

WEIGHT CLASS
8.5 TONNE
| TB280FR |



SHORT SWING EXCAVATOR

TAKEUCHI
Japanese for Reliability

TB280FR Full Radius Short Tail Swing Excavator

The new TB280FR features a unique patented side-to-side (STS) offset boom coupled with the near zero tail swing for unrivalled versatility and visibility on site.

The unique FR design provides for parallel trenching right next to walls and buildings. A floor mounted pedal allows you to position the STS offset boom anywhere across the front of the machine without any reduction in dig depth or ground reach. For operators, the STS offset boom moves into position, no more moving the whole machine for improved excavating angles, simply let the STS offset do all the work.

The STS offset combined with the near zero tail swing delivers the most versatile compact machine for site. The only excavator with the ability to fully retract the boom and fully loaded digging bucket then fully rotate 360°, while only exceeding the track by 12cm. (Digging bucket up to 750mm).

The TB280FR has a low centre of gravity and optimized counterweight creating an extremely stable platform with lifting capabilities similar to that of a conventional machine.

HEAVY-DUTY OFFSET

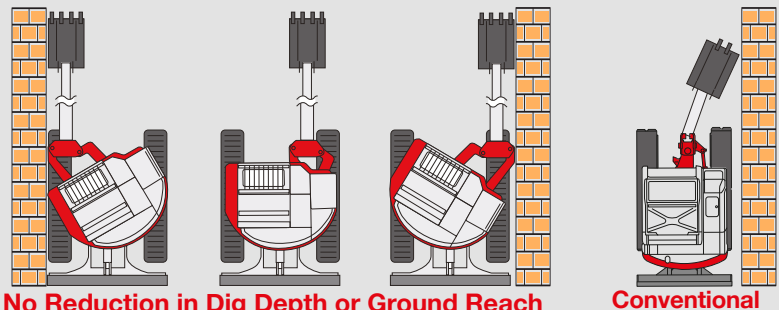
The heavy-duty STS offset boom is engineered for robust operating. The oversized slew bearing and ring gear combines with heavy-duty steel boom bracket bushes, for maximum longevity.

Designed for durability, easy lubrication and maintenance.



SIDE-TO-SIDE STS BOOM

- EXCAVATES WALL-SIDE BOTH LEFT & RIGHT
- NO REDUCTION IN DIG DEPTH
- NO REDUCTION IN GROUND REACH
- SIMPLY REPOSITION THE BOOM BRACKET ACROSS THE FRONT RADIUS



OPERATOR COMFORT

The operator will appreciate the spacious, well-equipped and well-appointed cab with plenty of foot room. The stylish cab features include air con as standard, deluxe high back seat and adjustable arm rests. Complete with a large multi-function monitor panel and rocker switches that control a wide range of functions.

The large multi-function display highlights real time machine health and vitals.

Smooth pilot control - short stroke joysticks are low effort and very precise for smooth all day operating.

Electronic throttle control combined with auto deceleration and eco-mode provides maximum fuel efficiency and reduced carbon footprint.

LED work light package ensures excellent visibility in low light conditions.

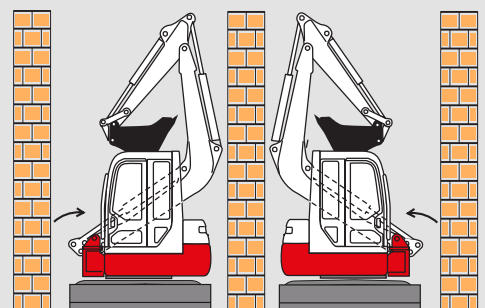
The heavy-duty 500mm high dozer blade comes as standard for grading functionality.



STAGE V ✓
READY

WORKS IN TIGHT SPACES

- FULLY RETRACTS THE BOOM WITH A FULL LOAD USING A DIGGING BUCKET UP TO 750mm
- EXCEEDS TRACKS BY ONLY 12cm
- NO NEED TO MOVE THE MACHINE





PERFORMANCE

- Stage V low emission engine - Yanmar 4TNV98CT-WTBZ turbocharged engine.
- Automotive styled electronic dial type throttle control with automatic engine idle.
- Automatic fuel priming system
- Open centre 4-pump hydraulic system for smooth precise operating

OPERATING

- Excellent ground reach and digging depth with long arm.
- Boom and arm check valves come as standard, with audible and visible lift alarm for added on-site safety.
- Working Modes - Standard, ECO, and High Altitude.

DURABILITY

- All round steel service hoods with heavy-duty hinges and locks. Undercarriage built with heavy-duty gauge steel design.
- Cushioned boom, arm and swing cylinders for improved longevity of cylinders and smooth operation.
- Sloped design on track frame for easy clean and reduced debris retention, along with guard protected hydraulic track tensioning.
- Large steel guard on the dozer lift cylinder, with heavy-duty ground level steel wrapped hydraulic lines well protected in wet ground conditions.

