F-series

Logger | Cane Loader | Forklift



Evolution of a classic



Evolutionary design

Bell Tri-Wheelers are derived from the successful Bell Cane Loaders and to this day remain the lowest cost solution to sorting, loading and moving both sugar cane and timber.

The Tri-Wheeler's simple design belies the brilliance of the concept and design. Irvine Bell developed the concept in the early 1960s with the intention of designing a machine that would duplicate the motion of a person walking up to a pile and picking it up.

He succeeded in blurring the interface between man and machine. While the concept has remained the same, the product has undergone a number of subtle but important improvements over the years. These improvements have evolved the Bell Tri-Wheeler into a product where beauty is way more than skin deep.





More importantly, the design team associated with the Tri-Wheeler has gained invaluable insights and experience throughout the 50 year journey and they appreciate the understatedness of this 'simple design'. They understand that in order to achieve simplicity in design an enormous amount of effort and mastery is required.

Copying is said to be the highest form of flattery, however, many attempts to copy the Bell Tri-Wheeler

have failed. Perhaps it has something to do with failing to understand the essence of this machine?

Bell Equipment has built a solid reputation with this simple machine along with a foundational concept of building STRONG RELIABLE MACHINES and ensuring that this philosophy is reinforced by providing our customers with STRONG RELIABLE SUPPORT, once the sale is done.

Erame

- ROPS & FOPS certified frame.
- Triangulation forms the basis of the frame structure, to distribute force evenly for durability.
- Ingenuity of design simply integrates the hydraulic tank into the frame of the F-series Tri-Wheelers.
- Layered sophistication allows the product to be built for the application.

Design Philosophy

- Customer input is critical.
- Simplicity remains core.
- Lowest cost per tonne solutions through efficiency.
- Strong, reliable machines.



Robust efficient driveline



Proven hydraulic components carried over from our A-series.

Engine

- The F-series engine has transitioned from air-cooled to a water-cooled Yanmar engine.
- Careful selection based on the rugged environment and operating conditions.
- Low fuel burn and low running costs reinforce the focus on lowest cost per tonne operations.
- Water cooled engine provides low noise, cool running operation.

Transmission Pump

- The introduction of a robust cast iron design with a previous evolution means this drive train is proven to be reliable and robust.
- Robust components, chosen with the customer in mind, are tested extensively to protect the customer from unwanted downtime.
- Evolution new developments that enhance productivity are continuously embraced.
- New developments have provided continuous opportunities to enhance operator productivity and safety.

Wheel motors

- No maintenance and components with a high expected life.
- Well proven design combines selected hydraulic motors and braking system coupled to a Bell final drive.
- Fail to safe, spring applied hydraulically released SAHR brakes.



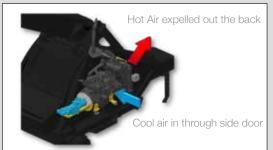


Yanmar Water cooled Engine Standard - Yanmar 4TNV98:

- 45 kW @ 2 200 rpm
- 3.319 litre displacement
- Naturally aspirated

Optional - Yanmar 4TNV98T:

- 57 kW @ 2 200 rpm
- 3.319 litre displacement
- Turbo Charged



Cooling system

Engine aluminium core radiator:

- Rubber mounted
- Robust fin design able to be pressure washed

Hydraulic oil cooler:

- Side-by-side with the radiator and cooling fan
- Easy access for cleaning

AC condenser (optional):

- RH engine bay door mounted condenser
- Swing out for easier cleaning



Driveline

Eaton transmission pump:

 Proven reliability on Tri-Wheelers for many years

Bell Wheel motors:

- Rugged design
- Reliable and dependable

| Technical Data

ENGINE & ANCILLARIES

Yanmar TNV98

Configuration 4 cylinder

Aspiration
Naturally 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

Cyclonic pre-cleaner continuously vacuum scavenged through the exhaust. Primary filter with second safety filter with dash mounted restriction indicator. Twice the dust holding capacity of conventional air cleaners.

