

# ATF 400G-6

## ALL-TERRAIN CRANE

### A HIGH LOAD CAPACITY WITH MINIMAL TIME AND EFFORT REQUIRED FOR RIGGING!

As we developed the ATF 400G-6, one of our main concerns was creating a boom equal to the task of lifting 450 tons. As a result, this machine has the strongest main boom of its class, with the ability to lift loads that other cranes need a suspension system for.

For you, our customers, this means that with the ATF 400G-6 you can save money in many situations, as many jobs will not require the expensive transport and time-consuming rigging and dismantling of the suspension system. Should certain load capacity situations require a suspension system in spite of the strong main boom, using the compact TADANO Power System, the performance of the ATF 400G-6 can be further enhanced.

Safety, quality, and efficiency are all core TADANO values that have been built into our products. See the difference for yourself!

Max. lifting capacity	450 t
Boom	49.2' - 196.8'
Lattice jib	18' - 196.8'
Boom extension HTLJ	33.8' - 101.7 (hydraulically telescopable and offset 0° to 60°)
Max. sheave height	410.1'
Max. radius	282'
Engine	Mercedes Benz (Euromot III B, EPA Tier 4i) carrier: 480 kW (653 HP) superstructure: 195 kW (265 HP)
Gearing mechanism	ZF-TC-Tronic HD (Heavy Duty) with converter
Gear	12 x 8 x 12
Dimensions	Length: 704.6" Width: 118.1" Height: 157.2"
Transport weight (Standard scope of delivery)	159,325 lbs, 26,460 lbs axle load incl. 12.5 t swivel hook

**CHECK OUT THE  
ATF 400G-6 ONLINE AT**  
[bit.ly/1qoWVEm](http://bit.ly/1qoWVEm)



# THE ATF 400G-6 WORKS SAFELY.

We work hard to sell our customers safe cranes and to provide our employees with a safe and healthy working environment.

## Reduced fall height

Fall protection is ensured by a waist-high tram rail and arm system mounted on the main boom. Less falling distance reduces the risk of injury to employees compared to conventional ankle-height rope guards.



[bit.ly/boomextension](https://bit.ly/boomextension)

## Auxiliary features

Even when a crane isn't running, auxiliary work on a crane should be as safe as possible. To this end, the ATF 400G-6's fuel tanks have been built for easy access. In order to leave both hands free, the fuel line pump handle can also be attached to the conveniently-placed hook.

As workers are moving about the crane, the following properties allow them to do so with ease:

- Major crane sections are all accessible with the use of personal protection equipment
- Many guard rails are deployed around the crane to create additional safe working zones
- Perforated steps and slip resistant epoxy surfaces minimize danger of slipping
- Round head screws minimize tripping hazards
- Stabilizing supports for the ladder are located on the main boom, which can prevent slipping or tilting



## Directional stability

Driving an all terrain crane is very different from driving a passenger car. Delayed rear axle steering, which can be enabled on-demand, helps ensure that the rear end of the ATF 400G-6 stays in-line when changing directions. This minimizes the risk of damage on narrow streets or construction sites.



[bit.ly/dirstability](https://bit.ly/dirstability)

## High visibility

Backing up a large crane is very difficult, and can often be the cause of accidents. The ATF 400G-6 is equipped with a back-up camera that helps the crane operator to be more aware of their surroundings as they back-up.

This camera also features a microphone, which increases audible awareness.



## Powerful and reliable brakes

In addition to its mechanical service brake, the ATF 400G-6 is equipped with a wear-free hydrodynamic retarder brake (intarder) which has an extremely powerful braking torque. This enables long-term and wear-free braking without brake loss or failure, even down long, steep hills.



## Stabilized load pick-up

Load stability can be an issue for even the most experienced operator. The ATF400G-6 comes equipped with Lift Adjuster, which can be activated on-demand. Crane operators can then completely concentrate on the load and the load environment, including all involved workers, because the crane radius is automatically maintained without having to keep an eye on the crane instruments. This feature is particularly helpful for picking up non-visible loads or loads at high point.

The Soft-Stop Function can also be activated when needed to smoothly stop the crane as it reaches the end of its radial swing. This helps to prevent jerky movements that could cause load collision.



