

# IKA

designed for scientists

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THE UNIVERSAL MIXING DRIVE | TWISTER



### Personalized Application Advice

At the IKA Application Center, you can see the performance of our new mixing drive for yourself. Our experts will show you the application and demonstrate the accessories.



### One service for everything, worldwide

The decision for TWISTER is also the decision for IKA's excellent technical service in your region. Our team is available worldwide for your service and application needs. IKA guarantees the availability of spare parts for your laboratory device for up to 10 years.



2+1 years warranty\*

### Newly designed and already awarded

Flat, light, glassy and operable via touch display: TWISTER is a completely rethought and redesigned mixing professional. It can stir and shake. And even before it's market launch, it received the reddot Award in the Product Design category.

### Touch operation

TWISTER not only looks better, it does things other laboratory devices can't. For example, the new way of interaction between user and lab instrument. TWISTER becomes your hand's natural extension. Operation by touch will be one of your new instinctive experiences with the innovative TWISTER.



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Strong like no other. Innovative like no other.  
 Versatile like no other. And changeable like never before.  
 Actually, TWISTER is without saying. You have to experience it.



## From magnetic stirrer to shaker and back

TWISTER is a master of transformation. The small, elegant plate on your lab bench is initially a magnetic stirrer that packs a punch because it easily manages 3000 revolutions and can reliably stir even the smallest volumes. And then a single attachment turns it into a shaker, with only a small additional cost and no additional space needed.

And because TWISTER is so clever, it even becomes a multi-position magnetic stirrer in no time at all: You can connect up to 30 units together in any desired pattern. That's up to 270 stirring positions for the smallest volumes. But starting from the beginning ...





## THE MAGNETIC STIRRER TWISTER

TWISTER not only looks better than other magnetic stirrers. It can also do things that other magnetic stirrers can't.

### New operating concept and innovative display

TWISTER enables a new way of interaction between user and laboratory device: Via the 360° LED circle display, all information is presented intuitively without any alpha-numerical display. Mixing can be started via the touch display or, thanks to beaker recognition, by placing or touching the beaker or attachment.



### Powerful mixing

The TWISTER magnetic stirrer has a universal and extra-strong drive. As the first magnetic stirrer at IKA, it mixes liquids with viscosities of up to 500 mPas at up to 3000 rpm.

### Mixing in small vessels

With the TW.IX multi-position attachment, the stirring force can be transferred from one to nine small stirring positions. This makes thorough stirring of the smallest quantities particularly easy.



### Automatic beaker detection

Place a vessel on your magnetic stirrer. TWISTER recognizes it and starts. In this operating mode, the intelligent laboratory device no longer needs a start button.



### Torque trend indicator

This setting lets you know how much energy your magnetic stirrer is currently using. Viscosity changes can thus be observed during the stirring process.

### Amazingly robust

With protection class IP 66, TWISTER is optimally protected. It can be cleaned under running water without any problems and operation in incubators up to 40 °C is also possible. The glass surface impresses with both its attractive appearance and its outstanding chemical resistance.



### Rotation direction reversal

In interval mode, the direction of rotation can be changed in definable time intervals. This leads to a significantly better mixing result, especially with samples that are difficult to mix.



# TWISTER – THE TRANSFORMER

## Why buy multiple lab devices, when one can do it all?

With just one basic unit, you can create numerous new possibilities. Thanks to convertibility and upgrade options, you can use TWISTER as a magnetic stirrer today and as a shaker tomorrow. This is not only environmentally friendly and economical, but also reduces the number of electronic devices and the space required in your laboratory.

## Multi-position magnetic stirrer

No other can do this: You can easily turn the TWISTER single-position magnetic stirrer into a multi-position magnetic stirrer with up to 30 stirring positions.

Next, you can automate your stirring task. Either you configure one plate as leader and let all other plates (followers) run with the same setting or you can assign a different job to each plate. Of course, no other can do this either.

### Individual control of plates

TWISTER is the only multi-position magnetic stirrer where you can assign a different speed or stirring direction to each stirring position.



