

WTR

MAINTENANCE TOOLS

Shandong Weiterui Industrial Technology Co., Ltd.

Dealer Sticker



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COMPANY PROFILE

Shandong Weiterui Industrial Technology Co., Ltd., was founded in 2015 in Qingdao city, Shandong province, China.

We are not only manufacturer of low frequency and medium frequency induction heaters under our brand name WTR®, but also provider of reasonable solutions and comprehensive services.

CORPORATE CULTURE



Mission

While pursuing the material and spiritual happiness of all WTR people, use electromagnetic induction heating technology to create value for customers and revitalize the national industry.



Vision

To become the preferred brand in the industrial electromagnetic induction heating industry.



Values

Customer First, Altruism, Struggle, Innovation, Simplicity.

The final interpretation rights of this book belong to our company within the scope permitted by law.

WTR reserves the right to alter technical specifications without prior notice. WTR is not responsible for any loss occurring as a direct or indirect result of the use of the information from this publication.

QUALIFICATIONS AND CERTIFICATES



• ISO9001



• ISO14001



• ISO4500



• High and New Technology Enterprise



• Technology-based Small and Medium-enterprise



• Leading Unit of Chinese Bearing Heater Technical Specification Group Standard



• Member Unit of Induction Heating Branch of China Heat Treatment Industry Association

The product has passed multiple certifications such as ISO9001,CE,Demagnetization Test, etc. Authentic patents certified byAuthoritative Institutions with more confidence.

WTR INDUCTION HEATERS

Mounting&Dismounting

Why use induction heating?

Induction heating is a superior, fast and controlled heating method. It is a safe and environmentally-friendly alternative to traditional heating methods such as ovens, oil baths or blow torches. These methods generate smoke, fumes or oil waste and are hazardous for your personal safety and a healthy working environment.

It is common knowledge that a correct mounting method extends the bearing life. Controlled stress-free heating prevents unnecessary damage, while retaining the original bearing lubrication. Ideal for sealed bearings (2RS-ZZ). Bearing manufacturers recommend controlled.

induction heating as the best practice for bearing mounting.

Multifunctional, for mounting and dismounting

We offer solutions for Mounting (low-frequency) and Dismounting (medium-frequency). For bearings, gear wheels, bushings, couplings, etc.

Controlled heating Temperature and/or time

Smart electronics ensure optimum control during the heating process. These automatically regulate the most efficient use of power and ensure even and rapid heating. No extra steps are necessary. Explosive heating is impossible (no discolouration or pitting of material).

Demagnetization

Reliable demagnetization is very important for bearings and transmission parts. The proven quality of WTR induction heaters guarantees maximum demagnetization (<2A/cm). This has a major impact on the service life of for instance bearings and gear wheels.

Energy efficient

All WTR induction heaters are energy efficient in comparison with traditional methods.

New generation with smart technology

The heating process is displayed in a clear graph on a touchscreen. There is a log function to save or export data. A work log can be created as evidence. Thanks to the double temperature sensor it is possible to heat stress-free with preset values (ΔT).

For more control and stress-free mounting

Thanks to the ΔT monitoring. It is possible to measure the internal and external temperature of a workpiece with 2 temperature probes. Thus the maximum preset temperature difference between 2 points can never be exceeded. This achieves even and uniform heating and prevents material stress.

Operating principle

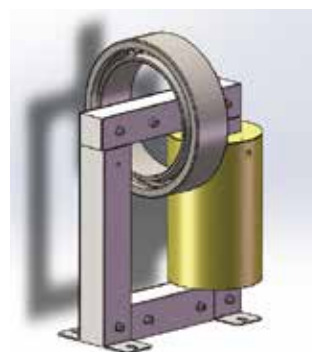
The heater works by inducing a (low-frequency) current in the workpiece to be heated. This is achieved by incorporating the workpiece as a secondary winding in a transformer. The primary winding is connected to the mains power by means of an electronic control. The magnetic field induces a high current (short-circuit current) through the workpiece, which consequently becomes hot. The workpiece is automatically demagnetized after each heating cycle.

Difference between low-frequency and medium-frequency

- Low-frequency: slow heating, great heat penetration depth
- Medium-frequency: fast heating, shallow heat penetration depth

Heating times are subject to the relationship between:

- Dimensions and weight
- Temperature and material
- Available power



Dutch design

WTR develops, manufactures and sells WTR induction heaters for professional use in industry and industrial services. Our induction heaters are used around the world, are reliable and user friendly.

Advantages of WTR induction heaters

- ✓ Safety for the user and the workpiece to be heated
- ✓ For mounting and dismounting
- ✓ Environmentally friendly: no smoke, no open flames, no fumes, no oil waste
- ✓ The energy saving alternative to traditional methods
- ✓ Robust design for use in industrial environments
- ✓ For sealed (2RS-zz) and pre-lubricated bearings
- ✓ Automatic power reduction
- ✓ Automatic demagnetization to <2A/cm
- ✓ Automatic reheat mode
- ✓ User-friendly swivel arm construction
- ✓ Designed for MRO and OEM departments
- ✓ 1-year warranty on electronic unit



Custom made

WTR has realised many projects aimed at optimising production processes and increasing production capacity. For serial heating or heating of non-standard shapes.

Read more in the "Sometimes customisation is the best solution" chapter.



All heaters are supplied with:

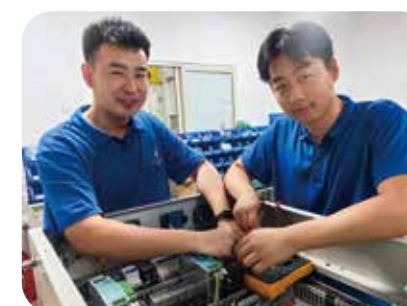
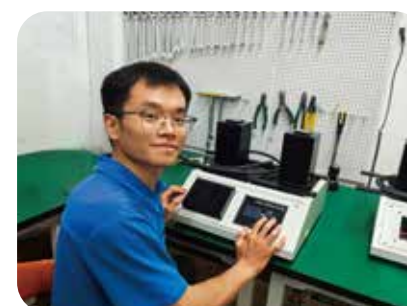
- Instruction manual
- Heat-resistant gloves 250°C/482°F
- Magnetic temperature probe (240°C/464°F)
- Vaseline for maintenance

Dependable quality

WTR induction heaters are proven to be reliable. Their sturdy styling and user-friendly design guarantee uninterrupted, problem-free operation in an industrial environment.

