

The background of the entire page is a dark gray to black gradient, overlaid with a series of concentric, semi-circular lines that create a visual effect of an ultrasound wave emanating from the center. The lines are more densely packed in the center and become more widely spaced as they move towards the edges.

Unitech)
ultrasonic wave

Ultrasonic Generators

Titako Series

Sf Single frequency
Df Dual frequency
Mf Multi frequency

POWERFUL PRECISE RELIABLE

The new TITAKO® Ultrasonic Generators are increasingly powerful and technologically advanced and have been developed to control and maximise transducer efficiency. They meet the highest expectations in all applications where quality, reliability and precision are essential.

TECHNOLOGY AND PRECISION

Smart Impedance Analyzer



Thanks to continuous scanning and impedance analysis, the innovative control system they are equipped with, based on the S.I.A. (Smart Impedance Analyser) algorithm, always ensures the best working conditions when the physical conditions of the system change.

INSTALLATION ANYWHERE

Universal Power supply



No limit to the type of power supply, from 110 to 500 Volt 50/60Hz, both single-phase and three-phase (even without neutral).

Thanks to the high performance value of this family of generators, heat dissipation is very low and a smart indirect cooling control reduces ventilation to a minimum, allowing installation even in harsh environments.

VERY HIGH POWER

Up to 5000w in ultra-compact dimensions



Design of the highest level and choice of state-of-the-art electronic components are the strengths that have allowed the new TITAKO® to achieve extreme values of power and performance in ultra-compact dimensions.

INTELLIGENCE and FLEXIBILITY

Multitasking Control



One of the main features of TITAKO® is its extreme flexibility. The Multitasking control system, ensured by the powerful 64-bit Quad-Core Arm processor core, can simultaneously manage different frequencies, giving the system a Multifrequency never obtained before, with a range from 20 to 135KHz.

MAXIMUM UNIFORMITY

Dual Modulation STEP + SWEEP Mode



Pulsed cyclic Step Mode modulation in combination with Sweep Mode modulation ensures maximum effectiveness and uniformity of the ultrasound field in any type of treatment, optimising quality and precision.

INDUSTRY 4.0

Industry 4.0



Continuous developments in industry have led UNITECH to equip the new TITAKO® generators with remote Ethernet Modbus TCP-IP interconnection for data control and exchange, falling within the parameters of Industry 4.0.

In addition to integration into automated production control systems, remote assistance and diagnostics can be performed remotely, allowing you to monitor, store and adapt all the parameters of the machines installed anywhere in the world to the system, in real time.

VERSIONS

Sf Single-frequency
Df Dual-frequency
Mf Multi-frequency



The TITAKO family of generators is made up of three models, starting from a simpler LIGHT version, to a more complex TOP version with a touch-screen display, intended for research laboratories, and a BLACK version with a remote user interface. All models are available in Single-Frequency and Dual-Frequency versions.

The TOP e BLACK models also in the Multi-frequency version.

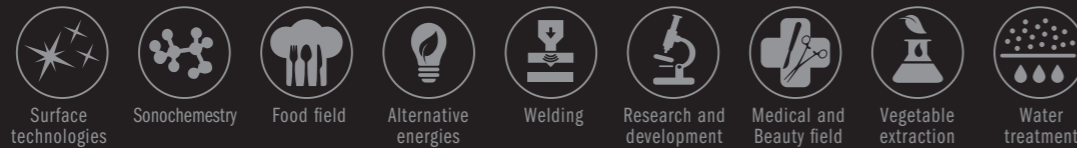
titako)) TOP

TITAKO 3 TOP® has a unique and very attractive, functional design. The user interface is simple and intuitive, with a 7" Touch screen colour display, allowing you to program and manage all the parameters of the Core with extreme ease.



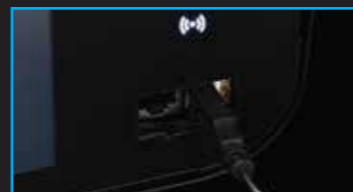
This version is ideal for Surface treatments, Sonochemistry, R&D laboratories or any kind of manual or automatic use, where maximum control of all system parameters is required.

Sectors of application:



titako)) BLACK

TITAKO 3 BLACK® has a unique and very attractive, functional design. The user interface is not present on board, but it is visible and interactive in remote desktop, as part of a local and global network.



USB Connections

This version is ideal for automatic systems where maximum control of all system parameters is required through remote management.

Titako 3 TOP and BLACK

The functions envisaged are countless and all customisable:

- Remote assistance
- Wi-Fi connection
- Bluetooth connection
- Self-recognition and autoseup of connected transducers with SMART CONNECT®
- Multifrequency Automatic work programs
- Degas Mode
- Pulse Mode
- S.I.A. (Smart Impedance Analyser) control system
- Pulsed cyclic modulation SWEEP + STEP MODE
- Manual timer
- Multilingual Online Help Guide
- Multi-function I/O remote control as standard
- Interconnection and management of Modbus Ethernet TCP-IP via IP address (Standard INDUSTRY 4.0)
- Datalogger
- Online remote user interface
- Software upgrade via USB Key or Remote Assistance
- Low-power operation mode



Available with power supply from:

110v → 500v 50/60Hz

both single-phase and three-phase (even without neutral). Also available with DIN rail mounting



Frequency range:
20 → 135kHz



Maximum power:
5000w

Up to 5000w
in ultra-compact dimensions

Dimensions WxDxH
320x275x134mm
(suitable for a 19" rack)

Weight:
7 Kg

titako)) LIGHT

TiTAKO 3 LIGHT® has a unique and very attractive, functional design. The user interface, with luminous keyboard, is very simple, intuitive and functional, allowing easy manual management of the main functions of the machine.

All parameters are customisable via the optional Ti.PROG handheld programmer.



Frequency range:

20 → 135 KHz



Maximum power:

5000w

Up to 5000w
in ultra-compact dimensions

Dimensions WxDxH

320x275x134mm
(suitable for a 19" rack)

Weight:

7 Kg

This version is very versatile both in simple manual applications and in large automatic systems.

Sectors of application:



Surface technologies



Food field



Alternative energies



Water treatment

The functions envisaged are countless and all customisable:

- Multifrequency Automatic work programs
- Degas Mode
- Pulse Mode
- S.I.A. (Smart Impedance Analyser) control system
- Pulsed cyclic modulation SWEEP + STEP MODE
- Multi-function I/O remote control as standard
- Low-power operation mode

Smart
Impedance
Analyzer



Modulazione
STEP + SWEEP Mode



Functions available with the **ti.prog))** programmer:

- Remote assistance
- Wi-Fi connection
- Bluetooth connection
- Datalogger
- Online remote user interface
- Software upgrade



Remote assistance



Wi-Fi



Bluetooth



USB

Available with power supply from:

110v → 500v 50/60Hz

both single-phase and three-phase (even without neutral). Also available with DIN rail mounting

Universal
Power Supply





Unitech)
ultrasonic wave



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In partnership with:



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