SERIES 2 BACKHOE LOADERS 580-590 Super R



BACKHOE LOADERS CASE 580 Super R Series 2/ 590 Super R Series 2

NEW BACKHOE "PILOT CONTROL" OPTION

The fully adjustable control lever towers (sideways / backwards & forward) ensure a comfortable working position for all types and sizes of operators. For safety, the pilot control can be disabled. If required, the control systems can be switched between backhoe and excavator patterns to suit all operators.

POWERSHUTTLE OR POWERSHIFT

For comfort, on both models 580 Super R and 590 Super R, there is a **choice of "PowerShuttle" or "PowerShift" transmission** to adapt to different user needs and applications as required.

NEW CAB

Comfortable and safe operation is achieved with **all-round visibility from the cab.** Ergonomics, instrumentation and design have been further improved to enable the operator to safely concentrate on the job at hand. **The rear glass is fully tiltable.**



NEW HYDRAULICS

Effective, comfortable and top quality work can be achieved with the **new flow compensation hydraulics**. This new Load Sensing, flow compensation hydraulic system allows the machines to perform with **co-ordination**, **soft operation and precision in all movements**.

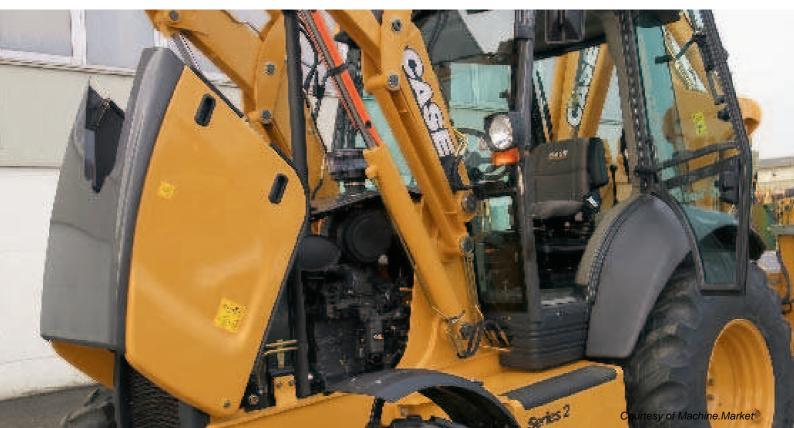
Three pressure control checks are now grouped together making possible an easier and immediate diagnosis in any situation.

On the "Pilot" version an optional additional valve is now available for special attachments (e.g. Auger) which features a proportional control.

NEW TILTING HOOD

The engine tilting hood is **easy to open thanks to 2 handles** on the left side for quicker maintenance. **All checking points can be accessed from the ground.** To prevent vandalism, the bonnet latch has been placed inside the cab.







580 Super R - Series 2 590 Super R - Series 2

Make	CASE - FAMILY III		
Model	445T/M2 445TA/M2		
Туре	Turbo-charged	Turbo-charged intercoole	
Capacity	4.5		
Number of cylinders	4		
Bore x stroke	104 x 132 mm		
Injection system		Direct	
Maximum speed without load	2450±50 rpm	2430±50 rpm	
Power ISO 14396	71 kW/95 hp	82 kW/110 hp	
Rated speed under load	2200 rpm		
Maximum torque, EC/97/68	400 Nm	480 Nm	
Speed at maximum torque	1400 rpm		
Air filter	Dry type - two elements		
Oil filter	Full flow type, with screw-on element		

The engines conform to 97/68/CE Tier 2 standards for reduced pollution. Their reliability and low cost of operation are a byword among Case users.



Two types of transmission POWERSHUTTLE

Туре	PowerShuttle			
Speeds	4 FWD / 4 REV			
Maximum speeds				
FWD 1st, 2nd, 3rd and 4th	6.4, 10.3, 21.9 and 39 kph			
REV 1st, 2nd, 3rd and 4th	7.6, 12.3, 26.2 and 46.4 kph			
Torque converter stall ratio	2.31:1			

Simplicity is also synonymous with strength, that is why CASE uses a mechanical gearbox on its backhoe-loader. It has been tested over long periods and the latest version is the result of long experience.