Service & Warranty

Our expertise and experience ensure quality, reliability, professional advice and outstanding service. WTR Induction heaters are supplied with clear instructions and a 1-year warranty on the electronic components.



ELECTRIC HOT PLATE

WTR-EHP 300 Electrical Hot Plate



300mm×400mm
Heating Area
220V/50~60HZ/1.2KW
Power
Ambient~200°C
Temperature Control Range

Advantages:

- ✓ For heating small bearings during installation
- ✓ Easy to operate
- ✓ Lightweight, easy to move around
- ✓ Accessories: 2pcs of glove, 1Pc of handheld sensor



INSTALLATION TOOLS

WTR-FT 36 Bearing Fitting Tool Kits



WTR-FT 36

- With 3 sleeves
- With 33 collets

Features:

- ✓ Suitable for installing various bearings and bushings with bore diameters ranging from 10 to 55 mm
- ✓ Easy to achieve proper installation of shafts, bearing housings, and blind hole bearings
- ✓ Made from HIPS material that withstands strong impacts, has a long service life, and is suitable for
- ✓ 36Pcs of the components
- ✓ N.W.: 4.9 kg



ELECTRIC HEATER

WTR-T 2.5 Cone Heater



Features:

- Easy to use, just switch
- Lightweight making it easier to move around
- Reliable and flexible

Type	WTR-T2.5
Power KVA	0.5-1KW, automatic
Power Range	50%-100%,automatic
Voltage	220V/230V
Amp Standard	2.2-5.0A,automatic
Frequency Hz	50-60
Temperature Control	0-180℃ ; K type sensor
Time Control	0-99min59seconds
TAutomatic Demagnetization	<2A/cm
Bore size Range	20-120mm
Max. Outer Size	260mm
Heater Weight	3Kg



INDUCTION HEATERS

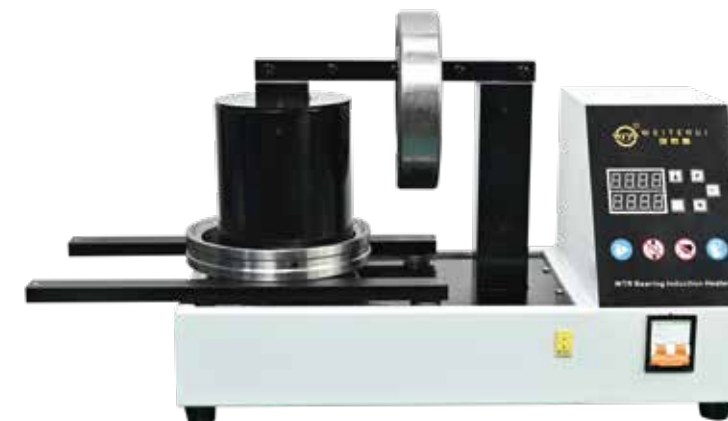
WTR-SIH Series



WTR-SIH 2.2



WTR-SIH 2.5



WTR-SIH 3.6 & 5.0



WTR-SIH 8.0

INDUCTION HEATERS

WTR-SIH 2.2



20
min. ID Φ mm

400
max. OD Φ mm

160
max. width mm

30
max. bearing weight kg

WTR-SIH 2.2

- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 4 yokes included

Type	WTR-SIH 2.2
Power KVA	2.2
Voltage/Amp Standard	220V/13A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	30kg

Induction Heaters

WTR-SIH 2.5



15
min. ID Φ mm

220
max. OD Φ mm

100
max. width mm

12
max. bearing weight kg

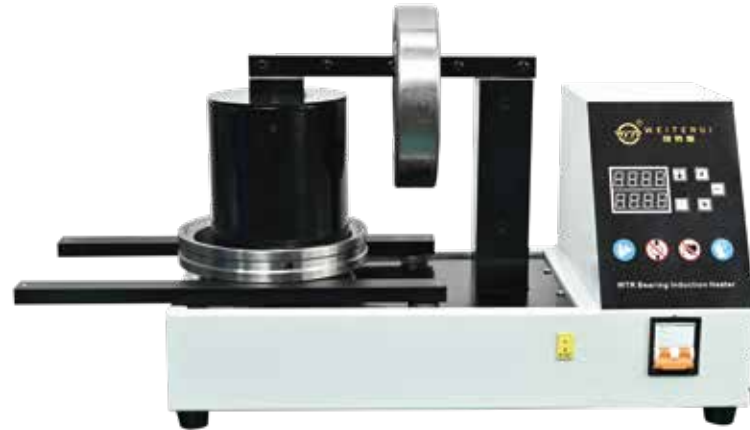
WTR-SIH 2.5

- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 5 yokes included

Type	WTR-SIH 2.5
Power KVA	2.5
Voltage/Amp Standard	220V/10A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	240/464
Max. Time Range	0-99min59sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	20kg

INDUCTION HEATERS

WTR-SIH 3.6



20
min. ID Φ mm
480
max. OD Φ mm
175
max. width mm
30
max. bearing weight kg

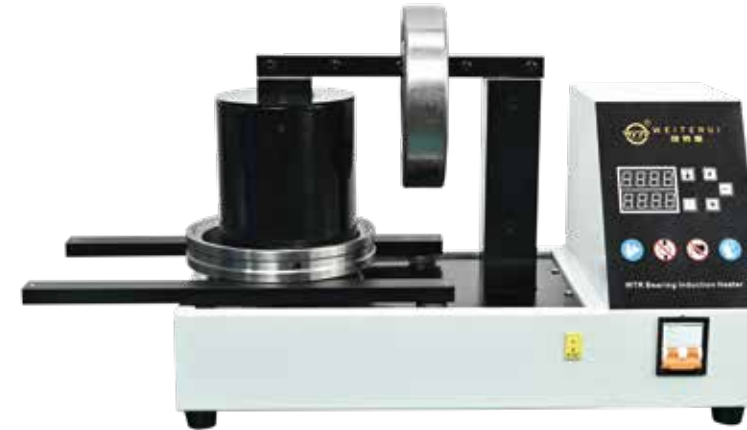
WTR-SIH 3.6

- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 4 yokes included

Type	WTR-SIH 3.6
Power KVA	3.6
Voltage/Amp Standard	220V/16A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	30kg

