

K&MTECH

Multiple-Function Super
Precision Type Ultrasonic
Welding Equipment
FU2025



K&M TECH: Super Precision Standard machine for universal application

The K&M Tech standard machine gives ultrasonic welding a new dimension: it combines high-performance ultrasonic components with high-quality construction and up-to-date control solutions. Compared with its predecessors the functionality of the FU2025 has been improved and handling simplified.

★A persuasive argument in favour of the FU2025 is its intuitive operation and user prompting. Even without expert knowledge and in-depth training, the user will be able to achieve top-quality welding results across a wide range of different components.

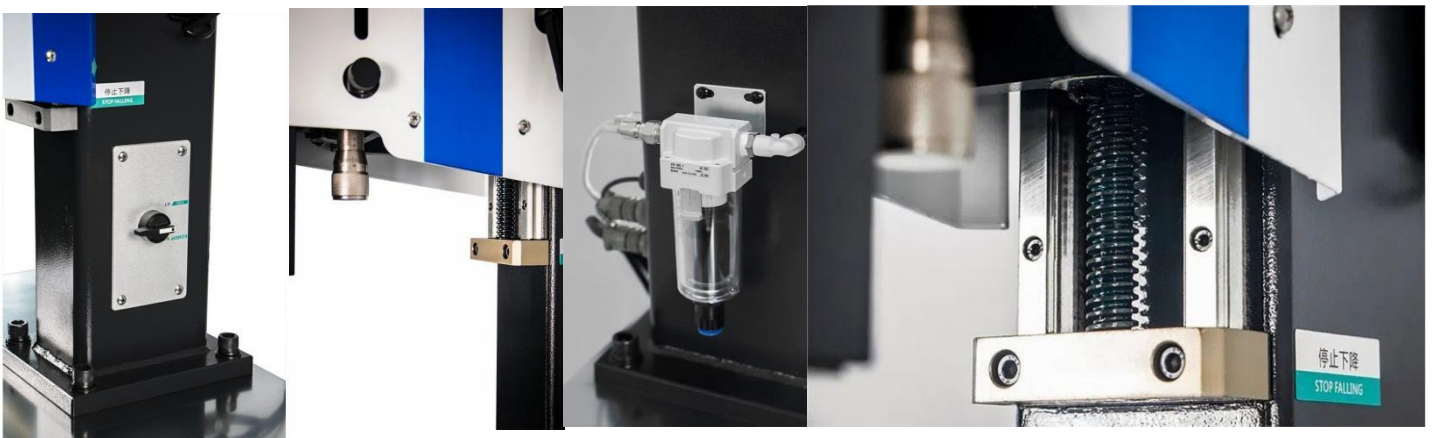
★In the K&M TECH , K&M TECH is offering a brilliant all-round solution from among pneumatic welding machines. It guarantees extremely good production reliability and quality and pays for itself within a short period of time.



K&M TECH: Super Precision Standard machine for universal application

Mechanical Features

- ▶ The base, column and frame work of the equipment are formed by welding steel plate, which ensures the rigidity and stability of the whole equipment. Assembly line add precision detection to ensure the assembly efficiency and zero defects.
- ▶ In order to operate and disassemble easily, the control generator and operation screen are hanged on the side.
- ▶ The height can be adjusted through motor lifting to achieve rapid, labor-saving and accuracy.
- ▶ The horizontal adjustment of bottom plate makes the mold adjustment more convenient and accurate in case to achieve the precision of welding effect.
- ▶ The welding feeding is guided by two high precision guide rails, so as to ensure more precise and stable of welding effect.
- ▶ The front end is equipped with a high-definition touch screen to facilitate the modification, adjustment of parameters and observation data.
- ▶ The whole machine is processed with automatic special machine tools to achieve high production efficiency and stable quality.



K&M TECH: intelligent Operation

Many functions for optimum welding results

The FU2025 series has various operating modes and monitoring functions, which make it a reliable all-rounder among pneumatic welding machines.

