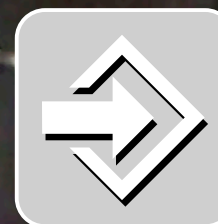


# VTT-System

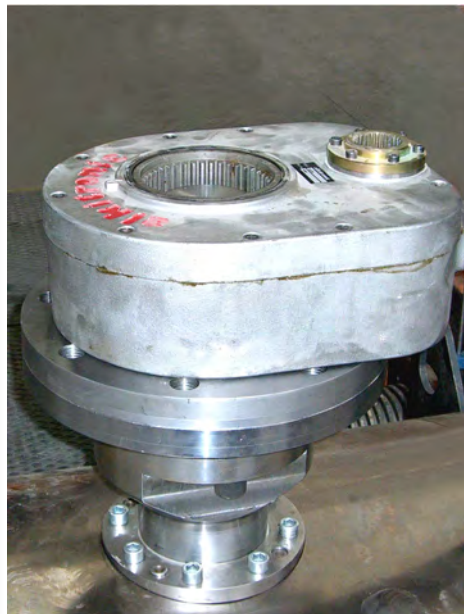
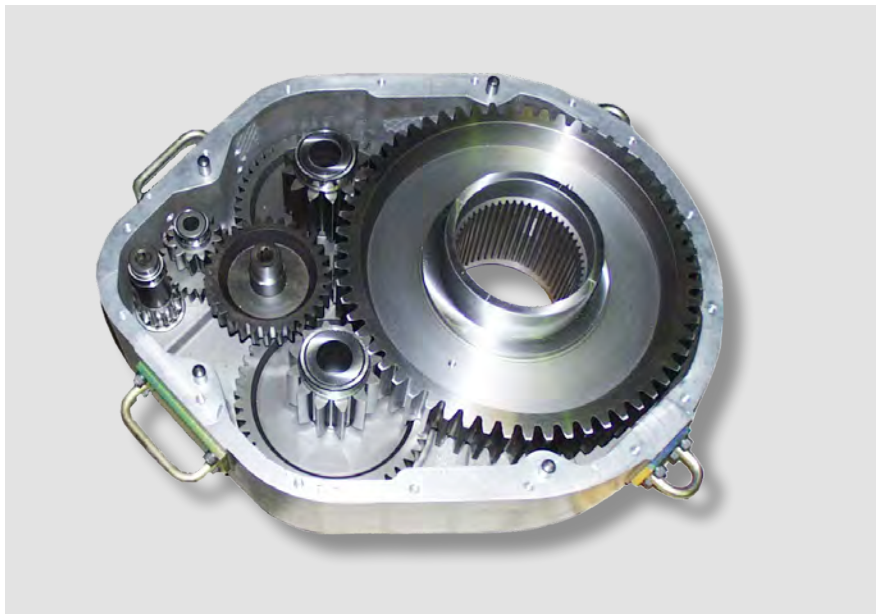
Valve-Torque-Test-System



