

The Best-In-Class Stirring Power

- Digital interfaces to precisely set and monitor the working parameters
- Leading Safety Standard (IP54 certified)
- **Extremely Stable Stirring Speed available with single or double speed gear**
- ▶ New SmartChuck[™] for one-hand shaft accommodation without tools
- USB and Wi-Fi connection through VELP Ermes to monitor the instrument 24/7
- Real Time Torque Monitor for total control of your reactions
- Brushless motor for heavy-duty continuous operations
- Key lock function to prevent unintentional changes in working conditions
- SpeedServo[™] torque compensation maintains rpm constant





www.velp.com

Premium Technology and Durability

VELP takes Overhead Stirrer to the next level with the new OHS Series:

OHS DIGITAL OHS ADVANCE

- Digital Display for precise setting and monitoring
- Timer for unattended operations
- Real Time Torque Tendencies indication
- Easy knob to navigate the menu and start/stop operations
- Brushless motor to ensure high efficiency and low maintenance
- SmartChuck[™] system to change the shaft without any tool and with one hand only
- USB interface to document the processes
- Key lock function to avoid unintended parameters changes

- TFT 3.5" Display encompassing a great set of information about the working conditions
- Timer for unattended operations
- Easy knob to navigate the menu and start/stop operations
- SmartChuck[™] system to change the shaft without any tool and with one hand only
- Wi-Fi connection to VELP Ermes platform to monitor and control the instrument on cloud
- Key lock function to avoid unintended parameters changes
- Real Time Torque and Speed Graph Monitoring
- Probe connection for accurate Temperature control
- Programmable methods to set up to 4 Time/speed ramps
- State-of-the-art vibration sensor

TECHNICAL SPECIFICATIONS

	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 VOL (H ₂ O)	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 COMPENS.	SpeedServo ™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™	SpeedServo™
CHUCK RANGE Ø	Up to 13 mm	Up to 13 mm	Up to 13 mm	Up to 13 mm	Up to 13 mm			
SAFETY VIBR. SENS	-	-	-	-	-	Yes	Yes	Yes
TIMER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EXTERNAL PROBE CONNECTION	-	-	-	-	-	Pt 100	Pt 100	Pt 100
TEMPERATURE MEASURING RANGE	-	-	-	-	-	-10 to 350 °C	-10 to 350 °C	-10 to 350 °C
TEMPERATURE RES.	-	-	-	-	-	0.1 °C	0.1 °C	0.1 °C
INTERFACES	USB	USB	USB	USB	USB	USB / WiFi	USB / WiFi	USB / WiFi
DIMENSIONS (WxHxD)	90x285x235	90x285x235	90x285x235	90x285x235	90x315x235	90x285x235	90x285x235	90x315x235
WEIGHT (Kg)	4,1	4,1	4,1	4,1	4,6	4,1	4,1	4,6
PROTECTION CLASS DIN EN 60529	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54







VELP Scientifica srl Via Stazione 16, 20865 Usmate (MB), Italy Tel +39 039 628811 Fax +39 039 6288120 velpitalia@velp.com www.velp.com Rev 0.9 12.2018

VELP Scientific, Inc. 155 Keyland Court, Bohemia NY 11716 – U.S. Tel +1 631 573 6002 Fax +1 631 573 6003 velpusa@velp.com www.velp.com

STIRRING SHAFTS

	Stirring shaft with floating bladesCode No A00001304Characteristics:The two blades that open as the speed rises generate an axial flow in the container, from the top towards the bottom. Particularly recommended for stirring in narrow-neck containers, e.g. flasks.				Stirring shaft with 6-hole paddle Code No A00001308 Characteristics: It generates a tangential flow with reduced turbulence and with gentle mixing of the product.						
			7								
	Stirring shaft with folding blade	С	ode No A0000	1305	Stirring shaft	with turbine bla	de		Code	No A00001309	
	Characteristics: The blade that automatically falls into line during rotation generates an axial flow in the container, from the top towards the bottom. Particularly recommended for stirring in narrow-neck				Characteristics: It generates a radial flow with suction of the product from the top towards the bottom, with high turbulence and high shearing forces.						
	containers.										
				1						G	
	Stirring shaft with fixed blade	С	ode No A0000	1306	Stirring shaft	with turbo prop	eller		Code	No A00001310	
	Characteristics: It generates an axia	I flow in the	container. from the		Characteristic	:s: It generates a	n axial :	flow in t	he conta	ainer with	
	top towards the bottom. Employment	t: Use at me	dium-high spee	ed for	suction of the substance from the top towards the bottom with low						
	whirling light solids, for flocculations, mixing thickening age				shearing forces. Limited danger of any contact of the blade with the						
	sludge, etc.				walls of the product's container.						
			0							and the second s	
	Stiming shoft with propellar Code No 40001207				Stirring shaft	with anchor			Code	No 400001311	
	Characteristics: Standard stirring sh	oft It gonorg	tos an axial flou	v in	Characteristics: It generates a tangential flow with bigh shearing						
	the container with suction of the substance from the bottom towards				forces on the ends. The flow generated limits the possibility of						
	the top and localized occurrence of shearing forces.				sedimentation on the walls of the container.						
	(i)			BLADES	BLADES	SHAFT	LENGH	T OF S	PEED	VISCOSITY	
	DESCRIPTION		CODE No	NUMBEI	R Ømm	Ømm	SHAFT	mm F	ANGE	RANGE	
	Stirring shaft with floating blades, stainless	s steel	A00001304	2	93	7	400	Ν	Л-Н	VL-L	
	Stirring shaft with folding blade, stainless	steel	A00001305	1	60	7	400	Ν	Л-Н	VL-L	
	Stirring shaft with fixed blade, stainless ste	eel	A00001306	1	50	7	400	N	Л-Н	VL-L-M	
	Stirring shaft with propeller, stainless steel		A00001307	3	60	7	400	N	л-н	VL-L-M	
	Stirring shaft with paddle,six holes, stainle	ss steel	A00001308	1	69	7	450	L	-M	L-M	
	Stirring shaft with turbine, stainless steel		A00001309	10	49	7	450	N	л-н	M-H	
	Stirring shaft with anchor, stainless	SISTEEL	A00001310	3	40	7	450	N	/I-H M		
	Stiming shart with anonol, stainless steel		A00001311	2	40	1	400	L	-171		
	Choosing the correct shaft Stirring shafts must be chosen bearing in mind the stirrer power, the volume of substances to be stirred and its viscosity. The technical features and the appli- cation fields of the stirring shafts are summarized in the following		rpm		VISCOSITY		١	VISCOSITY mPa*s S			
					RANGE	mPa*s				SUBSTANCE	
			- 050		Ven/ low (VL)	0 - 100		4 147		or	
			< 250 M) 250 - 800 > 800			100 - 1.000		u Wa			
					Medium (M) 1.000 – 10.000			0	Ker	osene	
					High (H)	10,000 - 100,000		100Lubricatin1,000Castor oil,		ricating oil	
					5 ()					tor oil, Glicerine	
	tables:						7	7,000	Ref	ined honey	

25,000

50,000

100,000

Chocolate syrup

Ketchup

Molasses