Basic operating modes

- n Time welding Welding to a defined preset time
- n Absolute path
Welding to a defined size
- n Relative path
Welding a relative preset path once a triggered reference point is reached
- n Energy
Welding to an energy value firmly determined in advance

Monitoring functions

- n Time welding with energy and path monitoring
- n Path welding
with energy and time monitoring
- n Energy welding with path and time monitoring

Machine mode

- n Password-protected user levels
(operator / setter)

Special setting mode function for convenient setting

- n PLC control
- n Overload protection
- n automatic tracking function
- n Transducer voltage protection
- n Pressure triggering mode
- n Welding horn impedance analysis + protection function
- n QC(time and energy, mutual check)

All operating modes can be simply monitored by inputting min. or max. values. The “amplitude”, “welding force” and “feed rate” parameters can likewise be set at the control panel.

Technical data:			
Voltage:	200-240VAC stable output		
Frequency:	15Khz	20Khz	35Khz
Power:	3200W	3000W	1200W
Language:	Chinese/English		
Work Stroke:	100mm		
Processor:	4-core, 32-bit processor, 485 communications		
Mode:	Pressure-trigger mode/ Air-pressure mode		
Depth Check:	0.01mm precision		
Interface:	10-inch Human-machine interface		
Welding mode:	Time, Energy, Ground, Absolute Depth, Relative Depth, Pressure		
Trigger mode:	Delay, Pressure, Depth		
Welding amplitude:	Segmented amplitude, 10~100% adjustable (1% accuracy)		
Functions:	Shake-off function		
Auxiliary functions:	Start, End, Double Workstation		

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Features:

Reinforced Steel Profile for Press Structure

Linear guide blocks are used for welding movement and horn adjustment

Enough connection terminal ports for easy automation control

Real-time frequency auto tuning function

Amplitude compensation

Frequency compensation

Welding horn resistance analysis + protection

Over-load protection

Voltage protection (input)

Transducer voltage protection

Quality control (interactive check between time, energy, absolute depth, relative depth)

Welding record

Data collection

Data export

Scanned data import

Power curves

Speed inspection

Pressure verification

10 groups of mould number can be selected and named freely

Auto switching between resistance analysis and pressure verification

No fault power

It features in higher power, good quality and stable welding results.