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 har

Hydraulic Implement Pump 1 Use Boom lift & lower Hydraulic Implement Pump 1 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 bar

Hydraulic Implement Pump 2 Use

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

Tank
Integrated within the tubular frame

Tank Capacity 140 litres

Tank BreatherRemote 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
 Boom In
 Boom Out

 Front:
 6 356 kg
 6 524 kg

 Rear:
 371 kg
 203 kg

 Total:
 6 727 kg
 6 727 kg

Safe Working Load 1 273 kg

Tipping Load 1 400 kg

GRAPPLE

#35 with damped link (#43 option)

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

Low capital outlay

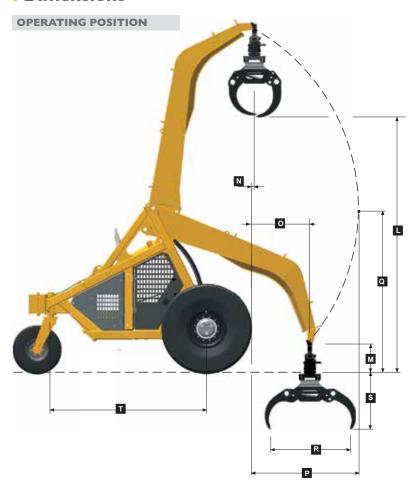
Low operating cost due to few working parts

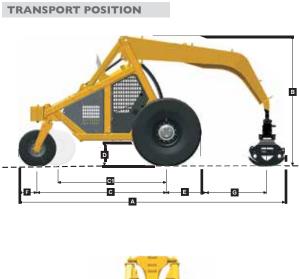
Low fuel consumption

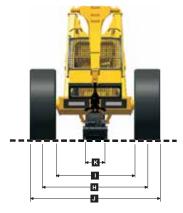
Simple to maintain

Multi-purpose unit

Highly manoeuvrable







MA	CHINE DIMENSIONS	
Α	Length-Transport Position with #35 Grab Closed	6 240 mn
Α	Length-Transport Position with #43 Grab Closed	6 370 mr
В	Height-Transport Position with Grab closed	3 059 mr
С	Front Axle Centre to Tailwheel Axle Centre	3 030 mr
C1	Front Axle Centre to Tailwheel Axle Centre	2 546 mr
D	Ground Clearance-Front Axle Box	578 mr
Е	Front Tyre-Free Radius (Free Diameter)	
E1	23.1-26 (Std Wheelset)	807.5 mm ([©] 1618
E2	18.4-26 (Option 1)	729 mm ([©] 1458
ЕЗ	18.4/15-30 (Option 2)	774.5 mm ([©] 1549
E4	18.4-34 (Option 3)	837.5 mm ([©] 167
E5	18.4-26 (Option 4-Dual Wheelset)	729 mm ([©] 1458
F	Tailwheel-Free Radius (Free Diameter)	
F1	400-15.5 (Std Wheelset)	432 mm (°86
F2	18-15.5 (Option 1)	490 mm ([©] 980
G	Reach-Grab Pivot @ Ground Leve I - #35 Grab	1 545 mr
G	Reach-Grab Pivot @ Ground Level - #43 Grab	1 600 mr
Н	Track Width-Front	
H1	23.1-26 (Std Wheelset)	2 382 mr
H2	18.4-26 (Option 1)	2 279.5 mr
НЗ	18.4/15-30 (Option 2)	2 312 mr
H4	18.4-34 (Option 3)	2 319 mr
H5	18.4-26 (Option 4-Dual Wheelset)	2 681 mr
I	Inside Tyre Width-Front	
l1	23.1-26 (Std Wheelset)	1 782 mr

