









# HTB16RT

This eco-friendly hybrid platform offers excellent efficiency and low running costs. With its Range Extender motor, it can work in electric mode with an extended capacity of up to 30 days. In combination with the IC engine, the Range Extender motor can charge the battery at any time. It is also equipped with 4 drive wheels for greater stability on any surface. The boom folds for transport so that the vehicle can be shipped in a container.

#### STANDARD EQUIPMENT

- Proportional controls
- Thumb rocker steering
- Flashing light
- Horn
- Hour counter
- Harsh Environment Kits
- 12V DC Auxiliary Power

#### **PERFORMANCE**

- Front oscillating axles to match the terrain irregularities granting optimal adherence to the ground
- · 2 Wheels Steering
- · Four-wheel drive
- · Positive traction four wheel drive
- · 360° rotation (continuous)
- · Integral Integrated Special Drive Axle

#### **BASKET**

- Self levelling platform
- Rotating basket +/-90°
- Power to platform

#### **SAFETY**

- Drive enable system
- Platform load sense system
- On-board diagnostics system
- Tilt indicator with alarm
- Crushing protection
- Emergency lowering system

#### **BATTERY**

- TIANNENG Lead-acid battery
- Powersource: 48V/320Ah
- Charger: 48VDC/60A
- Monophase 220V
- Recharge cycle from 0 to 100% (hours)\*: 5
- Engine Range Extender: FIRMAN

