

## VIBMATIC® 8000

Vibration stress relief

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VIBMATIC® 8000 is the fully automatic system for vibration stress relief. The further developed 6th generation of VSR - treatment is based on the precise **MODAL ANALYSIS** and stabilises metallic workpieces in their dimensions by vibration.



# VIBMATIC® 8000 with MODAL ANALYSIS

## The control unit

The control unit regulates the motor speed, controls the modal impactor, measures, shows and processes necessary data. For this purpose, the especially further developed VIBMATIC® 8000 software is used. The gained informations (strike capability of the modal impactor and the measured data from the triaxial accelerometer) are now the computation base for the modal analysis.



## The vibration motor

The vibration motor with centrifugal force of up to 25.000 N works in a frequency range from 12,5 - 100 Hz equal to 750 - 6000 RPM. It is easily adjustable from its outside, tough and durable. A vibration treatment comprises five working steps with up to ten operating speeds individually determined for the workpiece.

## Flexible vibration treatment of small and huge workpieces



from 100 kg

4.



up to

over 200 t

# VIBMATIC® 8000 with MODAL ANALYSIS

## The modal impactor

The modal impactor generates multiple, very short force impulses with optimized power of impact induce the workpiece several times.

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## The Accelerometers

The induced acceleration in the workpiece is determined by the triaxial accelerometer. Precise parameters are necessary for the calculation of the optimal working frequencies by the control unit. Triaxial and monaxial accelerometers are measuring steadily the acceleration in the workpiece.

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## Supplies

Scope of supply are 4 vibration dampers 2 C-Clamps and 1 colour printer.



**4 x Vibration dampers**



# Good reasons for the VIBMATIC® 8000



