



ENHANCED TLB840 BACKHOE LOADER
SIDESHIFT MODEL

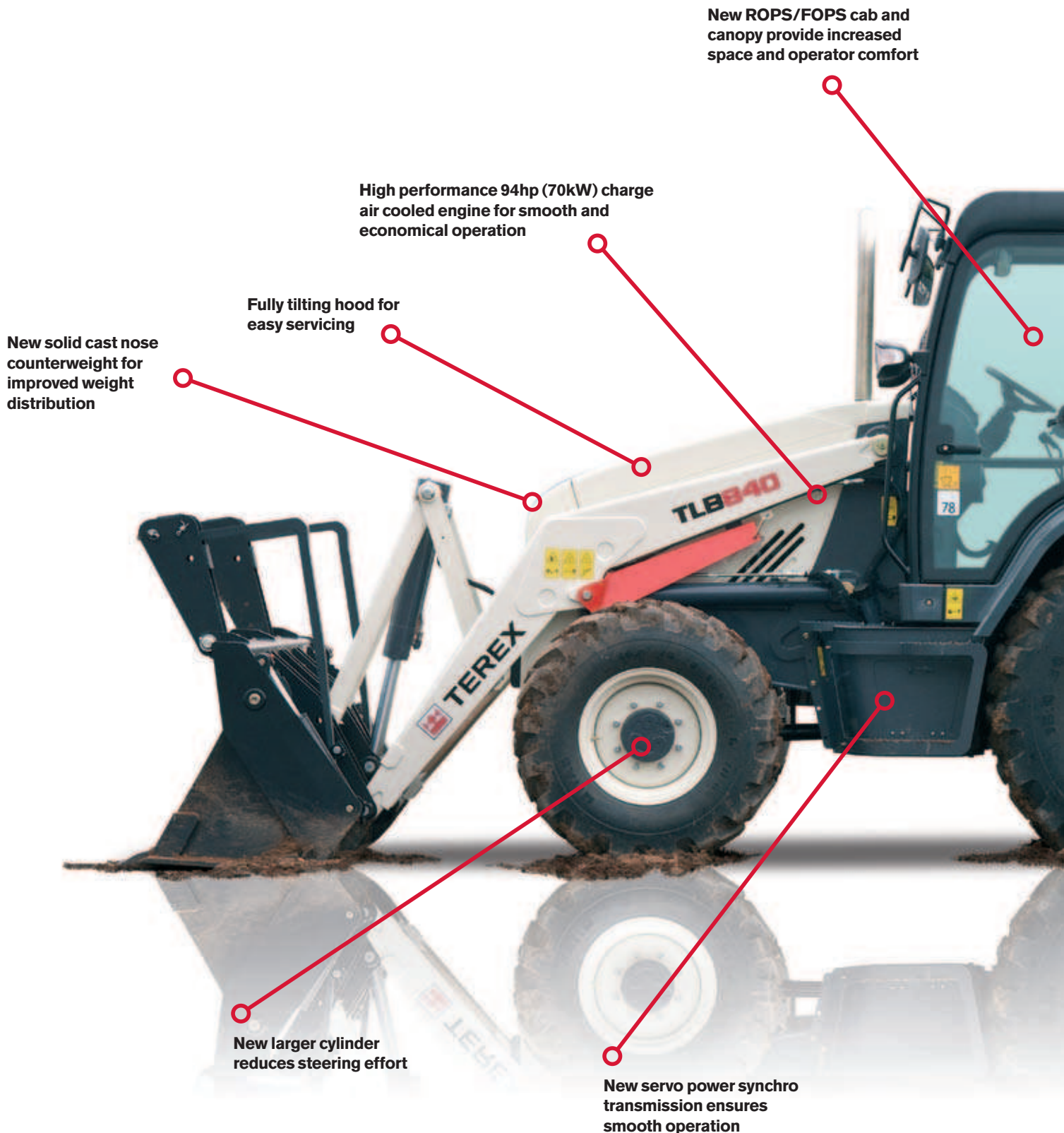
BREAKING NEW GROUND



WORKS FOR YOU.™

Courtesy of Machine.Market

DESIGNED TO GET YOUR JOB DONE



New ROPS/FOPS cab and canopy provide increased space and operator comfort

High performance 94hp (70kW) charge air cooled engine for smooth and economical operation