INDUCTION HEATERS

WTR-SIH 5.0



20
min. ID Φ mm
450
max. OD Φ mm
160
max. width mm
65
max. bearing weight kg

WTR-SIH 5.0

- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 4 yokes included

Type	WTR-SIH 5.0
Power KVA	5.0
Voltage/Amp Standard	220V/23A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	30kg

INDUCTION HEATERS

WTR-SIH 8.0



60/170
min. ID Φ mm
530
max. OD Φ mm
200
max. width mm
80
max. bearing weight kg

WTR-SIH 8.0

- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 2 yokes included

Type	WTR-SIH 8.0
Power KVA	8.0
Voltage/Amp Standard	320V/21A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	65kg

INDUCTION HEATERS

WTR-MIH Series



WTR-MIH 500



WTR-MIH 1200



WTR-MIH 1600



INDUCTION HEATERS

WTR-MIH 500



20/150
min. ID Φ mm
450
max. OD Φ mm
160
max. width mm
65
max. bearing weight kg

WTR-MIH 500

- Movable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 4 yokes included
- The design is ergonomic
- Three-coil technology

Type	WTR-MIH 500
Power KVA	5
Voltage/Amp Standard	220V/23A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	71kg

INDUCTION HEATERS

WTR-MIH 1200



40/170
min. ID Φ mm
530
max. OD Φ mm
200
max. width mm
150
max. bearing weight kg

WTR-MIH 1200

- Movable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 3 yokes included
- The design is ergonomic
- Three-coil technology

Type	WTR-MIH 1200
Power KVA	12
Voltage/Amp Standard	380V/32A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	120kg

INDUCTION HEATERS

WTR-MIH 1600



80/210
min. ID Φ mm
600
max. OD Φ mm
280
max. width mm
300
max. bearing weight kg

WTR-MIH 1600

- Movable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- 1 yokes included
- The design is ergonomic
- Three-coil technology

Type	WTR-MIH 1600
Power KVA	16
Voltage/Amp Standard	380V/42A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	142kg

INDUCTION HEATERS

WTR-BV 200-3



80/210
min. ID Φ mm
720
max. OD Φ mm
280
max. width mm
400
max. bearing weight kg

- The LIH effect only works when the workpiece is in a horizontal position
- High output, energy efficient

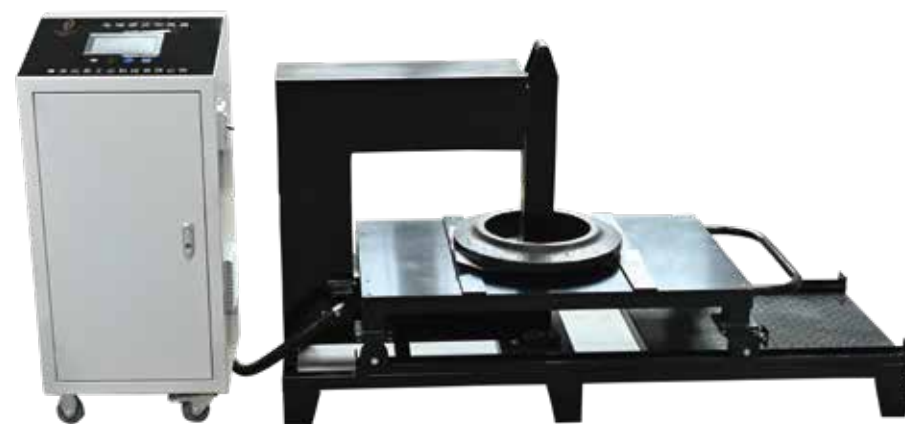
WTR-BV 200-3

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 400kg
- Touch screen with clear graph
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 300 $^{\circ}\text{C}$ (The usual temperature is recommended not to exceed 150 $^{\circ}\text{C}$)
- Including 1yoke, 650 mm
- Electric control cabinet and heating host structure is integrated
- Voltages: 380V \pm 10%, other customized

Type	WTR-BV 200-3
Power KVA	20
Voltage/Amp Standard	380V/52A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	200kg

INDUCTION HEATERS

WTR-LIH SERIES



WTR-LIH SERIES
16kva/25kva/35kva/50kva/65kva/Customized

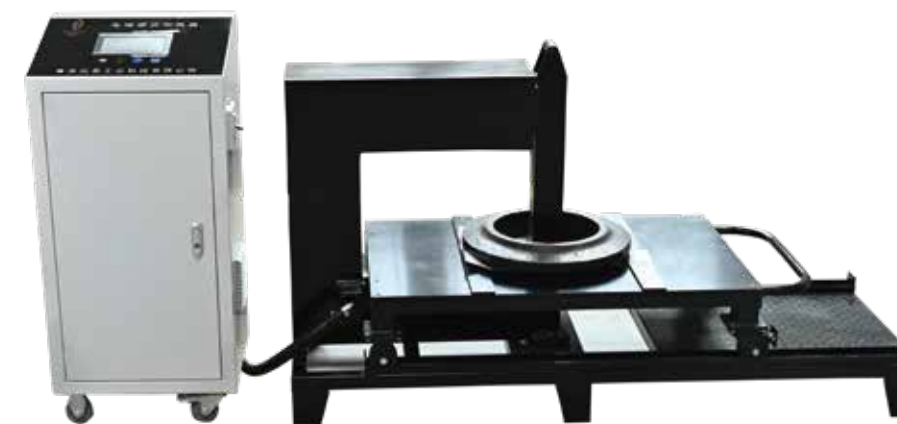


WTR-LIH series with crane

WTR-LIH series with crane

INDUCTION HEATERS

WTR-LIH 1600



80
min. ID Φ mm

700
max. OD Φ mm

280
max. width mm

400
max. bearing weight kg

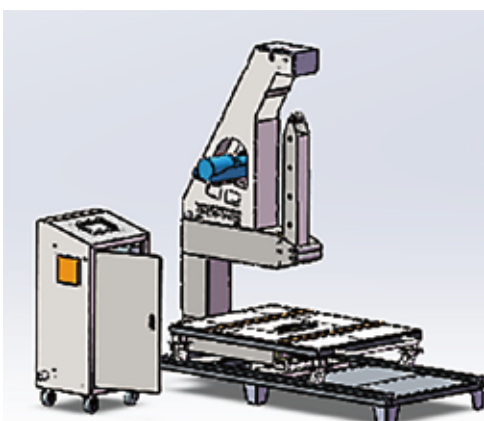
- The LIH effect only works when the workpiece is in a horizontal position
- High output, energy efficient