ATTACHMENT READY

The TB280FR comes ready installed with steel hydraulic hitch pipe work and electrics, with matching TB290 pin and link dimensions, so all attachments are interchangeable.

Convenient 1st and 2nd auxiliary circuits and quick hitch circuit are plumbed to the mid-arm. The dual flow hydraulic lines are operated by variable sliders on both levers, for smooth control of variable flow and detent to accommodate a range of attachments.

Operators use the in-cab cluster screen control to adjust the 1st auxiliary flow and can customise all the Preset Flow Settings from the comfort of the cab.

NEAR ZERO TAIL SWING

The unique FR design is what sets the TB280FR apart from conventional machines.

The compact near-zero tail only extends 12 centimetres beyond the track. It gets the TB280FR into spaces other conventional excavators cannot operate.



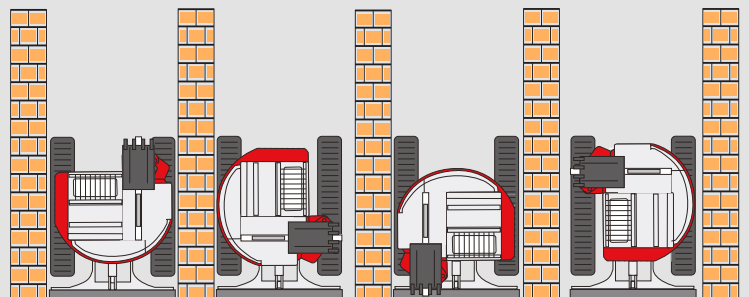
HEAVY DUTY TRACKS

Triple flange rollers support the track in multi positions improving the track and stability. The upper roller maintains track alignment and helps shed debris.

High torque and the auto step-down motor deliver on-demand tracking power when dozing and climbing.

360° FUNCTIONALITY

- MORE VERSATILE THAN A FIXED BOOM
- THE ONLY 8-TONNE EXCAVATOR THAT CAN DIG IN-FRONT AND LOAD BEHIND IN A CONFINED SPACE
- ROTATES 360°, ONLY EXCEEDS TRACKS BY 12cm





SERVICEABILITY

The rear full-width service engine hood is robust for site - all-steel, lockable and hinged overhead. It provides quick and easy ground level access for daily maintenance checks to minimise service downtimes. The engine oil fill, oil level dipstick and coolant filler points are all easily accessible.

The engine hood provides easy access to the re-fuelling pump with filtered suction hose and integrated non return valve.

The right side all-steel service access door is hinged and lockable and swings out for maximum access to side-by-side cooling units and battery alongside dual air filters and windscreen washer bottle.

The hydraulic tank is conveniently situated on the cab right hand side with easily accessible sight gauge, fill point and internal filters, with the addition of a lockable maintenance toolbox mounted above complete with tools and tool bag.



EASY MAINTENANCE

Maintenance and serviceability have been greatly improved with an enhanced forward tilting cab.

Designed to allow for superior access to the rear engine components, hydraulic valves, pilot line filter and greater access to hydraulic pipework.

Triple flange rollers provide increased roller to rail contact improving track retention.



