

Configuration tool Heidolph stirring system

For each impeller the optimal laboratory vessel – for best mixing results

LABORATORY VESSEL			
Ø vessel (mm)	Ideal ground clearance (mm)	Ideal height (mm)	Ideal volume (ml)
100	5	100	800
100	5	100	800
120	6	120	1,400
140	7	140	2,200
180	9	180	4,600
145 – 290	29 – 58	145 – 290	2,400 – 19,200
83 – 165	17 – 33	83 – 165	400 – 3,500
113 – 225	23 – 45	113 – 225	1,100 – 8,900
165 – 330	33 – 66	165 – 330	3,500 – 28,200
188 – 375	38 – 75	188 – 375	5,200 – 41,400
80 – 140	14 – 28	80 – 140	400 – 2,200
143 – 250	25 – 50	143 – 250	2,300 – 12,300
130	7	130	1,700
67	2	67	200
100 – 150	18	100 – 150	800 – 2,700
133 – 200	24	133 – 200	1,900 – 6,300
200 – 300	36	200 – 300	6,300 – 21,200

IMPELLER			
Stirring tool	Ø stirrer shaft (mm)	Ø agitator (mm)	
BLADE IMPELLERS 	BR 10	8	50 ¹
	BR 11	8	50 ¹
	BR 12	8	60 ¹
	BR 13	8	70 ¹
	BR 14	8	90 ¹
PITCHED-BLADE AND RINGED IMPELLERS 	PR 30	8	58 ¹
	PR 31	8	33 ¹
	PR 32	8	45 ¹
	PR 33	8	66 ¹
	PR 39	8	75 ²
RADIAL-FLOW IMPELLERS 	TR 20	8	28 ¹
	TR 21	8	50 ¹
HALF-MOON/ ANCHOR-TYPE IMPELLERS 	HR 18	8	65 ²
	AR 19	8	60 ²
VISCO JET® 	VJ 60	10	60 ¹
	VJ 80 VJ 80 Crack	10 10	80 ^{1, 3} 80 ¹
	VJ 120 VJ 120 Crack	10 10	120 ^{1, 3} 120 ¹

Only a perfect designed stirring system enables a homogeneously mixed product.

Not only the performance of the device, but also application parameters like the viscosity of the product, the volume to be mixed and the vessel used play a decisive role in the selection of the perfect system: an overhead stirrer together with an impeller.

[Find here the perfect stirring tool for your viscosity-volume range.](#)

STIRRER SHAFT

10.5 mm

OVERHEAD STIRRERS

Hei-TORQUE Core

Hei-TORQUE Value 100
Hei-TORQUE Precision 100

Hei-TORQUE Value 200
Hei-TORQUE Precision 200

Hei-TORQUE Value 400
Hei-TORQUE Precision 400

ACCESSORIES




Flexible Shaft
incl. chuck

Stirrer guide
Ground PTFE core; suitable for vacuum, perfect guide for stainless steel and glass stirrer shafts

Flex Coupling
with clamping spigot

8 mm

10 mm

Source: Data based on internal reference.

¹ Stainless steel (V4A) ² PTFE ³ POM

Hei-TORQUE overhead stirrers – perfect mixing for any application

The perfect stirring tool for your individual viscosity-volume range

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VISCOSITY	60 – 100 mPas (vegetal oil)											
VOLUME	25 l					5.5 l						
Stirring tool	PR 30	PR 33	PR 39	VJ 120	VJ 120 Crack	BR 14	PR 30	PR 32	PR 33	PR 39	VJ 80	VJ 80 Crack
Overhead Stirrers												
Hei-TORQUE Value 100 Hei-TORQUE Precision 100	✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Hei-TORQUE Core	✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓

VISCOSITY	1,500 mPas (glycerin)																
VOLUME	5.5 l							2.0 l						0.8 l			
Stirring tool	BR 14	PR 30	PR 32	PR 33	PR 39	VJ 80	VJ 80 Crack	BR 12	BR 13	PR 30	PR 31	PR 32	VJ 60	BR 10	BR 11	PR 31	VJ 60
Overhead stirrer																	
Hei-TORQUE Value 100 Hei-TORQUE Precision 100	✓	✓✓	✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Hei-TORQUE Core	✓	✓✓	✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓

VISCOSITY	3,000 mPas (silicon oil)									
VOLUME	5.5 l				2.0 l				0.8 l	
Stirring tool	PR 30	PR 39	VJ 80	VJ 80 Crack	BR 13	PR 30	PR 39	VJ 60	VJ 60	
Overhead stirrer										
Hei-TORQUE Value 100 Hei-TORQUE Precision 100	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	
Hei-TORQUE Core	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	

VISCOSITY	10,000 mPas (silicon oil)										
VOLUME	5.5 l				2.0 l						0.8 l
Stirring tool	PR 30	PR 39	VJ 80	VJ 80 Crack	BR 13	PR 30	PR 39	VJ 60	VJ 80	VJ 80 Crack	VJ 60
Overhead stirrer											
Hei-TORQUE Value 100 Hei-TORQUE Precision 100	✓✓	✓✓✓	✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓
Hei-TORQUE Core	✓	✓✓✓	✓	✓	✓	✓✓✓	✓✓✓	✓✓✓	✓	✓✓	✓✓✓

Suitability of the stirring tool (tested):

- ✓✓✓ very good
- ✓✓ good
- ✓ acceptable

Source: Internal application tests