

Overhead Stirrers, Heidolph

Mechanical stirrers RZR series

Technicality Properties

- A through-shaft design allows for adjusting of the impeller position to make height adjustment more convenient
- 2 gear stage design guarantees the highest power over the entire speed range and is designed for continuous operation, even in polymer research
- All electronic stirrers maintain exact speed under changing loads and even can accept 200 % peak overload for a limited period of time without interrupting the process
- The motor will be switched off if a high thermal load situation occurs to provide operator safety
- Sealed housing guarantees longevity and maintenance-free 24 hour operation in an aggressive environment

Technicality Data

- A maintenance-free sparkless motor ensures 27 W output power and performs stirring torque peaks up to 520 N/cm
- A 2 gear stage design guarantees the highest power over the entire speed range
- The speed is adjustable over a large scale from 40 – 2,000 rpm

RZR 2020

- This model is for standard applications without display
- Outstanding choices for all medium to high viscosity mixing tasks with a maximum viscosity of 60,000 mPa/s
- A 2 gear stage design guarantees the highest power over the entire speed range of 40 – 2,000 rpm
- A maintenance-free sparkless motor ensures 27 W output power and performs stirring torque peaks up to 400 N/cm

RZR 2021

- Model RZR 2021 features a bright digital for accurate speed setting. Model RZR 2020 is designed for applications that do not require accurate settings and comes without a display

RZR 2041

- The model RZR 2041 is an excellent choice for any high viscosity mixing with a maximum viscosity up to 100,000 mPa/s
- This model features a bright digital display for accurate speed settings
- A 2 gear stage design guarantees the highest power over the entire speed range of 40 – 2,000 rpm
- A maintenance-free sparkless motor ensures 27 W output power and performs stirring torque peaks up to 520 N/cm

Type	P rating W	Speed range 1/min	Torque max. N/cm	Display speed	Order No.
RZR 2020	27	I: 40-400 II: 200-2000	400	Scale	51 41 12020
① RZR 2021	27	I: 40-400 II: 200-2000	400	Digital	51 41 12021
② RZR 2041	37	I: 40-400 II: 200-2000	520	Digital	51 41 12041



Electronic stirrers RZR series

General Properties

- All electronic stirrers accept 200 % overload for a limited period of time. Your process therefore will not be interrupted in an event such as short-term overload
- Calibrate your torque at the beginning or even during your process to monitor viscosity changes over time. Reproducible results made easy
- Set your speed of choice on the self-explanatory panel or via digital interface from 30 – 2,000 rpm
- Enhanced bright digital display for torque and speed
- Constant speed under changing loads over the entire span of every gear setting
- Shipment includes a 10 mm chuck as standard

RZR 2051 control

- With all advantages mentioned above
- 1 gear stage stirrers which hold speed constant under changing loads
- Accepts torque of 40 N/cm in an overload situation and 20 N/cm for continuous operation at speeds from 50 – 2,000 rpm
- Viscosity range up to 10,000 mPa/s

RZR 2052 control

- With all advantages mentioned above
- 1 gear stage stirrers which hold speed constant under changing loads
- Accepts torque of 180 N/cm in an overload situation and 90 N/cm for continuous operation at speeds from 30 – 1,000 rpm
- Viscosity range up to 40,000 mPa/s

RZR 2102 control

- With all advantages mentioned above
- 2 gear stage stirrers which hold speed constant under significant load changes such as sticky media like polymers for example
- Choose between 2 options for gear setting and experience the power of the 100 W output motor which allows for torque of 400 N/cm in an overload situation and 200 N/cm for continuous operation at speeds from 12 – 2,000 rpm
- Viscosity range up to 10,000 mPa/s

RZR 2102 control Z

- Features identical technical specifications as the RZR 2102 control except for
- Speed: 4 – 540 rpm
- Torque: 800 N/cm in an overload situation 700 N/cm at continuous operation
- An additionally flanged planet gear for extreme viscosities up to 350.000 mPa/s

Type	P rating W	Speed range 1/min	Torque max. N/cm	Display speed	Order No.
③ RZR 2051 control	50	50-2000	40	Digital	51 41 12051
RZR 2052 control	100	30-1000	180	Digital	51 41 12052
④ RZR 2102 control	100	I: 12-400 II: 60-2000	400	Digital	51 41 12102
⑤ RZR 2102 control Z	100	I: 4-108 II: 17-540	800	Digital	51 41 12104