12	18.4-26 (Option 1)	1 813 mm
13	18.4/15-30 (Option 2)	1 846 mm
14	18.4-34 (Option 3)	1 851 mm
15	18.4-26 (Option 4-Dual Wheelset)	1 687 mm
J	Width over Tyres-Front	
J1	23.1-26 (Std Wheelset)	2 982 mm
J2	18.4-26 (Option 1)	2 746 mm
J3	18.4/15-30 (Option 2)	2 778 mm
J4	18.4-34 (Option 3)	2 787 mm
J5	18.4-26 (Option 4-Dual Wheelset)	3 675 mm
K	Tyre Width-Tailwheel	
K1	400-15.5 (Std Wheelset)	385 mm
K2	18-15.5 (Option 1)	450 mm
L	Load Over Height - #35 Grab	4 586 mm
L	Load Over Height - #43 Grab	4 480 mm
М	Grab Pivot Height-Boom Down Position	529 mm
Ν	Reach-Grab Pivot-Boom Up Position	44 mm
0	Reach-Grab Pivot-Boom Down Position	1 036 mm
Р	Maximum Reach-Grab Pivot	1 948 mm
Q	Height-Grab Pivot @ Maximum Reach	2 964 mm
R	Grab Open - #35	1 414 mm
R	Grab Open - #43	1 577 mm
S	Maximum Reach-Below Ground - #35 Grab	1 001 mm
S	Maximum Reach-Below Ground - #43 Grab	1 054 mm
Т	Front Axle Centre to Tailwheel Pivot Centre	2 788 mm

| Technical Data

ENGINE & ANCILLARIES

Yanmar TNV98T

Configuration 4 cylinder

AspirationTurbo Charged

Emission Level Tier II

Governed Power 57 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

Cyclonic pre-cleaner continuously vacuum scavenged through the exhaust. Primary filter with second safety filter with dash mounted restriction indicator. Twice the dust holding capacity of conventional air cleaners.

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 l/min

Hydraulic Implement Pump 1 Maximum Intermittent Pressure 241 bar

Hydraulic Implement Pump 1 Use Boom lift & lower Hydraulic Implement Pump 1 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 bar

Hydraulic Implement Pump 2 Use Attachment - Grapple Open/Close, Tele Ext in/out and Rotator

Tank
Integrated within the tubular frame

Tank Capacity 140 litres

Tank BreatherRemote 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:
 4 309 kg

 Rear:
 1 656 kg

 Total:
 5 965 kg

 Laden
 Boom In
 Boom Out

 Front:
 6 562 kg
 6 293 kg

 Rear:
 955 kg
 712 kg

 Total:
 7 517 kg
 7 005 kg

Safe Working Load

1 568 kg 1 051 kg

Tipping Load

1 725 kg 1 157 kg

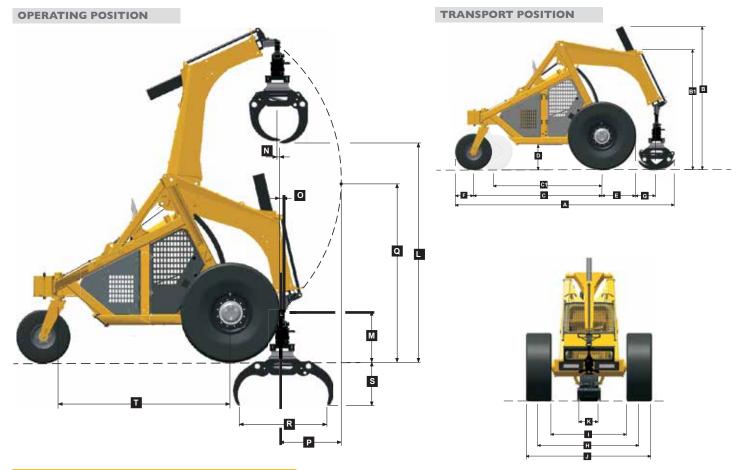
GRAPPLE

#43 without damped link (#35 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
Highly manoeuvrable