## Stirring of smallest quantities

Matching the new TWISTER, the TW.IX attachment has been developed. It can transfer the stirring force from one to nine small stirring positions and is particularly suitable for mixing in small sample vessels with diameters of 23 to 28 mm and volumes from 8 to 60 ml.

For simplified and safe sample handling, the vessel holders TW.IX.28 and TW.IX.23 are available as accessories.

## From magnetic stirrer to shaker

No other can do this anyway: With the TW.VX shaker attachment, TWISTER becomes a vortex shaker. It starts either by pressing a button or by touching the attachment. In one-hand operation, the shaker only runs as long as you touch the attachment with your hand.

With STICKMAX II, the round adhesive mat, it can also mix larger volumes properly at slow speeds.

By the way: Your existing shaker accessories from the MS 3 shaker series also fit the flexible TWISTER. The large selection of attachments allows mixing of samples in a wide variety of vessels.



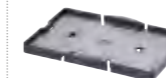
TW.VX\*  
Basis



MS 3.1\*



MS 3.3\*



MS 3.4

### ACCESSORIES TW.VX



MS 1.21\*



MS 3.5



MS 1.31



STICKMAX II



\*Included with TW.VX.

## Technical data

### TWISTER

Speed range	100 – 3000 rpm
Speed setting accuracy	100 rpm
Length of stirring bars	10 – 30 mm
Max. stirring quantity per stirring position	5 l
Dimensions (W x H x D)	135 x 24 x 135 mm
Max. self-heating	6 K
Timer for reversal of rotation direction	30 sec – 30 min

## Packages

There are four different packages for TWISTER: with one, two, three or four drives. Each package is fully functional. With add-on units, the number of stirring positions can be extended as required. Depending on the number of stirring positions used, the power supply may have to be adapted.



SCOPE OF DELIVERY	TWISTER Set 1 Ident No.: 0020027010	TWISTER Set 2 Ident No.: 0020027388	TWISTER Set 3 Ident No.: 0020027389	TWISTER Set 4 Ident No.: 0020027390	TWISTER Add-on unit Ident No.: 0020112621
TWISTER devices	1 piece	2 pieces	3 pieces	4 pieces	1 piece
IKAFLON 25 round Magnetic stirring bar	1 piece	2 pieces	3 pieces	4 pieces	no
<b>POWER SUPPLY</b>					
for up to 2 devices	yes	yes	no	no	no
for up to 4 devices TW.PWR.1 Ident No. 0025005565	no	no	yes	yes	no
for up to 30 devices TW.PWR.2 Ident No. 0020116436	no	no	yes	yes	no

## Accessories

### STIRRING



#### TW.IX

Multi-position stirring attachment. 9 stirring positions for vessels with volume 8 - 60 ml. Stirring position spacing: 30 mm. Max. ø vessels: 27.5 mm. Ident No.: 0020103426



#### TW.IX.23 | TW.IX.28

Vessel holder, for glasses: 23 mm | 28 mm. Ident No.: 0020112965. Ident No.: 0020112966



#### IKAFLON 10 | 15 | 25 power ellipse

Rare earth magnetic stirring bars for high viscosities. Quantity: 5 pieces. Dimensions: 10 x 6 | 15 x 10 | 25 x 14 mm. Ident No.: 0020110607. Ident No.: 0020110747. Ident No.: 0020110748

### SHAKING



#### TW.VX

Shaker attachment. Speed: up to 3000 rpm. Shaking stroke: 4.5 mm. Ident No.: 0020110145



#### STICKMAX II

Universal adhesive mat. Ident No.: 0020112736



#### MS 1.32

Test tube insert. Ident No.: 000L001850

#### MS 1.34

Test tube insert. Ident No.: 000L001830



#### MS 3.4

Microtiter attachment. Ident No.: 0003426400

#### MS 3.5

PCR plate attachment. Ident No.: 0003428000

### OTHER ACCESSORIES



#### TWISTER Add-on unit

Add-on unit, without power supply. Ident No.: 0020112621



#### TW.CABLE

Connection cable, length: 0.5 m. Ident No.: 0020025856