

# 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



• ISO45001



• 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 by Authoritative 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

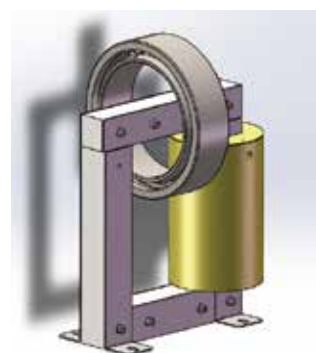
Smart electronics ensure optimum control during the heating-process. These automatically regulate the most efficient use of power and ensure even and rapid heating. No extra steps are necessary. Explosive heating is impossible (no discolouration or pitting of material).

#### 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.



#### 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

#### WTR 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.



#### All heaters are supplied with:

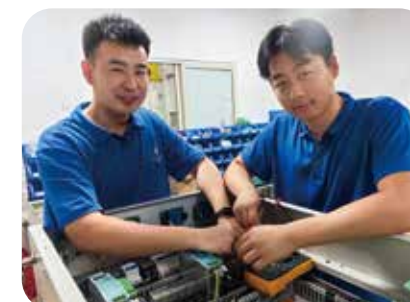
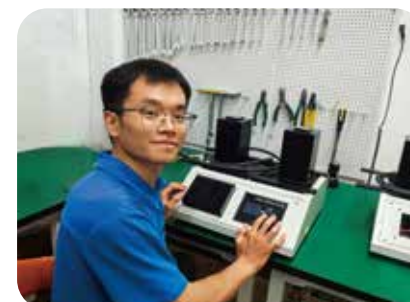
- Instruction manual
- Heat-resistant gloves 250°C/482°F
- Magnetic temperature probe
- Vaseline for maintenance

#### 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-230V/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: 2 pcs of gloves, 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 use under pressure
- ✓ 36 pcs of the components
- ✓ N.W.: 4.9 kg





## ELECTRIC HEATER

### WTR-T 2.5 Cone Heater



#### Features:

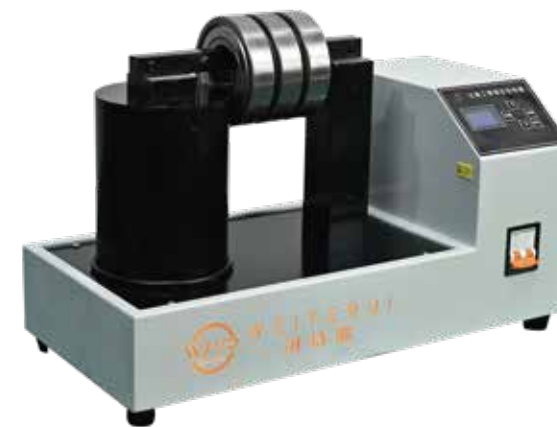
- Easy to use, just switch
- Lightweight making it easier to move around
- Reliable and flexible

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
Automatic Demagnetization	<2A/cm
Bore Size Range	20-120mm
Max. Outer Size	260mm
Heater Weight	3Kg



## INDUCTION HEATERS

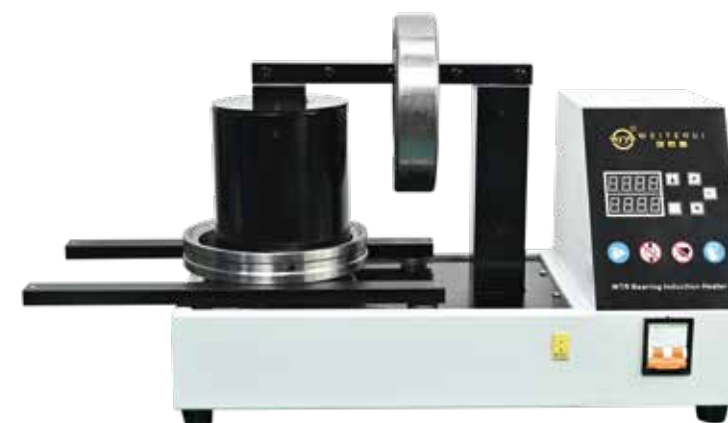
### WTR-SIH Series



WTR-SIH 2.2



WTR-SIH 2.5



WTR-SIH 3.6 & WTR-SIH 5.0



WTR-SIH 8.0

## INDUCTION HEATERS

### WTR-SIH 2.2



20  
min. ID  $\Phi$  mm

400  
max. OD  $\Phi$  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
- Single phase (1 live wire, 1 neutral wire, 1 ground wire)

