Configuration tool Heidolph stirring system

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

LABORATORY VESSEL				IMPELLER			
Ø vessel (mm)	Ideal ground clearance (mm)	Ideal height (mm)	Ideal volume (ml)	Stirring tool		Ø stirrer shaft (mm)	Ø agitator (mm)
100	5	100	800	BLADE IMPELLERS	BR 10	8	50[1]
100	5	100	800		BR 11	8	50[1]
120	6	120	1,400		BR 12	8	60[1]
140	7	140	2,200		BR 13	8	70[1]
180	9	180	4,600		BR 14	8	90[1]
145–290	29–58	145–290	2,400 –19,200	PITCHED-BLADE AND RINGED IMPELLERS	PR 30	8	58[1]
83–165	17–33	83–165	400 –3,500		PR 31	8	33[1]
113–225	23–45	113–225	1,100 –8,900		PR 32	8	45[1]
165–330	33–66	165–330	3,500 –28,200		PR 33	8	66[1]
188–375	38–75	188–375	5,200 –41,400		PR 39	8	75[2]
80–140	14–28	80–140	400 –2,200	RADIAL-FLOW IMPELLERS	TR 20	8	28[1]
143–250	25–50	143–250	2,300 –12,300		TR 21	8	50[1]
130	7	130	1,700	HALF-MOON/ ANCHOR-TYPE IMPELLERS	HR 18	8	65[2]
67	2	67	200		AR 19	8	60[2]
100–150	18	100–150	800 – 2,700	VISCO JET®	VJ 60	10	60[1]
133–200	24	133–200	1,900 – 6,300		VJ 80 VJ 80 Crack	10 10	80[1, 3] 80[1]
200–300	36	200–300	6,300 – 21,200		VJ 120 VJ 120 Crack	10 10	120[1, 3] 120[1]

Source: Data based on internal reference.

[1] Stainless steel (V4A) [2] PTFE [3] POM

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

8 mm

10 mm

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

NOTE:
VISCO JET® stirrer shafts have a diameter of 10 mm and **cannot** be used with every accessory available.

Hei-TORQUE overhead stirrers – perfect mixing for any application

The perfect stirring tool for your individual viscosity-volume range

VISCOSITY	60 – 100 mPas (vegetal oil)											
VOLUME	25 l					5.5 l						
Stirring tool / Overhead Stirrers	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
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 / Overhead stirrer	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
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 / Overhead stirrer	PR 30	PR 39	VJ 80	VJ 80 Crack	BR 13	PR 30	PR 39	VJ 60	VJ 60
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 / Overhead stirrer	PR 30	PR 39	VJ 80	VJ 80 Crack	BR 13	PR 30	PR 39	VJ 60	VJ 80	VJ 80 Crack	VJ 60
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