

SPECIFICATIONS

ENGINE	
Make & Model	TATA 497 TCIC
Type	Turbo Charged, Inter Cooled 4 Cylinder Diesel Engine
Gross Power	86mHP @ 2200 rpm
Max. Torque	31 kg-m
Battery	12 V-130 AH

POWER MODES	
SP - Mode	Super power for extra heavy duty work
P - Mode	For Normal to powerful applications

HYDRAULIC SYSTEM		
Efficient hydraulic system with gear type TANDEM heavy duty pump		
	Flow @ 2200 rpm	Pressure
Backhoe	136 lpm	230 bar
Loader	106 lpm	210 bar
Filter : Return oil, spin-on type, replaceable, 10 micron element.		

TRANSMISSION
TH86 is equipped with fully Powershift transmission sourced from the internationally renowned ZF, with heavy duty clutch packs for smooth and easy click of the knob gear shift. The integral Torque converter has stall ratio of 1:2.63 which increases the tractive effort, making dozing operation easy in tough conditions.

AXLES
Front Axle The powered front axle for four wheel drive version can float 18° to take care of unevenness of ground.
Rear Axle Rear ZF Multitrac Axle is heavy duty, long-life axle. High brake torque is assured by internal wet multi-disc brakes that are self adjusting and require little maintenance. Parking Brake is spring applied hydraulically released which is enclosed in the axle housing and provides full protection from damage, dirt and corrosion.
*Also available 4x4 option

TRAVEL SPEEDS		
Travel speeds with standard rear tyres (16.9-28, 12 PR)		
	Forward	Reverse
Gear 1	6 kmph	7 kmph
Gear 2	10 kmph	14 kmph
Gear 3	21 kmph	22 kmph
Gear 4	38 kmph	

TURNING RADIUS	
X Curb turning circle	
With brakes	7140 mm
Without brakes	8808 mm
Y Bucket clearance circle	
With brakes	9610 mm
Without brakes	10500 mm

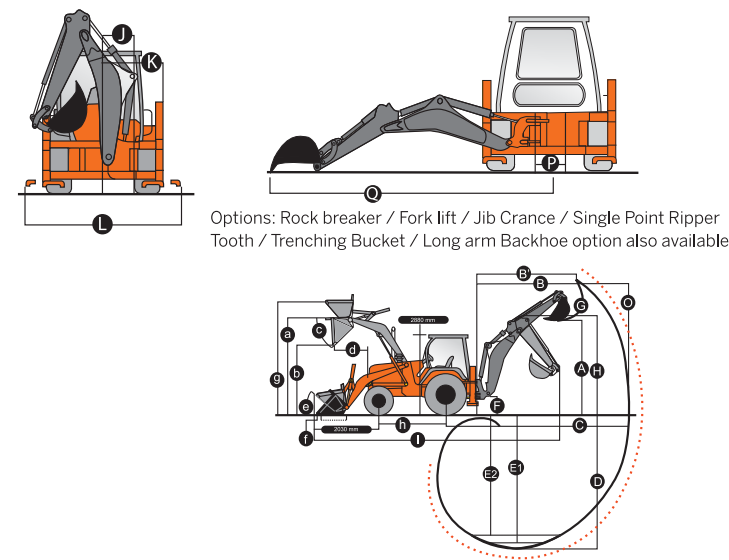
REFILL CAPACITIES	
Fuel tank (with ground level fueling)	136.0 ltr
Engine coolant	21.9 ltr
Engine oil including filter	9.0 ltr
Transmission	13.0 ltr
Hydraulic system	91.0 ltr
Hydraulic oil refill	38.0 ltr
Rear axle	16.0 ltr
Front wheel (only for 4WD)	8.0

BUCKETS			
Loader End	Width	Capacity	Weight
Tilt dump bucket	2352 mm	1 m³	555 kg
Bottom dump (6-in-1) bucket	2350 mm	1 m³	640 kg
Backhoe End	Width	Capacity	Weight
General purpose bucket	765 mm	0.30 m³	230 kg
Heavy-duty bucked	610 mm	0.25 m³	189 kg

The specifications are subject to change without notice. The machine depicted may vary from the actual machine. Please contact our nearest office for latest specifications. Accessories shown here are not part of the standard equipment. Performance of the machine way vary with site and operating conditions encountered.

Tata Hitachi Construction Machinery Company Private Limited
Registered Office: Jubilee Building 45 Museum Road Bangalore 560 025 India
Telephone: +91 80 66953301/02/03/04/05 Fax: +91 80 6695 3309/2532 5792
Toll Free: 1800 121 6633 | Email: info@tatahitachi.co.in

TYRES		
Front Tyres	(Industrial tyres)	9-16, 16 PR
	(Heavy duty tyres)	12.5-18, 12 PR
Rear Tyres	(Industrial tyres)	16.9-28, 12 PR
	(Heavy duty tyres)	14-25, 20 PR



LOADER PERFORMANCE	Bucket Types	
	Tilt Dump Bucket	Bottom Dump (6-in-1) Bucket
Break force	4140 kgf	3765 kgf
Lifting capacity, full height	2790 kg	2631 kg
a. Height to bucket hinge pin, maximum	3400 mm	3400 mm
b. Dump clearance, bucket at 45°	2640 mm	2620 mm
c. Bucket dump angle, maximum	45°	45°
d. Reach at full height, bucket at 45°	765 mm	818 mm
e. Rollback angle at ground level	40°	40°
f. Digging depth below ground, bucket level	206 mm	185 mm
g. Max. operating height	3820 mm	3820 mm
h. Wheel Base	2100 mm	2100 mm