Type	WTR-SIH 2.2
Power KVA	2.2
Voltage/Amp Standard	220V-230V/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
4 yokes included	(14x14x265, 20x20x265, 28x28x265, 45x45x265) (mm) only request

## INDUCTION HEATERS

### WTR-SIH 2.5



15  
min. ID  $\Phi$  mm

220  
max. OD  $\Phi$  mm

100  
max. width mm

12  
max. bearing weight kg

#### WTR-SIH 2.5

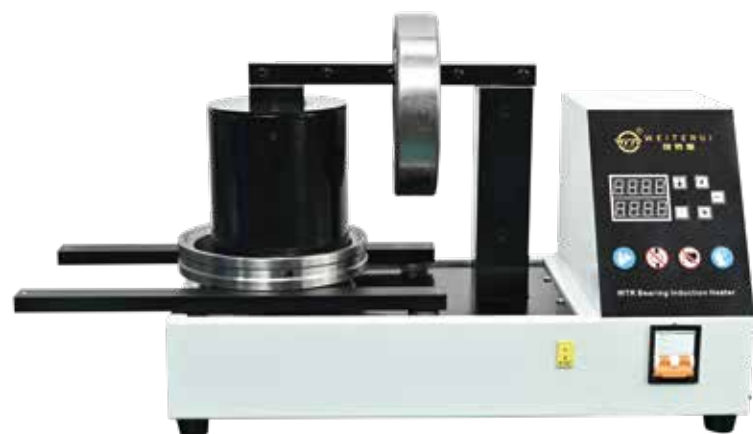
- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- Single phase (1 live wire, 1 neutral wire, 1 ground wire)

Type	WTR-SIH 2.5
Power KVA	2.5
Voltage/Amp Standard	220V-230V/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	No
Automatic Demagnetization	<2A/cm
Weight In kg	20kg
5 yokes included	(10x10x150, 14x14x150, 20x20x150, 30x30x150, 40x40x150) (mm) only request



## INDUCTION HEATERS

### WTR-SIH 3.6



20/140  
min. ID  $\Phi$  mm  
480  
max. OD  $\Phi$  mm  
175  
max. width mm  
50  
max. bearing weight kg

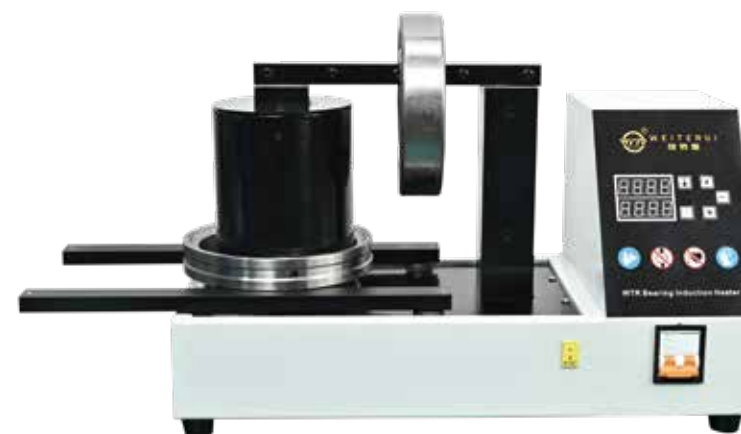
### WTR-SIH 3.6

- Portable induction heater
- Temperature and time measurement
- Digital display
- Ideal for use in workshops or on-site
- Single phase (1 live wire, 1 neutral wire, 1 ground wire)

Type	WTR-SIH 3.6
Power KVA	3.6
Voltage/Amp Standard	220V-230V/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
4 yokes included	(14x14x265,20x20x265,28x28x265,45x45x265) (mm) only request

## INDUCTION HEATERS

### WTR-SIH 5.0



20/150  
min. ID  $\Phi$  mm  
450  
max. OD  $\Phi$  mm  
160  
max. width mm  
90  
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
- Single phase (1 live wire, 1 neutral wire, 1 ground wire)

Type	WTR-SIH 5.0
Power KVA	5.0
Voltage/Amp Standard	220V-230V/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	40kg
4 yokes included	(14x14x295,20x20x295,28x28x295,45x45x295) (mm) only request

## INDUCTION HEATERS

### WTR-SIH 8.0



60/170  
min. ID  $\Phi$  mm  
530  
max. OD  $\Phi$  mm  
200  
max. width mm  
100  
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
- Two phases( 2 live wires, 1 ground wire)

