

BACKHOE LOADERS



WORKS FOR YOU.™

THE SPECIALISTS

The right machine for every job

Defined by more than fifty years of backhoe expertise, Terex® backhoe loaders are designed to be rugged, versatile and highly productive – core traits that are recognized by professionals all over the world.

The Terex backhoe loader is a tough and versatile performer which is demonstrated through three models, the TLB990, TLB890 and the TLB850. All are true specialists in their own right and are designed for hard work in the most demanding of conditions.

Each model features a curved boom design for outstanding reach and dig depth plus the acclaimed front loader that delivers high bucket break out force and lifting capacity.

Inside the cab, the Terex backhoe loader is designed to focus on the needs of the operator and offers a supremely comfortable and highly productive environment.

When you choose a Terex backhoe loader, you are choosing much more than just robustness, reliability and economy. You are choosing a machine built for the job.

Contact Us

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OVER 50 YEARS OF INNOVATION

Founded on generations of hard working machines since 1959, today's Terex backhoe loader takes pride in providing incredible site performance.

The heritage of the Terex® backhoe loader dates back to the Massey-Harris-Ferguson era of the 1950s and, in particular, commencement of production of the Tractor Digger Shovel (the "Three in One") in Manchester.

1959



1961

Introduction of the 203/205 and 65S/65R models. S models utilised a 6 speed manual transmission and the R models featured a 4 speed Instant Reverse version. These models were updated in 1965 with the creation of the 203/205Mk 2 and 3165S/3165R models. This year also saw the 220 backhoe with 5 position Power – Slide enter the market.

Major product improvements made with the introduction of the 3303/3305 models. The 250 loader incorporated a mechanical self-levelling bucket to reduce spillage during lifting and lowering. The new 252 sideshift backhoe incorporated the patented Hydra-Slide mechanism with hydraulic clamping.

1966



1972

The legendary 50.B model with new safety cab and improved loader and backhoe performance. This machine also included an automatic end of stroke cushioning feature in the backhoe boom cylinder. Further improvements included the introduction of four wheel drive in 1980 and the 50.B Mk 2 with extended stabiliser legs in 1981.

Introduction of the Power Shuttle Transmission which replaced the Instant Reverse version by new MF Industrial division. This transmission included synchromesh gear shifting and softshift direction changes which were fitted to the new 50.H/50.HX models.

1984



1992

Creation of the Fercmec brand following the management buyout of MF Industrial. A year later, a major product change occurred resulting in the introduction of the series 90 range featuring the 750, 860, 865 and 965 models. These backhoes continued to be marketed under the MF Industrial name.

Following the Case buyout of Fercmec in 1996, the MF Industrial name was dropped from the product line. In the North American market, these machines were now marketed under the Kobelco America name and included the TLK 750, 860 and 965.

1996



TEREX®

2001

In 2001 Fercmec became part of the Terex Corporation opening up new business opportunities around the world.

Backhoe loader production transferred from the Manchester factory to a brand new Terex facility in Coventry. The Perkins Tier 2 engine and pilot operated controls on the 880 and 980 models were also introduced this year.

2003



2009

Terex® backhoe loaders, with a 50 year heritage, continue to offer customers worldwide an excellent return on their investment.

Terex launches the next generation of the backhoe loader with the TLB840.

2011



2012

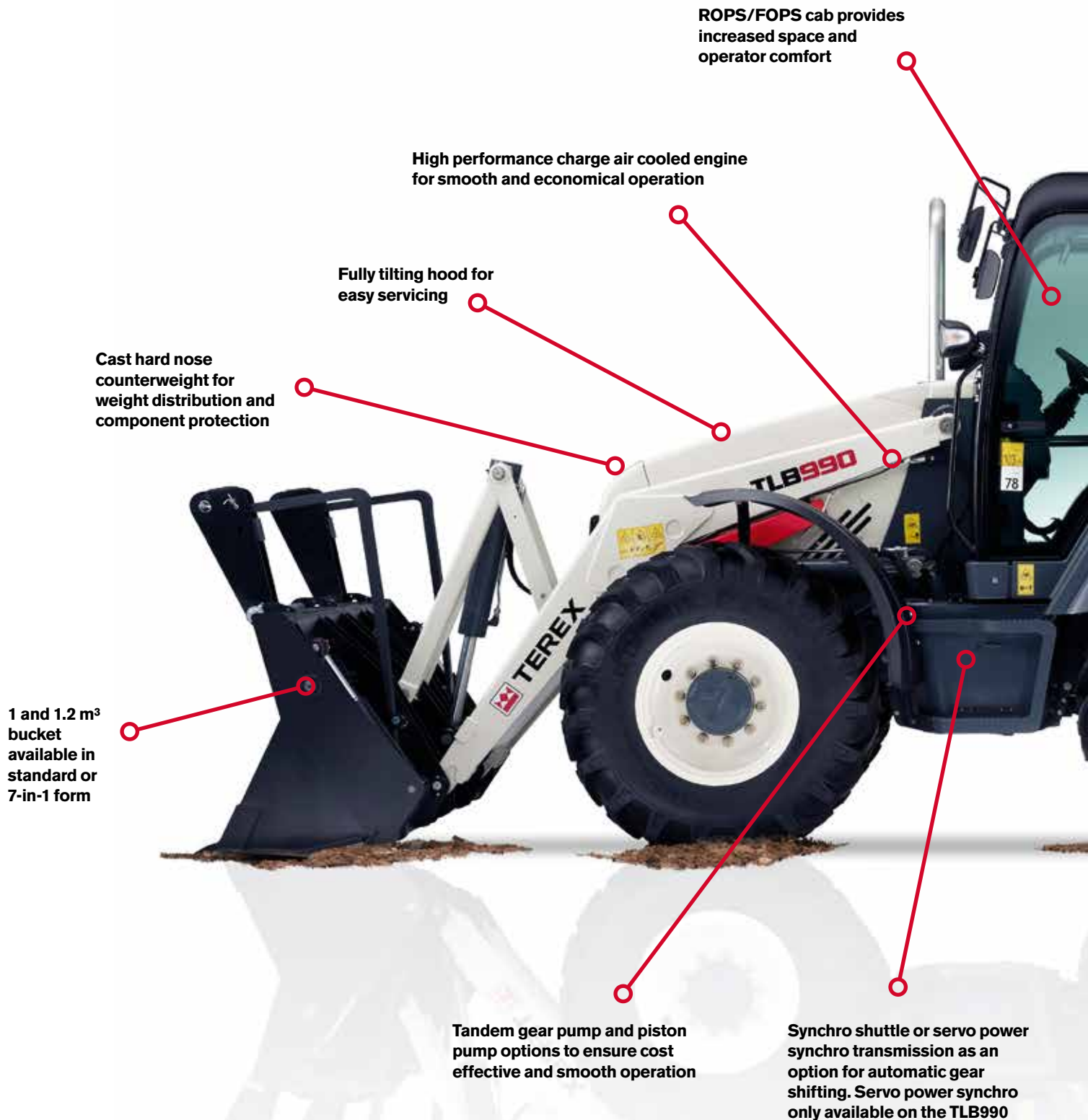
Phase 2 of the next generation backhoe loader sees the launch of the TLB890.

The 'top of the range' Terex TLB990 backhoe loader and TLB850 are launched.

2014



DESIGNED TO DELIVER



ROPS/FOPS cab provides increased space and operator comfort

High performance charge air cooled engine for smooth and economical operation

Fully tilting hood for easy servicing

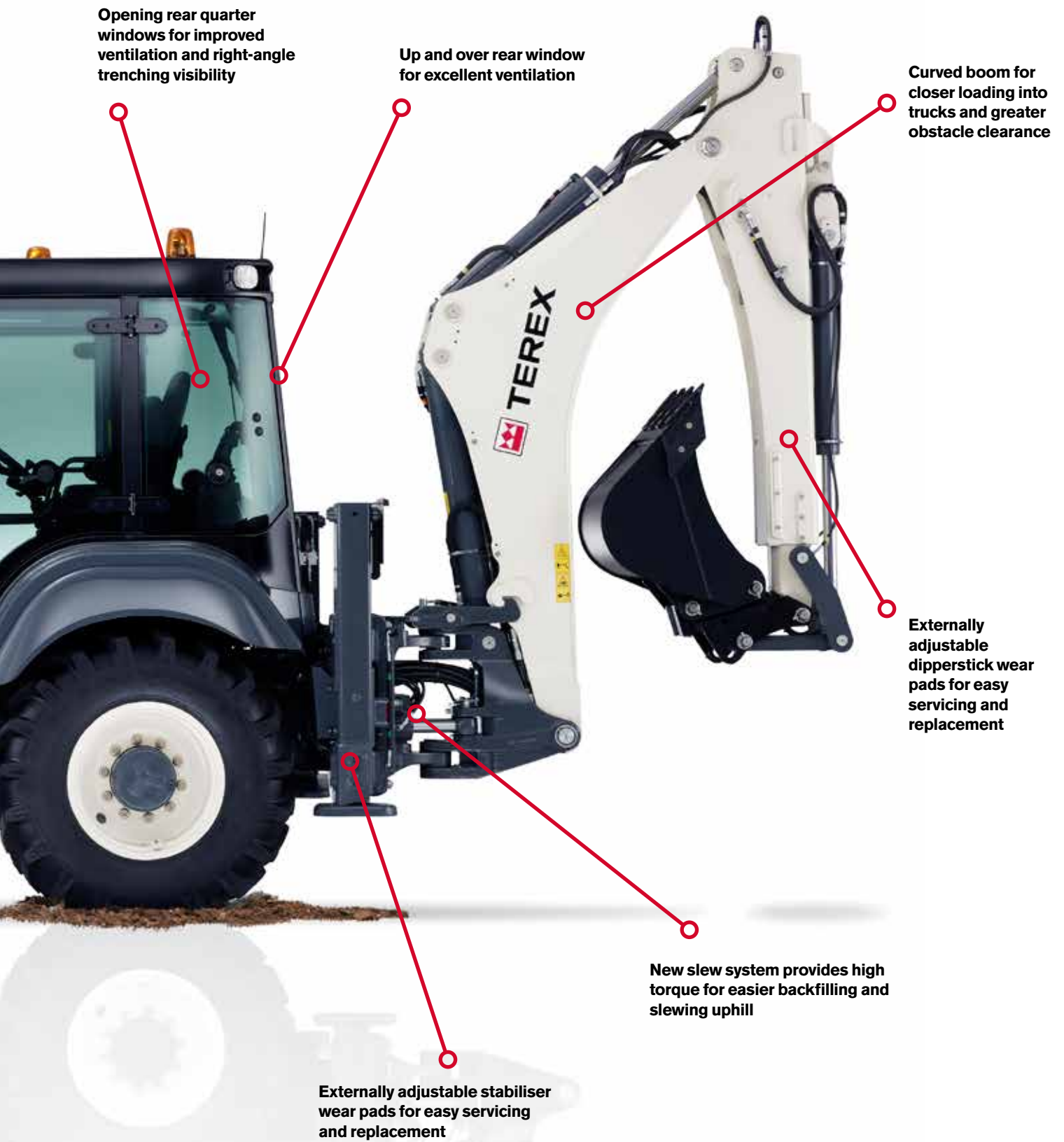
Cast hard nose counterweight for weight distribution and component protection

1 and 1.2 m³ bucket available in standard or 7-in-1 form

Tandem gear pump and piston pump options to ensure cost effective and smooth operation

Synchro shuttle or servo power synchro transmission as an option for automatic gear shifting. Servo power synchro only available on the TLB990

BACKHOE LOADERS



FOCUSED ON THE OPERATOR

Practical and productive

An operator that sits in an relaxed and comfortable environment is a productive operator. That's why the Terex backhoe loader cab offers outstanding ergonomics, a high standard of operator comfort plus a wealth of practical features and functions.