TFM - TAKEUCHI FLEET MANAGEMENT

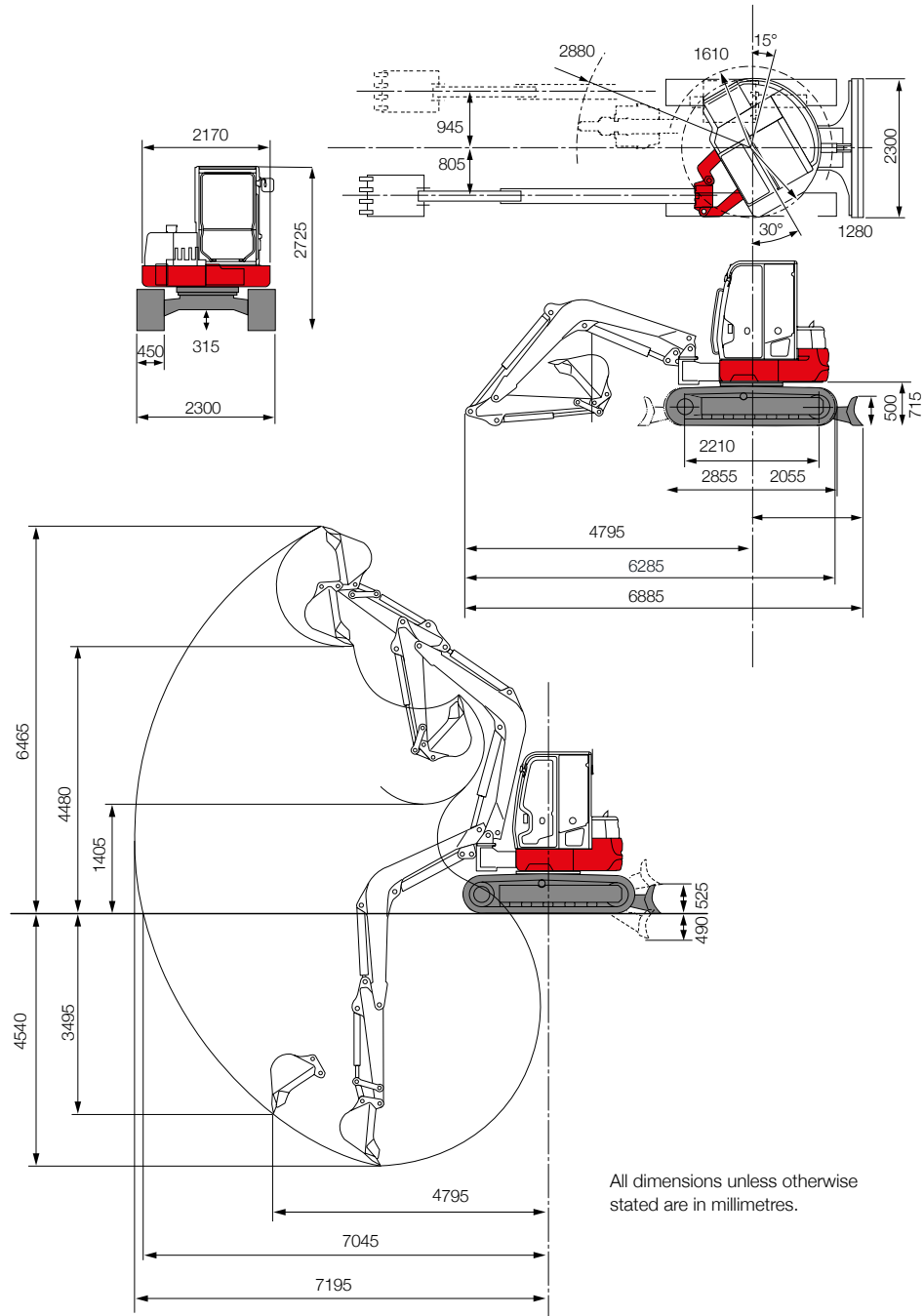
Takeuchi Fleet Management is designed to help you better manage your fleet and lower your overall operating costs.



PROTECT YOUR INVESTMENT

The TB280FR comes with the TSS **Takeuchi Security System** as standard.





All dimensions unless otherwise stated are in millimetres.

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**2 YEAR
2,000 HOUR
WARRANTY***

TB280FR

Standard UK Specification
Long Arm/Rubber Tracks Dimensions Rubber/Steel

Engine	
Make	YANMAR
Model	4TNV98CT-WTBZ
Rated Output kW/rpm	51.6/2000
Maximum Torque (Nm)	283-308
Cylinders	4
Displacement (cc)	3318
Electrical System	12Volt 90 amp

Dimensions & Weight	
Op. Weight kg (bucket, hitch, fuel)	8500
Length (Transporting) (mm)	6285
Width (mm)	2300
Height (mm)	2725
Ground Clearance (mm)	315
Front Swing Radius (mm)	1610
Slew Radius (mm)	1280
Dozer Blade (W x H) (mm)	2300x500

Operating Information	
Max Digging Depth (mm)	4540
Max Dump Height (mm)	4480
Max Reach at Ground Level (mm)	7045
Max Vertical Dig Depth (mm)	3495
Max Bucket Digging Force (kN)	46.7
Max Arm Digging Force (kN)	31.3
Offset Swing Angle LH	

Hydraulic System	
Set Pressure (bar)	280
Pump Type	Variable x 2+ Gear x 2
1st Auxiliary Maximum Flow (l/min) / Pressure (bar)	148/206
2nd Auxiliary Maximum Flow (l/min) / Pressure (bar)	59/206

Swing System	
Boom Swing Angle (L/R)	30°/15°
Slew Speed (rpm)	10
Slew Motor	Axial Piston
Slew Brake	Wet Friction Plate

Undercarriage	
Traction Motor	Axial Piston
Traction Drive	Planetary
Traction Brake	Disc
Track Width (mm)	450
Ground Contact Length (mm)	2210
Ground Pressure (kpa)	37.9
Travel Speed (k/ph)	2.7/5.2
Maximum Gradeability	30°

Capacities	
Hydraulic System (l)	147
Fuel Tank (l)	100
Engine Lubrication (l)	9.4
Cooling System (l)	14

OPTIONS: Steel tracks, TKB302-S & TKB402-S hydraulic breaker, hydraulic quick hitch.

01/2021

*Lifting; the mass weight of slings / hitches /bucket to be deducted from the rated load to determine the net load that may be lifted.

Takeuchi machines come with a 2 year/2000 hours warranty as standard. Warranty exceptions to 1 year: fuel injection systems, electrical components, paint work and *emission control items. (*applicable models). Before fitment of a hydraulic attachment, machine auxiliary pressure and flow should be accurately measured.

In accordance with our established policy of constant improvement, we reserve the right to amend these specifications at any time without notice.

Photographs shown may feature non-standard equipment.

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