Type	WTR-SIH 8.0
Power KVA	8.0
Voltage/Amp Standard	380V-400V/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
2 yokes included	(40x40x390,55x55x535)(mm) only request

## INDUCTION HEATERS

### WTR-MIH Series



WTR-MIH 500



WTR-MIH 1200



WTR-MIH 1600



## INDUCTION HEATERS

### WTR-MIH 500



20/150  
min. ID  $\Phi$  mm  
450  
max. OD  $\Phi$  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
- Single phase (1 live wire, 1 neutral wire, 1 ground wire)

Type	WTR-MIH 500
Power KVA	5
Voltage/Amp Standard	220V-230V/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
4 yokes included	(14x14x295,20x20x295,28x28x295,45x45x295) (mm) only request

## INDUCTION HEATERS

### WTR-MIH 1200



40/170  
min. ID  $\Phi$  mm  
530  
max. OD  $\Phi$  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
- Two phases (2 live wires, 1 ground wire)

Type	WTR-MIH 1200
Power KVA	12
Voltage/Amp Standard	380V-400V/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
3 yokes included	(28x28x390,40x40x390,55x55x535)(mm) only request



## INDUCTION HEATERS

### WTR-MIH 1600



80/210  
min. ID  $\Phi$  mm  
600  
max. OD  $\Phi$  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
- Two phases (2 live wires, 1 ground wire)
- The design is ergonomic

Type	WTR-MIH 1600
Power KVA	16
Voltage/Amp Standard	380V-400V/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
1 yoke included	(55x55x650mm) only request

## INDUCTION HEATERS

### WTR-BV200-3



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

#### WTR-BV200-3

- 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 $^{\circ}\text{C}$ )
- Electric control cabinet and heating host structure is integrated
- Two phases (2 live wires, 1 ground wire)

Type	WTR-BV200-3
Power KVA	20
Voltage/Amp Standard	380V-400V/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
1 yoke included	(55x55x650mm) only request

## 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

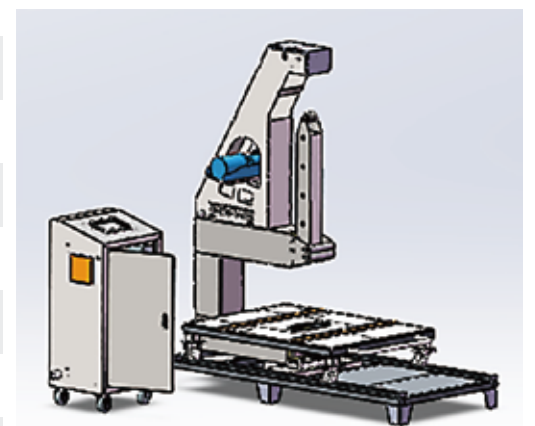


80  
min. ID  $\Phi$  mm  
700  
max. OD  $\Phi$  mm  
280  
max. width mm  
400  
max. bearing weight kg

### 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)
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- The LIH effect only works when the workpiece is in a horizontal position
- Two phases (2 live wires, 1 ground wire)

Type	WTR-LIH 1600
Power KVA	16
Voltage/Amp Standard	380V-400V/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
1 yoke included	55x55x600mm only request



Optional Crane

## INDUCTION HEATERS

### WTR-LIH 2500



80  
min. ID  $\Phi$  mm

800  
max. OD  $\Phi$  mm

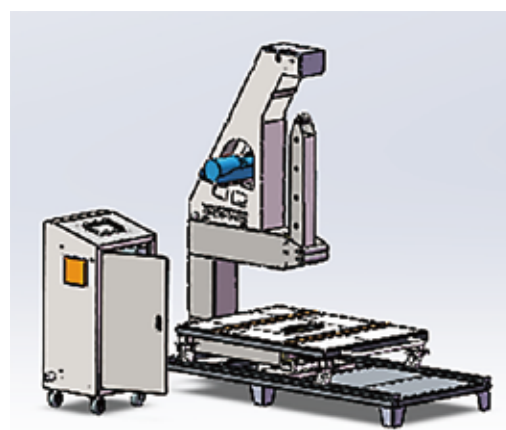
250  
max. width mm

500  
max. bearing weight kg

#### 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)
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- The LIH effect only works when the workpiece is in a horizontal position
- Two phases (2 live wires, 1 ground wire)

Type	WTR-LIH 2500
Power KVA	25
Voltage/Amp Standard	380V-400V/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
2 yokes included	(50x60x500, 60x75x500) (mm) only request



