

# Hermann

Laboratory Products



*Your professional manufacturing supplier  
of Laboratory Products*



- MAGNETIC HOTPLATE STIRRERS
- OVERHEAD STIRRERS
- VORTEX MIXERS
- ROTATORS
- TUBE ROLLER
- SHAKERS
- HOMOGENIZERS

### » Overhead Stirrers | LCD Digital

Hermann Overhead Stirrers are widely used in chemical synthesis, pharmaceutical, and petrochemical industries. High safety and increased performance to accomplish the most demanding tasks.

Los agitadores de hélice Hermann son ampliamente utilizados en síntesis química, farmacéutica e industrias petroquímicas, entre otras. Alta seguridad y mayor rendimiento para realizar las tareas más exigentes.

## HOS-IA40-PRO HOS-IA80-PRO

### LCD Digital Overhead Stirrer

#### Performance Highlights

- High reliability and outstanding performance
- LCD display for precise monitoring of set and actual speeds, a wide range of speed from 50 to 2200rpm with control accuracy of  $\pm 3$  rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- Torque trend display for real-time information on viscosity changes
- Safety circuits allow for safe stop function in anti-stall or overload conditions
- Smooth operation prevents accidental spillage and splashing
- Provides a constant speed even with changes in viscosities of the sample

#### Características Destacadas

- Alta fiabilidad y excelente rendimiento
- Pantalla LCD para un control preciso de velocidades establecidas y reales, rango de velocidad de 50 a 2200 rpm con precisión de control de  $\pm 3$  rpm
- Motor DC sin escobillas sin mantenimiento y a prueba de explosiones
- Visualización de tendencias de torsión para obtener información en tiempo real sobre los cambios de viscosidad
- Los circuitos de seguridad permiten una función de detención segura en condiciones de bloqueo o sobrecarga
- Un funcionamiento suave evita derrames y salpicaduras accidentales
- Proporciona una velocidad constante incluso con cambios en las viscosidades de la muestra



LCD display



Torque display



Speed adjusting with viscosity changing



Wide range of accessory

Specifications	HOS-IA40-PRO	HOS-IA80-PRO
Data Connector	RS232	RS232
Max. stirring quantity, [H <sub>2</sub> O]	20L	40L
Motor type	brushless DC motor	brushless DC motor
Motor input power	60W	120W
Motor output power	50W	100W
Voltage	100~220V, 50/60 Hz	100~220V, 50/60 Hz
Power	70W	130W
Speed range	50~2200rpm	50~2200rpm
Speed Display accuracy	$\pm 3$ rpm	$\pm 3$ rpm
Speed display	LCD	LCD
Torque display	LCD	LCD
Overload protection display	LED lights	LED lights
Max. Torque	40Ncm	60Ncm
Viscosity Max.	10000mPas	50000mPas
Chuck range diameter	0.5~10mm	0.5~10mm
Dimension [W x D x H]	83 x 220 x 186mm	83 x 220 x 186mm
Weight	2.8kg	2.8kg
Protection class	IP21	IP21
Temperature and humidity Permissible ambient	5~40°C, 80%	5~40°C, 80%

### » Overhead Stirrers | LED

## HOS-IA40-A LED Overhead Stirrer

### Performance Highlights

- High reliability and outstanding performance
- A wide range of speed from 50 to 2200rpm
- Brushless DC motor for long life, maintenance free and explosion proof
- LED display for precise monitoring of actual speed
- Safety circuits allow for safe stop function in anti-stall or overload conditions

### Características Destacadas

- Alta fiabilidad y excelente rendimiento
- Amplio rango de velocidad de 50 a 2200 rpm
- Motor DC sin escobillas, sin mantenimiento y a prueba de explosiones
- Pantalla LED para un control preciso de la velocidad real
- Los circuitos de seguridad permiten una función de detención segura en condiciones de bloqueo o sobrecarga



Explosion-proof



accessories



Specifications	HOS-IA40-A
Max. stirring quantity, [H <sub>2</sub> O]	20L
Motor type	brushless DC motor
Motor input power	60W
Motor output power	50W
Voltage	100~220V, 50/60 Hz
Power	70W
Speed range	50~2200rpm
Speed Display accuracy	±3rpm
Speed display	LED
Overload protection display	LED lights
Max. Torque	40Ncm
Viscosity Max.	10000mPas
Chuck range diameter	0.5~10mm
Dimension [W x D x H]	83 x 220 x 186mm
Weight	2.8kg
Protection class	IP42
Temperature and humidity Permissible ambient	5~40 °C, 80%

### » Overhead Stirrers | Accessories

#### 1 Universal plate stand

**HUS.131**  
Dimension (W x D x H):  
200 x 310 x 780mm  
Material: stainless steel



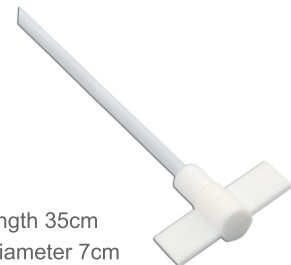
#### 2 Paddle stirrer

shaft length 40cm  
stirrer diameter 6.8cm  
**Material: 316L stainless steel**  
**Application:** Suitable for samples needed gentle processing at low and medium speeds



#### 3 Straight stirrer

**HAR.76**  
shaft length 35cm  
stirrer diameter 7cm  
**Material: PTFE coated**  
**Application:** Ideal for the mixing of low viscosity media at medium and high speeds



#### 4 Propeller stirrer

Shaft length 400mm  
stirrer diameter 50mm  
Material: 316L stainless steel  
**Application:** Standard stirring element used at medium and high speeds



#### 5 Centrifugal stirrer

Shaft length 40cm  
stirrer diameter 9cm  
Material: 316L stainless steel  
**Application:** Two-bladed stirrer who's blades open with increasing speed. perfect for stirring in round vessels with narrow necks. Medium to high speeds required.



#### 6 Paddle stirrer

**HAP.77**  
shaft length 35cm  
stirrer diameter 6.8cm  
Material: PTFE coated  
**Application:** Suitable for samples needed gentle processing at low and medium speeds



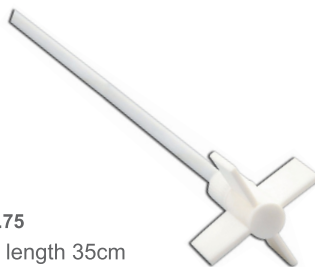
#### 7 Straight stirrer

shaft length 40cm  
stirrer diameter 6cm  
Material: 316L stainless steel  
**Application:** Ideal for the mixing of low viscosity media at medium and high speeds



#### 8 Propeller stirrer

**HAC.75**  
shaft length 35cm  
stirrer diameter 6.5cm  
Material: PTFE coated  
**Application:** Standard stirring element, used at medium and high speeds



#### 9 Centrifugal stirrer

**HAC.78**  
Shaft length 35cm  
stirrer diameter 8.5cm  
Material: PTFE coated  
**Application:** Two-bladed stirrer who's blades open with increasing speed. perfect for stirring in round vessels with narrow necks. Medium to high speeds required



# Hermann



*Your professional manufacturing supplier  
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