POWERSHIFT

Туре	PowerShift 4 FWD / 2 REV		
Speed			
Maximum travel speeds			
1st, 2nd, 3rd and 4th	6.3, 11.8, 23.4 et 41.4 kph		
1st and 2nd	7.5 and 14.0 kph		
Stall ratio of torque converter	2.31:1		

The management of the "PowerShift" gearbox provides smooth gearshifts, using synchronised gears for longer life of the mechanical parts and increased convenience for the operator. The inverter lever is ergonomically located to the left of the steering wheel.

HYDRAULIC SYSTEM

Type of numn	Gear	
Type of pump	Gear	
Number of bodies	2	
Maximum flow		
580 Super R	160 l/min	
590 Super R	170 l/min	
Maximum pressure level	210 bar	
Filtration	7μ	

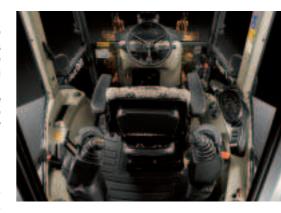
The hydraulic system combines the simplicity and strength of a two body gear pump with the ease of use of a modular type circuit.



The new side instrument/control panel is just one example of CASE's expertise in ergonomics. All the main indicators are centralised in the same visual area around the tachometer. Clear indicators allow the operator to concentrate on the essential task at hand, whilst **the controls are placed in an ergonomic position** close to the operator's hand for both loader and backhoe operation. The **fully glazed cab** gives a **panoramic view over the work area** of both the loader and the backhoe. Access is by two wide doors, with anti-slip steps. The cab structure is certified **ROPS/FOPS**. The **rear window swings up** for easy ventilation.

NOISE LEVELS

LpA (inside) 580 & 590 Super R	77 dBA
LwA (outside) 580 & 590 Super R	105 dBA



CAPACITIES

Fuel tank	128 I
Hydraulic reservoir	55 I
Total hydraulic circuit	118
Engine oil	13.6 l
Cooling system	24 I
Gear box oil	18 I
Front axle 4WD	
Differential	7.0
Final reduction	0.7 + 0.7
Rear axle 4WD	
Total	22.0

The high capacity fuel tank provides long periods of work between fill-ups to reduce stoppage time.



Voltage	12 Volts		
Battery	12 V x 95 Amp/h		
Alternator	90 Amp		



BRAKES

Multi-disc, oil-immersed service brakes on the rear wheels, together with automatic engagement of the front wheel drive, ensure optimum safety in all travel conditions.

Disc diameter	203 mm
Total friction area	2878 cm ²

STEERING

580 & 590 Super R Series 2 Turning radius

at ext. edge of front tyres4250 mmat bucket corner5525 mmat bucket tooth5625 mm

Note: front tyres 12.5/80-18, wheel not braked, 4WD engaged





FIXED REAR AXLE

Lockable differential	100%
4WD OSCILLATING FRONT AXLE	
Oscillation	11° / 11°



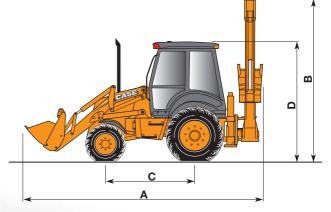
580 e 590 Super R Series 2

4 WD Front	12.5/80 x 18 - 10 PR
4 WD Rear	18.4 x 26 - 10 PR
	16.9 x 28 - 10 PR



GENERAL DIMENSIONS

	Side-shift
Overall length - with standard bucket	5.77 m
Boom height transport position	3.90 m
Wheelbase	2.18 m
Cab height	2.90 m
rerall width - with standard bucket	2.43 m
dth outside tyres	2.23 m
abiliser levelling compensation angle	14°
	Overall length - with standard bucket Boom height transport position Wheelbase Cab height verall width - with standard bucket dth outside tyres abiliser levelling compensation angle





WEIGHT

In the Sideshift version, with the standard tooth loader bucket, 610 mm rear bucket, full fuel tank and operator (75 kg).

580 & 590 Super R Series 2

4 WD, standard dipper/Ext.

kg 7910 / 8140

LOADER AND BACKHOE EQUIPMENT

LOADER

All the controls for the loader attachment are centralised on a single control lever ergonomically located to the right hand of the operator. Using simple movements the operator can safely control the loader arm, the bucket and the opening/closing of the 4X1, using just one lever. This allows for concentration on his work and on the area surrounding the machine.

The PowerShift version is equiped with an additional switch on loader lever to engage the rear lock differential.

