

# OHS Series

## Overhead Stirrers

Overhead stirrers providing powerful and precise mixing for various volumes and viscosities with analog or digital control.

**velp**<sup>®</sup>

Driven by curiosity



# OHS Advance

Overhead stirrers with 3.5" TFT display, method setting, precise torque measurement, temperature monitoring, vibration sensor, timer and Wi-Fi connection to address the most demanding applications.

## Unrivalled Safety

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent
- The vibration sensor guarantees maximum safety

## Superior Stirring Power

- Brushless motor ensures torque constant even at the highest speed
- SpeedServo™ technology keeps the speed constant, automatically adjusting to viscosity changes
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## Designed to Simplify your Work

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- All the important information are always at a glance and the knob and keys facilitate the use in any condition
- Temperature monitoring with included Pt 100 temperature probe

## Exclusive Technology

- Real time torque, speed and temperature graph monitoring
- Integral timer
- Programmable methods
- Remote control via Wi-Fi connection to Velp Ermes Cloud Platform



## Configurations



# OHS Digital

Digital Overhead Stirrers deliver up to 200 Ncm torque, ensuring excellent performance for a wide range of mixing and stirring tasks, from low to high viscosity samples.

All models are equipped with a powerful brushless motor for long-lasting reliability, the SmartChuck™ system for quick and easy tool changes without additional tools, and a complete set of integrated safety features to protect both the operator and the sample.

## Safe and Robust

- The sealed case protects the instruments from corrosion even in the most aggressive environments with an IP 54 protection rating
- The Lock Key prevents unintentional modifications of the work setting
- Full protection in case of overload, overtemperature and overcurrent

## Superior Stirring Power

- Brushless motor ensures torque constant even at the highest speed
- SpeedServo™ technology keeps the speed constant automatically adjusting to viscosity changes
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## Designed to Simplify your Work

- The OHS SmartChuck™ technology simplifies the shaft accommodation process that can be carried out even with one hand and does not require any tool, making your life easier
- Digital display for precise setting and monitoring
- Compact design and easy handling

## Premium Features

- Integral Timer for unattended operations
- Real time torque tendency LED indicator
- USB Interface



## Configurations



## Optional Accessories

Double clamp	<b>A00001301</b>
Ribbon clamp	<b>A00001302</b>
Probe extension cable, lenght 1 m	<b>A00000002</b>
Glass temperature probe	<b>A00000003</b>
Kit Pt100 probe XL for OHS	<b>TA00000394</b>
Support rod for probe	<b>A00000372</b>
Chuck guard OHS	<b>A00001312</b>
OHS/ControllerSoft	<b>A00000391</b>
IQ/OQ Manual OHS ADVANCE	<b>A00000380</b>
IQ/OQ Manual OHS DIGITAL	<b>A00000381</b>
Velp Ermes 1 Year Connection	<b>E00010012</b>
Velp Ermes 3 Years Connection	<b>E00010036</b>

## Instrument - Code

OHS 20 Digital	230 V / 50-60 Hz	<b>F20100494</b>
OHS 20 Digital	115 V / 60 Hz	<b>F20110494</b>
OHS 40 Digital	230 V / 50-60 Hz	<b>F20100493</b>
OHS 40 Digital	115 V / 60 Hz	<b>F20110493</b>
OHS 60 Digital	230 V / 50-60 Hz	<b>F20100492</b>
OHS 60 Digital	115 V / 60 Hz	<b>F20110492</b>
OHS 100 Digital	230 V / 50-60 Hz	<b>F20100491</b>
OHS 100 Digital	115 V / 60 Hz	<b>F20110491</b>
OHS 200 Digital	230 V / 50-60 Hz	<b>F20100490</b>
OHS 200 Digital	115 V / 60 Hz	<b>F20110490</b>
OHS 60 Advance	230 V / 50-60 Hz	<b>F20100482</b>
OHS 60 Advance	115 V / 60 Hz	<b>F20110482</b>
OHS 100 Advance	230 V / 50-60 Hz	<b>F20100481</b>
OHS 100 Advance	115 V / 60 Hz	<b>F20110481</b>
OHS 200 Advance	230 V / 50-60 Hz	<b>F20100480</b>
OHS 200 Advance	115 V / 60 Hz	<b>F20110480</b>