WTR-LIH 1600

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 400kg
- Touch screen with clear graph
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 300°C (The usual temperature is recommended not to exceed 150°C)
- Including 1yoke, 600 mm
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- Voltages: 380V \pm 10%, other customized

Type WTR-LIH 1600

Power KVA	16
Voltage/Amp Standard	380V/42A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	180kg



Optional Crane

INDUCTION HEATERS

WTR-LIH 2500



80
min. ID Φ mm

800
max. OD Φ mm

250
max. width mm

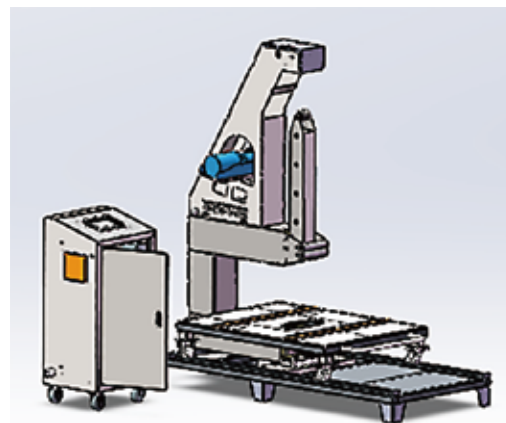
500
max. bearing weight kg

- The LIH effect only works when the workpiece is in a horizontal position
- High output, energy efficient

WTR-LIH 2500

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 500kg
- Touch screen with clear graph
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 300°C (The usual temperature is recommended not to exceed 150°C)
- Including 2yoke, 500 mm
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- Voltages: 380V \pm 10%, other customized

Type	WTR-LIH 2500
Power KVA	25
Voltage/Amp Standard	380V/66A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	280kg



Optional Crane

INDUCTION HEATERS

WTR-LIH 3500



100
min. ID Φ mm

900
max. OD Φ mm

300
max. width mm

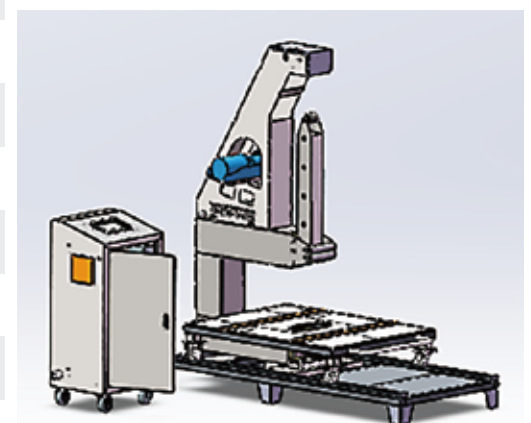
700
max. bearing weight kg

- The LIH effect only works when the workpiece is in a horizontal position
- High output, energy efficient

WTR-LIH 3500

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 700kg
- Touch screen with clear graph
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 300°C (The usual temperature is recommended not to exceed 150°C)
- Including 2yoke, 600 mm
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- Voltages: 380V \pm 10%, other customized

Type	WTR-LIH 3500
Power KVA	35
Voltage/Amp Standard	380V/92A
Frequency Hz	50-60
Temperature Control	Yes
Time Control	Yes
Max. Temperature $^{\circ}\text{C} / ^{\circ}\text{F}$	300/572
Max. Time Range	0-9999sec
Temperature Hold	Yes
Automatic Demagnetization	<2A/cm
Weight In kg	400kg



Optional Crane

INDUCTION HEATERS

WTR-LIH 5000



120
min. ID Φ mm
1000
max. OD Φ mm
300
max. width mm
1000
max. bearing weight kg

INDUCTION HEATERS

WTR-LIH 6500

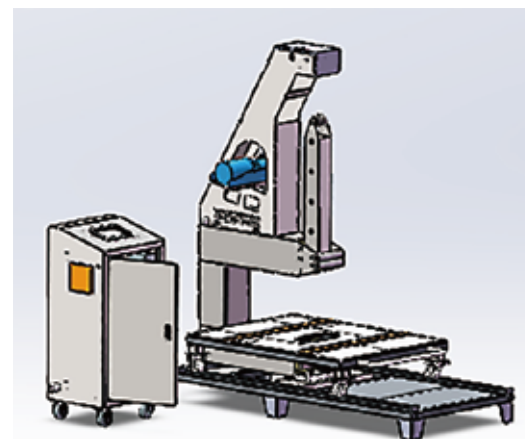


160
min. ID Φ mm
1200
max. OD Φ mm
300
max. width mm
1200
max. bearing weight kg

WTR-LIH 5000

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 600kg
- Touch screen with clear graph
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 300°C (The usual temperature is recommended not to exceed 150°C)
- Including 2yokes, 680 mm
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- Voltages: 380V \pm 10%, other customized

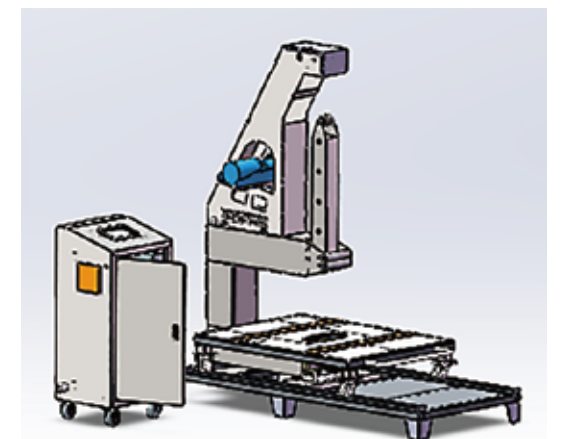
- The LIH effect only works when the workpiece is in a horizontal position
- High output, energy efficient



WTR-LIH 6500

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 800kg
- Touch screen with clear graph
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 300°C (The usual temperature is recommended not to exceed 150°C)
- Including 1yokes, 740 mm
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- Voltages: 380V, 400V, 480V, 500V and 600V

- The LIH effect only works when the workpiece is in a horizontal position
- High output, energy efficient



INDUCTION HEATERS

WTR-LIH WP Series

CUSTOMIZED MODEL

160
min. ID Φ mm
1200
max. OD Φ mm
300
max. width mm
1200
max. bearing weight kg



WTR-LIH WP SERIES

A unique and flexible solution for oversized bearings and workpieces
The WTR-LIH WP combined induction heater is an energy-efficient, customer-specific heating solution.
Compared to other heating methods, this product can significantly reduce the heating time.

