344

ENGINE & ANCILLARIES

Yanmar TNV98

Configuration 4 cylinder

AspirationNaturally aspirated

Emission Level Tier II

Governed Power 45 kW

Governed Speed 2 200 rpm

Displacement 3 319 cc

Fuel Filter Type In-line water separator with separate spin on fuel filter.

Fuel Filter 5 µm

Coolant Capacity (Engine only)
4 litres

Radiator

Easy access and easy to clean. Agricultural spec fine dust tolerant - wide fin spacing.

Fuel Tank

Secure, lockable ground level filling. Integrated into lower section of the frame to keep a low centre of gravity.

Fuel Tank Capacity 100 litres Air Cleaner Type

Radial Seal 2-stage primary and secondary filters, both fed by a self cleaning precleaner. The system has a dash mounted restriction indicator.

HYDRAULIC SYSTEM

Hydrostatic Drive System Servo controlled Variable displacement closed loop system.

Wheel Drive System
Robust, proven Bell
planetary hub driven by high
displacement radial piston
motor with fail to safe spring
applied hydraulically released
multidisc wet brake.

Wheel Drive Make & Model Bell #29P

Service Brake
Hydrostatic braking through the
closed loop system.

Hydraulic Implement Pump 1 Maximum Flow at Engine Rated Speed 60,9 I/min

Hydraulic Implement Pump 1
Maximum Intermittent Pressure
241 bor

Hydraulic Implement Pump 1 Use Boom lift & lower

Hydraulic Implement Pump 2 Maximum Flow at Engine Rated Speed 39,4 I/min

Hydraulic Implement Pump 2 Maximum Intermittent Pressure 280 bar Hydraulic Implement Pump 2 Maximum Continuous Pressure 250 bor

Hydraulic Implement Pump 2

Attachment - Grapple Open/ Close, Tele Ext in/out and Rotator

Tank

Integrated within the tubular frame

Tank Capacity 140 litres

Tank Breather

Remote to filler cap, 3 micron rating, 0.75 bar pressure.

Hydraulic Cooler Air Fin Spacing Easy to clean wide fin spacing

ELECTRICAL

System

12 volt system with a single maintenance free battery mounted in the rear of the machine above the tail wheel.

Alternator Output 12 v 80 Amp

Starter Motor Rating 12 v 3,0 kW

Fuse Box

Blade fuses located inside the cabin in the instrumentation box.

Battery

Maintenance free gel filled battery 100 Amp Hour rating.

Battery Isolator

Single pole type with lock out mounted onto the right hand side of the frame.

Work Lights

8 lights in total. 4 Facing forwards, 2 facing rearwards, 1 facing side ways on each side of the frame.

Strobe Light

Mounted on the rear of frame

Interior lights

LED mounted inside the cab and inside the engine bay.

ESTIMATED OPERATING WEIGHTS WITH STANDARD OPTIONS

Unladen

Front: 4 118 kg Rear: 1 349 kg Total: 5 467 kg

Laden

Front: 6 365 kg Rear: 375 kg Total: 6 740 kg

Working Load Limit

1 273 kg

Tipping Load 1 400 kg

GRAPPLE

Matriarch LX36 (Matriarch LX42 as an option)

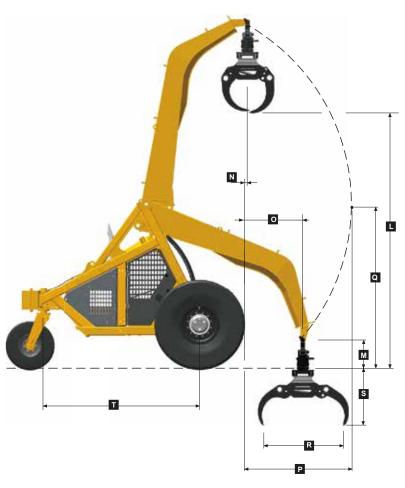
Note: Tyre sizes indicated represent available tyres at printing. Please ensure your choice is available at time of ordering.

