



# OHS Series

## Overhead Stirrers

Safer, Smarter, Stronger



# 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

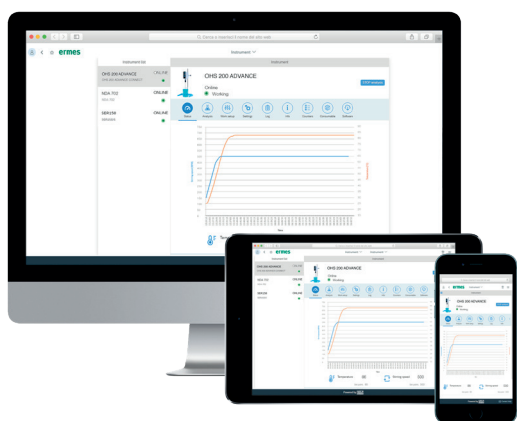
- Brushless motor and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 L volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## 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



### ermes enabled

- Monitor and control your reactions
- Enhanced service support
- Stirring speed setting
- Timer setting for unattended reactions
- Data logging and immediate notifications
- Software updates
- Data export in .xls, .csv, .pdf, LIMS etc.



Safety Lock

## CONFIGURATIONS



OHS 60 Advance  
Pt 100 included



OHS 100 Advance  
Pt 100 included



OHS 200 Advance  
Pt 100 included

# OHS Digital

Digital Overhead Stirrers with up to 200 Ncm torque to guarantee excellent performance for any task. All models features brushless motor, SmartChuck™ and full set of safety features.

## 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 and SpeedServo™ technology maintain torque constant at any speed
- Single and double speed gear models
- Up to 200 Ncm torque and 100 volume depending on the model
- Silent operation even at maximum speed (up to 2000 rpm)