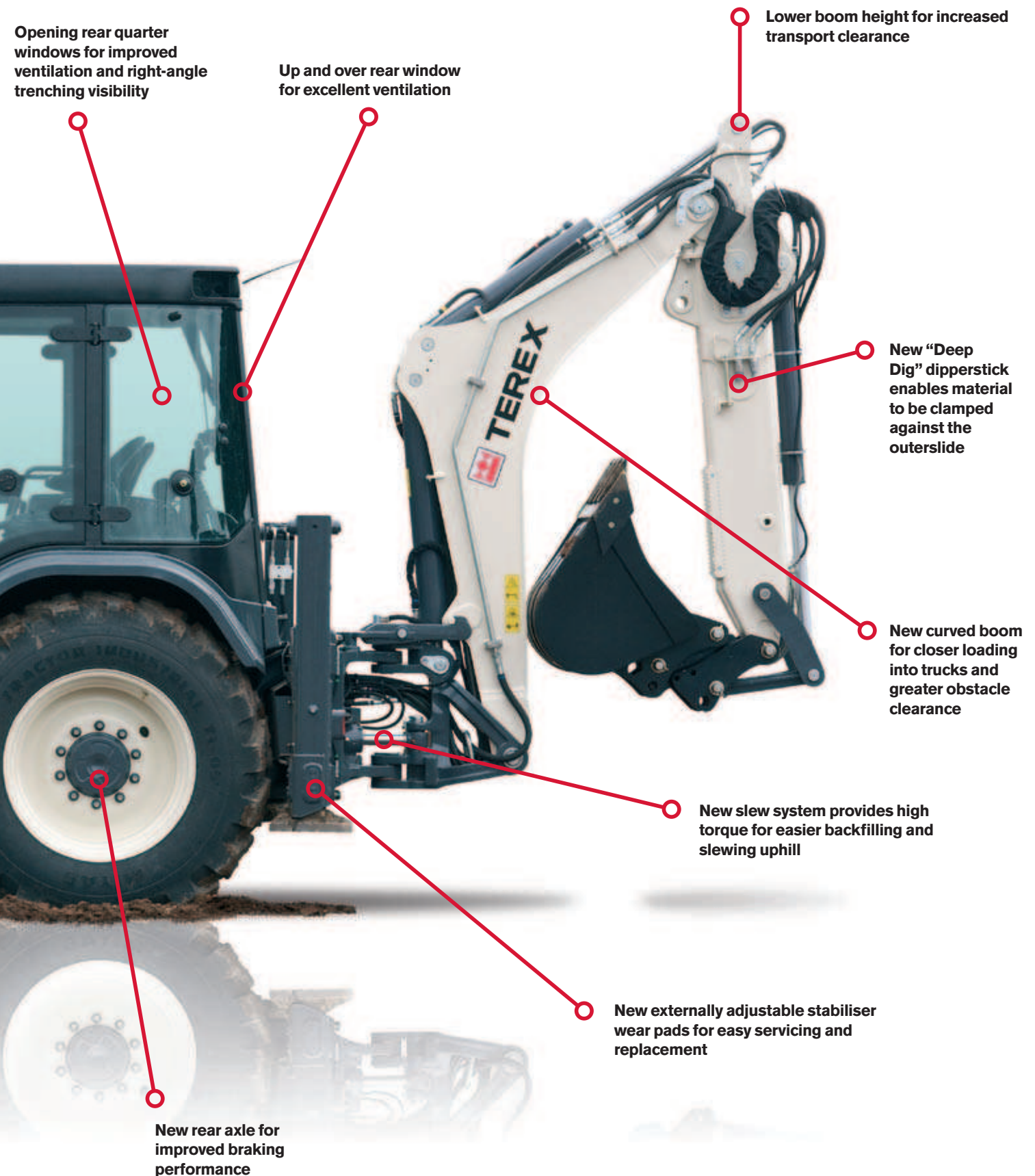
Fully tilting hood for easy servicing

New solid cast nose counterweight for improved weight distribution

New larger cylinder reduces steering effort

New servo power synchro transmission ensures smooth operation

ENHANCED TLB840 BACKHOE LOADER



Opening rear quarter windows for improved ventilation and right-angle trenching visibility