## H - Stand



**A00000366**  
Universal  
H-Stand

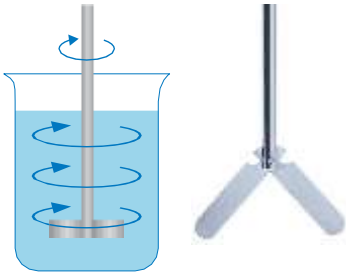


**A00000369**  
Telescopic  
H-Stand



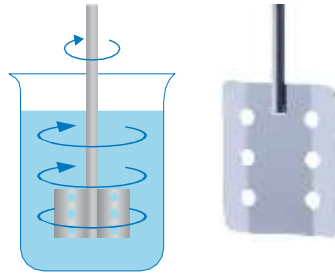
# Velp Stirring Shafts

**Stirring Shaft with Floating Blades**  
Code **A00001304**



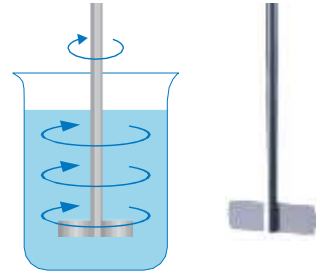
Viscosity range: VL - L  
Flow: Radial

**Stirring Shaft with 6-Hole Paddle**  
Code **A00001308**



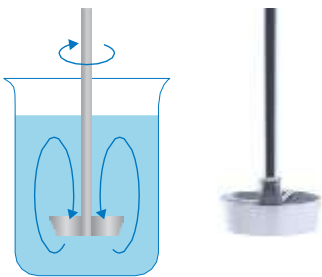
Viscosity range: L - M  
Flow: Tangential

**Stirring Shaft with Fixed Blade**  
Code **A00001306**



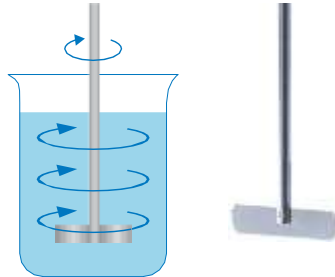
Viscosity range: VL - L - M  
Flow: Radial

**Stirring Shaft with Turbo Propeller**  
Code **A00001310**



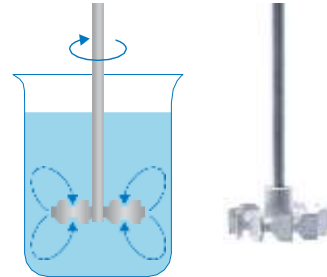
Viscosity range: M - H  
Flow: Axial

**Stirring Shaft with Folding Blade**  
Code **A00001305**



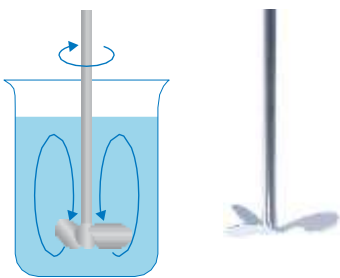
Viscosity range: VL - L  
Flow: Radial

**Stirring Shaft with Turbine**  
Code **A00001309**



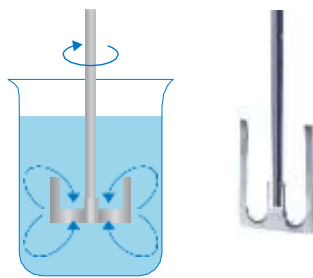
Viscosity range: M - H  
Flow: Radial

**Stirring Shaft with Propeller**  
Code **A00001307**



Viscosity range: VL - L - M  
Flow: Axial

**Stirring Shaft with Anchor**  
Code **A00001311**



Viscosity range: M - H  
Flow: Tangential

## Viscosity Range

Range	mPa*s
Very low (VL)	0 - 100
Low (L)	100 - 1,000
Medium (M)	1,000 - 10,000
High (H)	10,000-100,000

