



# ENERGREEN<sup>®</sup> America



## PROFESSIONAL MACHINES

1242 Nowell Dr - Augusta - GA 30901 - USA - Phone CA 510 593 3144 - Phone GA 706 945 2800  
[info@energgreenamerica.com](mailto:info@energgreenamerica.com) - [www.energgreenamerica.com](http://www.energgreenamerica.com)

Contract: VSA Heavy Equipment #23-04-0713  
Group: Tool Carrier  
Item Number: 296

Shipping & handling is not included in the base price and will be calculated separately.

## ILF ATHENA

**ILF ATHENA** is a self-propelled machine equipped with a telescopic arm suitable for the installation of various equipment to operate in the control of vegetation. A fundamental and unique feature of its kind is the possibility of rotating the cabin up to 90° with respect to the longitudinal axis of the machine in order to give the operator maximum visibility and comfort during work.

This self-propelled machine is equipped with the latest generation **Deutz engine** that provides **220 HP** in compliance with the EPA Tier 4 anti-pollution regulations. In addition to the two types and arm lengths, it is possible to equip the machine with different configurations to manage equipment installed at the front and rear.





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## Standard equipment:

### MACHINE:

- LED daytime running lights
- LED rear lights for road traffic
- Service towing hook (not homologated for road circulation)
- Fuel tank capacity 83 gal
- AdBlue® tank capacity 8 gal
- Hydraulic oil tank capacity 87 gal
- Retractable folding step on the counterweight for easy refueling
- Double front steps on left and right for safe cab Ingress/Egress (right step only when the cabin is rotate)
- Tool compartment on the right side of the machine complete with Energreen Service Toolbox
- MICHELIN XF (18 R22,5) tires

### ENGINE:

- Deutz TCD 6.1 6.1-liter liquid-cooled in-line 6-cylinder engine
- Common-Rail injection with 4 valves per cylinder
- Engine power 220 HP (at 2200 rpm)
- Engine data control and regeneration devices management (exhaust gases treatment) integrated in the ECI - Energreen Control Interface (7" monitor on steering wheel)
- FLEXXAIRE hydraulic reversible fan system (MANUAL activation)
- Separate cooling circuits (coolant - intercooler - hydraulic oil) with reinforced multi-section radiator
- 11" two-element air filter (primary and safety) and self-cleaning cyclonic pre-filter
- 150 A /14 V DC alternator
- Automatic battery isolator switch
- Exhaust emissions compliant with EPA Tier 4
- EGR (Exhaust Gas Recirculation) module with throttle valve and air heat exchanger managed by ECU (Engine Control Unit)
- Exhaust system consisting of EGR (Exhaust Gas Recirculation) + DPF (Diesel Particulate Filter) + DOC (Diesel Oxidation Catalyst) + SCR (Selective Catalytic Reduction) with regeneration without burner

### AXLES and BRAKING SYSTEM:

- Axles with 10 Stud Hub with maximum permissible load:
  - o front: 22046 lbs
  - o rear: 26455 lbs
- SCD - Stability Control Device system for locking/unlocking the front axle oscillation by means of hydraulic cylinders controlled by ECI
- 100% Front and rear Diff lock with electro-hydraulic in-cab control
- 6-Discs Oil immersed brakes system
- Negative parking brake



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### TRANSMISSION and STEERING:

- Continuously variable hydrostatic transmission with two-speed mechanical gearbox (work and transfer gear)
- ECO-MODE system to provide efficiency savings when travelling between worksites by lowering engine RPM when travelling at 25 mph
- Selectable drive modes 4wd or 2wd
- Electronic recognition of wheel alignment and selection of steering mode by ECI
- Selectable steering mode:
  - o 2-wheel steer (only front)
  - o 4-wheel steer
  - o Crab steer

### HYDRAULIC SYSTEM:

- Piston pump and motor, in closed circuit, for the arm-mounted equipment
- Piston pump and motor, in closed circuit, for the machine transmission
- Load Sensing piston pump, in open circuit, for the movements of the arm
- Gear pump, in open circuit, for the breaking system
- Gear pump, in open circuit, for the steering system
- Pressurized inlet and outlet filter for closed circuits with filter blockage indicator
- In line high pressure filter for the hydraulic valve block protection with filter blockage indicator
- Hydraulic oil flow (0-100 %) control of the equipment hydraulic circuit by ECI
- Modular 7-section hydraulic valve block:
  - o n° 5 proportional elements (electronic piloting)
  - o n° 1 ON/OFF element
  - o n° 1 hydraulic safety element (electronic piloting)
- Boom suspension system with nitrogen accumulators
- Floating movement function of the cutting head tilting
- Hydraulic oil temperature display

### STANDARD CAB:

- 90° Rotating cabin
- FOPS (ISO 3449) - ROPS (ISO 3471) cabin approval
- ECI (Energreen Control Interface) consisting of on-board computer with 7" display, PowerTrack (navigation knob) and electronic keypads for controlling the functionalities of the machine and the engine
- Tilting and height-adjustable steering column
- Electronic direction control lever
- GRAMMER MAXIMO XXL seat with air suspension and adjustable lumbar shock absorber
- Innovative and redesigned ergonomic right armrest, integrated into the seat and adjustable (with joystick housing for boom and mini-joystick housing for front hydraulic functions if the machine is equipped with front options)
- Front windshield washer wiper
- Electronical controlled air conditioning system, pollen filter and dedicated exchanger
- Left mirror
- Height-adjustable LED beacon
- Cab door with partial opening upper window
- Cab rear window partial opening and darkened with UV rays reduction treatment
- Lateral documents holder
- Automatic LED courtesy lights
- Emergency glass break hammer
- External electrical socket for 12 V DC services
- Internal 12 V DC socket
- Two-way USB socket (2x 5 V DC - 1 A)
- Clothes hangers



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**Build Part Numbers:**

N/A	ILF Athena ARM F15
ENG0KT01000658	Approval for USA
ENG0KT01000704	Special lights-kit USA homologation
ENG0KT01000760	ALLIANCE 600/50 22,5 380HD
ENG20101000014	Mineral hydraulic oil
ENG0KT01000049	Paint STD Energreen
E00301370000	Hydraulic rotator
ENG0KT01000605	Fire extinguisher
ENG0KT01000727	Automatic lubrication system with 13 greasing point
E620KITBRA02	Quick hydraulic coupling plate
ENG00101000263	Mobile ballast