

# OVERHEAD STIRRERS

3



WARRANTY  
**2**  
YEARS

**ARGO LAB**



# AM 20-D

## OVERHEAD STIRRER

Speed range: 50 ... 2200 rpm  
Volume: 20 L (H<sub>2</sub>O)



- Speed indication;
- Accurate control of stirring speed;
- Adjustable safety circuit that automatically stops the motor in case of overheating to ensure extreme safety.

# AM 50-D PRO

## OVERHEAD STIRRER

Speed range: 50 ... 2200 rpm  
Volume: 50 L (H<sub>2</sub>O)



- Speed and torque indication;
- Timer and Buzzer function (end of cycle);
- Forward, reverse rotation; intermittent mixing;
- Effort control with automatic speed adjustment; protection system in case of excessive effort and overload;
- Safety circuit (motor overheating lock);
- Temperature probe for real-time monitoring of the sample.

## STIRRING ROD

### TYPE 1

STEEL

TFE



#### Floating blades

The blades open as speed increases, generating downward axial flow.

**Application:** narrow-necked containers, e.g. flasks.

### TYPE 2

STEEL

TFE



#### Fixed blade

Downward axial flow.

**Application:** Use at medium to high speeds for swirling light solids, flocculations, mixing thickening agents, slurries, etc.

### TYPE 3

STEEL

TFE



#### Helix

Axial flow with upward suction and localized appearance of shear forces.

**Application:** Use at medium to high speeds for swirling light solids, flocculations, mixing thickening agents, slurries, etc.

# ACCESSORIES

ACCESSORIES ARE COMPATIBLE  
WITH BOTH MODELS



## UNIVERSAL HOLDER

Supplied with fixing clamp.  
Painted cast iron base and stainless steel rod.  
Thanks to the special shape and robustness, it avoids the need for counterweights.

Base mm 200 x 315, rod length mm 800 and diameter mm 18, weight kg 5.

p/n: 22005153



## FIXING CLAMP

p/n: 22005413



## BECKER SUPPORT

Strip system for attaching the vessel to the universal holder.  
Maximum diameter approx. 30 cm.  
Supplied complete with fixing clamp.

p/n: 22005423



## REPLACEMENT SPINDLE

Through-rod spindle.  
Quick and manual opening and clamping no tools required

p/n: 22005403



To select the right rod check for these parameters:  
• **Stirrer poer** • **Sample volume** • **Sample viscosity**

### TYPE 4

STEEL

TFE



#### 3-hole blade

Tangential flow with reduced turbulence and gentle product mixing.

**Application:** Use at medium-low speed where good heat exchange of products to be mixed is needed.

### TYPE 5

STEEL



#### Anchro blade

Tangential flow with high shear to external parts. It limits deposition of solids against container walls.

**Application:** low and medium speed homogenization of high solids in viscous liquids.

### TYPE 6

STEEL



#### Cogwheel loader

Rotary flow, effective in mixing very dense or viscous liquids.

Due to its teeth, it can fragment granular sediments.



## DATA SHEET

### AM 20 D

### AM 50 D PRO

Max amount in agitation (H2O)	<b>20 L</b>	<b>50 L</b>
Torque indication and control	-	Yes
Motor input / output power	60 W / 50 W	120 W / 100 W
Timer function	-	1 min ... 99 h:59 min
Stirring speed	50... 2200 rpm	50... 2200 rpm
Stirring mode	Forward	Forward / Reverse/ Intermittent
Speed indication	LED Display	LCD Display
Connectivity	-	RS485, Type C, USB
Max torque	40 N*cm	60 N*cm
External temp. probe	-	0...100°C - PT1000 (on request)
Overload protection	LED alarm, auto-stop	LED alarm, auto-stop
Engine protection	-	LED alarm, auto-stop
Max viscosity [ mPas ]	10.000 mPa.s(*)	50.000 mPa.s(*)
Spindle opening	0,5... 10 mm	0,5... 10 mm
Dimensions (W X H x D)	83 x 220 x 186 mm	101 x 270 x 264 mm
Weight	2,4 kg	5,2 kg
Power supply	220V - 50/60Hz	220V - 50/60Hz
Power consumption	70 W	130 W
IP protection	IP 21	IP 21
Operating temperature	5... 40 °C	5... 40 °C
Max operating humidity	80 %	80 %
<b>Part number</b>	<b>22005013</b>	<b>22005053</b>



Upper passage hole for agitation

Description	Material	P/N	Rod dimensions			N° of blade	Speed interval	Viscosity
			Length mm	Blade size mm	Ø mm			
<b>Type 1</b> floating loaders	Steel	<b>22005193</b>	400	90	8	2	M-H	LL-L
	TFE	<b>22005333</b>	350	89	8			
<b>Type 2</b> fixed loaders	Steel	<b>22005173</b>	400	60	8	1	M-H	LL-L-M
	TFE	<b>22005313</b>	350	70	8			
<b>Type 3</b> propeller loader	Steel	<b>22005163</b>	400	50	8	4	M-H	LL-L-M
	TFE	<b>22005303</b>	350	65	8			
<b>Type 4</b> 3 hole loader	Steel	<b>22005183</b>	400	68	8	1	L-M	L-M
	TFE	<b>22005323</b>	350	68	8			
<b>Type 5</b> anchor loader	Steel	<b>22005203</b>	605	100	8	1	L - M	M - H
<b>Type 6</b> cogwheel loader	Steel	<b>22005213</b>	605	100	8	1	M - H	M - H

Viscosity	Sample
1	Water
5	Milk
10	Kerosene
100	Engine oil
1000	Castor Oil, Glycerin
7000	Refined honey
25000	Chocolate syrup
50000	Ketchup
100000	Molasses

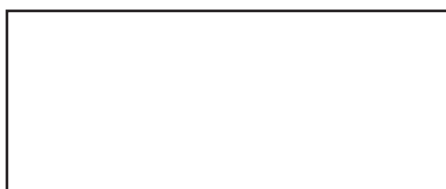
Speed range rpm	
Low (L)	<250
Medium (M)	250-800
High (A)	>800

Viscosity range mPa·s	
Very Low (LL)	0-100
Low (L)	100-1000
Medium (M)	1000-10000
High (H)	10000-100000

Approximate viscosity values of different substances, expressed in centipoise (mPa·s) at 20°C



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