MA	ACHINE DIMENSIONS	
Α	Length-Transport Position with #35 Grab Closed - Teleboom Retracted	5 175 mm
Α	Length-Transport Position with #35 Grab Closed - Teleboom Extended	6 232 mm
Α	Length-Transport Position with #43 Grab Closed - Teleboom Retracted	5 331 mm
Α	Length-Transport Position with #43 Grab Closed - Teleboom Extended	6 363 mm
В	Height-Transport Position with #35 Grab Closed - Teleboom Retracted	3 397 mm
В1	Height-Transport Position with #35 Grab Closed - Teleboom Extended	3 367 mm
В	Height-Transport Position with #43 Grab Closed - Teleboom Retracted	3 468 mm
В1	Height-Transport Position with #43 Grab Closed - Teleboom Extended	3 426 mm
С	Front Axle Centre to Tailwheel Axle Centre	3 030 mm
C1	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)	
E1	23.1-26 (Std Wheelset)	807.5 mm (^Ø 1 615)
E2	18.4-26 (Option 1)	729 mm (^Ø 1 458)
E3	18.4/15-30 (Option 2)	774.5 mm (^Ø 1 549)
E4	18.4-34 (Option 3)	837.5 mm (^Ø 1 675)
E5	18.4-26 (Option 4-Dual Wheelset)	729 mm (^ø 1 458)
F	Tailwheel-Free Radius (Free Diameter)	
F1	400-15.5 (Std Wheelset)	432 mm (^Ø 864)
F2	18-15.5 (Option 1)	490 mm (^Ø 980)
G	Reach-Grab Pivot @ Ground Leve I - #35 Grab with Teleboom Retracted	481 mm
G	Reach-Grab Pivot @ Ground Leve I - #35 Grab with Teleboom Extended 1 538 mm	
G	Reach-Grab Pivot @ Ground Leve I - #43 Grab with Teleboom Retracted	561 mm
G	Reach-Grab Pivot @ Ground Leve I - #43 Grab with Teleboom Extended 1 593 mm	
Н	Track Width-Front	
H1	23.1-26 (Std Wheelset)	2 382 mm
H2	18.4-26 (Option 1)	2 279.5 mm
НЗ	18.4/15-30 (Option 2)	2 312 mm
H4	18.4-34 (Option 3)	2 319 mm
H5	18.4-26 (Option 4-Dual Wheelset)	2 681 mm
I	Inside Tyre Width-Front	
11	23.1-26 (Std Wheelset)	1 782 mm
12	18.4-26 (Option 1)	1 813 mm

13	18.4/15-30 (Option 2)	1 846 mm
14	18.4-34 (Option 3)	1 851 mm
15	18.4-26 (Option 4-Dual Wheelset)	1 687 mm
J	Width over Tyres-Front	
J1	23.1-26 (Std Wheelset)	2 982 mm
J2	18.4-26 (Option 1)	2 746 mm
J3	18.4/15-30 (Option 2)	2 778 mm
J4	18.4-34 (Option 3)	2 787 mm
J5	18.4-26 (Option 4-Dual Wheelset)	3 675 mm
K	Tyre Width-Tailwheel	
K1	400-15.5 (Std Wheelset)	385 mm
K2	18-15.5 (Option 1)	450 mm
L	Load Over Height - #35 Grab with Teleboom Retracted	3 547 mm
L	Load Over Height - #35 Grab with Teleboom Extended	3 955 mm
L	Load Over Height - #43 Grab with Teleboom Retracted	3 441 mm
L	Load Over Height - #43 Grab with Teleboom Extended	3 849 mm
M	Grab Pivot Height-Boom Down Position with Teleboom Retracted	816 mm
M	Grab Pivot Height-Boom Down Position with Teleboom Extended	142 mm
N	Reach-Grab Pivot-Boom Up Position with Teleboom Retracted	27 mm
N	Reach-Grab Pivot-Boom Up Position with Teleboom Extended	866 mm
0	Reach-Grab Pivot-Boom Down Position with Teleboom Retracted	39 mm
0	Reach-Grab Pivot-Boom Down Position with Teleboom Extended	255 mm
Р	Maximum Reach-Grab Pivot with Teleboom Retracted	1 042 mm
Р	Maximum Reach-Grab Pivot with Teleboom Extended	1 942 mm
Q	Height-Grab Pivot @ Maximum Reach with Teleboom Retracted	2 964 mm
Q	Height-Grab Pivot @ Maximum Reach with Teleboom Extended	2 964 mm
R	Grab Open - #35	1 414 mm
R	Grab Open - #43	1 577 mm
S	Maximum Reach-Below Ground - #35 Grab with Teleboom Retracted	714 mm
S	Maximum Reach-Below Ground - #35 Grab with Teleboom Extended	1 672 mm
S	Maximum Reach-Below Ground - #43 Grab with Teleboom Retracted	768 mm
S	Maximum Reach-Below Ground - #43 Grab with Teleboom Extended	1 725 mm
Τ	Front Axle Centre to Tailwheel Pivot Centre	2 788 mm