Once seated, the operator immediately benefits from the increased floor space, designed to provide easy seated turns. Further convenience is provided by the clever layout of all instruments and controls such as the heavy-duty rocker style switches housed on the instrument panel.

The comfortable suspension seat with lumbar support is specifically designed for a more enjoyable and productive working day. In addition, a premium seat with air suspension and a heated cushion/back is available as an option.

Further refinement is achieved by high performance air conditioning with optional automatic temperature control.

Additional ventilation is offered by full depth 'up and over' style rear window for operator comfort.

This is more than just a cab, it's a place for a satisfying days work.

What this means for you

- ▶ Superb visibility for improved productivity
- ▶ Spacious floor layout for easy seated turns
- ▶ Telescopic steering wheel with fully adjustable tilt and height setting for enhanced driving comfort
- ▶ Robust cab compliant to ROPS/FOPS safety standards
- ▶ Opening rear quarter windows for improved ventilation and right angle visibility when excavating
- ▶ Premium seat with air suspension and heated cushion/back for excellent comfort. Available as an option.



THE HIGHEST ACHIEVER

At the forefront of loading

The Terex loader is renowned for high bucket break out force and exceptional lifting capacity to full height.

Achieving a height of up to 3.6 m (11'9") the superb front loader arrangement provides excellent clearance when loading into high sided trucks. The highly acclaimed 7 in 1 front bucket delivers a heaped capacity up to 1.2 m³ (1.57 yd³) for increased productivity.

The supremely compatible engine, gearbox and either tandem gear or piston pump hydraulics enables quick and smooth machine operation which shortens cycle times.

The single bucket cylinder uses fewer components than a twin ram arrangement which reduces maintenance routines and operating costs.

What this means for you

- ▶ Hydro mechanical self levelling bucket reduces spillage and retains the load at full height
- ▶ Hydraulic unload button controls loader lift speed and boosts pushing performance
- ▶ Dual function control of the 7 in 1 bucket delivers simultaneous clamshell and bucket operation
- ▶ Hydraulic or mechanical quick attach enables a wide range of attachments to be fitted. Available as an option.



THE CLEAR WINNER

Reaching new levels in excavating

With an impressive dig depth of up to 5.64 m (18'6") and a commanding ground level reach of up to 6.95 m (22'10") the Terex backhoe loader is a high performance trenching machine.

The solid curved style boom provides excellent clearance when reaching over obstacles such as walls and fences and makes light work of loading close up into trucks.

An extendable 'Deep Dig' dipper stick delivers high extension and retraction forces for rapid and accurate bucket filling.

Terex backhoe loaders offer a choice of hydraulics, either tandem gear pumps or variable piston pump, both offer flow sharing and utilise closed centre control valves making multi-functional operation easy.

The optional excavator style pilot joystick controls provide fingertip operation for comfort and productivity.

Mechanical or hydraulic quick-attach systems are designed to carry the extensive range of Terex specialist backhoe attachments.

What this means for you

- ▶ High dipper and bucket digging forces for productive trenching
- ▶ Choice of 2 auxiliary hydraulic circuits to power attachments
- ▶ SAE, ISO or diagonal low-effort mechanical controls
- ▶ Optional excavator style pilot joystick controls featuring proportional thumb slider control of extendable dipperstick and auxiliary circuits
- ▶ In-cab operation of combined transport lock for reduced effort and added safety



A SOLID PLATFORM

Proven for strength and durability

The Terex backhoe loader is built on an industry acclaimed chassis with a proven track record for durability, reliability and safety.

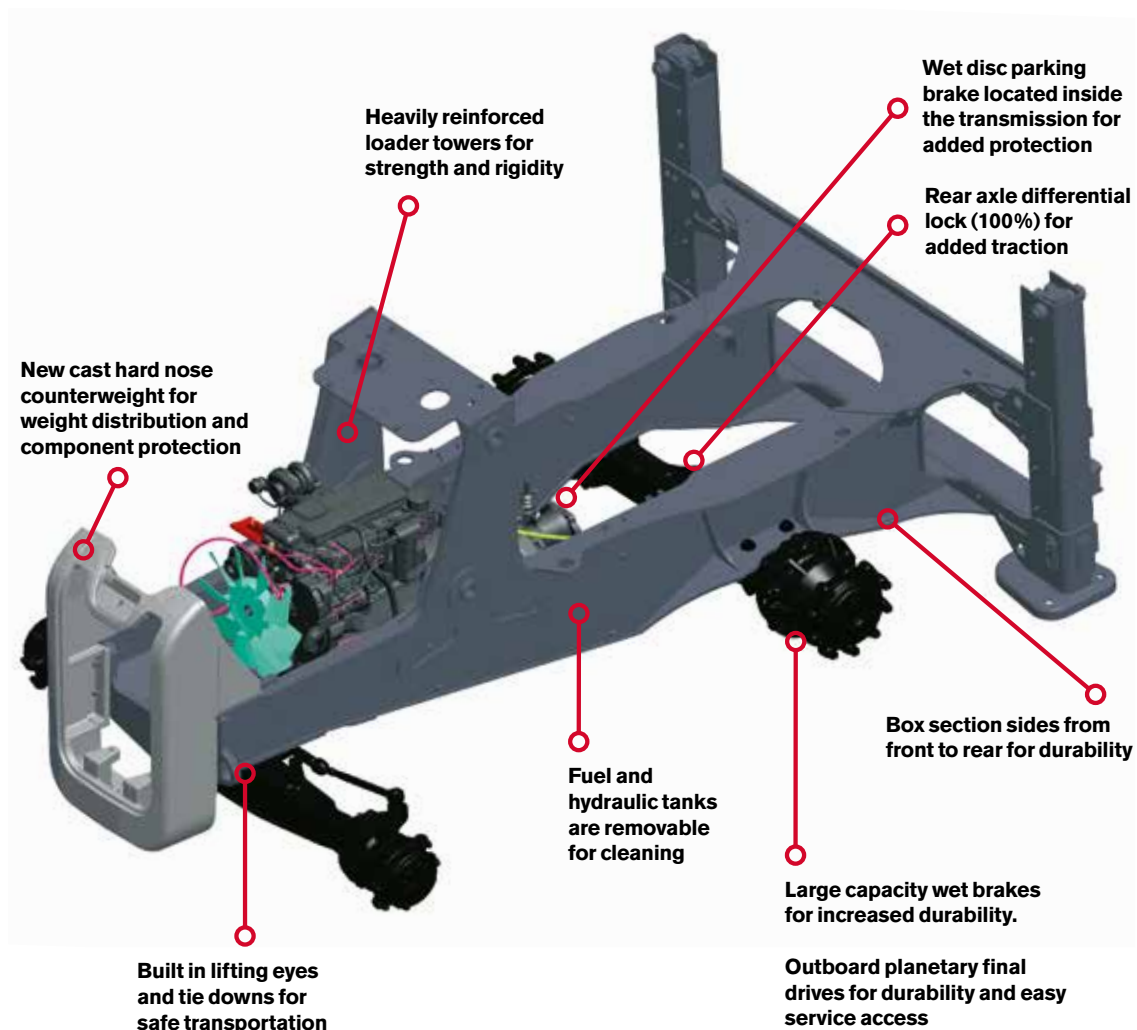
Further stability is added via the hard cast nose counterweight providing weight distribution and component protection.

Propelled by either a 4 speed synchro shuttle transmission or servo power synchro transmission on two wheel steer models (SPS only on four wheel steers) the Terex backhoe loader delivers excellent fuel economy and increase tractive effort for outstanding loader productivity. The servo power synchro transmission reduces driveline losses by an impressive 9%.

Maximum transport speeds ranging from 39.5 km/h to 41 km/h means that driving between jobs is quick and effortless. The double transport lock secures the backhoe safely in the transport position at the flick of a switch.

What this means for you

- ▶ Selectable 2 or 4 wheel braking in all gears for improved stopping distance on the highway and building site manoeuvrability
- ▶ Transport speeds of 39.5Km/h to 41Km/h quickens highway journey times
- ▶ Automatic or manual shifting for reduced cycle times and improved loading
- ▶ Kickdown and kickup between 1st and 2nd speeds boosts performance when using the front loader (SPS)
- ▶ Wet disc parking brake cleverly located within the gearbox for added protection



A POWERFUL CORE



Performance with economy

The Stage IIIB/T4i Terex backhoe loader range is powered by an efficient 94 hp or 100 hp Perkins 1204E-E44TA engine.

Turbo charged and charge air cooled, our engines are designed and developed to give you reliability, quiet operation and many hours of dependable power with economy.

An increase of 12.5% of engine torque compared to the previous Tier 3 engine delivers more “push into the pile” for a more “full” bucket, which increases productive output. Higher torque means the machine has the ability to work at lower engine speeds across the entire rev range.

The engine incorporates Auto Idle that reduces the engine speed automatically when there is no load on the hydraulic system, helping to lower fuel consumption. Once the hydraulic load increases the engine speed returns to the level previously set by the rotary throttle control.

What this means for you

- ▶ Fuel consumption is optimised to match operating cycles
- ▶ No additional fluids or additives are required which lowers operating costs
- ▶ Service free Diesel Particulate Filter (DPF) with 8,000 hours exchange life reduces maintenance

MAINTAIN THE MOMENTUM

Clever layout means simple checks

Maintenance of the Terex backhoe loader is designed to increase uptime. Routine daily engine checks can be accomplished easily and efficiently with quick access provided by the fully opening front hood.

Service points are located in convenient positions within easy reach at ground level keeping daily maintenance to a minimum and productivity to a maximum.

What this means for you

- ▶ Externally adjustable stabiliser wear pads for easy servicing and replacement
- ▶ Externally adjustable "Deep Dig" dipperstick wear pads for easy servicing and replacement
- ▶ Accessible jump-start posts for ease of use
- ▶ Removable oil coolers for ease of cleaning



DELIVERING NEW POTENTIAL

TLB850

Designed to get the job done

The TLB850 backhoe loader is the ideal choice for your backhoe fleet requirements. An economical purchase, the TLB850 backhoe loader offers ease of use whether excavating, rehandling, transporting material or driving between sites.

Powered by a 94 hp (70 kw) charge air cooled engine for smooth and efficient operation, the TLB850 backhoe loader balances power with efficiency for the perfect all-in-one machine solution.

Closed centre hydraulics ensure smooth, low effort control of the loader and backhoe. Ideally suited for both experienced and novice operators.

