-	Bucket rollback @ groundline	41°	419	45°
C-	Dump angle @ full height	45°		
D-	Dinging denth below grade –			
	Bucket flat		4.6" (117 mm)	4.8" (121 mm)
	Clam open (dozing)	NA NA	NA NA	2.7" (68 mm)
E-				
	Bucket	8°10° (2.69 m)	9'0' (2.74 m)	9'4" (2.84 m)
	Clam open	NA.	NA NA	10°11° (3.32 m)
F-				10 11 (0.02 11)
	Bucket	27" (686 mm)	24" (610 mm)	29' (737 mm)
	Clam open	NA	NA NA	15" (381 mm)
G-				10 (001 1111)
_	bucket on ground	74" (1.88 m)	71 3" (1.81 m)	70° (1.78 m)
	Lift capacity to full height	5 500 lb (2495 kn)	5.500 lb (2495 kg)	5.080 lb (2304 km)
	Height to bucket hinge pin raised			
	Breakout force (dump cylinders)			
	Cutting edge width -		3,400 tal (41 304 l4)	2.000 IDI (40 000 IV)
	Bucket	82" (2.08 m)	90° (2.29 m)	82° /2 08 m)
	Maximum grading angle	1150	1450	1000
	Dozer (clam open)	61A	MA	91 21 /2 07 m)
	Maximum clam opening	NA SIA	M.G.	27° (040 mm)
	Moldboard height	NA.	816	24° (994 mm)
	Deletes they to full beliefet	F.4	F. 5	34 (004 IIIII)
	Raising time to full height	5.4 800		5.4 500
	Bucket dumping time	1.3 880	1.3 Sec	1.3 500
	Lowering time, power down	2.7 Sec	2.7 SeC	2./ sec
	Lowering time, return-to-dig	3.1 Sec	3.1 SEC	3.1 sec

General Purpose 82" (2.08 m) General Purpose 90" (2.29 m) 4-in-1" Bucket

13'11' (4.24 m) .....

... 14'1' (4.29 m)



A- Overall operating height

## - OPERATING WEIGHT

Base Loader/Backhoe: 2WD, loader/backhoe, 82" (2.08 m) standard loader bucket, front 400 lb (180 kg)

Cab
4-in-1 bucket
Eventalishe (see counterasion)

Extendalnoe (less counterweil Courtesy of Machine. Market 480 lb (218 kg)

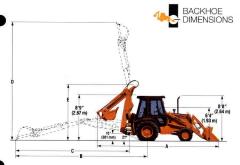
Extendalnoe counterweil Courtesy of Machine. Market 500 lb (227 kg)

13,426 lb (6090 kg)

486 lb (220 kg)

477 lb (216 kg)

551 lb (250 kg)



		Standard Backhoe	Retracted	Extended
A-	Overall length - transport			
	General purpose bucket	22'7" (6.88 m)		NA
	4-in-1 bucket			
	Overall reach from -			
B-	Rear axle centerline	21'8" (6.60 m)		
C-	Swing pivot	18'0' (5.49 m)		21'10' (6 66 m)
D-	Overall height, maximum	19'2" (5.85 m)	19'6" (5.94 m)	22'10' (6.97 m)
E-	Transport height	10°10° (3.29 m)	11'3' (3.42 m)	NA NA
	Overall width — transport	86° (2.18 m)	86° (2.18 m)	86° (2.18 m)
	Angle of departure	21°	210	210
	Height -		The state of the s	The state of the s
			8'8" /2 64 m)	NA
	To top of cab		8'9' (2.67 m)	NA.
	To top of exhaust stack	8'8" (2.64 m)	8'8' (2.64 m)	NΔ
	To top of steering wheel		6'4' (1.93 m)	NΔ
	Ground clearance at -		The state of the s	
	Tractor transaxle	13" (330 mm)	13° (330 mm)	MA
	Backhoe frame	15° (381 mm)	15' (381 mm)	NΔ
	Front wheel tread -	and the second second		
	2WD	67.5° (1.71 m)	67.5" (1.71 m)	NΔ
	4WD	67.8° (1.72 m)	67.8" (1.72 m)	NΔ
	Rear wheel tread	61.2° (1.56 m)	61.2" (1.56 m)	NA NA
	Wheelbase -		minimi one (noo mj	
	2WD		84° (2.13 m)	NA.
	4WD		84 5" (2.15 m)	NA.