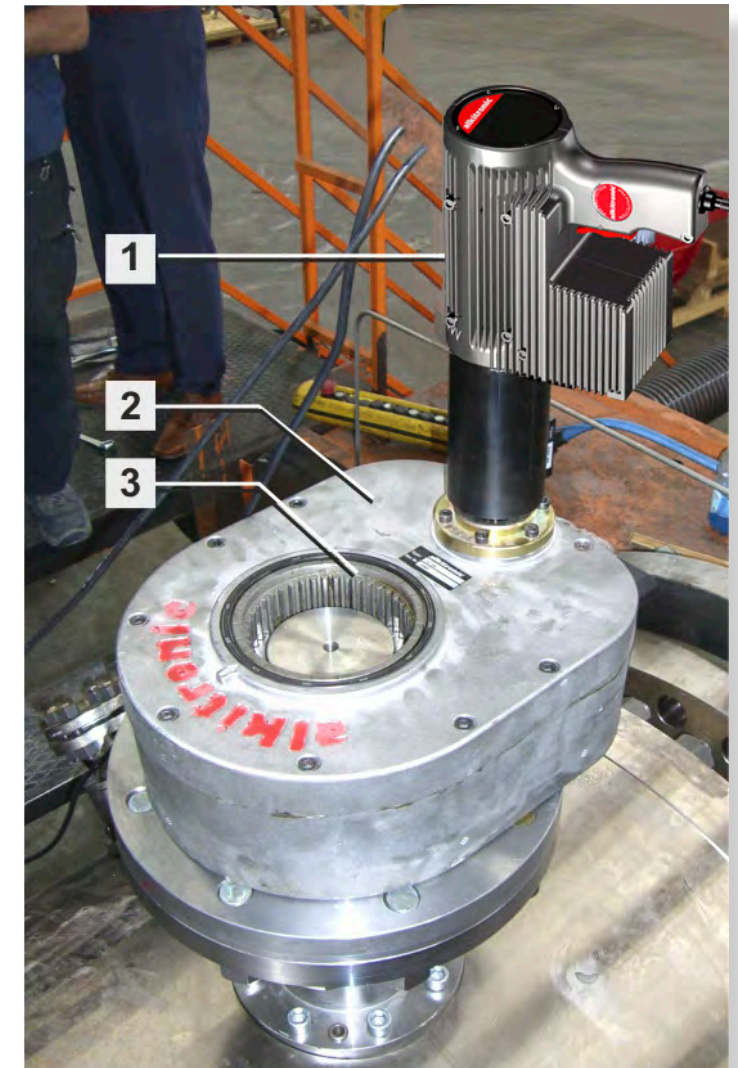


## Application

Oil and gas industry is involved in the transport of hazardous chemicals. Therefore actuated valves must perform correctly and provide high performance. Ball valve manufacturers are responsible for testing and publishing valve torque data. Comprehensive **reporting and documentation for the end user is of utmost importance**. Ball valves and actuators which do not work properly reduce safety during production processes and increase acquisition and maintenance costs significantly.

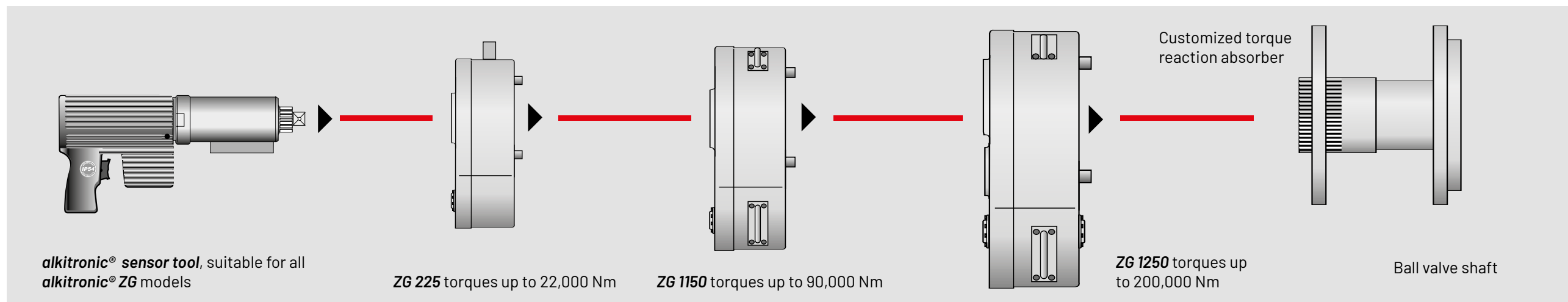


- 1 alkitronic® Sensor torque tool
- 2 alkitronic® ZG 225
- 3 Customized adaptor



## Advantages and **alkitronic®** specials

- **alkitronic® Sensor tools** and **ZG** are ideal for testing all kinds of valves of all sizes
- Torque testing equipment consists of a sensor torque tool, an applicatio software and an operation panel
- Customized to test 90° opening and closing cycles of ball valves with a tool torque range of central gear up to 200,000 Nm
- **alkitronic® MDS** and **ZG** outperform international standards of traceability of torque values, quality and reliability
- The documentation of torque values helps to identify and avoid threatening risks (e.g. running costs). Moreover, it enables you to prove the necessary torque to move the ball valve with different loads.