AN192F/7.6kW

#### STANDARD EQUIPMENT













Plant









#### HTB16RT

Jib length 1.5 m  Jib movement -  Jib vertical rotation 132°  Basket width 0.79 m  Basket length 2.92 m  Basket rotation 180°  Total weight 6,130 kg  Travel speed (closed config.) 6.0 km/h  Travel speed (working config.) 1.1 km/h  Tyres 315/55D20  Battery Type TIANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system -  Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -		
Max. reach  Max. platform load capacity  Max. Occupants  2  Max. gradeability (stowed)  Max. working slope  Max. wind speed  12.5 m/s  Turning radius (outside)  Turning radius (inside)  Turret rotation (continuous)  Jib type  Regular  Jib length  Jib movement  Jib vertical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  Tavel speed (closed config.)  Travel speed (working config.)  Travel speed (working config.)  Than Sattery Type  Battery Type  Battery Type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  Driving motors  AVAC/9kW  Lifting motors  Brinne Range Extender  FIRMAN AN192F/7.6kW  Diesel tank capacity  Hydraulic tank capacity  Hydraulic tank capacity  145 I	Max. working height	16.22 m
Max. platform load capacity  Max. Occupants  2  Max. gradeability (stowed)  Max. working slope  X-5°/Y-5°  Max. wind speed  12.5 m/s  Turning radius (outside)  Turning radius (inside)  Turret rotation (continuous)  Jib type  Regular  Jib length  1.5 m  Jib wortical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket length  3.92 m  Basket rotation  180°  Total weight  Travel speed (closed config.)  Travel speed (working config.)  Than Speed (	Max. basket height	14.22 m
Max. Occupants  Max. gradeability (stowed)  Max. working slope  X-5°/Y-5°  Max. wind speed  12.5 m/s  Turning radius (outside)  Turning radius (inside)  Turret rotation (continuous)  Jib type  Regular  Jib length  Jib wertical rotation  132°  Basket width  0.79 m  Basket length  2.92 m  Basket length  2.92 m  Basket vidth  0.79 m  Basket rotation  180°  Total weight  6,130 kg  Travel speed (closed config.)  Travel speed (working config.)  1.1 km/h  Tyres  315/55200  Battery Type  Powersource  48V/320Ah  Charger  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  Driving motors  34VAC/9kW  Lifting motors  48VAC/13kW  Engine pump  -  Engine Range Extender  FIRMAN AN192F/7.6kW  Diesel tank capacity  Hydraulic tank capacity  1451	Max. reach	9.40 m
Max. gradeability (stowed)  Max. working slope  X-5°/Y-5°  Max. wind speed  12.5 m/s  Turning radius (outside)  Turret rotation (continuous)  Jib type  Regular  Jib length  Jib wertical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  Travel speed (closed config.)  Travel speed (working config.)  Travel speed (working config.)  Travel speed (working config.)  Charger  Powersource  48V/320Ah  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  Emergency power system  Driving motors  34VAC/9kW  Lifting motors  48VAC/13kW  Engine pump  Firman Ann 192F/7.6kW  Diesel tank capacity  Hydraulic tank capacity  1451	Max. platform load capacity	250 kg
Max. working slope  X-5°/Y-5°  Max. wind speed  12.5 m/s  Turning radius (outside)  4.49 m  Turning radius (inside)  2.92 m  Turret rotation (continuous)  Jib type  Regular  Jib length  1.5 m  Jib wortical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  6,130 kg  Travel speed (closed config.)  Travel speed (working config.)  1.1 km/h  Tyres  315/55D20  Battery Type  Battery Type  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger 48VDC/60A  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  - Driving motors  34VAC/9kW  Lifting motors  34VAC/13kW  Engine pump  - Engine Range Extender  FIRMAN AN192F/7.6kW  Diesel tank capacity  145 I	Max. Occupants	2
Max. wind speed  Turning radius (outside)  Turning radius (inside)  Turret rotation (continuous)  Jib type  Regular  Jib length  1.5 m  Jib movement  -  Jib vertical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  Charger  Battery Type  Battery Type  Battery Type  Battery Type  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  Emergency power system  Driving motors  34VAC/9kW  Lifting motors  Engine Range Extender  Diesel tank capacity  Hydraulic tank capacity  145 I	Max. gradeability (stowed)	40%
Turning radius (outside)  Turning radius (inside)  Turret rotation (continuous)  Jib type  Regular  Jib length  1.5 m  Jib wortical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  7. color working config.)  Travel speed (closed config.)  Travel speed (working config.)  Travel speed (working config.)  Types  315/55D20  Battery Type  Battery Type  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger  48VDC/60A  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  Driving motors  34VAC/9kW  Lifting motors  34VAC/9kW  Engine pump  Engine Range Extender  FIRMAN AN192F/7.6kW  Diesel tank capacity  145 I	Max. working slope	X-5°/Y-5°
Turning radius (inside)  Turret rotation (continuous)  Jib type  Regular  Jib length  1.5 m  Jib wortical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  6,130 kg  Travel speed (closed config.)  Travel speed (working config.)  1.1 km/h  Tyres  315/55D20  Battery Type  Battery Type  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  Driving motors  34VAC/9kW  Lifting motors  180°  TIANNENG - Lead-acid battery  Monophase 220V  Recharge type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  -  Driving motors  34VAC/9kW  Lifting motors  FIRMAN AN192F/7.6kW  Diesel tank capacity  Hydraulic tank capacity  145 I	Max. wind speed	12.5 m/s
Turret rotation (continuous)  Jib type Regular  Jib length  Jib movement  Jib wertical rotation  Basket width  Basket length  Jenus Basket rotation  Total weight  Jenus Basket rotation  Jenus Basket Rotatio	Turning radius (outside)	4.49 m
Jib type  Jib length  Jib length  Jib movement  Jib wertical rotation  Basket width  Basket length  Jense Basket rotation  Basket rotation  Jense Basket rotation  Basket rotation  Jense Basket Regular  Jense Basket Regu	Turning radius (inside)	2.92 m
Jib length 1.5 m  Jib movement -  Jib vertical rotation 132°  Basket width 0.79 m  Basket length 2.92 m  Basket rotation 180°  Total weight 6,130 kg  Travel speed (closed config.) 6.0 km/h  Travel speed (working config.) 1.1 km/h  Tyres 315/55D20  Battery Type TIANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system -  Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30    Hydraulic tank capacity 145	Turret rotation (continuous)	360°