What this means for you

- ▶ “Deep dig” outerslide extending dipperstick for clamping objects between bucket and dipper
- ▶ Delivers high rates of return for a low capital investment
- ▶ Reduced loader and backhoe operating efforts
- ▶ Smooth and precise multi-functional operation of both loader and backhoe



PRODUCTIVITY REDEFINED

TLB890

Extra power – greater flexibility

Designed around the needs of the owner operator, the TLB890 backhoe loader is a powerhouse of productivity delivering impressive levels of reach and dig depth with fast cycle times and greater economy.

A heavyweight in terms of productivity with high breakout forces and lifting capabilities, the TLB890 backhoe loader is ideally suited to the widest range of applications including civil engineering, highway construction & maintenance, utilities and agriculture.

Delivering faster cycle times and greater economy while returning a high residual value, the TLB890 backhoe loader helps your business increase its return on investment.

What this means for you

- ▶ Higher hydraulic flow rates to power attachments
- ▶ Slew system provides high torque for easier backfilling and slewing uphill
- ▶ Servo power synchro transmission ensures smooth operation



VERSATILITY IN MOTION

TLB990

In a league of its own

The TLB990 backhoe loader is designed for professionals who demand the highest performance and cost efficiency operation all-year-round with an excellent return on investment.

The four wheel steering system combined with four wheel drive provides excellent traction that allows the TLB990 to keep working in conditions where other backhoes simply cannot.

The crab steer mode allows the TLB990 backhoe loader to operate in the tightest of spaces reducing the need for additional machines. You can select between two, four and crab steering modes with the flick of a switch.

What this means for you

- ▶ Four wheel steering provides a turning circle of only 7.3 m
- ▶ Identical size wheels all around for higher flotation
- ▶ Crab steer mode allows access into tight areas



MAKE THE CONNECTION

Extend your machine's versatility

Terex backhoe loaders are equipped to utilise the diverse range of Terex attachments.

Terex attachments are designed to increase the productivity of the Terex backhoe loader by equipping it to perform a wider range of tasks on an increased breadth of job site applications.

The optional quick-attach systems makes switching attachments easy. Auxiliary hydraulics with single and double acting functions help ensure smooth and simple operation.

What this means for you

- ▶ High performance attachments that are easy to use and maintain
- ▶ Increase your versatility and job site capability
- ▶ Increase your up time and receive an excellent return on your investment

Financial Solutions That Work

Perhaps the only thing more comprehensive than our vast product line is our wide range of effective finance and leasing solutions, structured to complement customers' cash flow and budgets. Build the fleet you want with competitive financing rates, as well as special lease and purchase options from Terex Financial Services.





Terex pallet forks

- ▶ Safe working load at 500 mm load centre 2500 kg (5500 lb)
- ▶ Class 2B 100mm (4 in) x 40 mm (1.6 in)
- ▶ Weight 228 kg (502 lb)



Terex 7 in 1 bucket

- ▶ Digging
 - ▶ Dozing
 - ▶ Loading
 - ▶ Scraping
 - ▶ Spreading and Levelling
 - ▶ Grabbing
 - ▶ Object handling (lifting eye/forks)
- with safe working load of 1000 kg (2204 lb)



Terex broom bucket

- ▶ Bucket capacity 0.58 m³ (0.76 yd³)
- ▶ Max width 2750 mm (108 in)
- ▶ Max flow 76L/min (16.9 gpm)
- ▶ Maximum pressure 207 bar (3000 psi)



Terex excavator quick attach

- ▶ Automatic version enables bucket changing from seat
- ▶ Picks up competitive buckets
- ▶ Mechanical version available
- ▶ Both versions save time and money



Terex farm fork and grapple

- ▶ 2290 mm wide
- ▶ For handling manure and silage



Terex loader quick attach

- ▶ Simple design
- ▶ Mechanical locking
- ▶ Picks up standard and 7 in 1 loader buckets



Terex high-tip bucket

- ▶ Heaped capacity of 0.97 m³ (1.27 yd³)
- ▶ Dump height of 4100 mm (161 in)
- ▶ Weight 840 kg (1848 lb)



Terex hydraulic loader QA

- ▶ Fully automatic actuated quick attach for simplified attachment changeover



Terex earth auger

- ▶ PT1500 and PT2500 models can be dipper mounted or by quick attach
- ▶ Available with an offset cradle mounting
- ▶ Auger sizes from 150 mm (6 in) to 900 mm (36 in)
- ▶ Max oil flow for both models 95 L/min (21.1 gpm)



Terex (TXH1100S) hydraulic breaker

- ▶ Powerful performance
- ▶ Max energy per blow 1100 Joules
- ▶ Blow rate 550-1100 per min
- ▶ Simple servicing
- ▶ Full range of tools



Thumb attachment (TLB850)

- ▶ Increases the versatility of the backhoe allowing easy re-handling of objects such as concrete blocks, boulders, tree stumps or sleepers
- ▶ Quick and simple attachment and removal from the machine for maximum productivity



Terex snowplough

- ▶ 30° angle of movement to both right hand and left hand sides
- ▶ Replaceable bolt on scraper blade for extended use & road surface protection
- ▶ For the efficient clearing of snow on roads

SPECIFICATIONS

ENGINE (STAGE IIIB/TIER 4i)

Perkins 1204E-E44TA	
– Wastegate turbocharger	
– Charge air cooling	
– Torque rise 32%	
– Electronic fuel injection	
Cylinders	4
Capacity	4.4 L (269 in³)
Rated speed	2200 rpm
Gross power @ 2200 rpm cert.rating to UN/ECE R120	70 kW (93.8 hp*)
Derived net rating @ 2200 rpm to ISO/80/1269/EC	65.7 kW (88.1 hp*)
Max Torque @ 1400 rpm	
UN/ECE R120	400 Nm (295 lb.ft*)
80/1269/EC	377 Nm (278 lb.ft*)

* Nominal non-certified values

ELECTRICS

Wiring and connectors meet IP69 standard	
Maintenance free battery	
12 volt negative ground	
Battery isolator	
Jump start posts	
120 amp alternator	
Blade type fuses	
110 A/hr single battery with 920 CCA – EN Standard	
170 A/hr dual batteries with 1600 CCA – EN Standard	

CAPACITIES

	Ltrs (gals)
Fuel tank	140 (30.8)
Engine coolant	16.0 (3.5)
Engine oil (including filter)	8.5 (1.9)
Servo Power Synchro Transmission	15.0 (3.3)
Synchro shuttle transmission	15.0 (3.3)
Rear axle (including final drives)	15.5 (3.4)
Front axle (including final drives)	9.5 (2.1)
Hydraulic tank	92.0 (20.4)

AXLES AND BRAKES

Outboard planetary final drives for easier servicing		
Foot operated differential lock with 100% lockup		
16° front axle oscillation to maintain maximum ground contact and traction		
High capacity outboard mounted wet disc brakes		
Self equalizing and self adjusting		
Selectable 2 or 4 wheel braking		

Axle Ratings	Max Static Loading	Max Dynamic Loading
Front kN (lb)	225 (50602)	90 (20259)
Rear kN (lb)	187.5 (42169)	75 (16867)

OPERATING WEIGHTS

Base Machine Weight	8230 kg (18106 lbs)
Add/Delete	
7 in 1 multi-purpose	+ 330 kg (728 lbs)
7 in 1 multi-purpose fork kit	+ 150 kg (330 lbs)
Deep dig dipper	+ 265 kg (584 lbs)
Front counterweight	+ 42 kg (92 lbs)

Base operating weight includes cab, standard loader bucket, standard dipper stick, 600 mm bucket, full fuel tank and 75 kg operator.

TRANSMISSION

– 4 speed synchro shuttle gearbox				
– Modulated forward and reverse clutch packs enable smooth direction changes				
– De-clutch button on shift lever				
– Direction control with neutral safety interlock				
– Single stage torque converter with 3.01:1 stall ratio				

Tyres	Front:	12.5 x 18	12.5/80 x 18	12.5/80 x 18
	Rear:	18.4 x 26	16.9 x 28	16.9 x 30
Travel Speeds				
Forward/Reverse				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (13.0)
4th	Km/h (mph)	40.5 (25.1)	40.0 (24.8)	41.0 (25.6)

– 4 speed servo power synchro				
– Automatic and manual shifting in all 4 gears				
– Push button kickdown and kick up in 1st and 2nd gear				
– Auto drop down from 4th to 3rd and back				
– Single stage torque converter with 3.01:1 stall ratio				

Tyres	Front:	12.5 x 18	12.5/80 x18	12.5/80 x18
	Rear:	18.4 x 26	16.9 x 28	16.9 x 30
Travel Speeds				
Forward				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (13.0)
4th	Km/h (mph)	40.5 (25.1)	40.0 (24.8)	41.0 (25.6)
Reverse				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (18.0)

TURNING CIRCLES

		Over tyres	Over bucket
Without brakes	m (ft)	7.9 (25'9")	10.6 (34'7")
With brakes	m (ft)	7.0 (23'0")	9.7 (31'10")
Depending on tyre size			