## Scope of Delivery



### VTT - Tablet

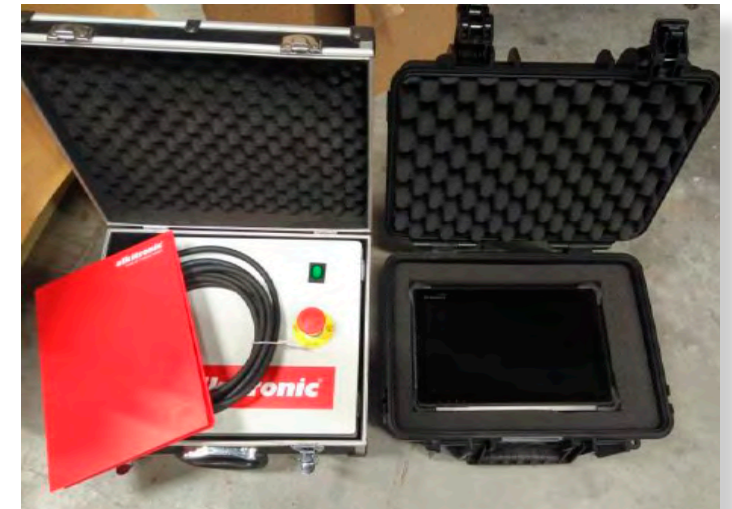
USB Mouse  
USB Keyboard  
DC Power Supply

### VTT - Box

USB cable  
Network cable

### EFCip 1000 SD

Blue data plug  
Silver data plug  
230V AC plug



## Scope of Options

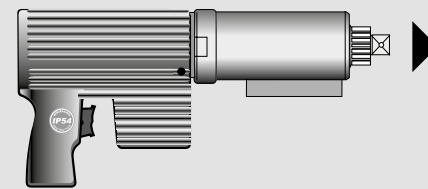
 **MADE IN GERMANY**



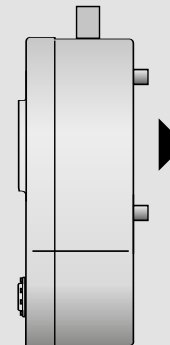
**VTT-System** (Valve-Torque-Test-System)

*alkitronic® sensor tool*, suitable for all  
*alkitronic® ZG* models

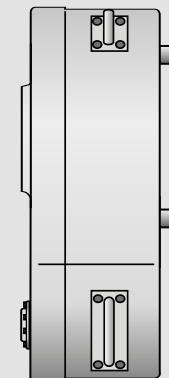
*alkitronic® sensor tools*  
torques up to 2,000 Nm



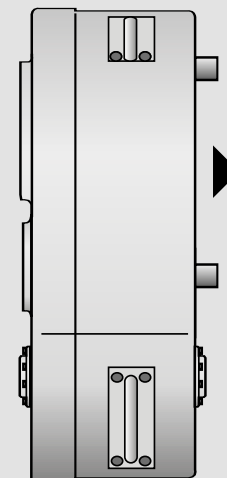
**ZG 225** torques  
up to 22,000 Nm



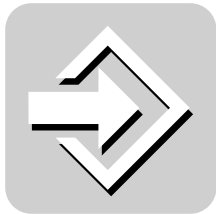
**ZG 1150** torques  
up to 90,000 Nm



**ZG 1250** torques  
up to 200,000 Nm



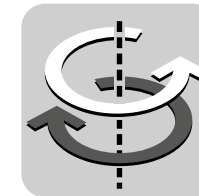
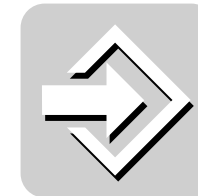
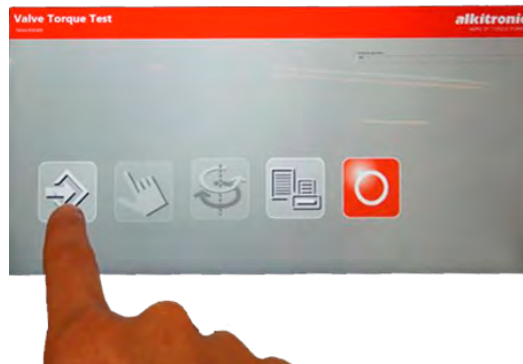
## VTT - Software



### Parameter

Enter, check and confirm all the necessary information:

- Customer address
- Inspector
- Test description
- Serial number
- Valve
- Tolerance
- Language



▲  
Parameter

company name

company:  
department:  
Name:  
Street & house number:  
Zip Code / City:

tester  
Alex Goixens

testing name  
Test 123

testing serial number

Screwdriver selection  
1-EFCip SN xxx-yy-zzzzzz Next Service 18.02.2021

Gear selection

valve type - DN - seat - conector - socket - min torque - max torque  
valve type - DN - seat - conector - socket - min torque - max torque

current torque  
0.00 Set 0

max. valid angel deviation (°)  
1.00

language  
English

✓

📄

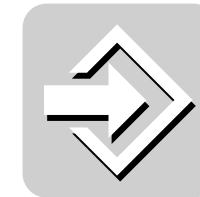
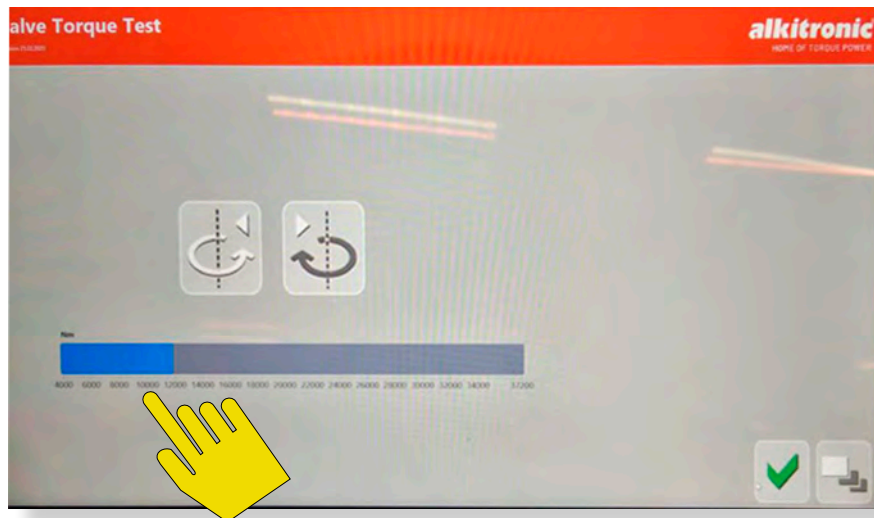
## VTT - Software



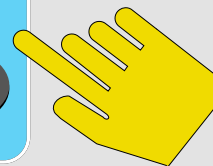
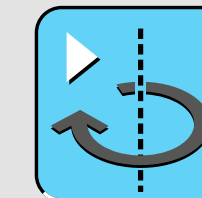
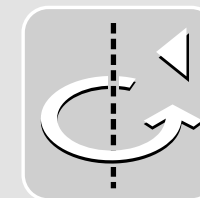
### Manual Mode

Position the square of the **alkitronic® sensor tool** or the valve in the required position. Double check the position. Confirm the status for the next step.

Choose the torque (Nm) you need

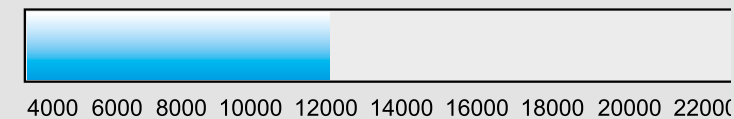


Manual Mode



Select the direction and activate the **alkitronic® sensor tool** with a double click.

Nm





## VTT - Software



### Test Mode

Enter all the necessary information and check the information. Start the test.

- 1 cycle Test => up to 100 cycles
- Output value (Nm and angle°)
- Data record and storage.