[bit.ly/swayfree](https://bit.ly/swayfree)

## High load capacity

Due to its comparatively high load capacity, the ATF 400G-6 rarely operates at its limit compared to competitor's cranes. This helps keep the crane in good condition over time, results in less operating errors, and enables a safer overall lift.



# THE ATF 400G-6 PROVIDES QUALITY.

The second core value of TADANO, **QUALITY**, relates to our internal business processes, products and services. By continually improving our internal processes in the sense of “total quality management,” we can offer reliable products and services.

## Comprehensive tests

Significant testing occurs at every stage of development and production for the ATF 400G-6. Specialized equipment is used to test components as well as assemblies which assures the quality of the product, and quality leads to safety.



## Safe screw connections

One screw can be the cause of a crane shutdown. That’s why we pay so much attention to ensuring that they are installed correctly.

For the ATF 400G-6 we meet this requirement by using electronic torque wrenches which tighten screws to their exact requirements. This helps ensure that all screws perform as they were intended to. Minor imperfections that are not visible to the human eye are caught as the system reports screws that don’t torque properly and can be quickly remedied.



## Hydraulic tubing and hose installation

The placement and mounting of hydraulic tubing and hoses, if not done correctly, can cause rubbing between the tubing/hose and the chassis or even against one another. Over time, this can result in crane failure. The ATF400G-6 features tubing and hose installation that minimizes wear and is easy to understand. As a result, if a tube or hose is ever damaged, leakages can easily be diagnosed and fixed.



## High-quality coating

Regardless of how well maintained your crane is, visible rust can make your customers doubt its reliability. That's why every TADANO crane has a high-quality coating that minimizes the formation of rust.

The ATF 400G-6 is primed twice with a two-component multifunctional primer and then finished with two coats of high-resistance two-component high-solid cover coat.

Rims are another component that can see a lot of wear and tear from road debris and job site hazards. To minimize this damage, our rims are powder-coated prior to assembly. The powder coating is burnt into the rims at a temperature of approximately 392 degrees Fahrenheit, which results in a much more durable coating.

Rim without powder-coating

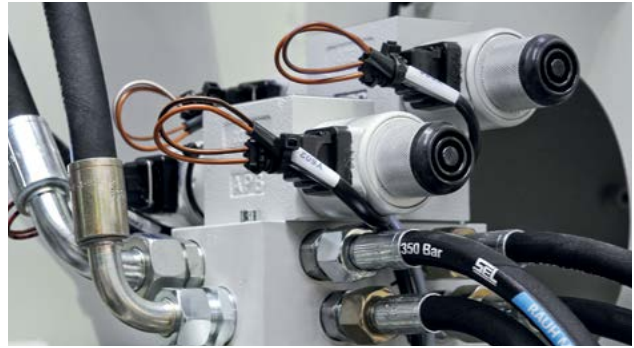


Rim with powder-coating



## Sealing of individual cables

Small details are often what make the difference between a reliable and an unreliable crane. For the ATF 400G-6, cables leading to a connector are sealed individually. Compared to cables which are not separately sealed, this reduces the risk of humidity getting into the connector, which in turn can cause electronic failure.



## Sturdy electronics

The electronics world has progressed by leaps and bounds in the past decade, allowing us to accomplish tasks that were never possible before. Cutting-edge electronic solutions are often fragile and easy to break, however, which can be a problem in the rough and tumble world of construction.

That's why TADANO focuses on balancing innovation with practicality. The ATF400G-6 contains electronics that are forward thinking but sturdy, which minimizes the chance of breakage or failure.



# THE ATF 400G-6 OPERATES EFFICIENTLY.

We work passionately to provide our customers with a good return on investment over the life of their crane purchase. TADANO also values producing a product that minimizes impact to the environment.

## Fuel-saving and environmentally friendly drive concept

The ATF 400G-6 is equipped with two engines – one powerful engine for the carrier and one smaller engine for the superstructure.

This ensures considerable fuel savings during crane operation since smaller engines normally consume less fuel than larger engines.