TYRES

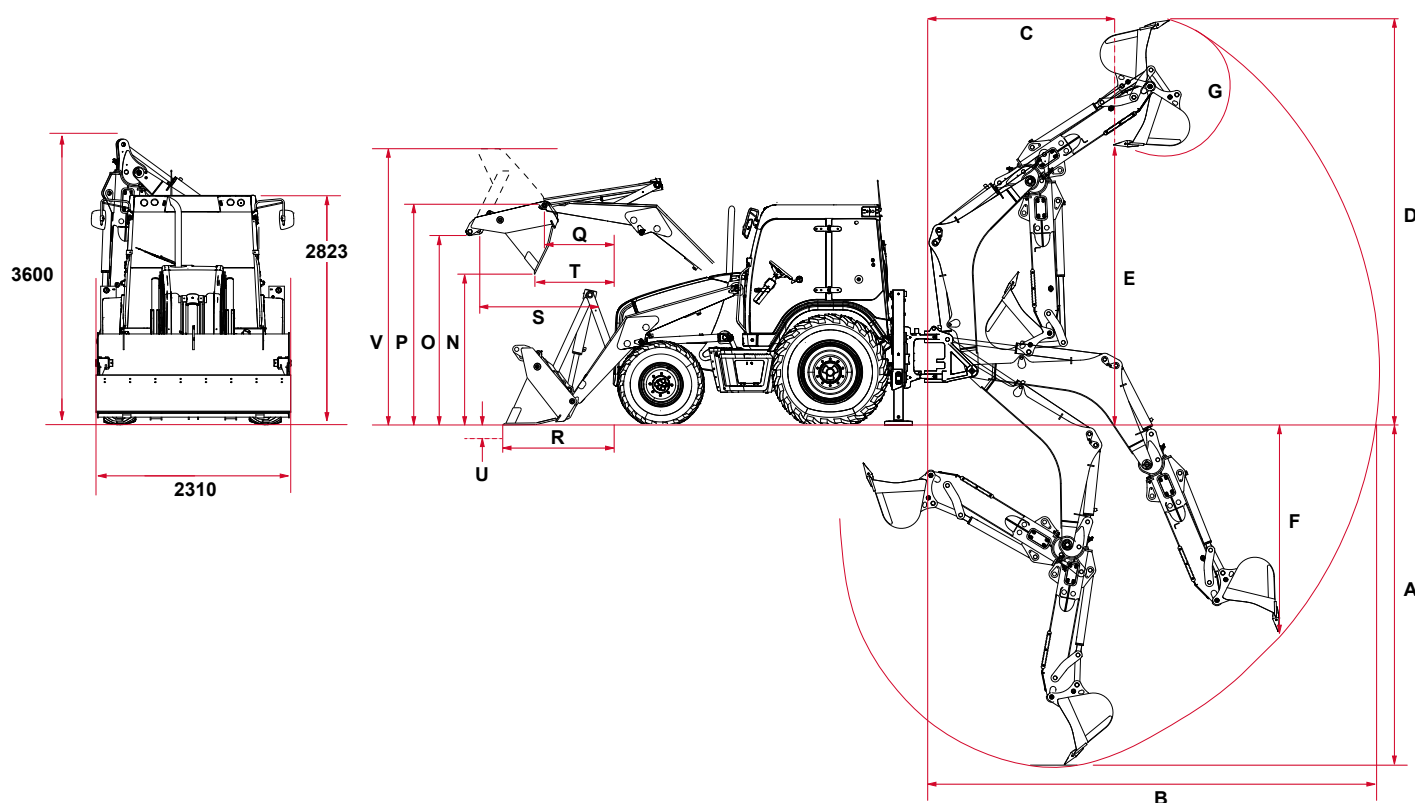
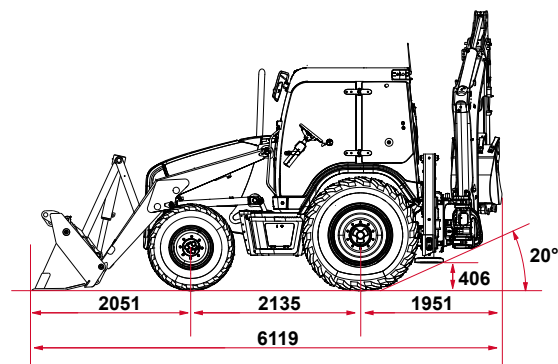
Front – Tractor Industrial 12.5/80 x 18 12 Ply Tubeless
Rear – Tractor Industrial 16.9 x 28 12 Ply Tubeless
Front – Super Traction Loader 12.5 x 18 10 Ply Tubeless
Rear – Tractor Industrial 16.9 x 30 14 Ply Tubeless
Front – Agricultural 12.5 x 18 10 Ply Tubeless
Rear – Agricultural 18.4 x 26 12 Ply Tubeless
Front – Industrial 16/70 x 20 14 Ply Tubeless
Rear – Industrial 16.9 x 30 14 Ply Tubeless
Front – Agricultural 405/70 x 20 14 Ply Tubeless
Rear – Agricultural 18.4 x 26 12 Ply Tubeless

HYDRAULIC SYSTEM

– Tandem gear pumps with unloader valve	
– Closed centre control valves	
– Automatic or manually activated pump flows	
– Power boost to match digging power and speed to application	
– External oil level gauge	
– Removable oil cooler	
– 125 micron suction strainer	
– 10 micron return line filter	
Main pump flow @ 2200 rpm L/min(gpm)	80 (17.7)
Secondary pump flow @ 2200 rpm L/min(gpm)	62 (13.7)
System main relief setting bar (psi)	250 (3625)
Unloader settings bar (psi)	207 (3000)

LOADER DIMENSIONS

	Standard / 7 in 1 Bucket mm (ft)
N. Dump clearance – at 45°	2850 (9'4")
O. Loadover height	3369 (11'1")
P. Hinge pin height	3615 (11'10")
Q. Pin forward reach	315 (1'0")
R. Reach at ground	1451 (4'9")
S. Max. reach at full height	1186 (3'11")
T. Reach at full height – at 45°	731 (2'5")
U. Dig depth	156 (6")
Rollback at ground	50°
Max. dump angle fully raised	47°
V. Overall operating height	4597 (15'0")



BACKHOE DIMENSIONS

Standard Dipper – mm (ft)			Deep Dig Dipper – mm (ft)	
			Retracted	Extended
A. Dig depth	Maximum SAE	4371 (14'4")	4371 (14'4")	5390 (17'8")
	2 ft Flat Bottom SAE	4324 (14'2")	4324 (14'2")	5344 (17'6")
B. Reach – ground level to slew		5703 (18'9")	5703 (18'9")	6666 (21'10")
C. Loading reach		2280 (7'6")	2280 (7'6")	3120 (10'3")
D. Operating height		5211 (17'1")	5211 (17'1")	5794 (19'0")
E. Loading height SAE		3615 (11'10")	3635 (11'11")	4215 (13'10")
	Max dumping height	3465 (11'4")	3465 (11'4")	4044 (13'3")
F. Maximum straight wall dig depths		2685 (8'10")	2685 (8'10")	3635 (11'11")
G. Bucket rotation degrees	Speed	194	196	196
	Power	164	166	166
Total sideshift		1178 (3'10")	1178 (3'10")	1178 (3'10")
Stabiliser spread		2115 (6'11")	2115 (6'11")	2115 (6'11")
Max. levelling angle degrees		8	8	8

SPECIFICATIONS

BACKHOE PERFORMANCE

	Standard Dipper		Deep Dig Dipper			
			Retracted		Extended	
	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket
Max Slew Torque kNm	25.32		25.32		25.32	
Dipper tearout kN (lbf) (SAE J49 Standard)	35.4 (7961)	35.4 (7961)	35.4 (7961)	35.4 (7961)	26.2 (5892)	26.2 (5892)
Bucket tearout kN (lbf) (SAE J49 Standard)	Speed Dig	52.9 (11897)	52.9 (11897)	52.5 (11807)	52.5 (11807)	52.5 (11807)
	Power Dig	–	60.7 (13651)	–	60.1 (13516)	60.1 (13516)

LOADER PERFORMANCE

	Standard Bucket	7 in 1 Bucket
Bucket breakout kN (lbf)	46.5 (10485)	44.8 (10097)
Arms breakout kN (lbf)	46.0 (10329)	42.3 (9597)
Lift capacity to full height kg (lb)	3307 (7291)	2977 (6563)

Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4

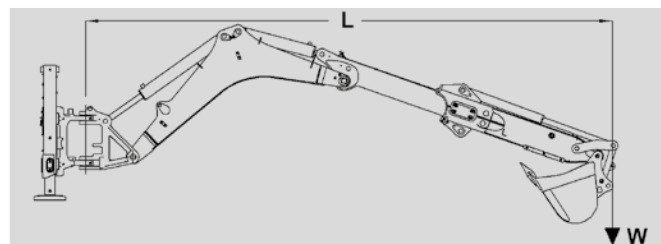
PALLET FORKS

(Standard / 7 in 1 buckets)

Fork length	mm (ft)	1067 (3' 6")
Section width	mm (ins)	80 (3")
Assembly weight	kg (lb)	150 (330)
Max. operating height	mm (ft)	3097 (10' 2")
Reach at ground level	mm (ft)	2660 (8' 9")
Reach at full height	mm (ft)	2251 (7' 5")
S.W.L. at 500mm load centre	kg (lb)	1000 (2204)

SIDESHIFT BACKHOE

Load chart for extending dipperstick using boom cylinder for lifting



W kg	L	2.8 m	3.7 m	4.3 m	4.8 m	5.2 m	5.8 m
		1159	969	947	942	889	797
		1159	866	595	467	397	334
		889	537	366	281	234	195

Backhoe Configuration (Top to Bottom)

- Centrally located 'over end' lift capacity (within 45° either side of the machine centreline)
- Centrally located lift capacity through the full swing arc
- Fully offset lift capacity through the full swing arc

Note

- Standard 600 mm (24") bucket fitted, for larger buckets subtract difference in weight from stated lift capacity
- Figures stated are rated capacities, and are the lower of either the rated hydraulic lift capacity, or rated tipping load
- Figures in bold print are stability limited figures

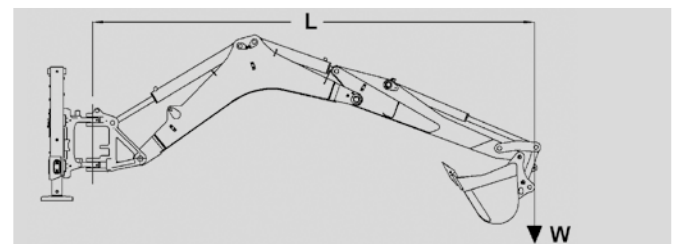
BACKHOE BUCKETS

Bucket	Width mm (ins)	Capacity m³ (ft³)	Weight Kg (lbs)
Standard trenching	305 (12)	0.074 (2.62)	99 (218)
	450 (18)	0.120 (4.25)	114 (251)
	600 (24)	0.177 (6.26)	136 (300)
	750 (30)	0.236 (8.32)	157 (346)
	900 (36)	0.296 (10.44)	178 (392)
Heavy duty	305 (12)	0.084 (2.96)	112 (247)
	450 (18)	0.140 (4.96)	128 (282)
	600 (24)	0.203 (7.15)	152 (335)
	750 (30)	0.266 (9.38)	174 (383)
	900 (36)	0.330 (11.66)	198 (436)
Ditch cleaning	1500 (60)	0.262 (9.2)	180 (397)
	1800 (72)	0.317 (11.2)	204 (450)
Trapezoidal	1200 (48)	0.258 (9.1)	146 (322)

LOADER BUCKETS

		Standard Bucket	7 in 1 Bucket
Width	mm (ft)	2311 (7.7)	2311 (7.7)
Capacity	m³ (yd³)	1.0 (1.32)	1.0 (1.32)
Weight	Kg (lbs)	400 (880)	730 (1606)

Load Chart for Standard Dipperstick using boom cylinder for lifting



W kg	L	2.8 m	3.6 m	4.1 m	4.4 m	4.8 m
		1369	1335	1235	1130	1048
		1369	878	685	592	530
		877	577	457	398	360

STANDARD AND OPTIONAL EQUIPMENT

NOTE: Standard and Optional equipment can vary by territory

ENGINE (STAGE IIIB/TIER 4i)

Perkins 1204E-E44TA
– Electronic fuel injection
– Auto idle
– In line fuel filter
– Alternator and fan drive by polygroove belt with auto tensioner

Wastegate turbo and charge air cooled

Electric fuel pump

4 Glow plug starting aid

Horizontal spin on oil filter

Primary fuel filter with water separator

Vertical element secondary fuel filter

500 hour service period

Oil to water internal plate oil cooler

Engine gradeability fore/aft and side/side 30°

Anti-freeze rated to -37° C

Coolant expansion bottle

Gear driven water pump

Puller type 9 bladed cooling fan

Dual element Powercore air cleaner

OPTION: Fan guard

DRIVELINE

Synchro shuttle transmission 4F/4R speeds

Direction control with neutral safety interlock

Transmission de-clutch on gear and loader controls

Servo power synchro transmission 4F/3R speeds

Column mounted rotational control lever

Automatic up and down shifting

Auto change down 4/3 and back

Kick down 2/1 and Kick up 1/2

Torque convertor stall ratio 3.01:1

Removable transmission oil cooler

Vertical element oil filter

Foot operated electro/hydraulic differential lock

Outboard planetary final drive axles

Large capacity outboard oil immersed disc brakes
• 2 Kevlar friction discs (289 mm dia) per side
• Total friction area per side 1238 cm² (192 in²)