### Half-cycle evaluation in the first 10%, the middle 80% and the last 10%:

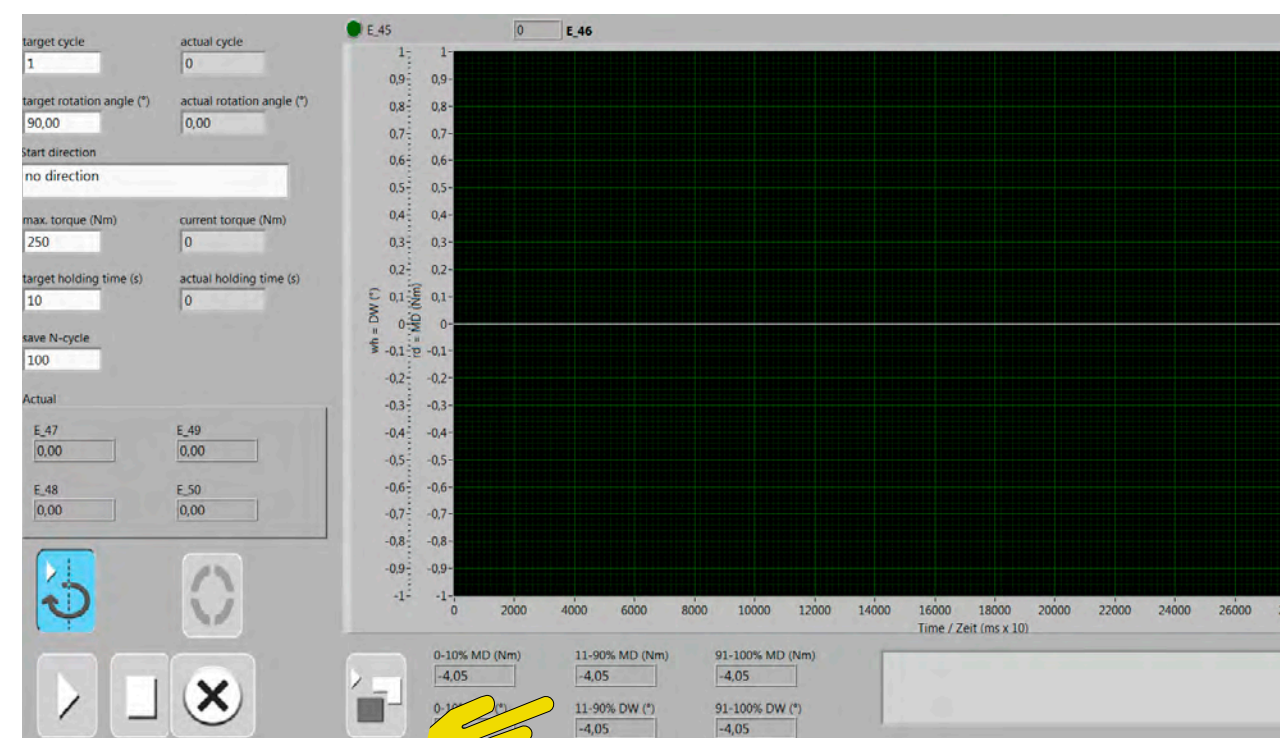
Max Nm with the associated angle.

The data are output after half the cycle and automatically noted on the certificate.

first 0-10 % : max Nm	middle 11-90 % : max Nm	last 91-100 % : max Nm
(MD) => Nm	(MD) => Nm	(MD) => Nm
DW =angle (°)	DW =angle (°)	DW =angle (°)



▲  
Test Mode





## VTT - Software

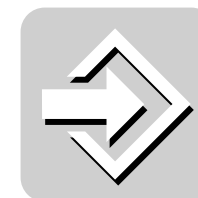


### Print / Documentation Mode

Enter, check and confirm all the  
All test-data are saved automati-  
cally. The file name of the data  
record is made up of the param-  
eter information and date / time.

### Certificate creation:

- Selectable between the  
standard certificate and the  
very detailed test protocol.
- The file name of the certifi-  
cate can be chosen freely.
- A comment can be written  
about the test that appears  
on the certificate.



Print / Document



## YOUR PLUS FOR MORE PERFORMANCE

### Increased quality

Premium production  
Highest 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  
Dokumentation of tightening results  
Automatic shut-off

### Increased productivity

Quicker tightening without reworking  
No environmentally caused failures (IP54, ATEX)  
High work safety  
Easy to use: clear, simple instructions  
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

**Thank you  
for your  
attention!**

alki TECHNIK GmbH  
Development, Production and Distribution of Bolting Systems

Unterlettenweg 4 – 85051 Ingolstadt/Germany – fon +49 841 97499-0 – fax +49 841 97499-90  
info@alkitronic.com – www.alkitronic.com