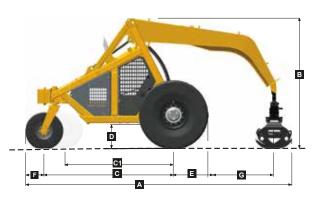
- Low capital outlay
- Low operating cost due to few working parts
 - Low fuel consumption
 - Simple to maintain
 - Multi-purpose unit
 - Highly manoeuvrable

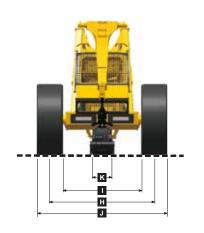
Dimensions

OPERATING POSITION

TRANSPORT POSITION







MACHINE DIMENSIONS

Α	Length - Transport Position with LX36 Grapple Closed	6 240 mm
Α	Length - Transport Position with LX42 Grapple Closed	6 370 mm
В	Height - Transport Position with Grapple closed	3 059 mm
C	Front Axle Centre to Tailwheel Axle Centre	3 030 mm
C.	1 Front Axle Centre to Tailwheel Axle Centre	2 546 mm
D	Ground Clearance - Front Axle Box	578 mm
Е	Front Tyre - Free Radius (Free Diameter)	
Ε´	1 18.4 x 30 (Std Wheelset)	807.5 mm (^Ø 1615)
Eź	2 18.4 x 26 (Option 1)	729 mm (^Ø 1458)
E	3 18.4/15 x 30 (Option 2)	774,5 mm (^Ø 1549)
E	1 18.4 x 34 (Option 3)	837,5 mm (^Ø 1675)
E!	5 18.4 x 26 (Option 4-Dual Wheelset)	729 mm (⁰ 1458)
F	Tailwheel - Free Radius (Free Diameter)	
F	400 x15.5 (Std Wheelset)	432 mm (^Ø 864)
F2	2 18 x 15.5 (Option 1)	490 mm (^Ø 980)
G	Reach - Grapple Pivot @ Ground Leve I - LX36 Grapple	1 545 mm
G	Reach - Grapple Pivot @ Ground Level - LX42 Grapple	1 600 mm
Н	Track Width - Front	
Н	1 18.4 x 30 (Std Wheelset)	2 382 mm
Н	2 18.4 x 26 (Option 1)	2 279,5 mm
Н	3 18.4/15 x 30 (Option 2)	2 312 mm
Н	4 18.4 x 34 (Option 3)	2 319 mm
Н	5 18.4 x 26 (Option 4-Dual Wheelset)	2 681 mm
-	Inside Tyre Width - Front	
11	18.4 x 30 (Std Wheelset)	1 782 mm

12	18.4 x 26 (Option 1)	1 813 mm
13	18.4/15 x 30 (Option 2)	1 846 mm
14	18.4 x 34 (Option 3)	1 851 mm
15	18.4 x 26 (Option 4-Dual Wheelset)	1 687 mm
J	Width over Tyres - Front	
J1	18.4 x 30 (Std Wheelset)	2 982 mm
J2	18.4 x 26 (Option 1)	2 746 mm
J3	18.4/15 x 30 (Option 2)	2 778 mm
J4	18.4 x 34 (Option 3)	2 787 mm
J5	18.4 x 26 (Option 4-Dual Wheelset)	3 675 mm
K	Tyre Width - Tailwheel	
K1	400 x 15.5 (Std Wheelset)	385 mm
K2	18 x 15.5 (Option 1)	450 mm
L	Load Over Height - LX36 Grapple	4 586 mm
L	Load Over Height - LX42 Grapple	4 480 mm
M	Grapple Pivot Height - Boom Down Position	529 mm
N	Reach-Grapple Pivot - Boom Up Position	44 mm
0	Reach-Grapple Pivot - Boom Down Position	1 036 mm
Р	Maximum Reach - Grapple Pivot	1 948 mm
Q	Height - Grapple Pivot @ Maximum Reach	2 964 mm
R	LX36 Grapple Open	1 414 mm
R	LX42 Grapple Open	1 577 mm
S	Maximum Reach - Below Ground - LX36 Grapple	1 001 mm
S	Maximum Reach - Below Ground - LX42 Grapple	1 054 mm
T	Front Axle Centre to Tailwheel Pivot Centre	2 788 mm

NOTE: Please refer to 225F HP for Tele Logger option dimensions.

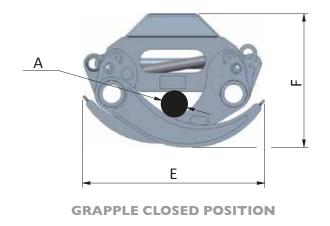
All dimensions are Unladen values based on the Standard Wheelsets and Grapple U.O.N.

