OHS S Digital

Strong performance, small footprint. OHS S Digital overhead stirrers combine a powerful brushless DC motor with an ultra-compact, lightweight design, starting from just 1.5 kg. They are built for laboratories where the stirrer is frequently moved, repositioned or shared across workstations.

The series covers everything from routine light-duty stirring to large volumes and high-viscosity samples, with up to 150 Ncm torque, 80 L capacity and 80,000 mPa·s.

Compact Design

- Ultra-compact footprint, from just 65 mm wide, to save valuable bench space
- Lightweight construction: only 1.5 kg (OHS 20S Digital) and 2.5 kg (OHS 150S Digital)
- Easy to move and reposition with one hand, ideal for shared workstations

Powerful Performance

- Up to 80 L (H_2O) and 80,000 mPa·s, depending on the model
- Dual speed range on OHS 150S: maximum torque at low speed, up to 2,000 rpm for fast mixing
- Brushless DC motor with SpeedServo™ technology to keep speed constant as viscosity changes

Set Up in Seconds

- SmartChuck™ technology for quick, tool-free shaft changes, even with one hand
- Shaft pass-through design to adjust impeller height without moving the stirrer
- Intuitive interface with timer and audio feedback to confirm settings

The Smart Choice

- OHS 20S Digital for everyday stirring, OHS 150S Digital for demanding tasks
- IP 64 sealed case and full protection against overload, overtemperature and overcurrent
- Real-time torque tendency indicator RS232 port for real-time monitoring and data logging with ControllerSoft™

Models

OHS 20S Digital

OHS 150S Digital

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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
Protective Cover SmartChuck	A00000604
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

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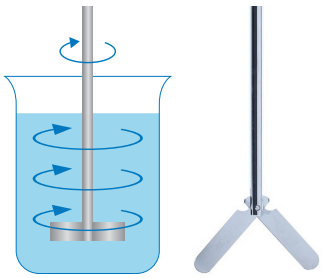
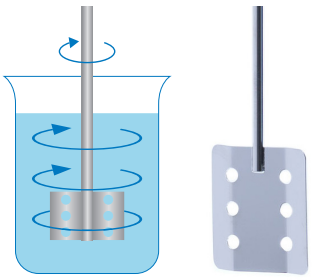
Velp Stirring Shafts

Stirring Shaft with Floating Blades
Code **A00001304**



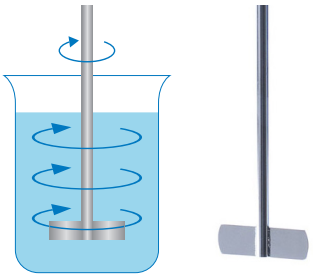
Viscosity range: VL - L
Flow: Radial

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



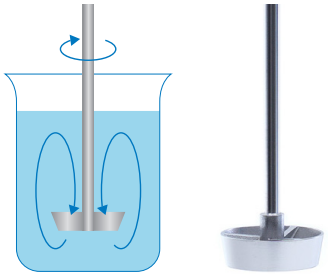
Viscosity range: L - M
Flow: Tangential

Stirring Shaft with Fixed Blade
Code **A00001306**



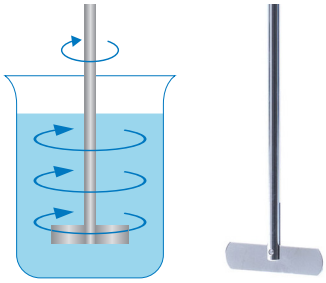
Viscosity range: VL - L - M
Flow: Radial