Brakes self adjusting and self equalising

Dual brake pedals with combined or independent use

Internal wet disc parking brake
• Max Parking Slope (unladen) 1:2
• Max Parking Slope (laden) 1:2.5

Hydrostatic steering with emergency manual operation

4WD standard

Selectable 2 and 4 wheel braking in all gears

Selectable 2 and 4WD

FRONT TYRE OPTIONS:

• Industrial 16/70 x 20 14 Ply Tubeless
• Agricultural 405/70 x 20 14 Ply Tubeless

CAB AND CANOPY

ROPS/FOPS conform to ISO 3471/3449

Access from both sides

Self cleaning footsteps and large grab handles

Internal rear view mirror

Folding external rear view mirrors

2 cup holders

Coat hook

Tilt and telescopic steering wheel

Front and rear horn

Seat storage for operators manual

2" (51 mm) retractable seat belt

3 auxiliary 12 volt outlets

Cab with 2 door access

Partial door locking

Opening rear quarter windows

Full depth up and over rear window

Laminated windscreen

Tinted toughened safety glass

Front and rear screen washers and wipers

Standard fabric seat with mechanical suspension

Electronic rotary hand throttle incorporating auto idle

Heater (7.37 kW)

Lockable chilled storage box

Digital clock

Cell phone holder with power plug

Pre installation of wiring for radio

Internal noise level 78 dB(a)

12 audible and visual warning lamps

Engine hour meter

4 rear work lights

3 gauges for engine oil temperature, fuel and rpm

2 external power sockets for beacon

CAB OPTIONS:

• Air conditioning (7.6 kW cooling)
• Premium high back seat, heated with air suspension
• 3 in seat belt
• Speedometer

LOADER

Hydro-Mechanical self levelling

Control lever with transmission and pump unload buttons

Single bucket cylinder

Bucket dump cylinder cushioning

Return to dig

Float position with positive hold

Bucket level indicator

Integral Loader arm safety bar

Standard bucket 1 m³ (1.32 yd³) with lifting eye

7 in 1 bucket 1 m³ (1.32 yd³) with lifting eye

Bucket teeth or bolt on reversible cutting edge

7 in 1 bucket control lever with dual function

OPTIONS:

• Pallet forks with safe working load of 1000 kgs
• 3rd hydraulic line with standard bucket
• Hose burst valves
• Ride control
• Bucket tooth guard
• Mechanical or hydraulic quick attach

BACKHOE

Curved style boom

Standard dipperstick

Outer slide "Deep Dig" dipperstick

Externally adjustable lubrication free wear pads (11)

Thumb cylinder mounting bracket incorporated

Replaceable serrated clamping plates

Electro/hydraulic dual transport lock

Externally adjustable stabiliser wear pads

SAE/ISO/diagonal 2 lever controls

Standard trenching buckets with reversible side cutters

OPTIONS:

• Stabiliser lock out valves
• Boom and Dipper hose burst valves
• Hydraulic and Mechanical quick attach
• Two auxiliary circuits with single and double acting operation
• HD buckets with power and speed positions
• Object handling kit
• Quick release rubber street pads
• Pilot controls
• Hydraulically operated thumb attachment

GENERAL POINTS

Heavy duty chassis construction

Lockable side mounted toolbox

Fully tilting engine hood

Front hard nose counterweight

Lifting eyes and tie downs (2 front and rear)

OPTIONS:

• Reverse warning alarm
• Front fenders
• 2 extra front counterweights 42 kg (92 lbs) each

SPECIFICATIONS

ENGINE (STAGE IIIB/TIER 4i)

Perkins 1204E-E44TA	
– Wastegate turbocharger	
– Charge air cooling	
– Torque rise 39%	
– Electronic fuel injection	
Cylinders	4
Capacity	4.4 L (269 in³)
Rated speed	2200 rpm
Gross power @ 2200 rpm cert. rating to UN/ECE R120	74.5 kW (100 hp*)
Derived net rating @ 2200 rpm to ISO/80/1269/EC	69.9 kW* (93.7 hp*)
Max Torque @ 1400 rpm	
UN/ECE R120	450 Nm* (332 lbf.ft*)
ISO 80/1269/EC	423 Nm* (312 lbf.ft*)

* Nominal non-certified values

ELECTRICS

Wiring and connectors meet IP67 standard	
Maintenance free battery	
12 volt negative ground	
Battery Isolator	
Jump start posts	
120 amp alternator	
Blade type fuses	
110 A/hr single battery with 920 CCA - EN Standard	
170 A/hr dual batteries with 1600 CCA - EN Standard	

CAPACITIES

	Ltrs (gals)
Fuel tank	140 (30.8)
Engine coolant	16.0 (3.5)
Engine oil (including filter)	8.5 (1.9)
Synchro Shuttle Transmission	15.0 (3.3)
Servo Power Synchro Transmission	15.0 (3.3)
Rear axle (including final drives)	15.5 (3.4)
Front axle (including final drives)	9.5 (2.1)
Hydraulic tank	92.0 (20.4)

AXLES AND BRAKES

– Outboard planetary final drives for easier servicing	
– Foot operated differential lock with 100% lockup	
– 16° front axle oscillation to maintain maximum ground contact and traction	
– High capacity outboard mounted wet disc brakes	
– Self equalizing and self adjusting	
– Internal wet disc parking brake	
– Selectable 2 or 4 wheel braking	

Axle Ratings	Max Static Loading	Max Dynamic Loading
Front kN (lb)	225 (50582)	90 (20259)
Rear kN (lb)	187.5 (42152)	75 (16867)

OPERATING WEIGHTS

Base Machine Weight (8433 Kg)	
Add/Delete	
7 in 1 multi-purpose (1.2 m³)	+ 337 kg (743 lbs)
7 in 1 multi-purpose fork kit	+ 150 kg (330 lbs)
Deep Dig Dipper	+ 235 kg (518 lbs)
ROPS Frame	- 150 kg (330 lbs)

Base operating weight includes cab, standard loader bucket, standard dipper stick, 600 mm bucket, full fuel tank and 75 kg operator.

TRANSMISSION

– 4 speed synchro shuttle gearbox	
– Modulated forward and reverse clutch packs enable smooth direction changes	
– De-clutch button on shift lever	
– Direction control with neutral safety interlock	
– Single stage torque converter with 3.01:1 stall ratio	

Tyres	Front:	16/70 x 12	16/70 x 12	16/70 x 12
	Rear:	18.4 x 26	16.9 x 28	16.9 x 30
Travel Speeds				
Forward/Reverse				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (13.0)
4th	Km/h (mph)	40.5 (25.1)	40.0 (24.8)	41.0 (25.6)

– 4 speed Servo Power Synchro	
– Automatic and manual shifting in all 4 gears	
– Push button kickdown and kick up in 1st and 2nd gear	
– Auto drop down from 4th to 3rd and back	
– Single stage torque converter with 3.01:1 stall ratio	

Tyres	Front:	16/70 x 20	16/70 x 20	16/70 x 20
	Rear:	18.4 x 26	16.9 x 28	16.9 x 30
Travel Speeds				
Forward				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (13.0)
4th	Km/h (mph)	40.5 (25.1)	40.0 (24.8)	41.0 (25.6)
Reverse				
1st	Km/h (mph)	5.7 (3.6)	5.7 (3.5)	5.9 (3.7)
2nd	Km/h (mph)	9.2 (5.7)	9.1 (5.7)	9.6 (5.9)
3rd	Km/h (mph)	20.3 (12.6)	20.0 (12.4)	21.0 (18.0)

TURNING CIRCLES

		Over Tyres	Over Bucket
Without brakes	m (ft)	7.9 (25' 9")	10.6 (34' 7")
With brakes	m (ft)	7.0 (23' 0")	9.7 (31' 10")
Depending on tyre size			

TYRES

Front	16/70 – 20 14PR	Semi-industrial
Rear	16.9 – 30 14PR	Semi-industrial
Front	405/70 20 14PR	Semi-agricultural
Rear	18.4 – 26 12PR	Semi-agricultural
Front	400/70-20 TL 149A8	Multi-purpose
Rear	420/80-30 TL 155A8	Multi-purpose
Front	400/70-20 TL 149A8	Multi-purpose
Rear	480/80-26 TL 160A8	Multi-purpose
Front	400/70-20 TL 149A8	Multi-purpose
Rear	440/80-28 TL 156A8	Multi-purpose

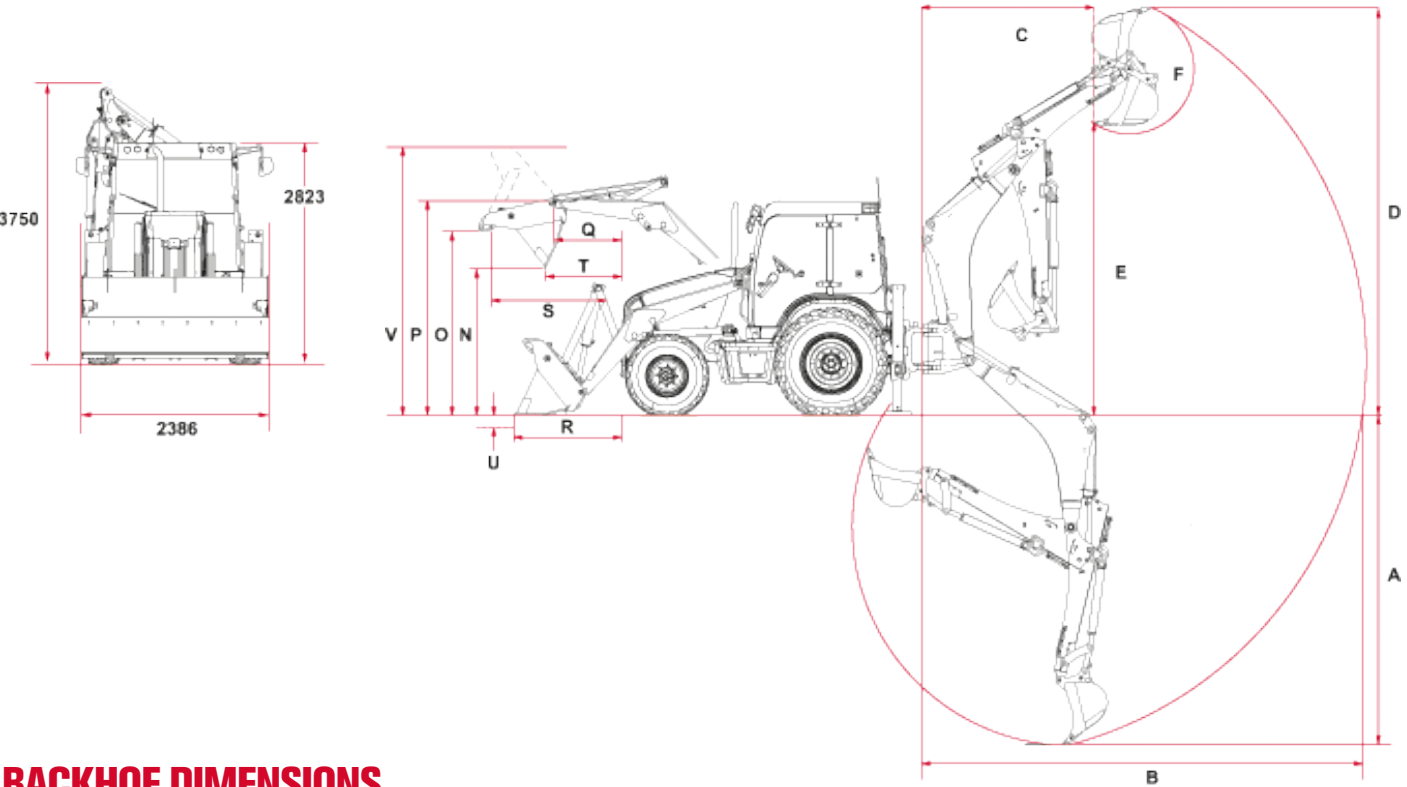
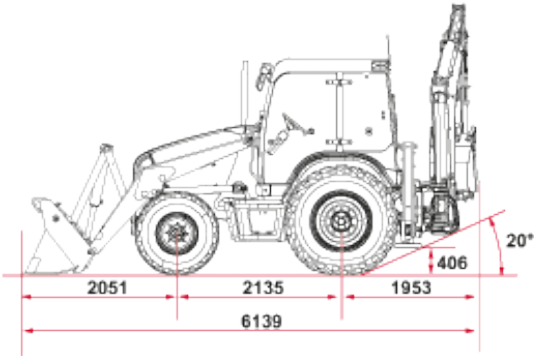
HYDRAULIC SYSTEM