Up and over rear window for excellent ventilation

Lower boom height for increased transport clearance

New "Deep Dig" dipperstick enables material to be clamped against the outerslide

New curved boom for closer loading into trucks and greater obstacle clearance

New slew system provides high torque for easier backfilling and slewing uphill

New externally adjustable stabiliser wear pads for easy servicing and replacement

New rear axle for improved braking performance

SPECIFICATIONS

ENGINE

Perkins 1104D-44TA (Tier 3) with Wastegate turbocharger and Charge air cooling
 - Torque rise 31%
 - Mechanical fuel injection
 - Stainless steel muffler and Exhaust Stack
 - 500 hour service period*

Cylinders	4
Capacity	4.4L (269in ³)
Rated Speed	2200 rpm
Gross Power @ 2200rpm Cert. Rating to UN/ECE R120	70 (93.8) kW(hp)
Derived Net Rating @ 2200 rpm to ISO/80/1269/EC	65.7*(88.1*) kW(hp)
Max Torque @ 1400 rpm UN/ECE R120 ISO 80/1269/EC	395 (291*) Nm(lbft) 372* (274*) Nm(lbft)

* Nominal Non-certified Values

ELECTRICS

Wiring and connectors meet IP69 standard

Maintenance free battery

12 volt negative ground

Battery Isolator

Jump start posts

100 amp alternator

Blade type fuses

100 A/hr single battery with 830 CCA - EN Standard

140 A/hr dual batteries with 1260 CCA - EN Standard

CAPACITIES

	Ltrs (gals)
Fuel Tank	135 (29.7)
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
 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	8050 kg (17747 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)
ROPS Frame	- 150 kg (330 lbs)
Front Counterweight	+ 42 kg (92 lbs)

Base operating weight includes cab, standard loader bucket, standard dipper stick, 600mm 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 x18	12.5/80 x18
	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 (13.0)

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 - Multipurpose 12.5 x 18 10 Ply Agricultural 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

