CHIMICA CENTRO
ADDED VALUE LAB SOLUTIONS

OHS Series

Overhead Stirrers

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

velp®

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 60 Advance
Pt 100 included

OHS 100 Advance
Pt 100 included

OHS 200 Advance
Pt 100 included

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

OHS 20 Digital

OHS 40 Digital

OHS 60 Digital

OHS 100 Digital

OHS 200 Digital

Optional Accessories

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

H - Stand

A00000366
Universal
H-Stand

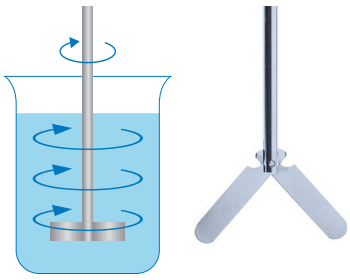
A00000369
Telescopic
H-Stand

Instrument - Code

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

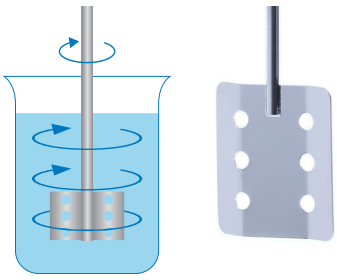
Velp Stirring Shafts

Stirring Shaft with Floating Blades
Code **A00001304**



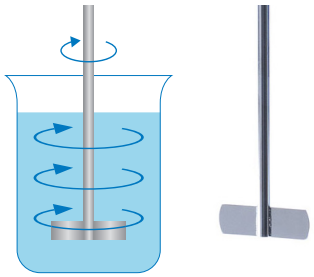
Viscosity range: VL - L
Flow: Radial

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



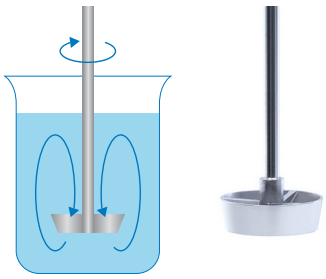
Viscosity range: L - M
Flow: Tangential

Stirring Shaft with Fixed Blade
Code **A00001306**



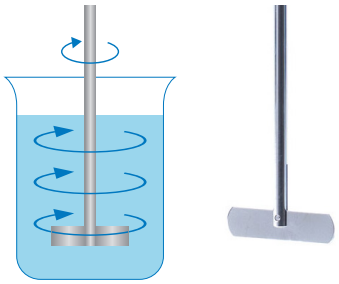
Viscosity range: VL - L - M
Flow: Radial

Stirring Shaft with Turbo Propeller
Code **A00001310**



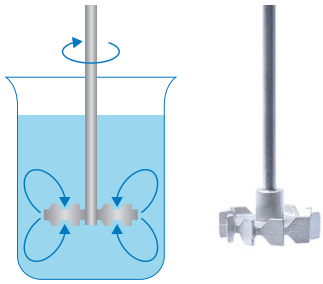
Viscosity range: M - H
Flow: Axial

Stirring Shaft with Folding Blade
Code **A00001305**



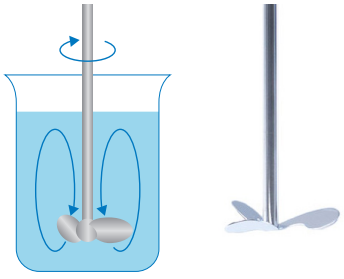
Viscosity range: VL - L
Flow: Radial

Stirring Shaft with Turbine
Code **A00001309**



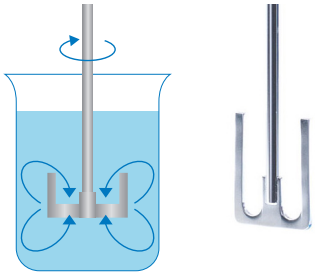
Viscosity range: M - H
Flow: Radial

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
Water	1
Kerosene	10
Lubricating Oil	100
Castrol Oil Glycerin	1,000
Shampoo	3,000
Refined Honey	7,000
Body Cream	8,000
Honey	10,000
Chocolate Syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molasess, 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 13 mm
Shaft diamater pass-throught	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 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x315x235mm 3.5x12.4x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 in
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
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