K&M TECH: intelligent control

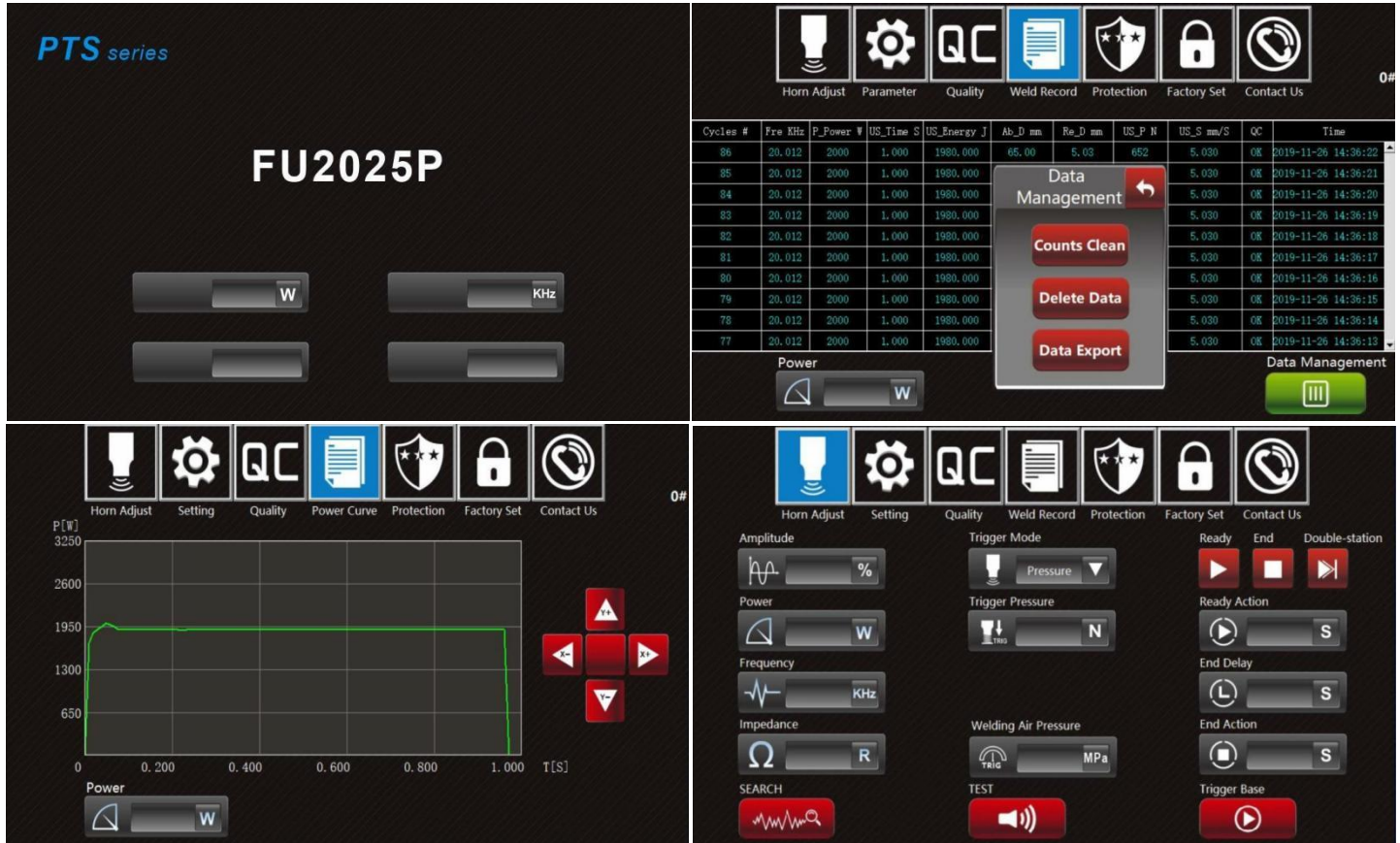
Intuitive, user-friendly operation via touchscreen

Control of the new standard ultrasonic machine is intelligently incorporated into the control concept.

Process control features

- n Automatic frequency tuning to each welding stack used (no frequency teaching required)
- n Automatic frequency tuning before starting each weld
- n Automatic amplitude stabilisation throughout the operation
- n Setting and automatic modes (password protection >> user level)
- n Data storage for many freely nameable parameter sets
- n "Welding force", "amplitude", "time", "welding depth" and "monitoring value" parameters in put via the touchscreen display

Operation Panel:



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Ultrasonic welding application:

For all application markets, ultrasonic welding has its unique advantages - fast, Efficient, clean and firm, won the recognition of all walks of life.

Automobile:

n. ultrasonic wave can be controlled by computer program to implement the welding of large and irregular parts. such as bumpers, front and rear doors, lamps, brakes

n. Lamp, etc. With the development of high-grade roads, reflectors are also increasingly using ultrasound wave soldering.

Packaging:

n. hose sealing, special packaging belt connection.

Electronics:

n. use automation scheme design to enable users to achieve large-scale production.

n. At the same time ensure product quality requirements.

Home Appliances:

n. through appropriate adjustment can be used for: portable lamp shade, steam Ironing door, TV shell, radio, transparent panel, power rectifier,

n. the screw fixing seat of TV shell, the lamp housing for reducing mosquitoes and the sink for washing machine etc.. which need to be sealed and firm and beautiful home appliances.

Toy Industry:

n. the adoption of ultrasonic technology makes the products clean and efficient, firm, instead of screws, adhesives, glues or other accessories, reducing the risk & production cost, so that the competitiveness of enterprises in the market greatly enhanced.

Other Commercial Application:

n. communication equipment, computer industry, printing equipment, Audio products, can be welded by K&M ultrasonic equipment, which brought you fast, clean, efficient production methods, and more opportunities.