YOU’VE GOT THE APPLICATIONS.
WE’VE GOT THE SOLUTIONS.

Wind power systems need to resist high environmental strains. Often many tons of weight must be held up in lofty heights, yet with absolute reliability. When exposed to extreme forces or weather conditions high precision fastening methods are decisive for success. alkitronic convinces with complete system solutions covering all aspects of tightening of bolted fasteners.
We know your applications and tightening requirements.

alkitronic provides everything – from competent consultancy services to a wide product spectrum and assembly instruction documentation – all in a comprehensive system for everything you need, on or off shore.

- Compact hydraulic torque wrenches, e.g. for azimuth drives
- Fast electric torque multipliers, e.g. for turbo assembly applications
- Efficient manual tools, e.g. for simple maintenance tasks
- Tools for the torque angle procedure, e.g. ideal for the assembly of rotor blades
WORK WITH US – QUICK AS THE WIND

Whether in production, assembly or maintenance: the perfect work result when fastening components of wind power plants depends on the best suitable tightening method. Because of the universal alkitronic programme you will never have to make compromises, not when it comes to speed, precision, efficiency or productivity. In addition to our system consultancy services we have electric, hydraulic and manual torque multipliers and wrenches in our product range – so you will find the best tool for every conceivable application and are not restricted to a single technology. And the performance of our tools is enhanced by the unique alkitronic quality made in Germany.

Advantages in production

• High working speeds
• Safe switching off with high repeatability
• No failure times due to overload
• High tightening frequency
• Unbreakable and durable gears for long service lives
• Documentable quality using the assembly documentation system

Advantages in assembly

• Heavy duty cast aluminium motor case, suitable for construction sites
• Synchronous motor, suitable for any voltage, also mobile aggregates. Current fluctuations are no problem
• Protection IP54 against moisture and dust
• No more switching between speed and power mode
• No performance loss at higher operating temperatures
Advantages in maintenance

• 100 % mobile aggregates suitable (!) no performance losses
• Programmable torques, also for tightening with torque angle
• Can be used as a test wrench as it cannot be overturned
• Excellent handling with the simple single finger rocker switch
WE’LL MAKE MORE OF

You have the application; we provide the consulting competence to find the best solution for your requirements, together with you. With alkitronic as your system partner you will be able to collaborate on a high technical level: everything around the tightening and the wind power plant, including calibration and documentation. We know your facility type and applications. This way we can provide you with the right tool package to meet all your requirements. Through our high level of service we always achieve long-lasting partnerships. Check us out, and just inquire.
YOUR APPLICATION

- Competence team & project management all around your application
- Field service, sales, technical support and expert advice
- Technical implementation of special support arms
- Fast implementation of specialist solutions
- After sales support, increase of the life cycle value
- Staff training on site, e.g. repair and maintenance of hydraulic aggregates

Calibration system (calibra)

Mounting documentation system (MDS)

Service / training
Electric Torque Multipliers

Electric Torque Multipliers with all-weather qualities

Electric torque multipliers of the alkitronic brand are ideal for working on wind power plants. In this case high forces and quick working speeds are essential – as found in numerous bolting situations. The devices are really ideal for turbo installation applications. Because contrary to hydraulic wrenches there is no “reverse” ratchet movement, which results in enormous time savings.

On top of that, alkitronic cannot be stopped by wind, weather and other environmental influences. Many tool types are designed with the protection type IP54 (protected against moisture and dust) and therefore perfect for the use in the offshore environment. For the range of 100 Nm to 42,500 Nm there is no faster and more precise technology.

TORQUE – ANGLE – PROCEDURE

This is used wherever high quality is required and friction effects must be minimized: e.g. when mounting 50 meter long rotor blades on the hub. Research has shown that 80 % of the torque is necessary for overcoming the friction below the head and on the thread. Wherever friction effects must be minimized the torque angle procedure is your first choice. Here the friction factor in the thread and of the bolt has no effect on the achieved mounting tightening force. If you want to eliminate negative effects with alkitronic you are always on the safe side.
• The automatic shut-off system guarantees a precise reaching of the torque, precisely set values, high repeatability
• The working speed is tremendous
• The brushless synchronous motor is very efficient due to highly minimized failure risks
• The IP54 models are not affected by moisture or dust
• The devices can be used in all international power grids (100 to 253 VAC / 45 to 66 Hz) with stable torque precision
• The plus version with the comfortable control via display
Hydraulic Torque Wrenches and Pumps

Hydraulic wrenches for positions difficult to access: AS or AX

For certain industrial applications sometimes hydraulic wrenches are the first choice, because of the technical requirements. For example in tight spots and such difficult to access, and for maintenance purposes. In wind power applications, e.g. for flange fittings inside the towers or on the shaft-hub connections, as well as in azimuth brakes.

Electric hydraulic pumps

NOVA: high speed in permanent operation

Any hydraulic system should work as quickly as possible. Here the electrical hydraulic pump NOVA is your first choice. As one of the fastest aggregates available on the market it helps reduce the “idle” working time during ratcheting. In the wind power sector it is ideal because of its quick work performance. In assembly it reduces costs, e.g. when erecting cranes.

- Manual or automatic operation with remote control
- Wear free and suitable for construction sites – robust compact case with handle
- Delivered in the “Multibox” with eyelets and handles, certified for crane transport
In wind power applications there are extremely high quality standards. Don’t leave anything to chance, so use the calibra calibration system to regularly test and validate your tool.

For precision torque measurements, optimization of torque values, pre-setting specifications.

- Torque measurement systems for testing devices
- Interface IFcalibra with USB
- Software calibra KS for Windows® PCs

The measurement and calibration system Calibra checks all common torque tightening devices: electric, air, manual, and hydraulic.
Increased quality
- Premium production
- Use of high-quality materials
- Long product life cycles
- 30 years’ experience in bolting technology
- Made in Germany – international patents

Increased precision
- Precise, customer-specific torques
- High repeatability
- Reliability in permanent operation
- Recordable tightening outputs
- Automatic shut-off

Increased productivity
- Quicker tightening without reworking
- No environmentally caused failures (IP54, ATEX)
- High work safety
- Simple use – easy instruction
- Low maintenance and cost efficient

Better service
- Technical advice on site
- Training offers
- Manufacturer’s calibration and certification
- Lifecycle support
- Spare part and repair service

TORQUE POWER WORLDWIDE
alki TECHNIK GmbH
Development, Production and Distribution of Bolting Systems
Unterlettenweg 4 – D-85051 Ingolstadt – fon +49 (841) 97499-0 – fax +49 (841) 97499-90
info@alkitronic.com - www.alkitronic.com