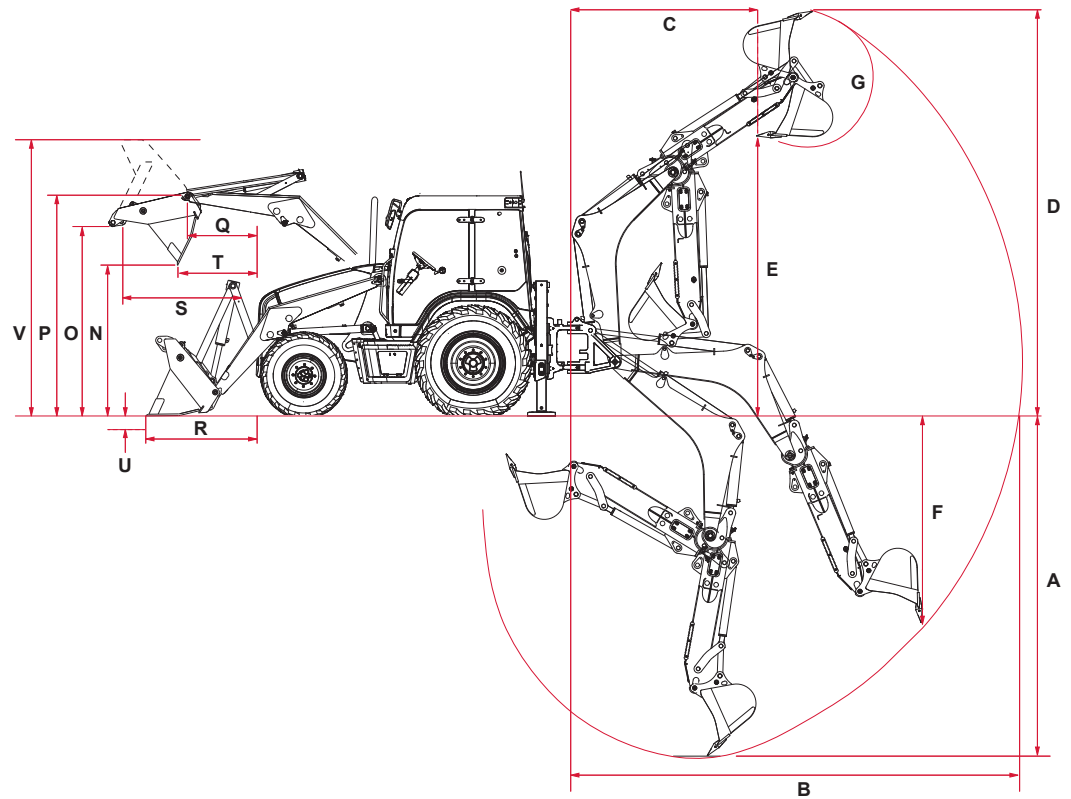
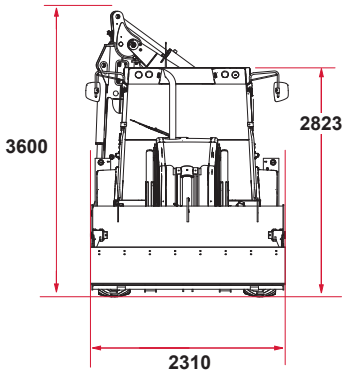
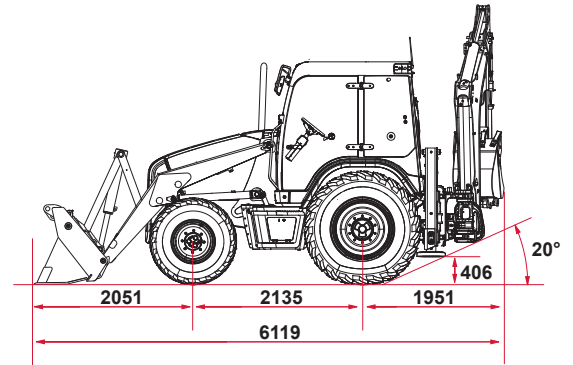
HYDRAULIC SYSTEM

- Tandem Gear Pumps with unloader valve
- Open centre control valves
- Automatic or manually activated pump flows
- Power Boost to match digging power and speed to application
- External oil level gauge
- Tilting oil cooler
- 125 micron suction strainer
- 10 micron return line filter

Main Pump Flow @ 2200rpm L/min(gpm)	80 (17.7)
Secondary Pump Flow @ 2200rpm 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")
	2ft 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 Depth		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			
	Standard Bucket	HD Bucket	Retracted		Extended	
			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) Speed Power (SAE J49 Standard)	52.9 (11897)	52.9 (11897)	52.5(11807)	52.5(11807)	52.5(11807)	52.5(11807)
	-	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 Width	kg (lb)	153 (336)
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)