NOTE: Please refer to 225F for Crank option dimensions.

All dimensions are Unladen values based on the Standard Wheelsets and Grab with Damper U.O.N.

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

| Technical Data

ENGINE & ANCILLARIES

Yanmar TNV98

Configuration 4 cylinder

Aspiration
Naturally 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

Cyclonic pre cleaner continuously vacuum scavenged through the exhaust. Primary filter with second safety filter with dash mounted restriction indicator. Twice the dust holding capacity of conventional air cleaners.

HYDRAULIC SYSTEM

Hydrostatic Drive System
Servo controlled Variable
displacement closed loop system.

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

Wheel Drive Make & Model Bell #24P

Service BrakeHydrostatic braking through the closed loop system.

Hydraulic Imp. Pump 1 Maximum Flow at Eng. Rated Speed 60.9 l/min

Hydraulic Impl. Pump 1
Maximum Intermittent Pressure
241 bar

Hydraulic Impl. Pump 1 Use Mast lift & lower

Hydraulic Impl. Pump 1 Maximum Flow at Eng. Rated Speed 39.4 l/min Hydraulic Impl. Pump 2
Maximum Intermittent Pressure
280 bar

Hydraulic Impl. Pump 2 Maximum Continuous Pressure Pressure 250 bar

Hydraulic Impl. Pump 2 Use Attachment - Grab open/close and tilt

Tank
Integrated within the tubular frame

Tank Capacity 140 litres

Tank BreatherRemote to filler cap, 3 micron rating, 0.75 bar pressure

Hydraulic Cooler Air Fin SpacingEasy 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.

Batterv

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:
 3 764 kg

 Rear:
 1 206 kg

 Total:
 4 970 kg

 Laden
 Boom In
 Boom Out

 Front:
 5 529 kg
 5 784 kg

 Rear:
 533 kg
 278 kg

 Total:
 6 062 kg
 6 062 kg

Safe Working Load 1 100 kg

_. . .

Tipping Load 1 210 kg

GRAB

0,36 m² grab

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

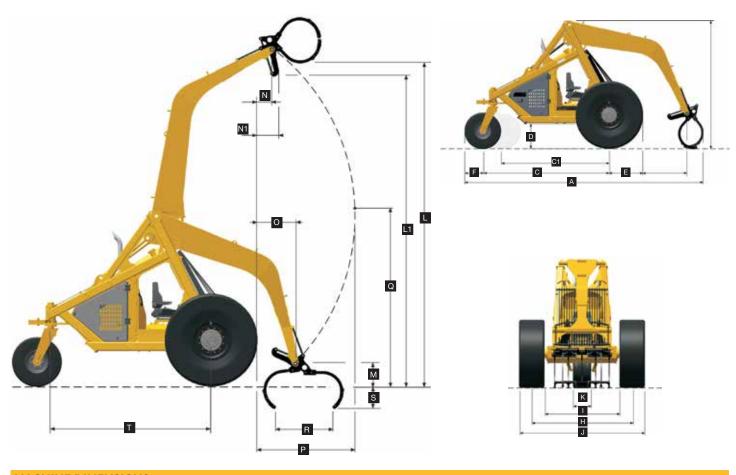
Lowest cost per tonne solutions Low fuel consumption Low maintenance