– Tandem Gear Pumps with unloader valve on mechanical excavator control	
– Variable piston pump on servo excavator control	
– Closed centre control valves	
– Automatic or manually activated pump flows	
– Power Boost to match digging power and speed to application	
– External oil level gauge	
– Removable oil cooler	
– 125 micron suction strainer	
– 10 micron return line filter	

Main pump flow @ 2200 rpm L/min(gpm)	80 (17.7)
Secondary pump flow @ 2200 rpm L/min(gpm)	80 (17.7)
Single variable piston pump @ 2200 rpm L/min(gpm)	152 (33.4)
System main relief setting bar (psi)	250 (3625)
Unloader settings bar (psi) (Gear pump only)	207 (3000)

LOADER DIMENSIONS

	Standard / 7 in 1 Bucket mm (ft)
N. Dump clearance – at 45°	2850 (9'4")
O. Loadover height	3369 (11'1")
P. Hinge pin height	3615 (11'10")
Q. Pin forward reach	315 (1'0")
R. Reach at ground	1451 (4'9")
S. Max. reach at full height	1186 (3'11")
T. Reach at full height – at 45°	731 (2'5")
U. Dig depth	156 (6")
Rollback at ground	50°
Max. dump angle fully raised	47°
V. Overall operating height	4682 (15'4")



BACKHOE DIMENSIONS

Standard Dipper – mm (ft)		Deep Dig Dipper – mm (ft)	
		Retracted	Extended
A. Dig depth	Maximum SAE	4498 (14'9")	5698 (18'8")
	2 ft Flat Bottom SAE	4448 (14'7")	5612 (18'5")
B. Reach - ground level to slew		5877 (19'3")	6950 (22'10")
C. Loading reach		2274 (7'6")	3293 (10'10")
D. Operating height		5509 (18'1")	6143 (20'2")
E. Loading height SAE		3855 (12' 8")	4489 (14'9")
	Max dumping height	3791 (12'5")	4424 (14'6")
F. Bucket rotation degrees	Speed	197	197
	Power	166	166
Total sideshift		1178 (3'10")	1178 (3'10")
Stabiliser spread		2115 (6'11")	2115 (6'11")
Max. levelling angle degrees		8	8

SPECIFICATIONS

BACKHOE PERFORMANCE

	Standard Dipper		Deep Dig Dipper			
			Retracted		Extended	
	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket
Max slew torque kNm	27.8		27.8		27.8	
Dipper tearout kN (lbf) (SAE J49 Standard)	41.1 (9240)	41.1 (9240)	41.1 (9240)	41.1 (9240)	29 (6519)	29 (6519)
Bucket tearout kN (lbf) (SAE J49 Standard)	Speed Dig	60.3 (13556)	60.3 (13556)	60.3 (13556)	60.3 (13556)	60.3 (13556)
	Power Dig	–	67.8 (15242)	–	67.8 (15242)	67.8 (15242)

LOADER PERFORMANCE

	Standard Bucket	7 in 1 Bucket
Bucket breakout kN (lbf)	55.4 (12454)	53.7 (12072)
Arms breakout kN (lbf)	51.1 (11487)	47.8 (10746)
Rated operating capacity (ISO 14397) (lb)	3503 kg (7722)	3166 kg (6980)
Full height (lb)	3966 kg (8744)	3629 kg (8000)

Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4.

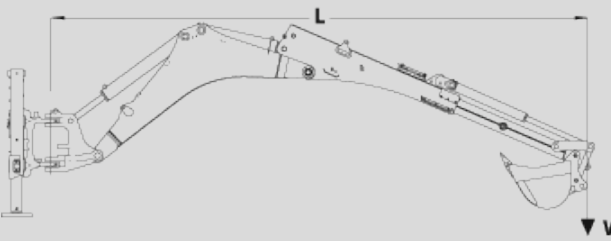
PALLET FORKS

(Standard / 7 in 1 buckets)

Fork length	mm (ft)	1067 (3'6")
Section width	mm (ins)	80 (3")
Assembly weight	kg (lb)	150 (330)
Max. operating height	mm (ft)	3097 (10'2")
Reach at ground level	mm (ft)	2660 (8'9")
Reach at full height	mm (ft)	2251 (7'5")
S.W.L. at 500 mm Load Centre	kg (lb)	1000 (2204)

SIDESHIFT BACKHOE

Load Chart for Extending Dipperstick using boom cylinder for lifting



W kg	L	3.2 m	4.1 m	4.7 m	5.2 m	5.8 m	6.1 m
		1106	1033	931	846	743	717
		1038	578	417	334	265	255
		442	213	127	83	50	48

Backhoe Configuration (Top to Bottom)

- Centrally located 'over end' lift capacity (within 45° either side of the machine centreline)
- Centrally located lift capacity through the full swing arc
- Fully offset lift capacity through the full swing arc

Note

- Standard 600 mm (24") bucket fitted, for larger buckets subtract difference in weight from stated lift capacity
- Figures stated are rated capacities, and are the lower of either the rated hydraulic lift capacity, or rated tipping load
- Figures in bold print are stability limited figures

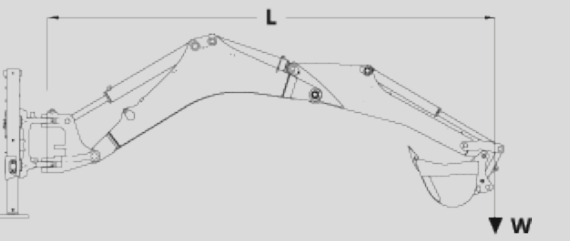
BACKHOE BUCKETS

Bucket	Width mm (ins)	Capacity m³ (ft³)	Weight Kg (lbs)
Standard trenching	305 (12)	0.074 (2.62)	99 (218)
	450 (18)	0.120 (4.25)	114 (251)
	600 (24)	0.177 (6.26)	136 (300)
	750 (30)	0.236 (8.32)	157 (346)
Heavy duty	900 (36)	0.296 (10.44)	178 (392)
	305 (12)	0.084 (2.96)	112 (247)
	450 (18)	0.140 (4.96)	128 (282)
	600 (24)	0.203 (7.15)	152 (335)
Ditch cleaning	750 (30)	0.266 (9.38)	174 (383)
	900 (36)	0.330 (11.66)	198 (436)
	1500 (60)	0.262 (9.2)	180 (397)
	1800 (72)	0.317 (11.2)	204 (450)
Trapezoidal	1200 (48)	0.258 (9.1)	146 (322)

LOADER BUCKETS

		Standard Bucket	7 in 1 Bucket
Width	mm (ft)	2386 (7'8")	2386 (7'8")
Capacity	m³ (yd³)	1.2 (1.57)	1.2 (1.57)
Weight	Kg (lbs)	430 (948)	767 (1691)

Load Chart for Standard Dipperstick using boom cylinder for lifting



W kg	L	3.2 m	3.8 m	4.3 m	4.6 m	5.0 m
		1368	1366	1221	1126	1052
		1214	820	658	576	524
		614	414	327	284	262

STANDARD AND OPTIONAL EQUIPMENT

NOTE: Standard and Optional equipment can vary by territory

ENGINE (STAGE IIIB/TIER 4i)

Perkins 1204E-E44TA
Wastegate turbo and charge air cooled
Electric fuel pump
Electronic fuel injection
Auto Idle
4 Glow plug starting aid
Horizontal spin on oil filter
Primary fuel filter with water separator
Vertical element secondary fuel filter
In line fuel filter
500 hour service period
Oil to water internal plate oil cooler
Engine gradeability fore/aft and side/ side 30°
Anti-freeze rated to -37° C
Coolant header tank
Alternator and fan drive by polygroove belt with auto tensioner
Gear driven water pump
Puller type 9 bladed cooling fan
Dual element Powercore air cleaner
Stainless steel aftertreatment and exhaust stack
OPTION: Fan guard

DRIVELINE

Synchro shuttle transmission 4F/4R speeds
Direction control with neutral safety interlock
Transmission de-clutch on gear and loader controls
Servo power synchro transmission 4F/3R speeds
Column mounted rotational control lever
Automatic up and down shifting
Auto change down 4/3 and back
Kick down 2/1 and Kick up 1/2
Torque Convertor stall ratio 3.01:1
Removable transmission oil cooler
Vertical element oil filter
Foot operated electro/hydraulic differential lock
Outboard Planetary final drive axles
Large capacity outboard oil immersed disc brakes
• 2 Kevlar friction discs (289 mm dia) per side
• Total friction area per side 1238 cm ² (192 in ²)
Brakes self adjusting and self equalising
Dual brake pedals with combined or independent use
Internal wet disc parking brake
• Max Parking Slope (unladen) 1:2
• Max Parking Slope (laden) 1:2.5
Hydrostatic steering with emergency manual operation.
4WD standard
Selectable 2 and 4 wheel braking in all gears
Selectable 2WD and 4WD

CAB

ROPS/FOPS conform to ISO 3471/3449
Self cleaning footsteps and large grab handles
Internal rear view mirror
Folding external rear view mirrors
2 cup holders
Coat hook
Tilt and Telescopic steering wheel
Front and rear horn
Seat storage for operators manual
2 in (51 mm) retractable seat belt
3 auxiliary 12 volt outlets
Cab with 2 door access
Partial door locking
Opening rear quarter windows with internal operation
Full depth up and over rear window
Laminated windscreen
Tinted toughened safety glass
Front and rear screen washers and wipers
Standard fabric seat with mechanical suspension
Rotary hand throttle incorporating auto idle
Heater (7.37 kW)
Lockable chilled storage box
Digital clock
Cell phone holder with power plug
Pre installation of wiring for radio
Internal noise level 78 dB(a)
12 audible and visual warning lamps
Engine hour meter
4 rear work lights
3 Gauges for engine oil temperature, fuel and rpm
2 external power sockets for beacon
CAB OPTIONS:
• Air conditioning (7.6 kW cooling)
• Automatic Temperature Control
• Premium high back seat, heated with air suspension
• 3 in seat belt
• Speedometer