BACKHOE BUCKETS

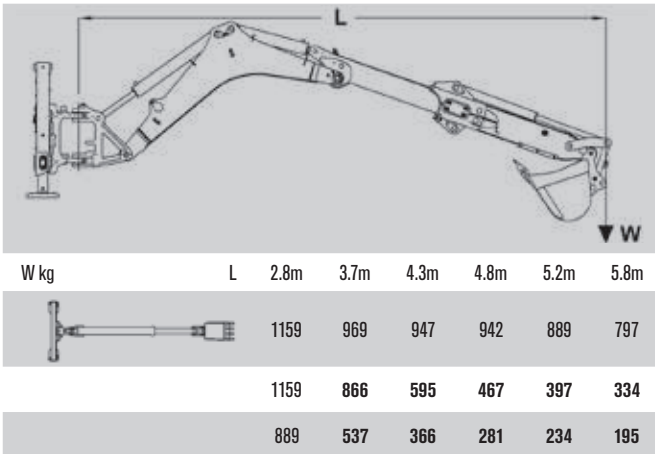
Bucket	Width mm (ins)	Capacity m ³ (ft ³)	Weight Kg (lbs)
Standard Trenching	305 (12)	0.074 (2.62)	99 (218)
	450 (18)	0.120 (4.25)	114 (251)
	600 (24)	0.177 (6.26)	136 (300)
	750 (30)	0.236 (8.32)	157 (346)
	900 (36)	0.296 (10.44)	178 (392)
Heavy Duty	305 (12)	0.084 (2.96)	112 (247)
	450 (18)	0.140 (4.96)	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

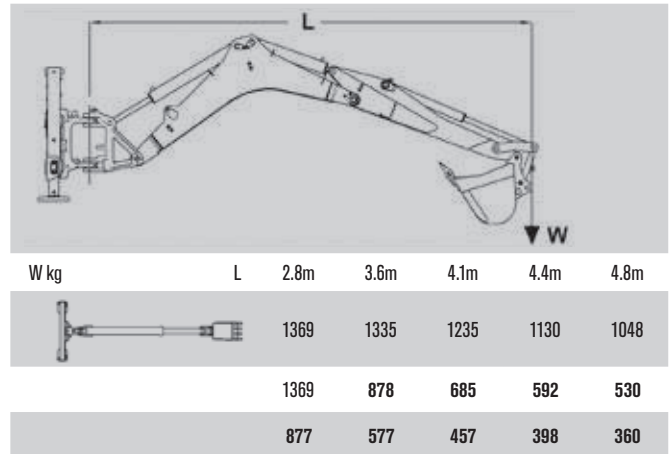
		Standard Bucket	7 in 1 Bucket
Width	mm (ft)	2311 (7.7)	2311 (7.7)
Capacity	m ³ (yd ³)	1.0 (1.32)	1.0 (1.32)
Weight	Kg (lbs)	400 (880)	730 (1606)

SIDESHIFT BACKHOE

Load Chart for Extending Dipperstick using boom cylinder for lifting



Load Chart for Standard Dipperstick using boom cylinder for lifting



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 600mm (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

STANDARD AND OPTIONAL EQUIPMENT

NOTE: Standard and Optional equipment can vary by territory

ENGINE

Perkins 1104D-44TA (Tier 3)

Wastegate turbo and charge air cooled

Electric fuel pump

Mechanical fuel injection

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

Alternator and fan drive by dual V belt

Gear driven water pump

Puller type 9 bladed cooling fan

Dual element Powercore air cleaner

Stainless steel muffler 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

Easy clean 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 (289mm dia) per side
- Total friction area per side 1238cm² (192in²)

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

CAB AND CANOPY

ROPS/FOPS conform to ISO 3471/3449

Access from both sides

Self cleaning footsteps and large grab handles

Anti slip floor mat (canopy)

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 (51mm) retractable seat belt

Vinyl seat with mechanical suspension (canopy)

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 (7.37kW)

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

CANOPY OPTIONS:

- Windscreen with wiper
- Lockable vandal covers

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 cylinder cushioning

Return to dig

Float position with positive hold

Bucket level indicator

Integral Loader arm safety bar

Standard bucket 1m3 (1.32yd3) with lifting eye

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

Bucket teeth or bolt on reversible cutting edge

7in1 bucket control lever with dual function

OPTIONS:

- Pallet forks with safe working load of 1000kgs
- 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 auxilliary 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)

OPTIONS:

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

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Central Boulevard, ProLogis Park,
Coventry, England CV6 4BX
Tel +44 (0) 2476 339400



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