## Sample Viscosity

Sample	mPa*s	Sample	mPa*s
Water	1	Shampoo	3,000
Kerosene	10	Refined Honey	7,000
Lubricating Oil	100	Body Cream	8,000
Castrol Oil Glycerin	1,000	Honey	10,000
		Chocolate Syrup	25,000
		Ketchup	50,000
		Toothpaste	70,000
		Molasses, Asphalt	100,000

# Technical Data

	OHS 200 Advance	OHS 100 Advance	OHS 60 Advance	OHS 200 Digital	OHS 100 Digital	OHS 60 Digital	OHS 40 Digital	OHS 20 Digital
Display	Graphic TFT	Graphic TFT	Graphic TFT	LED	LED	LED	LED	LED
Display size	3.5"	3.5"	3.5"	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits
User interface	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Motor	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC	Brushless DC
Stirring volume (H2O)	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 25 L	Up to 25 L
Speed gears	2	1	1	2	1	1	1	1
Max torque (Ncm)	200	100	60	200	100	60	40	20
Stirring speed range	6-400 rpm 30-2000 rpm	30-1300 rpm	30-2000 rpm	6-400 rpm 30-2000 rpm	30-1300 rpm	30-2000 rpm	30-2000 rpm	30-2000 rpm
Speed setting resolution	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm	1 rpm
Speed control	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Max viscosity (mPa*s)	100.000	70.000	50.000	100.000	70.000	50.000	25.000	10.000
Torque compensation	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
Chuck range Ø	From 1 to 13mm	From 1 to 13mm	From 1 to 13mm	From 1 to 13mm	From 1 to 13mm	From 1 to 13mm	From 1 to 13mm	From 1 to 13mm
Shaft diameter pass-through	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm	Up to 8.5 mm
Safety vibration sensor	Yes	Yes	Yes	-	-	-	-	-
Timer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Methods	Yes	Yes	Yes	-	-	-	-	-
Lock of the instrument	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External probe connection	Pt 100 (included)	Pt 100 (included)	Pt 100 (included)	-	-	-	-	-
Temperature measuring range	-200 to 550 °C	-200 to 550 °C	-200 to 550 °C	-	-	-	-	-
Temperature resolution	0.1 °C	0.1 °C	0.1 °C	-	-	-	-	-
Interfaces	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi	USB	USB	USB	USB	USB
OHS/CONTROLLER Soft	Yes	Yes	Yes	-	-	-	-	-
Dimensions (WxHxD)	90x315x235mm 3.5x12.4x9.3in	90x285x235mm 3.5x11.2x9.3in	90x285x235mm 3.5x11.2x9.3in	90x315x235mm 3.5x12.4x9.3in	90x285x235mm 3.5x11.2x9.3in	90x285x235mm 3.5x11.2x9.3in	90x285x235mm 3.5x11.2x9.3in	90x285x235mm 3.5x11.2x9.3in
Weight	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,6 Kg 10,1 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb	4,1 Kg 9 lb
Protection class DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54

## Service & Support

Velp products are designed by our engineers to resist years of laboratory use.

Our products are manufactured with premium materials to guarantee the best performance with maximum safety.

According to our experience, a proper and regular maintenance is necessary to ensure the highest performance of analytical instrument. Velp Service Department and Velp Official Partners are always ready to offer you maintenance and service support tailored to your needs.

Get the support you need choosing the options:

- Help-desk and Remote support
- Technical Assistance
- Analytical Support

We reserve the right to make technical alterations  
We do not assume liability for errors in printing, typing or transmission



Velp Official Partner