## EASE OF USE

- 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



Safety Lock

## CONFIGURATIONS



OHS 20 Digital



OHS 40 Digital



OHS 60 Digital

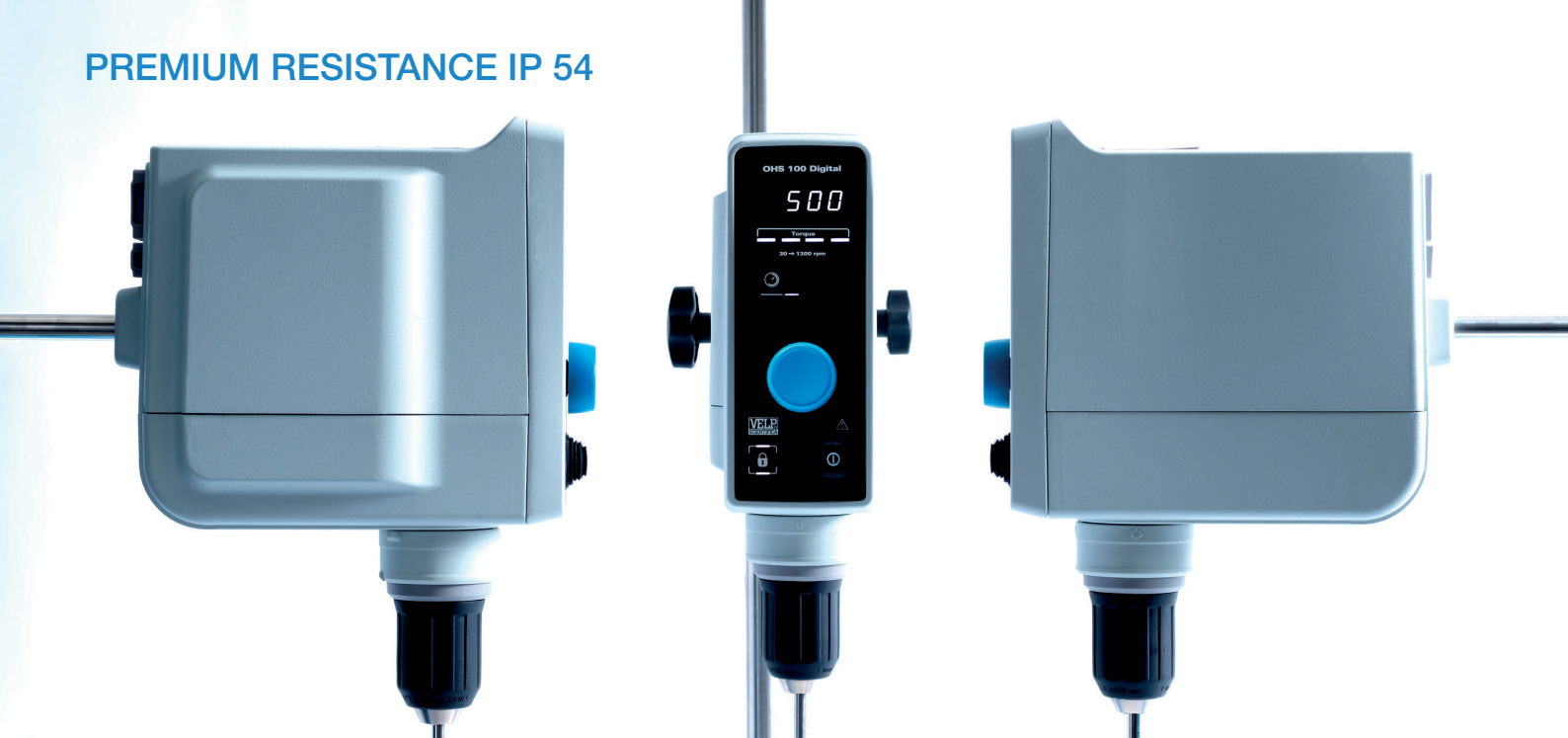


OHS 100 Digital

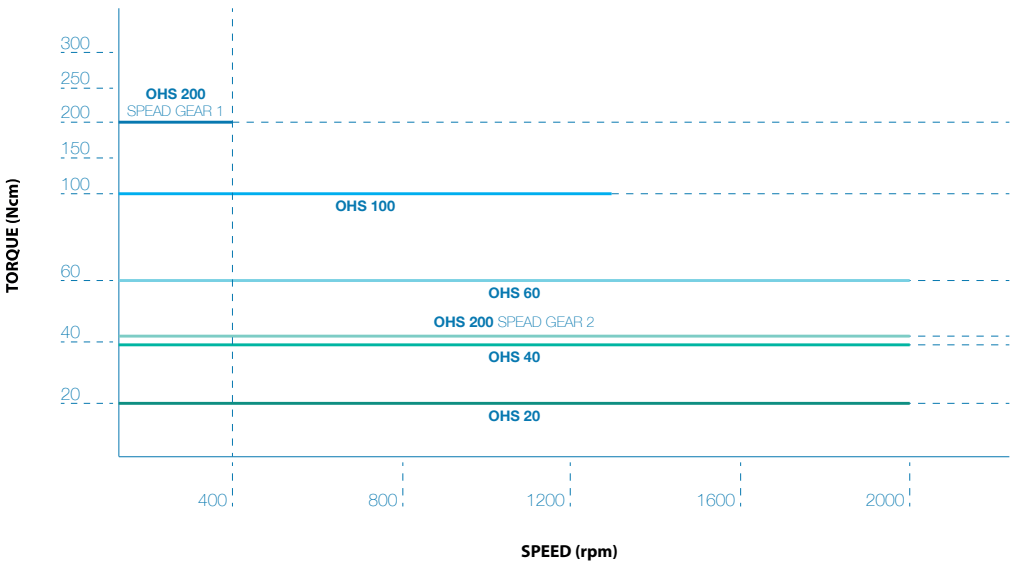


OHS 200 Digital

PREMIUM RESISTANCE IP 54



STABLE TORQUE AT ANY SPEED



SMARTCHUCK™



COMPACT, INTUITIVE AND EASY TO USE





## 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

## 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

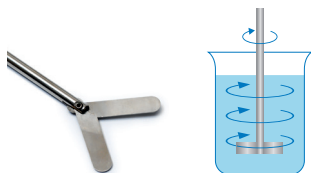
## H-STAND



## VELP Stirring Shafts

### ■ Stirring shaft with floating blades

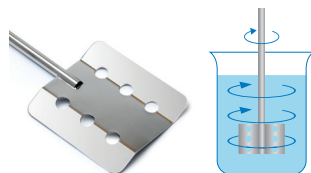
Code **A00001304**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with 6-hole paddle