The LIH WP series is similar to the standard LIH product series, with the following key differences and additional benefits:

- ✓ Flexible design, including multiple heating cores and heating coils, controlled by a separate control panel and electric control cabinet
- ✓ It is suitable for heating large and thin workpieces such as slewing supports and railway hubs
- ✓ Depending on the application, workpieces weighing several tons can be heated
- ✓ Achieve a more uniform temperature gradient across the entire circumference. This is especially important for workpieces that are sensitive to uneven induction heating
- ✓ Unique design for fast and economical customized solutions

APPLICATION

WTR-LIH WP Series



Meet the assembly requirements of bearings, bearing sleeves, and bearing seats for the windpower industry with a capacity of 2.5MW, 3.0MW, 4.5MW, 5MW, 6MW, 9MW, 14MW and above, A device can meet the heating needs of multiple workpieces.

TECHNICAL SPECIFICATIONS

Portable Type



MODEL		WTR-SIH2.2	WTR-SIH2.5	WTR-SIH3.6	WTR-SIH5.0	WTR-SIH8.0
Power/kVA		2.2	2.5	3.6	5	8
Voltage		220V	220V	220V	220V	380V
Frequency/hz		50/60	50/60	50/60	50/60	50/60
Current/A		13A	10A	16A	23A	21A
Power Cable lengths/m		1.5	3	1.5	1.5	2.5
Pole Area/mm		50x50	40x40	50x50	50x50	75*65
Pole Height/mm		165	100	165	165	200
Pole Distance/mm		120	70	120	145	210
Display		Digital	Digital	Digital	Digital	Digital
Swivel Arm		-	-	-	-	Yes
Acoustic Signal At The End Of Each Heating Cycle		Yes	Yes	Yes	Yes	Yes
Horizontal (Bearings) Min. ID/mm		140		140	150	170
Horizontal (Bearings) Max. OD/mm		360		480	450	530
Horizontal (Bearings) Max. Height/mm		160	100	175	160	190
Vertical (Bearings) Min. ID/mm		20	15	20	20	60
Vertical (Bearings) Max. OD/mm		400	220	400	400	450
Vertical (Bearings) Max. Height/mm		110	70	115	140	200
Max. Weight Of the Bearing/Kgs		30	12	30	65	80
Control Methods	Temperature Control	0-300℃	0-240℃	0-300℃	0-300℃	0-300℃
Control Methods	Time Control	0-9999sec	0-99min59sec	0-9999sec	0-9999sec	0-9999sec
Magnetic Probe/K type/Pcs		1	1	1	1	1
Aut. Demagnetization, < 2A/CM		Yes	Yes	Yes	Yes	Yes
Accessories	Iron Yokes /mm	14x14x265	10x10x150	14x14x265	14x14x295	40x40x390
Accessories	Iron Yokes /mm	20x20x265	14x14x150	20x20x265	20x20x295	535x55x55
Accessories	Iron Yokes /mm	28x28x265	20x20x150	28x28x265	28x28x295	-
Accessories	Iron Yokes /mm	45x45x265	30x30x150	45x45x265	45x45x295	-
Accessories	Iron Yokes /mm	-	40x40x150	-	-	-
Accessories	Iron Yokes number / pcs	4	5	4	4	2
Accessories	Iron Yokes (kg) approx	6.5	5	7	7	16
Accessories	Heat-resistant Gloves/pcs	2	2	2	2	2
Heater Size (mm)		530x260x310	240x200x235	520x260x310	510x440x340	600x390x450
Heater Weight (Kg) approx		30	20	30	30	65
Package	Type	Wooden case	Wooden case	Wooden case	Wooden case	Wooden case
Package	Size(mm) approx	560*350*350	60*370*410	560*350*350	540x480x420	670*440*630
Electric Crane For Yokes		-	-	-	-	-
Mobile		-	-	-	-	Optional

TECHNICAL SPECIFICATIONS

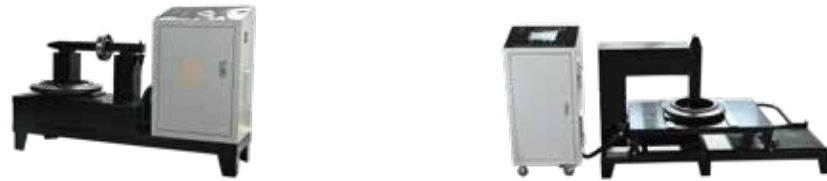
Movable Type



MODEL		WTR-MIH500	WTR-MIH1200	WTR-MIH1600
Power/kVA		5	12	16
Voltage		220V	380V	380V
Frequency/hz		50/60	50/60	50/60
Current/A		23A	32A	42A
Power Cable lengths/m		1.5	2.5	2.5
Pole Area/mm		50*50	75*65	75x85
Pole Height/mm		165	200	290
Pole Distance/mm		145	210	290
Display		Digital	Digital	Digital
Swivel Arm		Yes	Yes	Yes
Acoustic Signal At The End Of Each Heating Cycle		Yes	Yes	Yes
Horizontal (Bearings) Min. ID/mm		150	170	210
Horizontal (Bearings) Max. OD/mm		450	530	600
Horizontal (Bearings) Max. Height/mm		160	190	280
Vertical (Bearings) Min. ID/mm		20	40	80
Vertical (Bearings) Max. OD/mm		400	500	600
Vertical (Bearings) Max. Height/mm		140	200	280
Max. Weight Of the Bearing/Kgs		65	150	300
Control Methods	Temperature Control	0-300℃	0-300℃	0-300℃
Control Methods	Time Control	0-99min59sec	0-9999sec	0-9999sec
Magnetic Probe/K type/Pcs		1	1	1
Aut. Demagnetization, < 2A/CM		Yes	Yes	Yes
Accessories	Iron Yokes /mm	14x14x295	390x28x28	55x55x650
Accessories	Iron Yokes /mm	20x20x295	390x40x40	-
Accessories	Iron Yokes /mm	28x28x295	535x55x55	-
Accessories	Iron Yokes /mm	45x45x295	-	-
Accessories	Iron Yokes /mm	-	-	-
Accessories	Iron Yokes number / pcs	4	3	1
Accessories	Iron Yokes (kg) approx	7.5	18	13
Accessories	Heat-resistant Gloves/pcs	2	2	2
Heater Size (mm)		740x390x855	850x450x920	1050x600x1020
Heater Weight (Kg) approx		71	120	142
Package	Type	Wooden case	Wooden case	Wooden case
Package	Size(mm) approx	800*430*980	880*460*940	1050x650x1100
Electric Crane For Yokes		-	-	-
Mobile		Yes	Yes	Yes