Accessories

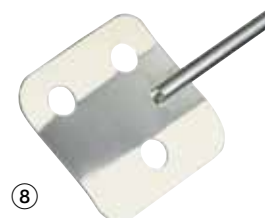
Article	Order No.
H-stand S2	51 41 01200
425 x 420 mm (W x D), Ø stand tube 25 mm, stand tube length 700 mm	
H-stand S2 XXL	10 41 01220
425 x 420 mm (W x D), Ø stand tube 25 mm, stand tube length 1000 mm	
⑥ Telescopic stand	10 41 02100
425 x 420 mm (W x D), Ø stand tube 32 mm, Height 725 – 1025 mm	
⑦ Stand clamp	51 41 02200
Clamping range 13 to 32 mm	
Stirring shaft guard	51 41 08000
Plexiglas (PMMA), height adjustable	
Collet chuck 10.5	10 41 90200
Clamping range 0.5 to 10.5 mm	



Blade and half-moon impeller

- These impellers are recommended for applications which require an average speed
- Models BR 12, BR 14 and HR 18 come with collapsible blade for narrow neck vessels
- For mixing tasks with little or average viscosity

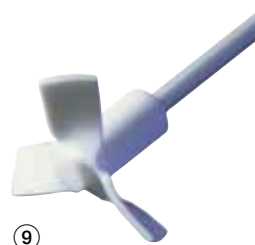
Article	Blade dimensions mm	Length mm	Order No.
Blade stirrer BR 10	50×12	400	51 41 90010
Blade stirrer BR 11	50×12	400	51 41 90011
Blade stirrer BR 12	60×15	400	51 41 90012
⑧ Blade stirrer BR 13	70×70	450	51 41 90013
Blade stirrer BR 14	90×10	400	51 41 90014
Crescent stirrer HR 18	65×18×3	350	51 41 90018



Propeller-type impeller

- These impellers are recommended for applications which require an average or high speed
- For mixing tasks with medium or high viscosity
- Excellent mixing properties for homogenization and suspension
- These models create an axial flow

Article	Blade dimensions mm	Length mm	Order No.
Propeller stirrer PR 30	Ø 58	400	51 41 90030
Propeller stirrer PR 31	Ø 33	400	51 41 90031
Propeller stirrer PR 32	Ø 45	400	51 41 90032
Propeller stirrer PR 33	Ø 66	400	51 41 90033
⑨ Propeller stirrer PR 39-PTFE	Ø 75	350	51 41 90039



Radial flow impeller

- These impellers are recommended for applications which require an average speed
- Ideal for gassing of liquids
- These impellers create a radial flow
- For mixing tasks with little or average viscosity up to <500 mPa/s

Article	Blade dimensions mm	Length mm	Order No.
⑩ Turbine stirrer TR 20	Ø 29	400	51 41 90020
Turbine stirrer TR 21	Ø 50	400	51 41 90021



Anchor-type impeller

- These impellers are recommended for applications which require a low speed
- For mixing tasks with medium or high viscosity

Article	Blade dimensions mm	Length mm	Order No.
⑪ Anchor stirrer AR 19	60×40×5	350	51 41 90019



Stirring system inoJET®

Worldwide the only impeller capable of completely mixing larger quantities of high-viscosity liquids and gels.

Principle of Functionality:

The worldwide patented inoJET® Mixing System is the result of the so-called cone-principle. Turbulent flows are created at the taper end by acceleration, displacement and retardation. These flows advance through the stirred medium and result in the new dynamic mixing motion.

Your Advantage:

- One System for literally all mixing tasks for low to high viscosity media
- Patented cone-principle creates even at low speeds a turbulent flow which is unique to the inoJET®
- Even with high-viscosity media and gels which naturally do not mix by using common impellers you will observe an immediate flow through the entire beaker
- This technology allows for de-gassing of gels while preventing air intake and foaming
- Reduce your process times significantly while performing the best mixing result ever

Type	Material	Ø mm	for container Ø mm	Wave length mm	Speed range 1/min	Order No.
inoJET® 60 mm	V4A	60	80-150	500	200-800	51 41 16060
inoJET® 80 mm	V4A	80	115-200	500	200-700	51 41 16080
inoJET® 80 mm	POM	80	115-200	500	200-700	51 41 16081
inoJET® 120 mm	V4A	120	170-300	500	120-500	51 41 16120
inoJET® 120 mm	POM	120	170-300	500	120-500	51 41 16121

POM = Polyoxymethylene



Complete package at a set price

Package RZR 2020

This package includes:

- Mechanical stirrer RZR 2020
- PR 30 impeller
- S2 stand and clamp

Package RZR 2052

This package includes:

- Electronic stirrer RZR 2052 control
- PR 30 impeller
- S2 stand and clamp

Article	Order No.
Package RZR 2020	51 41 20209
⑬ Package RZR 2052	51 41 20529