Designed for field and zone loading operations

Efficient and productive loading

OPERATING POSITION

TRANSPORT POSITION



M	A	CH	IN	E C	MIC	IEN	ISI	ONS	

Α	Length - Transport Position with Grab Closed	1 5 720 mm
В	Height - Transport Position with Grab Closed	3 064 mm
С	Front Axle Centre to Tailwheel Axle Centre	3 030 mm
C1	Front Axle Centre to Tailwheel Axle Centre	2 546 mm
D	Ground Clearance - Front Axle Box	582 mm
Е	Front Tyre - Free Radius (Free Diameter)	
E1	23.1-26 (Std Wheelset)	807.5 mm (ø1 615)
E2	18.4-26 (Option 1)	729 mm (ø1 458)
E3	18.4/15-30 (option 2)	774.5 mm (ø1 549)
E4	18.4-34 (Option 3)	837.5 mm (ø1 675)
E5	18.4-26 (Option 4 Dual Wheelset)	729 mm (ø1 458)
F	Tailwheel - Free Radius (Free Diameter)	
F1	400-15.5 (Std Wheelset)	432 mm (ø864)
F2	18-15.5 (Option 1)	490 mm (ø980)
G	Reach-Grab Pivot @ Ground Level	1 061 mm
Н	Track Width - Front	
H1	23.1-26 (Std Wheelset)	2 382 mm
H2	18.4-26 (Option 1)	2 279.5 mm
НЗ	18.4/15-30 (Option 2)	2 312 mm
H4	18.4-34 (Option 3)	2 319 mm
H5	18.4-26 (Option 4 Dual Wheelset)	2 681 mm
1	Inside Tyre Width - Front	
- 11	23.1-26 (Std Wheelset)	1 782 mm
12	18.4-26 (Option 1)	1 813 mm

13	18.4/15-30 (option 2)	1 846 mm
14	18.4-34 (Option 3)	1 851 mm
15	18.4-26 (Option 4 Dual Wheelset	1 687 mm
J	Width over Tyres - Front	
J1	23.1-26 (Std Wheelset)	2 982 mm
J2	18.4-26 (Option 1)	2 746 mm
J3	18.4/15-30 (Option 2)	2 778 mm
J4	18.4-34 (Option 3)	2 787 mm
J5	18.4-26 (Option 4 Dual Wheelset)	3 675 mm
K	Tyre Width - Tailwheel	
K1	400-15.5 (Std Wheelset)	385 mm
K2	18-15.5 (Option 1)	450 mm
L	Load Over Height - Cane Grab Tines	5 629 mm
L1	Load Over Height	5 399 mm
М	Grab Pivot Height - Boom Down Position	406 mm
N	Reach - Grab Pivot - Boom Up Position	245 mm
N1	Reach - Grab Boom Up Position	368 mm
0	Reach - Grab Pivot - Boom Down Position	665 mm
Р	Maximum Reach - Grab Pivot	1 768 mm
Q	Height - Grab Pivot @ Maximum Reach	2 969 mm
R	Grab Open	972 mm
S	Maximum Reach - Below Ground	379 mm
Т	Front Axle Centre to Tailwheel Pivot Centre	2 788 mm

| Technical Data

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

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Fuel Filter 5 µm

Coolant Capacity (Engine only)
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Hydraulic Impl. Pump 1
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Hydraulic Impl. Pump 1 Use Mast lift & lower

Hydraulic Impl. Pump 1 Maximum Flow at Eng. Rated Speed 39.4 l/min Hydraulic Impl. Pump 2
Maximum Intermittent Pressure
280 bar

Hydraulic Impl. Pump 2 Maximum Continuous Pressure 250 bar

Hydraulic Impl. Pump 2 Use Attachment - Mast tilt

Tank
Integrated within the tubular frame

Tank Capacity 140 litres

Tank BreatherRemote 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: 4 567 kg
Rear: 2 211 kg
Total: 6 778 kg

Laden

Front: 9 814 kg
Rear: 464 kg
Total: 10 278 kg

Safe Working Load 3 500 kg

FORKS

Carriage 1,2 m wide 2,5 m wide (option)