Stirring Shaft with Turbo Propeller
Code **A00001310**



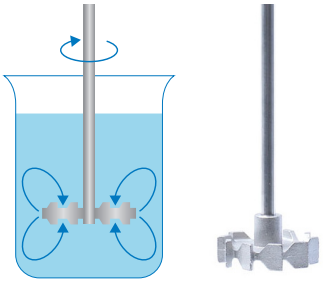
Viscosity range: M - H
Flow: Axial

Stirring Shaft with Folding Blade
Code **A00001305**



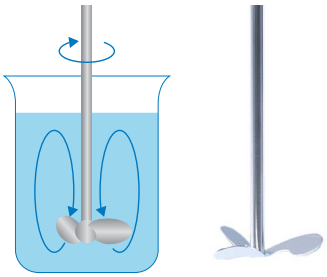
Viscosity range: VL - L
Flow: Radial

Stirring Shaft with Turbine
Code **A00001309**



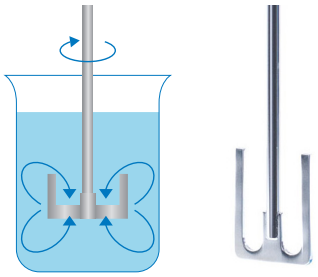
Viscosity range: M - H
Flow: Radial

Stirring Shaft with Propeller
Code **A00001307**



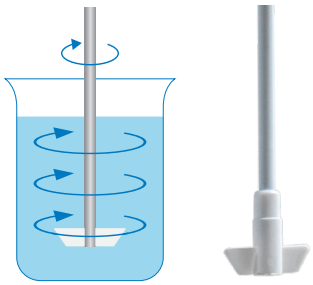
Viscosity range: VL - L - M
Flow: Axial

Stirring Shaft with Anchor
Code **A00001311**



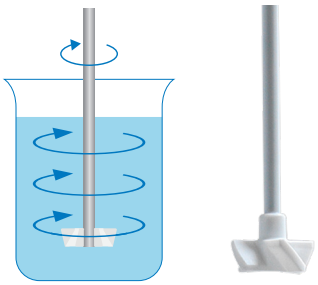
Viscosity range: M - H
Flow: Tangential

PTFE Shaft with Centrifugal
Code **A00000567**



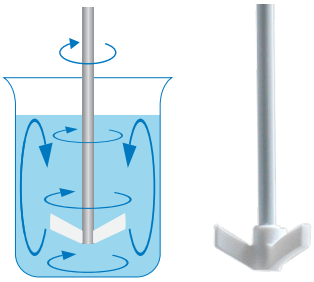
Viscosity range: L - M
Flow: Axial

PTFE Shaft with Screw Propel
Code **A00000569**



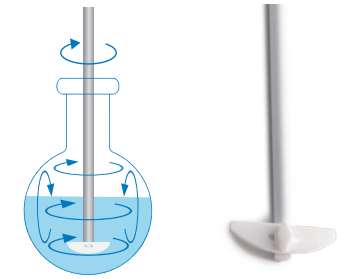
Viscosity range: M - H
Flow: Axial

PTFE Shaft with Retrat Curv
Code **A00000568**



Viscosity range: M - H
Flow: Axial - Radial

PTFE Shaft with Half Moon
Code **A00000597**



Viscosity range: VL - L
Flow: Axial - Radial

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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

CHIMICA CENTRO
ADDED VALUE LAB SOLUTIONS

	OHS 150S Digital	OHS 20S Digital
Display	LCD	
Display size	2"	
User interface	Digital	
Motor	Brushless DC	
Stirring volume (H2O)	Up to 80 L	Up to 20 L
Speed gears	2	1
Max torque (Ncm)	150	20*
Stirring speed range	10-400 50-2000 rpm	50–2,000 rpm
Speed setting resolution	1 rpm	
Speed control	Digital	
Max viscosity (mPa*s)	80.000	10.000
Torque compensation	SpeedServo™	
Chuck range Ø	From 2 to 13mm	
Shaft diamater pass-throught	Up to 8.5 mm	
Safety vibration sensor	-	
Timer	Yes	
Methods	-	
Lock of the instrument	-	
External probe connection	-	
Temperature measuring range	-	
Temperature resolution	-	
Interfaces	RS232	
Ermes Cloud Platform	-	
ControllerSoft™	Yes	
Dimensions (WxHxD)	79 x 237 x 167 mm	65 x 201 x 135 mm
Weight	2,5 Kg	1,5 Kg
Protection class DIN EN 60529	IP 64	

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