Extendahne\*

Note: Specifications taken with 111.x 16. ToPR front tires (except that data marked 4WD is taken with 12 x 16.5 front tires), 19.51.x 24.8 PR rear tires, ROPS cab. 14' (4.27 m) backhoe with 24' (610 mm) heavy-duty trenching bucket, loader with 82' (2.08 m) general purpose bucket and standard equipment unless otherwise specified.





Serviceability is an important consideration when buying a loader/backhoe. The Case exclusive tilt-up hood and ground line servicing make daily maintenance fast and easy for minimum downtime.

- Easy-opening tilt hood allows quick access to the engine for service and maintenance – can be opened from either side of the unit.
- The heavy-duty tilt hood assembly has cylinder assist for low lift effort.
- Heavy-duty, all steel grille is separate from the hood for easy access to the radiator and hydraulic cooler.

   Thick, rubber bumpers mounted directly to the radiator wrapper and grille nose cone project.
- the hood and maintain alignment of the hood and side panels. Bumpers are easily replaced.

  Bumpers, grille, radiator wrapper, hood and side panels are attached to the tractor frame. Hood and side panels pivol off the lower front

corner for easy hood adjustment.

### SERVICE CARACITIES

SERVICE CAPACITIES		
	U.S.	Liters
Fuel Tank	25.0 gal	94.6
Hydraulic Reservoir		
Total hydraulic system	29.0 gal	109.8
Transaxle (includes shuttle.		
transmission, differential,		
final drives & brakes)		
w/filter	47.6 qt	45.0
w/o filter		
Total transaxle system	57.1 qt	54.0
Engine oil w/filter	11.6 q1	
Cooling System		
w/heater	17.9 qt	16.9
w/o heater	17.2 qt	

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You depend on the front end of your loader/ backhoe to perform a variety of tasks. The 580SK turbo assures you'll get the job done nuickly and efficiently

- · Increased push power and a new torque converter combined with 4WD means 25% more torque going to the wheels for increased loader performance. Increased performance allows you to stay in second gear for quick cycle time and operator efficiency.
- . Added tractive effort to fill the bucket means smooth, steady action to reduce stress on the Inader
- . Single-lever lift and tilt control with positive hold "float" and "return-to-dig" position moves. with a minimum of lever effort. A second lever controls optional auxiliary hydraulics when operating 4-in-1 bucket clam or front-end attachments. Valve kit is available for running hand-held tools
- · "Return-to-dig" feature and forward/reverse shuttle shift shortens overall cycle time for maximum productivity in loader applications Loader sneed is also matched to ground sneed for faster work cycles.
  - · Dual parallel dump cylinders and reverse linkage provide superior breakout force and faster dump time. Reverse linkage allows loader bucket rollover for dozing and added stability in backhoe applications. When bucket is in the rollover position, cylinder rods are retracted for protection against the twisting forces of dozing with the loader and digging with the backhoe The cylinder design provides exceptional visibility to the bucket for grading, as well as loading trucks
- . Loader arms and dual dump links support the bucket with 4-point mounting to resist twisting forces when corner loading - also allows materials such as pipe or plywood to be carried across the dump links.