Jib movement  Jib vertical rotation  Basket width  0.79 m  Basket length  2.92 m  Basket rotation  180°  Total weight  6,130 kg  Travel speed (closed config.)  6.0 km/h  Travel speed (working config.)  1.1 km/h  Tyres  315/55D20  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger  48VDC/60A  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  - Driving motors  34VAC/9kW  Lifting motors  34VAC/13kW  Engine pump  Engine Range Extender  FIRMAN AN192F/7.6kW  Diesel tank capacity  145	Jib type	Regular
Jib vertical rotation 132°  Basket width 0.79 m  Basket length 2.92 m  Basket rotation 180°  Total weight 6,130 kg  Travel speed (closed config.) 6.0 km/h  Travel speed (working config.) 1.1 km/h  Tyres 315/55D20  Battery Type TIANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system -  Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30 1  Hydraulic tank capacity 145 I	Jib length	1.5 m
Basket width 0.79 m Basket length 2.92 m Basket rotation 180° Total weight 6,130 kg Travel speed (closed config.) 6.0 km/h Travel speed (working config.) 1.1 km/h Tyres 315/55D20 Battery Type TIANNENG - Lead-acid battery Powersource 48V/320Ah Charger 48VDC/60A Charger type Monophase 220V Recharge cycle from 0 to 100% (hours)* 5 Emergency power system - Driving motors 34VAC/9kW Lifting motors 34VAC/13kW Engine pump - Engine Range Extender FIRMAN AN192F/7.6kW Diesel tank capacity 30 I Hydraulic tank capacity 145 I	Jib movement	-
Basket length  Basket rotation  Total weight  Travel speed (closed config.)  Travel speed (working config.)  Travel speed (working config.)  Travel speed (working config.)  Travel speed (working config.)  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger  48VDC/60A  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  Driving motors  34VAC/9kW  Lifting motors  34VAC/13kW  Engine pump  -  Engine Range Extender  FIRMAN AN192F/7.6kW  Diesel tank capacity  30    Hydraulic tank capacity  145	Jib vertical rotation	132°
Basket rotation 180°  Total weight 6,130 kg  Travel speed (closed config.) 6.0 km/h  Travel speed (working config.) 1.1 km/h  Tyres 315/55D20  Battery Type TIANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system -  Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30    Hydraulic tank capacity 145	Basket width	0.79 m
Total weight 6,130 kg  Travel speed (closed config.) 6.0 km/h  Travel speed (working config.) 1.1 km/h  Tyres 315/55D20  Battery Type TIANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system -  Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30 l  Hydraulic tank capacity 145 l	Basket length	2.92 m
Travel speed (closed config.)  Travel speed (working config.)  1.1 km/h  Tyres  315/55D20  Battery Type  Battery Type  TIANNENG - Lead-acid battery  Powersource  48V/320Ah  Charger  48VDC/60A  Charger type  Monophase 220V  Recharge cycle from 0 to 100% (hours)*  5  Emergency power system  - Driving motors  34VAC/9kW  Lifting motors  34VAC/13kW  Engine pump  - Engine Range Extender  Diesel tank capacity  30   Hydraulic tank capacity  145	Basket rotation	180°
Travel speed (working config.)  1.1 km/h  Tyres 315/55D20  Battery Type TIANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system - Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump - Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30   Hydraulic tank capacity 145	Total weight	6,130 kg
Tyres 315/55D20  Battery Type TANNENG - Lead-acid battery  Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system -  Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30    Hydraulic tank capacity 145	Travel speed (closed config.)	6.0 km/h
Battery Type Powersource A8V/320Ah Charger A8VDC/60A Charger type Recharge cycle from 0 to 100% (hours)* Emergency power system Driving motors A34VAC/9kW Lifting motors A34VAC/13kW Engine pump Engine Range Extender Diesel tank capacity FIRMAN AN192F/7.6kW Hydraulic tank capacity FIRMAN Capacity FIRMAN Capacity FIRMAN Capacity FIRMAN CAPACITA FIRMAN	Travel speed (working config.)	1.1 km/h
Powersource 48V/320Ah  Charger 48VDC/60A  Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system - Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30    Hydraulic tank capacity 145	Tyres	315/55D20
Charger 48VDC/60A Charger type Monophase 220V Recharge cycle from 0 to 100% (hours)* 5 Emergency power system - Driving motors 34VAC/9kW Lifting motors 34VAC/13kW Engine pump - Engine Range Extender FIRMAN AN192F/7.6kW Diesel tank capacity 30   Hydraulic tank capacity 145	Battery Type	TIANNENG - Lead-acid battery
Charger type Monophase 220V  Recharge cycle from 0 to 100% (hours)* 5  Emergency power system - Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump - Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30   Hydraulic tank capacity 145	Powersource	48V/320Ah
Recharge cycle from 0 to 100% (hours)*  Emergency power system  - Driving motors  34VAC/9kW  Lifting motors  34VAC/13kW  Engine pump  - Engine Range Extender  Diesel tank capacity  45	Charger	48VDC/60A
Emergency power system  Driving motors  34VAC/9kW  Lifting motors  34VAC/13kW  Engine pump  Engine Range Extender  Diesel tank capacity  Hydraulic tank capacity  145	Charger type	Monophase 220V
Driving motors 34VAC/9kW  Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30    Hydraulic tank capacity 145	Recharge cycle from 0 to 100% (hours)*	5
Lifting motors 34VAC/13kW  Engine pump -  Engine Range Extender FIRMAN AN192F/7.6kW  Diesel tank capacity 30    Hydraulic tank capacity 145	Emergency power system	-
Engine pump - Engine Range Extender FIRMAN AN192F/7.6kW Diesel tank capacity 30   Hydraulic tank capacity 145	Driving motors	34VAC/9kW
Engine Range Extender FIRMAN AN192F/7.6kW Diesel tank capacity 30   Hydraulic tank capacity 145	Lifting motors	34VAC/13kW
Diesel tank capacity 30   Hydraulic tank capacity 145	Engine pump	-
Hydraulic tank capacity 145 l	Engine Range Extender	FIRMAN AN192F/7.6kW
	Diesel tank capacity	30
<b>Transmission</b> Hydrostatic	Hydraulic tank capacity	145 l
	Transmission	Hydrostatic

<sup>\*</sup>Experimental calculation. The count is affected by climate and usage of the machine.

STANDARDS COMPLIANCE: EN 280, ANSI/SAIA A92.20

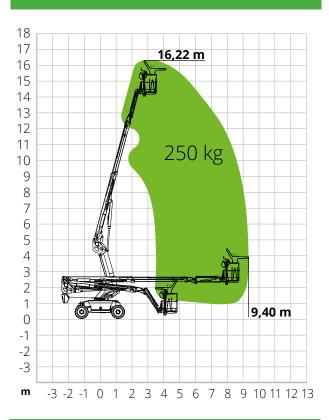
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## The data in this brochure are provided for the purposes of information and subject to change without notice.

#### **LOAD CHART**



#### **DIMENSIONS**

A Platform length	7.37 m
Platform length (transport)	5.49 m
Platform width	5.49 m
Platform width (transport)	2.33 m
Platform height	2.49 m
Platform height (transport)	2.60 m
<b>(E)</b> Wheelbase	2.30 m
Tailswing	1.24 m
Ground clearance	0.31 m