TECHNICAL SPECIFICATIONS

All In One Type(Vertical) & Large Size Type (Horizontal)



MODEL		WTR-BV200-3	WTR-LIH1600	WTR-LIH2500	WTR-LIH3500
Power/kVA		20	16	25	35
Voltage		380V	380V	380V	380V
Frequency/hz		50/60	50/60	50/60	50/60
Current/A		52A	42A	66A	92A
Power Cable lengths/m		3	2.5	3	3
Pole Area/mm		85*75	75*85	105*80	100*100
Pole Height/mm		290	-	-	-
Pole Distance/mm		290	-	-	-
Display		Digital	Digital	Digital	Touch
Swivel Arm		Yes	-	-	-
Acoustic Signal At The End Of Each Heating Cycle		Yes	Yes	Yes	Yes
Horizontal (Bearings) Min. ID/mm		210	80	80	100
Horizontal (Bearings) Max. OD/mm		720	700	800	900
Horizontal (Bearings) Max. Height/mm		280	280	250	300
Vertical (Bearings) Min. ID/mm		80	-	-	-
Vertical (Bearings) Max. OD/mm		720	-	-	-
Vertical (Bearings) Max. Height/mm		280	-	-	-
Max. Weight Of the Bearing/Kgs		400	400	500	700
Control Methods	Temperature Control	0-300℃	0-300℃	0-300℃	0-300℃
Control Methods	Time Control	0-9999sec	0-99min59sec	0-9999sec	0-9999sec
Magnetic Probe/K type/Pcs		1	1	1	1
Aut. Demagnetization,< 2A/CM		Yes	Yes	Yes	Yes
Accessories	Iron Yokes /mm	650x55x55	55x55x600	500x60x50	600x65x65
Accessories	Iron Yokes /mm	-	-	500x75x60	600x80x80
Accessories	Iron Yokes /mm	-	-	-	-
Accessories	Iron Yokes /mm	-	-	-	-
Accessories	Iron Yokes /mm	-	-	-	-
Accessories	Iron Yokes number / pcs	1	1	2	2
Accessories	Iron Yokes (kg) approx	13	12	27	35
Accessories	Heat-resistant Gloves/pcs	2	2	2	2
Heater Size (mm)		1300x400x920	1750x600x900	1400x600x920	1550x700x920
Heater Weight (Kg) approx		200	180	280	400
Package	Type	Wooden case	Wooden case	Wooden case	Wooden case
Package	Size(mm) approx	-	-	-	-
Electric Crane For Yokes		-	Optional-220\$	Optional-220\$	Optional-270\$
Mobile		Optional-50\$	Optional-40\$	Optional-50\$	Optional-85\$

TECHNICAL SPECIFICATIONS

Large Size Type (HOrizontal)



MODEL		WTR-LIH5000	WTR-LIH6500
Power/kVA		50	65
Voltage		380V	380V
Frequency/hz		50/60	50/60
Current/A		132A	170A
Power Cable lengths/m		3	3
Pole Area/mm		115*115	130*120
Pole Height/mm		-	-
Pole Distance/mm		-	-
Display		Touch	Touch
Swivel Arm		-	-
Acoustic Signal At The End Of Each Heating Cycle		Yes	Yes
Horizontal (Bearings) Min. ID/mm		120	160
Horizontal (Bearings) Max. OD/mm		1000	1200
Horizontal (Bearings) Max. Height/mm		300	300
Vertical (Bearings) Min. ID/mm		-	-
Vertical (Bearings) Max. OD/mm		-	-
Vertical (Bearings) Max. Height/mm		-	-
Max. Weight Of the Bearing/Kgs		1000	1200
Control Methods	Temperature Control	0-300℃	0-300℃
Control Methods	Time Control	0-9999sec	0-99min59sec
Magnetic Probe/K type/Pcs		1	1
Aut. Demagnetization,< 2A/CM		Yes	Yes
Accessories	Iron Yokes /mm	680x80x80	110x110x740
Accessories	Iron Yokes /mm	680x100x100	-
Accessories	Iron Yokes /mm	-	-
Accessories	Iron Yokes /mm	-	-
Accessories	Iron Yokes /mm	-	-
Accessories	Iron Yokes number / pcs	2	1
Accessories	Iron Yokes (kg) approx	50	-
Accessories	Heat-resistant Gloves/pcs	2	2
Heater Size (mm)		1800x700x1100	2050x850x1100
Heater Weight (Kg) approx		600	-
Package	Type	Wooden case	Wooden case
Package	Size(mm) approx	-	-
Electric Crane For Yokes		Optional-335\$	Optional-450\$
Mobile		Optional-125\$	Optional-160\$

INDUCTION HEATERS

WTR-C Series



WTR-C-1

WTR-C-2

- Safe and easy removal within just 2minutes

PRODUCT PARAMETERS

- Wide application- WTR-C inductors could be used for mounting or dismounting of the bearing inner ring, labyrinth ring, fixed distance ring.
- Perfect fit- WTR-C inductors are specifically designed for a given inner ring to achieve optimum dismounting perfor-
- Mobile lifting device is optional, more convenient to handle and operate.

WTR-C Series

The fixed size induction heaters are designed to safely and easily dismount, and mount, cylindrical roller bearing inner rings, which are often mounted with a very tight interference fit. WTR-C series solution consists of different inductors that are fitted for the application and connected to a matching control cabinet to power and operate the inductor.