- . Lift capacity is rated at 5,500 lb (2495 kg) at full height for the general purpose bucket and 5,080 lb (2304 kg) for the multi-purpose 4-in-1 bucket
- . Maximum dump height and reach makes unloading into trucks easy. A heavy-duty all steel front grille and thick, replaceable humper guards on the nose cone minimize the chance for front-end damage when approaching trucks to dump
- · Positive hold control position allows the loader to "float" over the ground contour in cleanup applications.
- . Automatic self-leveling of the bucket throughout the hoist cycle reduces spillback and maintains control of the load
- . Clutch cutout button on the loader control lever disengages the transmission to give maximum engine horsepower to the loader hydraulics for fast cycle times. Releasing the clutch cutout button returns power to the drivetrain.
- . The Case FACT System (Fast Attachment Coupling Team) allows quick changing of attachments for increased machine utilization



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- 6. Loader becket is an ground.

BO	0	M	L	IF	7
				Н	e

### aht Above & Below Ground Level +16' (+4.88 m) +14' (+4.27 m)

- +12' (+3.66 m) + 8' (+2.44 m) Ground Level
- 8' (-2.44 m) -10' (-3.05 m)
- -14' (-4.27 m)
- DIPPER LIFT

### +12' (+3.66 m)

+1	0	(+3.05	m)
+	8	(+2.44)	m)

4,130	Ib	(1873	kg)
3,910	Ib	(1774	kg)
4,000	lb	(1814	kg)

Standard Backboo

1,980 lb (898 kg)

2.270 lb (1030 kg)

2.300 lb (1043 kg)

2,090 lb (948 kg)

1,960 lb (889 kg)

Cour	tesy of Mac	hine.Mark	et 80 10 (1170 kg)
( C' ( 1 92 m) -	A 440 Ib (0014 be)	. MODO II. (MODE 1-1-	0.500    (4470   )
+ 8' (+2.44 m)	4,000 lb (1814 kg)	3,650 lb (1656 kg)	2,470 lb (1120 kg)
+10' (+3.05 m)	3,910 lb (1774 kg)	3,550 lb (1610 kg)	2,370 lb (1075 kg)
+12 (+3.00 III)	4,130 ID (1073 Kg)	3,000 ID (1000 Kg)	2,350 ID (1066 Kg)

Betracted

1,550 lb (703 kg)

1.840 lb (835 kg)

1,650 lb (748 kg)

1,550 lb (703 kg)

Extended					
900	lb	(408	kg)		
1,160	lb	(526	kg)		
1,230	lb	(558	kg)		
1,250	lb	(567	kg)		
1,170	lb	(531	kg)		
1,120	lb	(508	kg)		

Extendahne®

1,610 lb (730 kg) 2.350 lb (1066 kg) 2,370 lb (1075 kg) 2,470 lb (1120 kg)

1,180 lb (535 kg)







		Extenda	hoe*
	Standard Backhoe	Retracted	Extended
Digging depth			
	14'3' (4.35 m)	14'8" (4.47 m)	18'2' (5.54 m)
SAE, 24' (610 mm) hat bottom	14'5' (4.39 m)	14'10' (4.51 m)	18'3' (5.57 m)
Querall reach from			
Rear axie centerline	21'8' (6.60 m)	22'0' (6.71 m)	25.5° (7.76 m)
Swing phot	18'0' (5.49 m)		21 10 (6.66 m)
eading height	9°6° (2.90 m)	10'0' (3.06 m)	11 10 (3.63 m)
Loading reach Swing arc	5'6' (1.68 m)	6'3' (1.90 m)	9'3' (2.82 m)
Purios are	180°	180°	180
64	1850	180°	180
#2 position	1600	160°	160
Stabilizer spread, SAE Operating position	0.61 (0.07 m)	0'5" (2.97 m)	9'5' /2 87 m
Operating position	95 (2.07 111)	7/2" (2.17 m)	7'2" /2 17 m
Transport position	/ 2 (2.1/11)	/ 2 (2:17 111)	
Digging force, bucket cylinder, SAE			
24" (610 mm)			

24' (10 mm) Universal heavy-duty bucket w/coupler \_ 10,760 lbf (47 863 N) \_ \_ 10,760 lbf (47 863 N) \_ 10,760 lbf (47 863 N) \_ \_ 10,760 lbf (47 863 N) \_ 10,760 lbf (54 058 N)