LOADER ATTACHMENT	I	Digging buket	4 in 1 buket
A Maximum dump height under bucket at 45°	mm	2685	2693
B Maximum reach with bucket at 45°	mm	830	813
C Maximum height pin	mm	3460	3458
D Maximum bucket height	mm	4250	4405
E Horizontal bucket digging depth	mm	120	125
F Bucket angle (on ground)		43°	43°
Bucket angle (in the transport position)		46°	46°
Lift capacity			
(at bucket load centre of gravity)	kg	4830	4610
Maximum height lifting capacity	kg	3450	3195
Lift force (boom cylinders)	daN	3565	3577
Breakout force (bucket cylinders)	daN	6545	6650



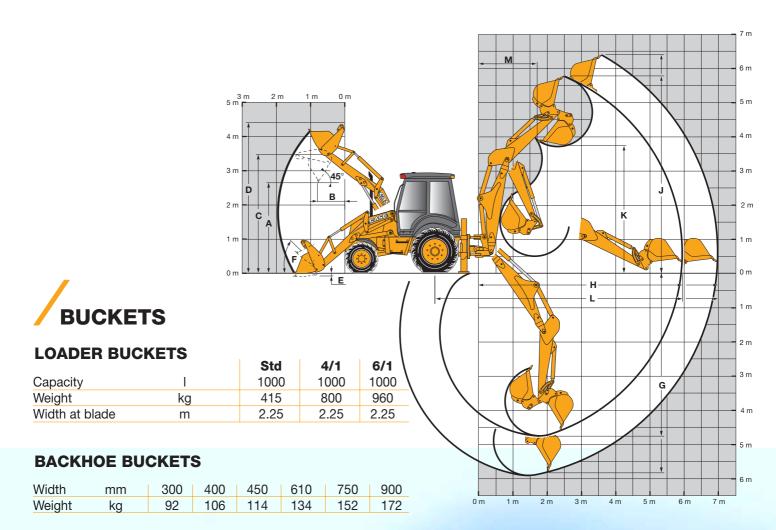
Dimensions and specifications measured as per SAE J 732 c standard using a 4WD backhoe loader.

The reinforced structure of the loader arm gives exceptional rigidity when loading, providing the operator with efficient, precise movements in the toughest conditions. The loader attachment also has two additional functions to provide faster cycles: Float position and automatic return-to-dig.

BACKHOE		MECHANICAL QUICK COUPLER			
		STANDARD DIPPER		EXTENDIBLE DIPPER	
				Retracted	Extended
Swinging angle		180°		180°	180°
G Maximum digging depth	mm	4612		4612	5799
H Maximum reach from swing centre	mm	5906		5906	6992
J Maximum operating height	mm	5837		5831	6537
K Load height	mm	3917		3938	4645
L Maximum reach at rear axle	mm	7231		7231	8317
M Capacity at maximum load height	mm	1828		1787	2757
Central offset	m	0.62		0.62	0.62
Lift capacity at max outreach	kg	1495		1370	1090
Breakout force (bucket cylinder)	daN	5603		5603	5603
Digging force (dipper cylinder)	daN	3744		3775	2643









STANDARD EQUIPMENT

- Mechanical quick coupler
- Loader boom safety support
- Steering wheel spinner knob
- · Heating and defrosting
- Cold start
- Sun shield
- 2 front and 2 rear work lights
- Loader bucket automatic return to dig
- Loader float position
- Left rear view mirror
- Operator safety belt

POSSIBLE ADDITIONAL OPTIONS

- Air-conditioning
- · Compressed air suspension seat
- Tiltable steering wheel
- Right rear view mirror
- Extra cab roof lights
- Front mudguards
- Rotating beacon
- Ride Control
- Hydraulic extendable dipperstick
- On-board hammer circuit
- ISO, SAE, and other loader mechanical controls
- Safety valves for stabilisers, boom and dipper
- Two batteries
- Extreme cold start
- Anti-theft device/alarm
- Rubber street pads
- Industrial or agricultural tyres
- Loader buckets: standard, 4x1, 6x1 with forks
- Backhoe buckets
- · Lift hook on bucket
- ISO or SAE hydraulic backhoe Pilot controls

Standard equipment is subject to change in different countries



SERVICE & SUPPORT

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NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

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Conforms to directive 98/37/CE



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