As a side benefit, it's also important to note that using two engines means that each individual engine is running for a shorter period. This almost doubles the service intervals and the service life of both engines. Over the life of the crane, less superstructure engine time can result in a significantly increased resale value for your ATF 400G-6.

In addition, the ATF 400G-6 is equipped with Mercedes Benz BlueTec engines. They consume up to 5% less fuel than previous models and reduce particle emissions by 90%. These new engines are not only good for the environment. They can also open up new job opportunities in areas where strict environmental regulations might have prevented operation.



## Simple and quick refuelling

The fuel tanks for the carrier and superstructure are located close together on the same side of the ATF 400G-6. This allows the crane to be re-fueled without a lot of unnecessary maneuvering.





## High load capacity

Suspension systems can be a useful multiplier for a crane's capacity, but they also cost money to transport and time to set up.

The ATF 400G-6 has a powerful boom that can lift loads in situations where similarly classed cranes would require the use of a suspension system.



## Simple electronics

Complex crane electronics can provide some benefits, but they also tend to be expensive and difficult to replace. TADANO focuses on selecting the simplest possible electronic components. This results in repair work that is also simple and cost-effective.

If, for example, there is a problem with a switch in the carrier or superstructure of the ATF 400G-6, it can be replaced on the spot by the crane operator. This minimizes downtime and enables your operator to get back on the job as quickly as possible.



## Easy operation

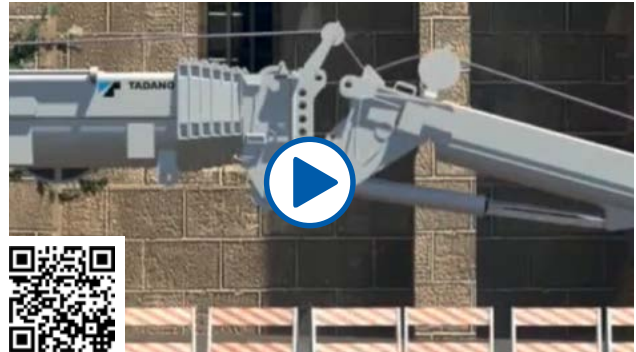
TADANO all terrain cranes have almost identical and simple control concepts across the whole line-up, from the ATF 50G-3 up to the ATF400G-6. When operators work with a different capacity TADANO than they are accustomed to, they can quickly and safely get up to speed and then get to work!



## Fully-hydraulic telescopic luffing jib (HTLJ)

The ATF 400G-6 can be equipped with a 101.7' long fully-hydraulic telescopic luffing jib (HTLJ) as an option. This enables objects to easily be lifted beyond building edges and telescoped into building structures with a ceiling, which would not be possible with rigid boom extensions. The result is that the TADANO HTLJ functions like an additional, fully hydraulic main boom.

The HTLJ can also be set up by one person in less than 15 minutes, even under narrow conditions with the shortest jib length. A second crane is not required for installation.



[bit.ly/htlj](https://bit.ly/htlj)

## Steering program switchable from any steering position

The steering program of the ATF 400G-6 can be switched from every steering position without having to move the crane to a neutral steering position (e.g. a straight line) first. This makes steering very easy and saves time at the construction site.



[bit.ly/steerprogram](https://bit.ly/steerprogram)

## Minimization of tire wear

Misaligned tires are subject to unnecessary wear and tear. The wheels of the ATF 400G-6 are precisely adjusted using state-of-the-art electronic laser measuring systems, thus increasing the service life of your tires.



## Low repair costs

Even the most reliable crane requires repairs from time to time. In order to minimize downtime, the ATF 400G-6 has been built using standardized components whenever possible.

These cost effective components are developed and produced by specialized companies on a large scale. With the help of such global suppliers we are able to quickly provide quality spare parts all around the world.





**TADANO AMERICA Corporation**

4242 West Greens Road, Houston, TX 77066

Phone: 281-869-0030 Fax: 281-869-0040

[www.tadanoamerica.com](http://www.tadanoamerica.com) E-mail: [tac.sales@tadano.com](mailto:tac.sales@tadano.com)

Parts Hotline: 281-869-0033 Service Hotline: 281-869-5925