INDUCTION HEATERS

WTR-MF5-BE Series



5
power kw
5"
display inch
220/230
Voltage V



WTR-MF5-BE

- Compact design with 5"
- User-friendly touchscreen
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurement
- Choice between fixed and flexible inductors
- Full digital precision control: IGBT+DSP inductors



INDUCTION HEATERS

WTR MF Heaters- Medium-Frequency



To be used for Bearings Labyrinth seals
Bearing rings Bearing、 housings Gear、
wheels Rollers、 Tubes、 Bushings、
Couplings、 Train wheels/train、 wheel
tyres、 Stator housings

Advantages of WTR MF Quick-Heaters:

- ✓ For mounting, dismounting and preheating
- ✓ Suitable for steel, cast iron, stainless steel and titanium
- ✓ Full digital precision control: IGBT+DSP
- ✓ Full air-cooled: no water cooling needed
- ✓ Strong adaptability: the output frequency can be automatically adjusted with the load from 5 to 25KHz
- ✓ Efficient protection: IGBT nanosecond protection
- ✓ Fast start-up, start-up success rate of nearly 100%
- ✓ Multiple closed-loop mode: Constant current/Constant power/Constant temperature,multiple closed-loop to meet the needs of various occasions
- ✓ Multiple operation modes: Temperature mode/Time mode/Process mode; PID temperature control system;Over-temperature alarm,Dual-channel temperature measurement temperature difference alarm
- ✓ Powerful communication function and comfortable man-machine interface
- ✓ Generators are supportable from 5 to 200 kW
- ✓ Suitable for production and maintenance applications

PRODUCT PARAMETERS

WTR-C Series

Bearing	Inner Sleeve Size	Frequency	Voltage	Current	Heating Time		Temperature
Models	OD x W	(HZ)		(A)	Mount	Dismount	℃
FC3045120	φ169×120	50	380V	100	100"	120"	120
FC3248124	φ183×124	50	380V	100	100"	120"	120
FC3652168	φ202×168	50	380V	100	100"	120"	120
FC3852168	φ212×168	50	380V	100	100"	120"	120
FC4058192	φ226×192	50	380V	100	110"	120"	120
FC4462192	φ246×192	50	380V	100	110"	120"	120
FC4666206	φ260×206	50	380V	120	120"	130"	120
FC5274220	φ292×220	50	380V	130	120"	130"	120
FC5274220	φ312×220	50	380V	130	120"	130"	120
FC5274220	φ332×240	50	380V	140	120"	130"	120
FC5274220	φ355×240	50	380V	140	120"	130"	120
FC5274220	φ371×250	50	380V	140	120"	130"	120
FC5274220	φ378×175	50	380V	140	120"	130"	120
FC5274220	φ704×325	50	380V	170	15"	16"	130
FC5274220	φ809×375	50	380V	180	15"	20"	130
FC5274220	φ878×350	50	380V	180	22"	25"	130



Heating time in the form is approximation tested under 28℃,users need to do adjustment according to the Room temperature.

INDUCTION HEATERS

WTR-MF Series



10/20/30/40/60
power kw
7"
display inch
**380V±10% or other
customized**
380/400/450/500/600

WTR-MF10-BE/WTR-MF20-BE/ WTR-MF30-BE/WTR-MF40-BE/ WTR-MF60BE

- Compact design with 7" display
- User-friendly touchscreen operation
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurement
- Choice between fixed and flexible inductors-measurement
- Full digital precision control: IGBT+DSP

Can heat according to preset temperature/time curve
The heating process is displayed in a clear graph
Log function to save data or export it via a UsB port



INDUCTION HEATERS

WTR-MF Series



60/ 80/100/120/160/200
power kw
10
display inch
**380V±10% or other
customized**
380/400/450/500/600

WTR-MF60-BE/WTR-MF80-BE/WTR-MF100-BE/ WTR-MF120-BE/WTR-MF-200BE

- Compact design with 10" display
- User-friendly touchscreen operationoperation
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurementmeasurement
- Choice between fixed and flexible inductors
- Full digital precision control: IGBT+DSP

Can heat according to preset temperature/-
time curve,The heating process is displayed
in a clear graph,Log function to save data or
export it via a UsB port.



TECHNICAL SPECIFICATIONS

Mounting&Dismouting



MODEL	WTR-MF5-BE	WTR-MF10-BE	WTR-MF20-BE
Brand	WTR	WTR	WTR
Forced Air Cooling	Yes	Yes	Yes
Power Cable (YC series flexible cord)	3core 4mm ²	380V/3core 6mm ² +2core 4mm ²	3core 10mm ² +2core 6mm ²
Rated Power	5KW	10KW	20KW
Rated Voltage	220V	380 V±10%/50-60hz	380 V±10%/50-60hz
Operating Frequency	5-35KZH	5-25KHZ	5-25KHZ
Electric Current	20A	15A	30A
Transformer	Yes	Yes	Yes
Power Adjustable	1-5kW	-	5-20kW
Load Inductance	According to parts	30-60uH	30-60uH
Conversion Efficiency	30-95%	30-95%	≥95%
Environment Temperature	From-10 degrees to +50 degrees	From-10 degrees to +50 degrees	From-10 degrees to +50 degrees
Protection Level	IP20	IP20	IP20
Operation Mode	Aerial plugging	Aerial plugging	Aerial plugging
Output Cable		5-15M/30-50 square	20-30M/25 square
Output Cable		Need confirm specifically	Wire diameter 8mm
Output Cable		The specifications of the output cable are for reference only	The specifications of the output cable are for reference only
Control Mode	HMI	HMI	HMI
Mobile	Portable	Optional	Optional
Dimension of Generator mm/LxWxH	445*230*230	747.5x346x456.5	747.5x346x456.5

TECHNICAL SPECIFICATIONS

Mounting&Dismouting



MODEL	WTR-MF30-BE	WTR-MF40-BE	WTR-MF60-BE
Brand	WTR	WTR	WTR
Forced Air Cooling	Yes	Yes	Yes
Power Cable (YC series flexible cord)	3core 10mm ² +2core 6mm ²	3core 16mm ² +2core 10mm ²	3core 25mm ² +2core 16mm ²
Rated Power	30KW	40KW	60KW
Rated Voltage	380 V±10%/50-60hz	380 V±10%/50-60hz	380 V±10%/50-60hz
Operating Frequency	5-25KHZ	5-25KHZ	5-25KHZ
Electric Current	45A	60A	90A
Transformer	Yes	Yes	Yes
Power Adjustable	5-30kW	30-40kW	30-60kW
Load Inductance	30-60uH	30-60uH	30-60uH
Conversion Efficiency	≥95%	30-95%	≥95%
Environment Temperature	From-10 degrees to +50 degrees	From-10 degrees to +50 degrees	From-10 degrees to +50 degrees
Protection Level	IP20	IP20	IP20
Operation Mode	Aerial plugging	Aerial plugging	Aerial plugging
Output Cable	20-30M/25 square	30M/50 square	45-50M/35 square
Output Cable	Wire diameter 8mm	Wire diameter 10mm	Wire diameter 8mm
Output Cable	The specifications of the output cable are for reference only	The specifications of the output cable are for reference only	The specifications of the output cable are for reference only
Control Mode	HMI	HMI	HMI
Mobile	Optional	Optional	Optional
Dimension of Generator mm/LxWxH	747.5x346x456.5	933.5x406x556.5	933.5x406x556.5