BACKHOE PERFORMANCE	Boom Length: 2.56 m	
	Standard arm* Arm Length 1.72 m	Longer arm 2.61 m
Digging force, bucket cylinder : 5400 kgf Digging force, arm cylinder : 3400 kgf		
A. Loading height, truck loading position	3560 mm	4140 mm
B. Max. reach from centre of swing	5460 mm	6300 mm
C. point at ground		
D. Reach from centre of rear axle	6910 mm	7730 mm
E. Maximum digging depth	4290 mm	5160 mm
F. Digging depth		
(E1) 640 mm flat bottom	4240 mm	5110 mm
(E2) 2440 mm flat bottom	3940 mm	4905 mm
G. Ground clearance, minimum	350 mm	350 mm
H. Bucket rotation	190°	190°
I. Transport height	3670 mm	3725 mm
J. Overall length, transport	6150 mm	6150 mm
K. Side-shift from tractor centre line	582 mm	582 mm
L. Wall to swing centre line	580 mm	580 mm
Stabilizer width	2290 mm	2290 mm
O. Lift capacity to bucket pivot	1699 kg	1100 kg
Maximum cutting height (stab. full open)	5800 mm	6350 mm
(stab. closed)	5300 mm	6000 mm
P. Total side shift travel	1150 mm	1150 mm
Q. Max.side reach (with side shift) from centre of machine	5978 mm	6778 mm

*All backhoe specification are with 0.3 m³ bucket.

Authorised Dealer

TATA HITACHI

Reliable solutions

MAXIMIZE
PRODUCTIVITY

INTRODUCING THE NEW

MAX
SERIES

TH 86

Operating Weight : 7500 kg

Bucket Capacity

Backhoe : 0.30 m³

Loader : 1 m³



INTRODUCING THE NEW-GENERATION BACKHOE LOADER

MAX
SERIES

TH 86

INCREASED CHANGE INTERVALS FOR

Engine Oil | Hydraulic Oil | Engine Fuel Filter
(500 Hrs) | (2500 Hrs) | (500 Hrs)

The increased intervals of engine oil, hydraulic oil and engine fuel filter change lets you keep cost under INR 40/hr while power modes help maximize output as per need.





POWERFUL & RELIABLE

The new in-Line FIP engine is not only rugged to withstand the demands of your business but is also easy to repair, ensuring your work never stops.



**MAXIMIZE
PEACE OF
MIND**

PEACE OF MIND

2 year drive line warranty so that you focus on what you do best.

PROVEN IN THE FIELD

Well accepted and proven aggregates ensure the long life of your machine.



CYCLONIC PRE-CLEANER

The zero maintenance Cyclonic Pre-Cleaner ensures your machine always breathes clean.

POWERSHIFT TRANSMISSION

Built for long life.
Enhanced drive comfort.
Reduced cycle time.
Easy ingress and egress into the cabin from both doors.



SAFETY FIRST

TH 86 **MAX** series comes with an optional fire extinguisher.

KEEPS YOU MOVING

Rear ZF Multitrac Axle is designed for heavy dozing operations and long life.



INTRODUCING THE NEW
MAX
SERIES

TH 86





EXCAVATOR BANANA BOOM

Better reach behind walls of tipper, storage bins - better excavation performance.
Easy access to hydraulics on the arm.

HIGH SWING SPEED

Swing operation forms a major portion of the backhoe operation, thus increasing production and revenues with high swing speeds.

REINFORCED EXCAVATOR ARM

Protection against damage while lifting rocks and boulders.

BUCKET SIDE CUTTERS

Improved performance in backhoe digging, thus more production and revenues.

HIGHER TRACTIVE FORCE

High tractive force helps in effective dozing and load & carry operations.

LONG ARM OPTION

For greater reach and digging depth.

LOCKABLE DIFFERENTIAL

The lockable differential allows you to navigate through slush, gravel or any other surface.

POWER MODES

Power Mode- for Economy
Super Power Mode- for Production



4-WHEEL DRIVE (Optional)

4 wheel drive option ensures the machine has traction on all wheels, no matter the surface.



LOADER VERSION

Loader version of TH86 is the optimum match for dedicated loading needs.

ROCKBREAKER (Optional)



AUTO-LEVELING & RETURN TO DIG FEATURE

Loader bucket levels & returns to dig position automatically.

WITHOUT RTD & AUTOLEVELING



WITH RTD & AUTOLEVELING



6-IN-1 BOTTOM DUMP BUCKET

One attachment to take care of digging, dozing, grabbing, grading, loading and backfilling (spreading).



TOUGH & PRODUCTIVE

The TH86 is a machine with productivity at its core. Features like a high engine HP, two work modes, return to dig, rock breaker, a 4WD option and more make the TH86 the only perfect choice.





**SOFT GRIP
STEERING
WHEEL**



**MAXIMIZE
OPERATOR
COMFORT**



**INCREASED
LEG SPACE**



COOL CAB HAT

Silver colored sandwich hatcaps for a cooler cabin in summers.

NEW LHS SEAT & STORAGE



NEW RHS SEAT & STORAGE



NEW COMPACT FRONT CONSOLE



NEW BACKHOE CONSOLE



**SUSPENSION
SEAT**

New suspension seat to ride smooth over all work surfaces.

SWITCH EASY

With increased space and ergonomically designed cabin, now there is even greater ease to switch between backhoe & loader modes.

**MAXIMIZE
STORAGE
SPACE**

**MAXIMUM
STORAGE**

With added storage space under the right and left seat you have abundant space to store your essentials.

**MAXIMUM
SEATING**

The all new extended left seat and additinal right seat allows you take along the extra crew you may need.