LOADER

Hydro-Mechanical self levelling
Multifunctional control lever
Single bucket cylinder
Bucket cylinder cushioning
Return to dig
Float position with positive hold
Bucket level indicator
Integral Loader arm safety bar
Standard bucket 1.2 m ³ with lifting eye
7 in 1 bucket 1.2 m ³ with lifting eye
Bucket teeth or bolt on reversible cutting edge
7 in 1 bucket operation by thumb slider control
OPTIONS:
• Pallet forks with safe working load of 1000 kgs
• 3rd hydraulic line with standard bucket
• Hose burst valves
• Ride control
• Bucket tooth guard
• Mechanical or hydraulic quick attach

BACKHOE

Curved style boom
Standard dipperstick
Inner slide "Deep Dig" dipperstick
Externally adjustable lubrication free wear pads (8)
Electro/hydraulic dual transport lock
Externally adjustable stabiliser wear pads
SAE/ISO/Diagonal 2 lever controls
Standard trenching buckets with reversible side cutters
OPTIONS:
• Stabiliser lock out valves
• Boom and Dipper hose burst valves
• Hydraulic and Mechanical quick attach
• Two auxiliary circuits with single and double acting operation
• HD buckets with power and speed positions
• Object handling kit
• Quick release rubber street pads

GENERAL POINTS

Heavy duty chassis construction
Lockable side mounted toolbox
Fully tilting engine hood
Front hard nose counterweight
Lifting eyes and Tie downs (2 front and rear)
Tandem gear pump hydraulics with mechanically operated Backhoe controls
Variable flow hydraulics with pilot operated Backhoe controls
Pilot controls with constant flow feature
OPTIONS:
• Reverse Warning Alarm
• Front Fenders
• Premium Brand Tyres

SPECIFICATIONS

ENGINE (STAGE IIIB/TIER 4i)

Perkins 1204E-E44TA – Wastage turbocharger – Charge air cooling – Torque rise 39% – Electronic fuel injection	
Cylinders	4
Capacity	4.4 L (269 in³)
Rated speed	2200 rpm
Gross power @ 2200 rpm cert. rating to UN/ECE R120	74.5 kW (100 hp*)
Derived net rating @ 2200 rpm to ISO/80/1269/EC	69.9 kW* (93.7 hp*)
Max Torque @ 1400 rpm UN/ECE R120 ISO 80/1269/EC	450 Nm* (332 lbf.ft*) 423 Nm* (312 lbf.ft*)

* Nominal Non-certified Values

ELECTRICS

Wiring and connectors meet IP69 standard
Maintenance free battery
12 volt negative ground
Battery Isolator
Jump start posts
120 amp alternator
Blade type fuses
110 A/hr single battery with 920 CCA - EN Standard
170 A/hr dual batteries with 1600 CCA - EN Standard

CAPACITIES

	Ltrs (gals)
Fuel tank	140 (30.8)
Engine coolant	16.0 (3.5)
Engine oil (including filter)	8.5 (1.9)
Servo Power Synchro Transmission	15.0 (3.3)
Rear axle (including final drives)	14.5 (3.19)
Front axle (including final drives)	7.5 (1.65)
Rear reduction axle (each)	1.5 (0.33)
Front reduction axle (each)	1.0 (0.22)
Hydraulic tank	92.0 (20.4)

AXLES AND BRAKES

Outboard planetary final drives for easier servicing Foot operated differential lock with 100% lockup 16° front axle oscillation to maintain maximum ground contact and traction Self equalizing and self adjusting Internal wet disc parking brake Selectable 2 or 4 wheel braking		
Axle Ratings	Max Static Loading	Max Dynamic Loading
Front kN (lb)	225 (50582)	90 (20233)
Rear kN (lb)	275 (61822)	105 (23605)

OPERATING WEIGHTS

Base Machine Weight (8428 Kg)	
Add/Delete	
7 in 1 multi-purpose (1.2m³)	+ 337 kg (743 lbs)
7 in 1 multi-purpose fork kit	+ 150 kg (330 lbs)
Deep Dig Dipper	+ 235 kg (584 lbs)
ROPS Frame	- 150 kg (330 lbs)

Base operating weight includes cab, standard loader bucket, standard dipper stick, 600 mm bucket, full fuel tank and 75 kg operator.

TRANSMISSION

– 4 speed Servo Power Synchro – Automatic and manual shifting in all 4 gears – Push button kickdown and kick up in 1st and 2nd gear – Auto drop down from 4th to 3rd and back – Single stage torque convertor with 3.01:1 stall ratio		
Tyres	Front: Rear:	16.9 x 24 16.9 x 24
Travel Speeds		
Forward		
1st	Km/h (mph)	6.2 (3.8)
2nd	Km/h (mph)	10.0 (6.2)
3rd	Km/h (mph)	21.7 (13.5)
4th	Km/h (mph)	39.5 (27.1)
Reverse		
1st	Km/h (mph)	6.2 (3.8)
2nd	Km/h (mph)	10.0 (6.2)
3rd	Km/h (mph)	21.7 (13.5)

TURNING CIRCLES

	Over Tyres	Over Bucket
2 wheel steer	11.4 m	13.1 m
4 wheel steer	7.3 m	9.3 m
With brake	6.7 m	8.8 m

TYRES

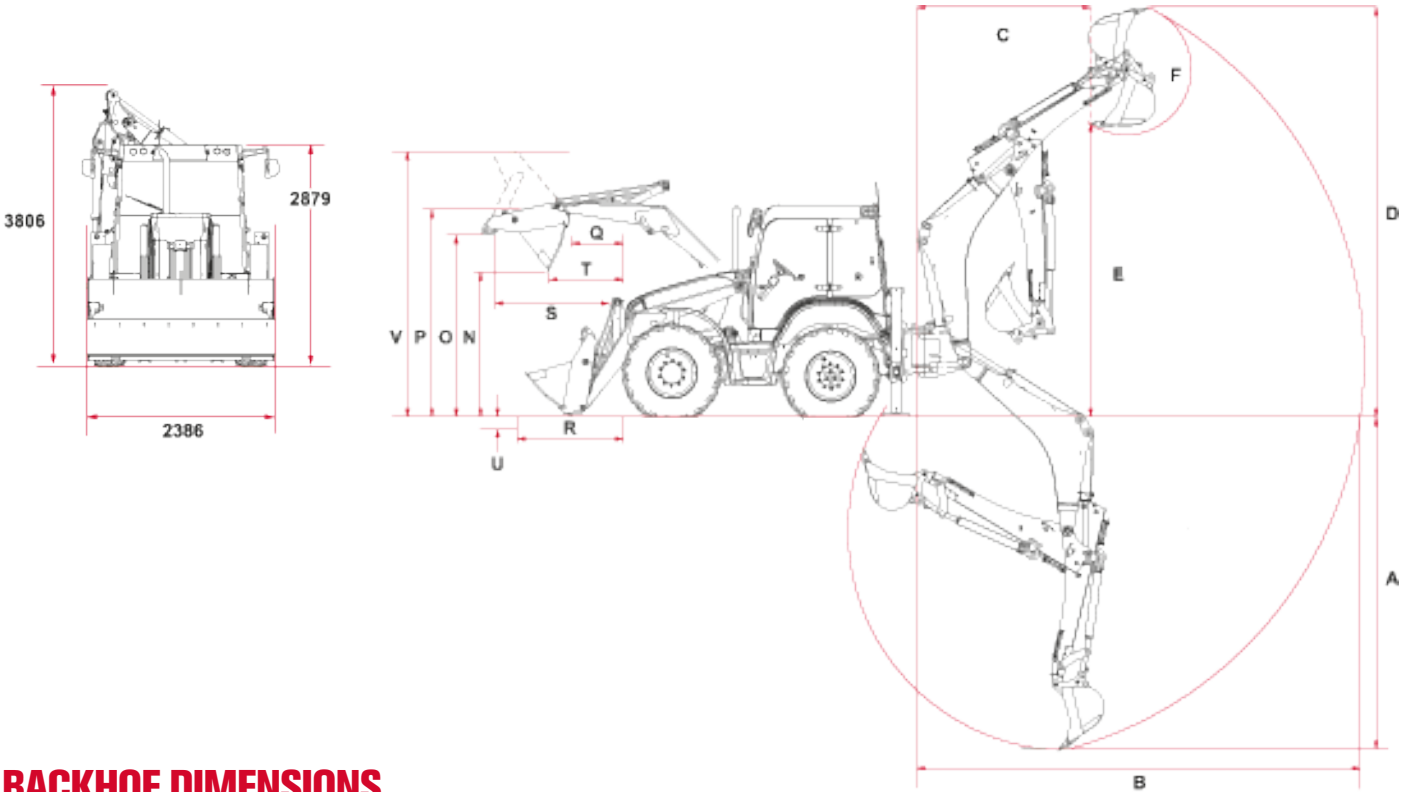
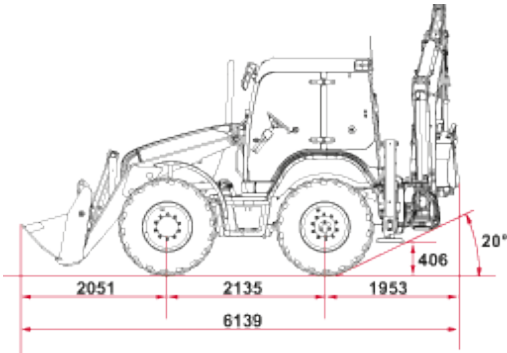
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Goodyear 440/80 R24 IND R4 IT530 Radial
Nokian 440/80 R24
Continental 445/70 R24 MPT70
Mitas 16.9 x 24 12P TI-04 IND

HYDRAULIC SYSTEM

– Tandem Gear Pumps with unloader valve on mechanical excavator control – Variable piston pump on servo excavator control – Closed centre control valves – Automatic or manually activated pump flows – Power Boost to match digging power and speed to application – External oil level gauge – Removable oil cooler – 125 micron suction strainer – 10 micron return line filter	
Main pump flow @ 2200 rpm L/min(gpm)	80 (17.7)
Secondary pump flow @ 2200 rpm L/min(gpm)	80 (17.7)
Single variable piston pump @ 2200 rpm L/min(gpm)	152 (33.4)
System main relief setting bar (psi)	250 (3625)
Unloader settings bar (psi) (Gear pump only)	207 (3000)

LOADER DIMENSIONS

	Standard / 7 in 1 Bucket mm (ft)
N. Dump clearance – at 45°	2906 (9'6")
O. Loadover height	3425 (11'3")
P. Hinge pin height	3671 (12'0")
Q. Pin forward reach	315 (1'0")
R. Reach at ground	1451 (4'9")
S. Max. reach at full height	1186 (3'11")
T. Reach at full height – at 45°	731 (2'5")
U. Dig depth	100 (4")
Rollback at ground	50°
Max. dump angle fully raised	47°
V. Overall operating height	4738 (15'6")