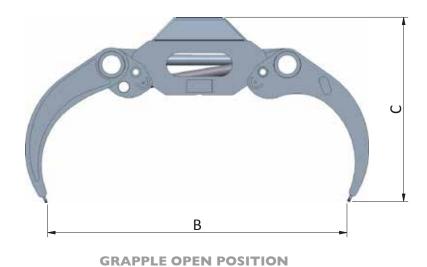
Negative (-) dimension value denotes position below ground level or behind front of wheel, whichever is applicable.

Grapple Dimensions & Operating Weights

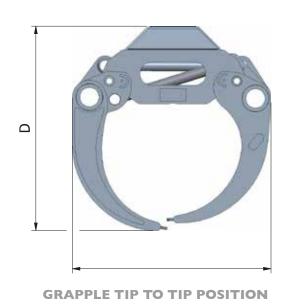
Bell Grapple Dimensions Dimensions in millimeters U.O.N			
		Matriarch LX36	Matriarch LX42
Α	Min. Closed Diameter	106	111
В	Grapple Open	1 630	1 783
С	Grapple Height - Open	823	893
D	Grapple Height - Tip to Tip	983	1 066
Е	Grapple Closed	948	1 040
F	Grapple Height - Closed	625	669
G	Width Outer Tines	448	448
	Tip to Tip Area	0.36 m ²	0.42 m ²
	Weight - No Damper	222 kg	247 kg

Operating Weights			
	Working Load Limit	Tipping Load	
225F Crank Logger	1 273 kg	1 400 kg	
225F HP Tele Logger			
Boom In	1 568 kg	1 725 kg	
Boom Out	1 051 kg	1 157 kg	
125F Cane Loader	1 100 kg	1 210 kg	
225F Forklift	3 500 kg	-	





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Cab Options





255 Crank 1090er 255 HP 1016 1090er 255 FOKIIII		
255 CON 255 HP TE 125 CONE		
• A A A A A A A A A A A A A A A A A A A	FRONT WHEELSETS 460/85-30 T410 18.4 x 26 12 Ply Dual, 18.4 x 26 12 Ply 23.1-26 T418FS	
• A • A • •	REAR WHEELSETS 400/60-15.5 T404 18.0 x 15.5 EcoAgri 400/60-15.5 BKT TR822 14Ply	
• A • • • A A A A	Unsuspended Lap Belt Suspended Unsuspended 4 Point Harness	
-	ATTACHMENT Matriarch LX36 Matriarch LX42 Cane Grab Fork-lift with 1.2, Wide Carriage Fork-lift with 2.5, Wide Carriage Fork-lift with Brick Clamp Fork-lift with Tyre Clamp	
	WORK LIGHTS Halogen Lights LED 1800L LED 3500L	
•	Cane Boom Crank Boom Tele Boom Ext Tele Boom	
A A O A A A A A A A A A A A A A A A A A	1 Weight 4 Weights 6 Weights 7 Weights	
• A • • A • A • A	MISCELLANEOUS Rear View Side Mirrors (Note: not available if Log Rest Option is selected) Door Proximity Switches Log Rest Fire Extinguisher Bracket	

235 Crank Logger 235 HP Pele Logger 235 Come Logger	1000 HIII
	WARNING LIGHTS/INSTRUMENTATION Hydraulic charge filter bypass Engine oil pressure Engine coolant temperature high Hydraulic oil temperature high Air cleaner blocked Low fuel Battery charge Cold start Park brake active Reverse Camera Fleetm@tic®
	Ignition (key) Hour metre Park brake Horn Interior lights Cold start aid Battery isolator
	SENSORS Low fuel level Door open proximity switch (if doors are fitted) Air cleaner blocked Hydraulic charge filter bypass Engine oil pressure Engine coolant temp Hydraulic oil temperature Reverse alarm
• A • A • A • A • A • A • A • A • A • A	CAB (see page 15 for details) Basic option Cab doors (no glazing) Windscreen and wiper/washer Windscreen and wiper/washer with cab doors (no glazing in doors) Full deluxe (full glazing)
	English French Spanish

Please note that all information supplied in this brochure is intended to assist the customer in understanding the general applications of Bell Equipment's F-series machines.

Performance information is intended for estimating purposes only. Due to the many variables unique to individual operations such as weather, terrain, ground conditions, operator productivity, etc neither Bell Equipment Company nor its Dealers warrant that the machines described will perform as estimated.

Due to Bell Equipment's policy of constant product improvement, specifications are subject to change without notice.

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