

# AMTEC

## Applied Manufacturing Technologies, Inc.

### Multiconvertor

#### Proven 500W multiconvertor technology

Multiconverter units are frequently used in the welding of large-area, asymmetrical or very precise plastic parts, as occur for example in automobile and apparatus engineering or with toys. The advantage of these AMTEC multiconverter systems lies in the construction of small, uncritical sonotrodes and in the facility to optimize the weld quality along the whole weld contour with local targeting and individually. Multiconverter configurations can be implemented on all press types, to a max. of 24 welding heads in the case of the USP3000.

The illustration shows a 20kHz, 18 way multiconverter head for the welding of water containers for vaporizers.



#### Converter unit with adjustable welding pressure type SE26/20VK



For ultrasonic joining tasks in the hightech range, such as data carrier diskettes, electronic and medical engineering components, but also at 500 W multiconverter applications with low welding pressure, it is advantageous for converters with adjustable spring force to be used. On striking the workpiece the sonotrode catches slightly with a spring, whereupon the welding pressure is generated by a pretension pressure spring. Since the actual feed motion must always be provided by an external feed unit, this converter type with variable spring force is a passive feed unit. The spring-loaded converters can be mounted individually or in a multiconverter configuration with appropriate mounting adapters on all the pneumatic ultrasonic welding presses and feeders of the USP or USV series.

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