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

3.5 ton capacity

Lowest cost per tonne solutions

Low fuel consumption

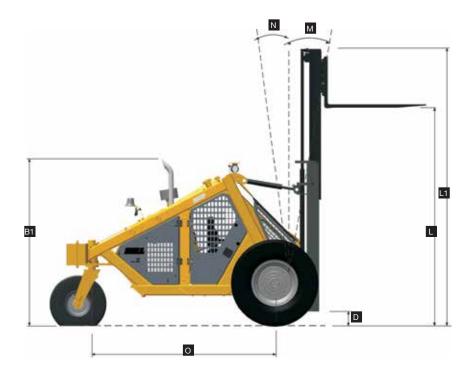
Low maintenance

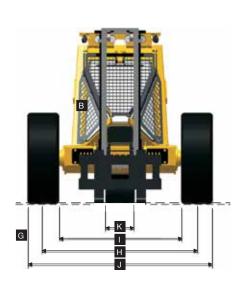
Designed for rough terrain operations

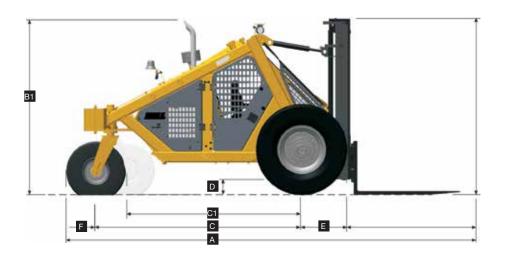
Where agility and productivity are requirements

OPERATING POSITION

TRANSPORT POSITION







MA	CHINE DIMENSIONS	
Α	Length-Transport Position - Standard Carriage	5 739 mm
Α	Length-Transport Position - Wide Carriage	5 789 mm
В	Height - Mast- Transport Position	2 569 mm
B1	Height - Exhaust - Transport Position	2 563 mm
С	Front Axle Centre to Tailwheel Axle Centre	2 998 mm
C1	Front Axle Centre to Tailwheel Axle Centre	2 577 mm
D	Ground Clearance-Mast	231 mm
Ε	Front Tyre 17.5-25-Free Radius (Free Diameter)	674 mm (1 348)
F	Tailwheel: 400-15.5-Free Radius (Free Diameter)	432 mm (864)
G	Reach-Standard Carriage	1 643 mm

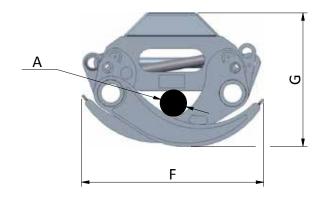
G	Reach-Wide Carriage	1 693 mm
Н	Track Width-Front: 17.5-25	2 249 mm
1	Inside Tyre Width-Front: 17.5-25	1 787 mm
J	Width over Tyres-Front: 17.5-25	2 711 mm
K	Tyre Width-Tailwheel: 400-15.5	385 mm
L	Height - Fork Tines @ Maximum Reach	3 342 mm
L1	Height - Mast @ Maximum Reach	4 238 mm
М	Maximum Forward Tilt Angle	10°
Ν	Maximum Rearward Tilt Angle	7.5°
0	Front Axle Centre to Tailwheel Pivot Centre	2 788 mm