Leveling angle (maximum significant feet) of Machine.Market

- Case buckets and the quick coupler are designed to give you a full range of working positions for improved productivity in straight wall trenching, spoil retention when loading trucks and maximum breakout force.
  - Instructionally telescoping Estimation dispersible, lets you'de desper and reach further to unload. Can be used in its retraction season of 1.8° (2.4° m) or at any point up to season or 1.8° (2.4° m) or at any point up to season or 1.8° (2.4° m) or at any point up to Estendables dispersible of the ability to give straight down — are advantage in street repair because it reduces bearing up targe sections of parement. The extra reach makes it easier to unload rist tracks with high males, or a track to be prevent sides from occurring. It also reduces the number of times are the reductions for parement of times are the reductions.



Case backhoe buckets carry a full one year warranty

### ACCORDINATE OF THE PARTY OF THE

- Standard quick coupler enables fast, easy bucket or attachment changes by simply removing one gin and rolling out the bucket.
- Case cylinders are designed to provide maximum life. The inner sleeve and wear pads are protected from abrasive materials.
- Optional stabilizer pads include a cleated dirt pad, a flat cemetery pad with heavy-duty rubber





Maximum productivity and minimum operator fatigue make the performance of the 580SK turbo backhoe unsurpassed in the 14-foot class.

- The fixed flow, 36 gpm (136 L/min) hydraulic system provides quick response and fast cycle times.
- Open-center design of the hydraulics provides precision control and allows the operator to "feet" with the backhoe.
- Cast ductile iron swing tower, boom, dipperstick and stabilizers provide the maximum in strength and durability because ductile iron provides smooth stress flow throughout the length of the component.
- Boom, dipperstick and bucket each use a single cylinder for improved visibility to the trench – the widest point is 11° (279 mm). Hoses are routed so they don't rub or pull from their housings, and can easily be reached for maintenance or repair.

- A three-lever control pattern for the boom, dipperstick and bucket includes a foot swing.
   The swing and the three backfloe functions are combined in the two-lever wobblestick hand control pattern. The Extendable feature is controlled by a fourth lever on the three-lever pattern or by a foot control on the two-lever wobblestick pattern.
- A 9'5' (2.87 m) wide stabilizer operating stance and front-end loader rollover bucket capability securely stabilize the machine during backhoe digging operations.
- Over-center backhoe transport position distributes the weight of the hoe toward the front of the tractor for improved overall stability. Over-center design also increases bucket clearance and reduces overall length for moving around restricted job sites.
- Dual cylinder swing system with Case-designed sequencing valve provides constant swing torque and precise control



. Modulation in the shuttle shift produces smooth cycle times for maximum productivity.

. Maintenance-free, self-adjusting, inhoard, mounted, wet disc brakes are hydraulically actuated. They can be operated individually for pivot turns, or simultaneously for normal braking

· Front wheel mechanical drive is easily engaged by a lever located on the front control console. The heavy-duty front axie with outboard planetary drive provides added tractive effort for maximum loader push and rough terrain capability.

. Heavy-duty driveline guard is standard on all 4WD machines

. Stay in second gear for quicker loader cycle time and increased operator efficiency.

. Single stage torque converter with 2.86-tp-1 stall ratio reduces shock loads placed on powertrain components by automatically adjusting torque to handle heavy workload conditions at peak engine efficiency.

. The shuttle transaxle incorporates the inhoard planetary drives for reduced near loading in severe loader applications.