TECHNICAL SPECIFICATIONS

Mounting&Dismounting



MODEL	WTR-MF80-BE	WTR-M100-BE	WTR-M120-BE
Brand	WTR	WTR	WTR
Forced Air Cooling	Yes	Yes	Yes
Power Cable (YC series flexible cord)	3core 35mm ² +2core 16mm ²	3core 50mm ² +2core 25mm ²	3core 50mm ² +2core 25mm ²
Rated Power	80KW	100KW	120KW
Rated Voltage	380 V±10%/50-60hz	380 V±10%/50-60hz	380 V±10%/50-60hz
Operating Frequency	5-25KHZ	5-25KHZ	5-25KHZ
Electric Current	120A	150A	180A
Transformer	Yes	Yes	Yes
Power Adjustable	30-80kW	30-100kW	30-120kW
Load Inductance	120-190±10uH	120-190±10uH	120-190±10uH
Conversion Efficiency	≥95%	≥95%	≥95%
Environment Temperature	From -10 degrees to +50 degrees	From -10 degrees to +50 degrees	From -10 degrees to +50 degrees
Protection Level	IP20	IP20	IP20
Operation Mode	Aerial plugging	Aerial plugging	Aerial plugging
Output Cable	40-50M/50 square	40-50M/50-60 square	40-50M/70 square
Output Cable	Wire diameter 10mm	Wire diameter 13mm	Wire diameter 13mm
Output Cable	The specifications of the output cable are for reference only	The specifications of the output cable are for reference only	The specifications of the output cable are for reference only
Control Mode	HMI or Button	HMI or Button	HMI or Button
Mobile	Yes	Yes	Yes
Dimension of Generator mm/LxWxH	661x531x1279	661x531x1279	820.5x530.5x1282.5

TECHNICAL SPECIFICATIONS

Mounting&Dismounting



MODEL	WTR-MF160-BE	WTR-M200-BE
Brand	WTR	WTR
Forced Air Cooling	Yes	Yes
Power Cable (YC series flexible cord)	3core 50mm ² +2core 35mm ²	3core 50mm ² +2core 35mm ²
Rated Power	160KW	200KW
Rated Voltage	380 V±10%/50-60hz	380 V±10%/50-60hz
Operating Frequency	5-25KHZ	5-25KHZ
Electric Current	240A	300A
Transformer	Yes	Yes
Power Adjustable	30-160kW	30-200kW
Load Inductance	120-190±10uH	120-190±10uH
Conversion Efficiency	≥95%	≥95%
Environment Temperature	From -10 degrees to +50 degrees	From -10 degrees to +50 degrees
Protection Level	IP20	IP20
Operation Mode	Aerial plugging	Aerial plugging
Output Cable	50M /95 square	50M/120 square
Output Cable	Need confirm specifically	Need confirm specifically
Output Cable	The specifications of the output cable are for reference only	The specifications of the output cable are for reference only
Control Mode	HMI or Button	HMI or Button
Mobile	Yes	Yes
Dimension of Generator mm/LxWxH	820.5x530.5x1282.5	820.5x530.5x1282.5

Flexible Inductors

Flexible inductors are a multi-functional solution for various shapes or sizes. They can be used in or arounds workpiece.



Heating motor housing for dismounting

Fixed Inductors

Fixed inductors are used for serial work.



Heating bearing housing for mounting



Heating bearing inner&outer ring for mounting

PARTIAL COOPERATIVE CLIENTS

Metso

vallourec

Vestas

SEW
EURODRIVE

BorgWarner

HITACHI
Inspire the Next

thyssenkrupp

Bekaert

SIEMENS

Coca-Cola

TOYOTA

ABB

ZOOMLION

NORDEX
We've got the power.

MITSUBISHI

adani

VOLVO

SMS group

首钢集团
SHOUGANG GROUP

Midea
美的

中国中车
CRRC

中国石化
SINOPEC

运达股份
WINDEY

南高齿
NGC

• CUSTOMER SATISFACTION



• CUSTOMER HAPPINESS

👍 0 Score

Standard language, standard service, smile, and enthusiasm.

👍 20 Score

1. Respect every customer and have a heart of awe.
2. Communicate with customers attentively, listen to their opinions first, do not argue with them, and make reasonable concessions.
3. Provide reasonable suggestions based on customer feedback.

👍 50 Score

1. Proactively considering customers, professional and meticulous, able to create value for customers.
2. If there is a problem, come up with a solution as soon as possible.
3. Valuing every customer transaction, ensuring quality.

👍 100 Score

1. Words must be followed by actions, and actions must be taken to provide customers with competitive products.
2. Prioritize customer needs and gain insight into them.
3. Service results received written recognition from customers or new customers.
4. Customers are willing to share their positive feelings on their social media and continue to collaborate.

• EMPLOYEE SATISFACTION



• EMPLOYEE HAPPINESS

👍 0 Score

Reservoir-style operation: Timely and full payment of salaries, five social insurances and one housing fund, with salaries 10% higher than the industry average. Ensure living security, so that employees can enjoy care in old age and medical support when sick. Enable employees to obtain relatively satisfactory income and a sense of achievement, free from worries.

👍 20 Score

Good working and dining environment; reasonable rules, regulations and processes; a complete employee happiness system. Let employees fall in love with their work, feel inner abundance, work happily, study diligently, and enhance the ability to improve, choose goodness, and strive for colleagues. Achieve growth every month.

👍 50 Score

Help employees find the purpose and meaning of work, so that everyone can discover their own mission and value. Share a common corporate philosophy, take the company's mission and vision as common goals, dare to challenge ambitious targets, and enable everyone to become operators, experts in their positions and industries, trustworthy and respected partners, benchmarks of the enterprise and models of the industry. Become the pride of their families, and make progress every week.

👍 100 Score

Each partner should have a sense of mission and altruism, always seek within, and work and live happily around the mission. Give without expectation, be truly grateful, and happiness will come naturally. All employees become mission propagators, continuously creating a magnetic field of love, sincerity and harmony, passing on love, influencing life with life, and making life more wonderful.