NOTE: All dimensions are Unladen values based on the Standard Wheelsets U.O.N

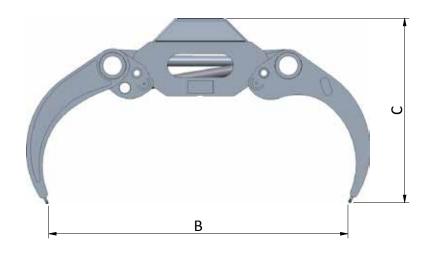
| Grab Dimensions & Operating Weights

Bell Grab Dimensions Dimensions in millimetres U.O.N							
	#35 #43						
	Weight - No Damper	255 kg	282 kg				
	Weight - with Damper	307 kg	334 kg				
	Approx. Tip to Tip Area	0.35 m ²	0.43 m ²				
А	Min. Closed Diameter	121	142				
В	Grab Open	1 424	1 577				
С	Grab Height - Open - No Damper	870	920				
С	Grab Height - Open - with Damper	995	1 045				
D	Grab Tip to Tip	938	1 036				
Е	Grab Height - Tip to Tip - No Damper	965	1 070				
Е	Grab Height - Tip to Tip - with Damper	1 090	1 195				
F	Grab Closed	860	1 020				
G	Grab Height - Closed - No Damper	630	735				
G	Grab Height - Closed - with Damper	755	860				
Н	Width Outer Tines	544	544				
1	Width Inner Tines	410	410				

Operating Weights					
	Safe Working Load	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	-			

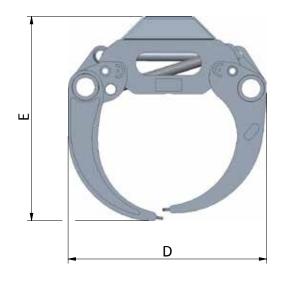


GRAB CLOSED POSITION



GRAB OPEN POSITION

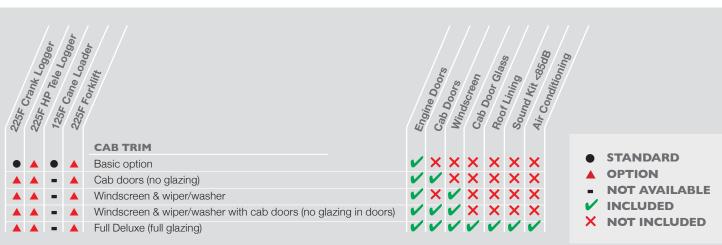


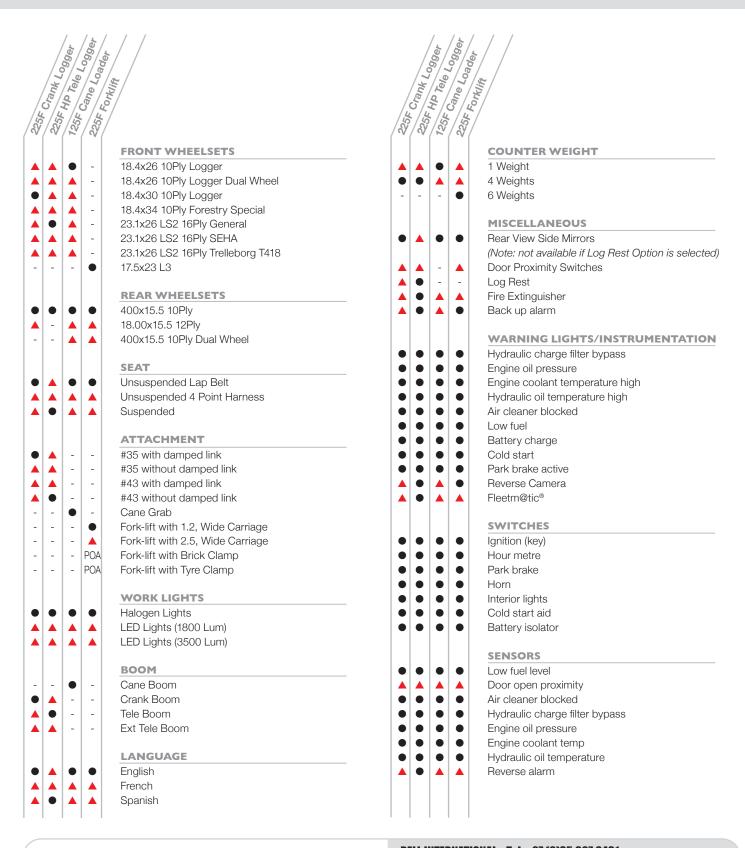


GRAB TIP TO TIP POSITION

| Cab Options







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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Strong Reliable Machines
Strong Reliable Support