# ELECTRICAL

Voltage 12 volts, negative ground Alternator 65 amn Battery . ... Maintenance-free 685 cold-cranking amps @ 0° F (-18° C)

### TRAVEL SPEEDS mph (km/h)

14.1 (22.7) 24.7 (39.9) Forward 7.4 (11.9) 16.8 (27.1) 29.6 (47.8) everse

ote: Engine at full throttle, 19.5L x 24, 10PR rear tires, Travel ds will decrease with smaller 17.5 x 24 tires

### TIRE SIZE

17 51 x 24 19 51 v 24

11L x 16





Courtesy of Machine. Market



Utilizing the advanced engineering technology that has made Case an industry leader, the Case 4T-390 diesel engine has proven to be reliable and efficient. The turbo maintains maximum road speed, no matter what the load or the terrain.

 Integral design of the oil and coolant pumps incorporates components into the engine block.
 Heat buildup and wear are reduced because of fewer moving parts which means low operating cost and quick maintenance.



- Deep sump provides oil lubrication when operating on slopes up to 45° in all directions.
- The turbo offers increased horsepower and high altitude compensation while assuring fast engine recovery every time without sacrificing efficiency.
- Case backs the performance and durability of this outstanding engine with one of the best warranties in the industry.

 Model
 Case 4T-390

 Cylinders
 4

 Bore/Stroke-in
 4.02 x 4.72 (102 x 120 mm)

 Displacement-in<sup>3</sup>
 239 (3.92 L)

 Horsepower (turbo)\*

85 (63 kW) @ 2200 rpm

.78 (58 kW) @ 2200 rpm

SAE Net .....

Gross...

 Maximum torque ft-lb
 Gross
 234 (317 Nm) @ 1400 rpm

 Net
 224 (304 Nm) @ 1400 rpm

 \*\*Gross engine horsecover or forcus at flowheet per SAE J1349.



# DRIVELINE

Whether you're roading, excavating or loading, the 580SK turbo offers speed and efficiency for smooth operation.

 Increased engine horsepower is matched to a new torque converter. Combined benefit is 25% more push power.



 Fully synchronized 4-speed forward/reverse shuttle transmission with hydraulically actuated clutches and clutch disconnect button allows quick response to changing ground or road conditions.



# 580SK turbo EQUIPMENT DATA

Standard Equipment

Air cleaner: dry type Antifreeze to -34° F (-37° C) Audible warning alarm Backup alarm Fenders: rear wheel Front counterweight

400 lb (180 kg) 900 lb (405 kg) for Extendahoe dipperstick

Hand and foot throttles Hydraulically actuated brakes

Hydrostatic steering Lights:

front, 2 rear flood 2 rear tail/stop 2 front and rear flashers/turn

Lockable neutral start switch Pre-cleaner Retractable seat belt (2")

ROPS canopy Seat

Tilt engine hood Toolbox Torque converter drive

Turbo diesel Vandal protection lockup package

4F/4R powershuttle 65 amp alternator

14" (4.27 m) backhoe or 14'6' - 18' (4.42 m - 5.49 m) Extendance dipperstick Case backhoe bucket coupler Cleated stabilizer pads

Foot swing control

Single-lever control w/bucket position indicator Return-to-dia

### Optional Equipment

Add-on Weight

Lights Mirrors Muffler (spark-arresting) Retractable seat belt (3") ROPS post & fender covers

75 lb (34.0 kg) Special paint Stabilizer pads:

Flat cemetery w/heavy-duty rubber Combination, flip-over Suspension seat w/armrests (vinyl)

Add-on Weight

Loader Standard backhoe Extendahoe dipperstick Beacon - rotating ROPS/cab

Buckets

Auxiliary hydraulics

82" (2.08 m) general purpose 770 lb (349.3 kg) 82" (2.08 m) 4-in-1 (includes hydraulics) 1,130 lb (512 Backhoe: See backhoe section for listing 1.130 lb (512.6 kg)

Cab w/heater, floor mat, lockup, tinted glass

front and rear wiper, pressurization & dome lights.

ILO canopy Cab w/all of the above plus air conditioning Cold start aid (ether) Dual-lever backhoe controls

Floor mat Fuel tank: Auxiliary 8 gal (30.3 L)

5 lb (2.3 kg) 75 lb (34.0 kg)