

**Shaken  
- not  
stirred!**



●●● **Magnetic Shakers**

## REMOTE CONTROLLED MAGNETIC SHAKERS FOR MICROTITER PLATES

# Shaken - n

When developing the Shaker, the requirements of the automation industry were uppermost in our mind next to a high functionality as well as wear-free and reliable operation.



Delivery: TELESHAKE, control unit SHAKEMODUL, RS 232 interface cable, connection cable, software.

### + ADVANTAGES

- **Space saving**
- **Ultra-flat**
- **Self-centering**
- **Suitable for robots**
- **RS 232 interface**

### TELESHAKE

The drive concept, approved in the whole world for many years now, has been also adapted to the new ultra-flat shaker for microtiter plates.

- Space saving dimensions, only slightly larger than one microtiter plate
- Flat design (< 40 mm), can be integrated in robot stations without problems
- Self-centering zero position of the shaker plate after turning off: the time-consuming electrical tracking is not necessary, therefore ensuring a maximum of operating security also in the unmonitored continuous operation
- Powerful shaking movements from 100 to 2.000 rpm, amplitude of 2 mm, therefore ideal for 96 and 384 microtiter plates
- Automatic start-up enables a low start without spilling of samples
- A minimum of moved masses, therefore little transference of vibrations onto the respective standing and assembly areas
- Shaker can be remote controlled via control unit and software - ideal for controlling by robots and PC
- The direction and the kind of vibration used (either circular or back and forth movements) can be switched rapidly via software; additionally, intervals can be set
- Up to 14 units can be controlled directly and individually with only one RS 232 interface
- Integrated threads and drilled holes for assembling on robot workbenches
- Wear-free inductive drive concept: since 20 years world-wide used and well-proved technology
- Unit adjustment to individual requirements as well as OEM-construction on request



### ! HINT

Suitable for microtiter plates size 96 and 384

# DIRECT CONTROLLED MAGNETIC SHAKERS FOR MICROTITER PLATES

# Not stirred!



## MONOSHAKE

The drive concept, approved in the whole world for many years now, has been also adapted to the new ultra-flat shaker for microtiter plates.

The **MONOSHAKE** was developed for shaking tasks directly on the laboratory bench.

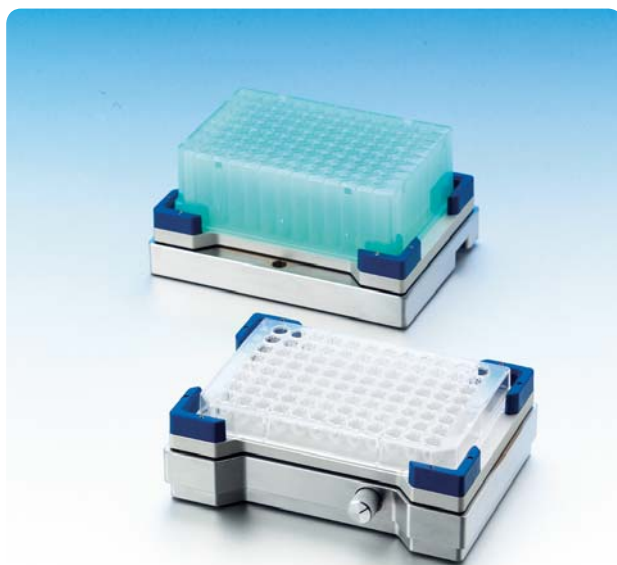
The **MONOSHAKE** has the identical advantages of the **TELESHAKE**, only the operation is fitted for the requirements of the daily work directly on the laboratory bench.

- Direct controlled shaker for microtiter plates: speed is adjusted directly at the unit by a turning button
- Shaker is turned on and off also by speed adjust button
- Powerful circular movements from 100 to 2.000 rpm
- Flat design (< 47 mm)

### HINT

Further facilities and functions, with the exception of the interface function, are identical with **TELESHAKE**, so that it is only partly suitable for robots.

A „Plus“ in Suality  
A „Plus“ in Innovation  
A „Plus“ in Service



## TECHNICAL DATA

	TELESHAKE	MONOSHAKE
Number of microtiter plates	1	1
Speed (rpm)	100 - 2.000	100 - 2.000
Amplitude (mm)	2	2
Dimensions W x D x H (mm)	146 x 103 x 40	146 x 103 x 47
Weight (Drive) (kg)	2	2,1
Zero position, self-centering	yes	yes
<b>Construction</b>	<b>remote controlled</b>	<b>direct controlled</b>
Housing material	aluminium / brass (nickelcoated)	aluminium / brass (nickelcoated)
Protection acc. to DIN 40050	IP 32	IP 32
<b>Environment</b>		
Ambient temperature (°C)	+5 up to +56 at 95 % humidity	+5 up to +40 at 95 % humidity
<b>Power supply unit / Control unit</b>		
Includes	Control unit	Power supply unit
Operating voltage (VDC)	12	12
Mains voltage / frequency (VAC)	115 or 230 / 50 - 60 Hz	115 or 230 / 50 - 60 Hz
<b>Order No.</b>	<b>51410 (115 V = 51410 U)</b>	<b>51110 (115 V = 51110 U)</b>