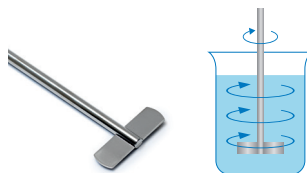
Code **A00001308**



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

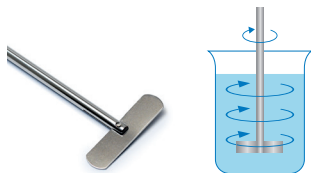
Code **A00001310**



Viscosity Range: M - H  
**Flow: Axial**

### ■ Stirring shaft with folding blade

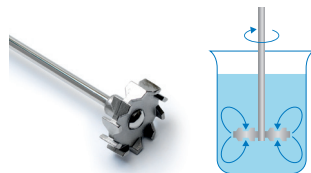
Code **A00001305**



Viscosity Range: VL - L  
**Flow: Radial**

### ■ Stirring shaft with turbine

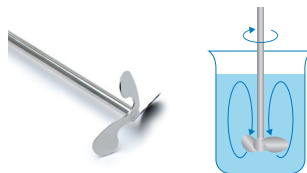
Code **A00001309**



Viscosity Range: M - H  
**Flow: Radial**

### ■ Stirring shaft with propeller

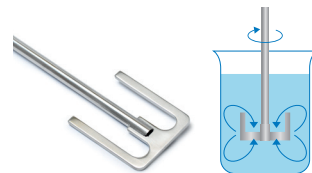
Code **A00001307**



Viscosity Range: VL - L - M  
**Flow: Axial**

### ■ Stirring shaft with anchor

Code **A00001311**



Viscosity Range: M - H  
**Flow: Tangential**

## VISCOSITY RANGE

Viscosity Range	
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

Choccolate syrup	25,000
Ketchup	50,000
Toothpaste	70,000
Molassess, Asphalt	100,000

# TECHNICAL DATA

	OHS 20 Digital	OHS 40 Digital	OHS 60 Digital	OHS 100 Digital	OHS 200 Digital	OHS 60 Advance	OHS 100 Advance	OHS 200 Advance
DISPLAY	LED	LED	LED	LED	LED	Graphic TFT	Graphic TFT	Graphic TFT
DISPLAY SIZE	7 Digits	7 Digits	7 Digits	7 Digits	7 Digits	3.5"	3.5"	3.5"
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 25 L	Up to 25 L	Up to 40 L	Up to 100 L	Up to 100 L	Up to 40 L	Up to 100 L	Up to 100 L
SPEED GEARS	1	1	1	1	2	1	1	2
MAX TORQUE (Ncm)	20	40	60	100	200	60	100	200
STIRRING SPEED RANGE	30-2000 rpm	30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm	30-2000 rpm	30-1300 rpm	6-400 rpm 30-2000 rpm
SPEED ACCURACY	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)	10.000	25.000	50.000	70.000	100.000	50.000	70.000	100.000
TORQUE COMPENSATION	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm	From 1 to 13 mm
SHAFT DIAMETER 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	USB	USB	USB	USB	USB / Wi-Fi	USB / Wi-Fi	USB / Wi-Fi
OHS/CONTROLLER SOFT	-	-	-	-	-	Yes	Yes	Yes
DIMENSIONS (WxHxD)	90x285x235mm 3.5x11.2x9.3 in	90x285x235mm 3.5x11.2x9.3 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	90x315x235mm 3.5x12.4x9.3 in
WEIGHT	4,1 Kg 9 lb	4,1 Kg 9 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	4,6 Kg 10,1 lb
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54



## SERVICE & SUPPORT

GET THE SUPPORT YOU NEED CHOOSING THE OPTIONS:

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



VELP Scientifica 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.



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