BACKHOE DIMENSIONS

		Standard Dipper – mm (ft)	Deep Dig Dipper – mm (ft)	
			Retracted	Extended
A. Dig depth	Maximum SAE	4442 (14'7")	4498 (14'9")	5642 (18'6")
	2 ft Flat Bottom SAE	4392 (14'5")	4448 (14'7")	5556 (18'3")
B. Reach - ground level to slew		5877 (19'3")	5877 (19'3")	6950 (22'10")
C. Loading reach		2274 (7'6")	2274 (7'6")	3293 (10'10")
D. Operating height		5565 (18'3")	5509 (18'1")	6199 (20'4")
E. Loading height SAE		3911 (12'10")	3855 (12'8")	4545 (14'11")
	Max dumping height	3847 (12'7")	3791 (12'5")	4480 (14'8")
F. Bucket rotation degrees	Speed	197	197	197
	Power	166	166	166
Total sideshift		1178 (3'10")	1178 (3'10")	1178 (3'10")
Stabiliser spread		2115 (6'11")	2115 (6'11")	2115 (6'11")
Max. levelling angle degrees		8	8	8

SPECIFICATIONS

BACKHOE PERFORMANCE

	Standard Dipper		Deep Dig Dipper			
			Retracted		Extended	
	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket	Standard Bucket	HD Bucket
Max slew torque kNm	27.8		27.8		27.8	
Dipper tearout kN (lbf) (SAE J49 Standard)	41.1 (9240)	41.1 (9240)	41.1 (9240)	41.1 (9240)	29 (6519)	29 (6519)
Bucket tearout kN (lbf) (SAE J49 Standard)	Speed Dig	60.3 (13556)	60.3 (13556)	60.3 (13556)	60.3 (13556)	60.3 (13556)
	Power Dig	–	67.8 (15242)	–	67.8 (15242)	67.8 (15242)

LOADER PERFORMANCE

	Standard Bucket	7 in 1 Bucket
Bucket breakout kN (lbf)	55.4 (12454)	53.7 (12072)
Arms breakout kN (lbf)	51.1 (11487)	47.8 (10746)
Rated operating capacity (ISO 14397) (lb)	3503 kg (7722)	3166 kg (6980)
Hydraulic lift capacity to full height (lb)	3966 kg (8744)	3629 kg (8000)

Loader specifications are stated in accordance with ISO 14397 and EN474 Part 4.

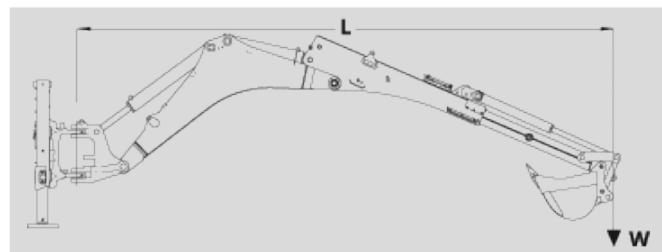
PALLET FORKS

(Standard / 7 in 1 buckets)

Fork length	mm (ft)	1067 (3'6")
Section width	mm (ins)	80 (3")
Assembly weight	kg (lb)	150 (330)
Max. operating height	mm (ft)	3153 (10'4")
Reach at ground level	mm (ft)	2660 (8'9")
Reach at full height	mm (ft)	2251 (7'5")
S.W.L. at 500 mm load centre	kg (lb)	1000 (2204)

SIDESHIFT BACKHOE

Load Chart for Extending Dipperstick using boom cylinder for object handling



W kg	L	3.2 m	4.1 m	4.7 m	5.2 m	5.8 m	6.1 m
		1106	1033	931	846	743	717
		1038	578	417	334	265	255
		442	213	127	83	50	48

Backhoe Configuration (Top to Bottom)

- Centrally located 'over end' lift capacity (within 45° either side of the machine centreline)
- Centrally located lift capacity through the full swing arc
- Fully offset lift capacity through the full swing arc

Note

- Standard 600 mm (24") bucket fitted, for larger buckets subtract difference in weight from stated lift capacity
- Figures stated are rated capacities, and are the lower of either the rated hydraulic lift capacity, or rated tipping load
- Figures in bold print are stability limited figures

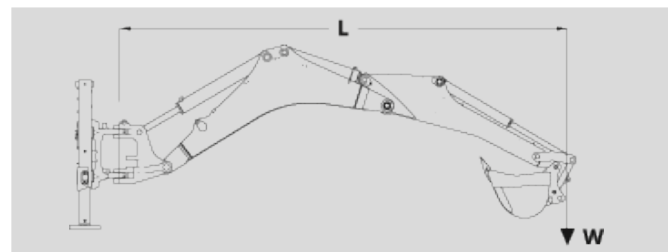
BACKHOE BUCKETS

Bucket	Width mm (ins)	Capacity m³ (ft³)	Weight Kg (lbs)
Standard trenching	305 (12)	0.074 (2.62)	99 (218)
	450 (18)	0.120 (4.25)	114 (251)
	600 (24)	0.177 (6.26)	136 (300)
	750 (30)	0.236 (8.32)	157 (346)
Heavy duty	900 (36)	0.296 (10.44)	178 (392)
	305 (12)	0.084 (2.96)	112 (247)
	450 (18)	0.140 (4.96)	128 (282)
	600 (24)	0.203 (7.15)	152 (335)
Ditch cleaning	750 (30)	0.266 (9.38)	174 (383)
	900 (36)	0.330 (11.66)	198 (436)
	1500 (60)	0.262 (9.2)	180 (397)
	1800 (72)	0.317 (11.2)	204 (450)
Trapezoidal	1200 (48)	0.258 (9.1)	146 (322)

LOADER BUCKETS

		Standard Bucket	7 in 1 Bucket
Width	mm (ft)	2386 (7'8")	2386 (7'8")
Capacity	m³ (yd³)	1.2 (1.57)	1.2 (1.57)
Weight	Kg (lbs)	430 (948)	767 (1691)

Load Chart for Standard Dipperstick using boom cylinder for object handling



W kg	L	3.2 m	3.8 m	4.3 m	4.6 m	5.0 m
		1368	1366	1221	1126	1052
		1214	820	658	576	524
		614	414	327	284	262

STANDARD AND OPTIONAL EQUIPMENT

NOTE: Standard and Optional equipment can vary by territory

ENGINE (STAGE IIIB/TIER 4i)

Perkins 1204E-E44TA
Wastegate turbo and charge air cooled
Electric fuel pump
Electronic fuel injection
Auto Idle
4 Glow plug starting aid
Horizontal spin on oil filter
Primary fuel filter with water separator
Vertical element secondary fuel filter
In line fuel filter
500 hour service period
Oil to water internal plate oil cooler
Engine gradeability fore/aft and side/ side 30°
Anti-freeze rated to -37° C
Coolant header tank
Alternator and fan drive by polygroove belt with auto tensioner
Gear driven water pump
Puller type 9 bladed cooling fan
Dual element Powercore air cleaner
Stainless steel aftertreatment and exhaust stack
OPTION: Fan guard

DRIVELINE

Direction control with neutral safety interlock
Servo power synchro transmission 4F/3R speeds
Column mounted rotational control lever
Automatic up and down shifting
Auto change down 4/3 and back
Kick down 2/1 and Kick up 1/2
Torque Convertor stall ratio 3.01:1
Removable transmission oil cooler
Vertical element oil filter
Foot operated electro/hydraulic differential lock
Outboard Planetary final drive axles
Large capacity inboard oil immersed disc brakes <ul style="list-style-type: none"> • 3 Kevlar friction discs (222 mm dia) per side • Total friction area per side 1070 cm² (166 in²)
Brakes self adjusting and self equalising
Dual brake pedals with combined or independent use
Internal wet disc parking brake <ul style="list-style-type: none"> • Max Parking Slope (unladen) 1:2 • Max Parking Slope (laden) 1:2.5
Hydrostatic steering with emergency manual operation.
4WD standard
Selectable 2 and 4 wheel braking in all gears
Selectable 2WD and 4WD

CAB

ROPS/FOPS conform to ISO 3471/3449
Self cleaning footsteps and large grab handles
Internal rear view mirror
Folding external rear view mirrors
2 cup holders
Coat hook
Tilt and Telescopic steering wheel
Front and rear horn
Seat storage for operators manual
2 in (51 mm) retractable seat belt
3 auxiliary 12 volt outlets
Cab with 2 door access
Partial door locking
Opening rear quarter windows with internal operation
Full depth up and over rear window
Laminated windscreen
Tinted toughened safety glass
Front and rear screen washers and wipers
Standard fabric seat with mechanical suspension
Heater (7.37 kW)
Lockable chilled storage box
Digital clock
Cell phone holder with power plug
Pre installation of wiring for radio
Internal noise level 78 dB(a)
12 audible and visual warning lamps
Engine hour meter
4 rear work lights
3 Gauges for engine oil temperature, fuel and rpm
2 external power sockets for beacon
CAB OPTIONS: <ul style="list-style-type: none"> • Air conditioning (7.6 kW cooling) • Automatic Temperature Control • Premium high back seat, heated with air suspension • 3 in seat belt • Speedometer

LOADER

Hydro-Mechanical self levelling
Multifunctional control lever
Single bucket cylinder
Bucket cylinder cushioning
Return to dig
Float position with positive hold
Bucket level indicator
Integral Loader arm safety bar
Standard bucket 1.2 m ³ with lifting eye
7 in 1 bucket 1.2 m ³ with lifting eye
Bucket teeth or bolt on reversible cutting edge
7 in 1 bucket operation by thumb slider control
OPTIONS: <ul style="list-style-type: none"> • Pallet forks with safe working load of 1000 kgs • 3rd hydraulic line with standard bucket • Hose burst valves • Ride control • Bucket tooth guard • Mechanical or hydraulic quick attach

BACKHOE

Curved style boom
Standard dipperstick
Inner slide "Deep Dig" dipperstick
Externally adjustable lubrication free wear pads (8)
Electro/hydraulic dual transport lock
Externally adjustable stabiliser wear pads
SAE/ISO/Diagonal 2 lever controls
Standard trenching buckets with reversible side cutters
OPTIONS: <ul style="list-style-type: none"> • Stabiliser lock out valves • Boom and Dipper hose burst valves • Hydraulic and Mechanical quick attach • Two auxiliary circuits with single and double acting operation • HD buckets with power and speed positions • Object handling kit • Quick release rubber street pads

GENERAL POINTS

Heavy duty chassis construction
Lockable side mounted toolbox
Fully tilting engine hood
Front hard nose counterweight
Lifting eyes and Tie downs (2 front and rear)
Tandem gear pump hydraulics with mechanically operated Backhoe controls
Variable flow hydraulics with pilot operated Backhoe controls
Pilot controls with constant flow feature
OPTIONS: <ul style="list-style-type: none"> • Reverse Warning Alarm • Front Fenders • Premium Brand Tyres

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Effective Date: April 2015. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Terex, the Terex Crown design and Works For You are trademarks of Terex Corporation or its subsidiaries. All rights are reserved. All other trademarks are property of their respective owners.

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