Optional Crane

## INDUCTION HEATERS

### WTR-LIH 3500



100  
min. ID  $\Phi$  mm

900  
max. OD  $\Phi$  mm

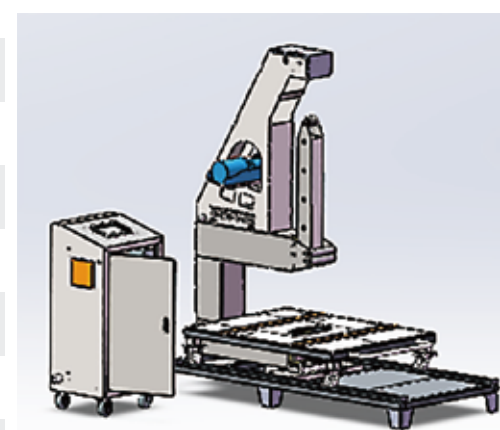
300  
max. width mm

700  
max. bearing weight kg

#### 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)
- Optional: electric crane
- Electric control cabinet and heating host structure: integrated or split, optional
- The LIH effect only works when the workpiece is in a horizontal position
- Two phases (2 live wires, 1 ground wire)

Type	WTR-LIH 3500
Power KVA	35
Voltage/Amp Standard	380V-400V/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
2 yokes included	(65x65x600, 80x80x600) (mm) only request



Optional Crane



## INDUCTION HEATERS WTR-LIH 5000

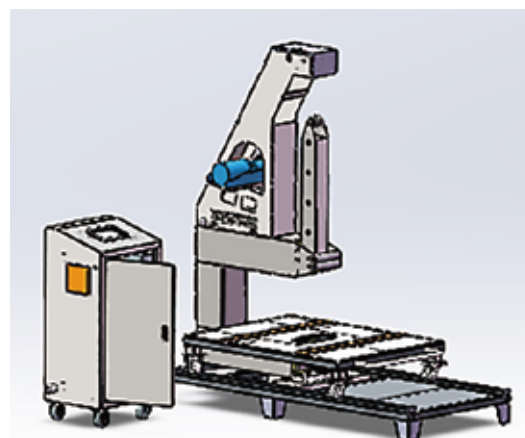


120  
min. ID  $\Phi$  mm  
1000  
max. OD  $\Phi$  mm  
300  
max. width mm  
1000  
max. bearing weight kg

### WTR-LIH 5000

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 1000kg
- 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 2 yokes, (80×80×680,100×100×680)(mm)only request
- Optional: electric crane
- Two phases (2 live wires,1 ground wire)

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



## INDUCTION HEATERS WTR-LIH 6500

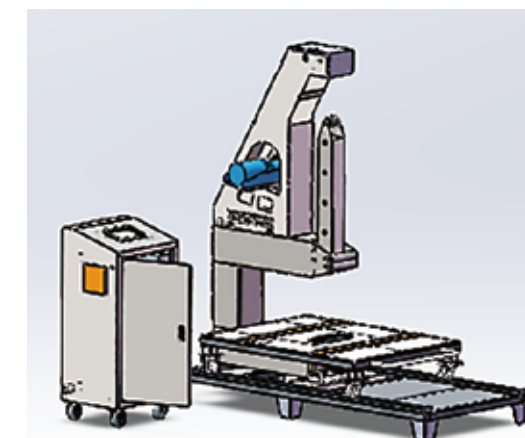


160  
min. ID  $\Phi$  mm  
1200  
max. OD  $\Phi$  mm  
300  
max. width mm  
1200  
max. bearing weight kg

### WTR-LIH 6500

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 1200kg
- 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 1 yoke, (110×110×740mm)only request
- Optional: electric crane
- Two phases (2 live wires,1 ground wire)

- 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

220-2000  
min. ID  $\Phi$  mm  
3000  
max. OD  $\Phi$  mm  
780  
max. width mm  
7000  
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-230V	220V-230V	220V-230V	220V-230V	380V-400V
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	75x65
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	50	90	100
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	560x350x350	60x370x410	560x350x350	540x480x420	670x440x630
Electric Crane For Yokes		-	-	-	-	-
Mobile		-	-	-	-	Optional

## TECHNICAL SPECIFICATIONS

### Movable Type



MODEL		WTR-MIH500	WTR-MIH1200	WTR-MIH1600
Power/kVA		5	12	16
Voltage		220V-230V	380V-400V	380V-400V
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		50x50	75x65	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		0-999sec	0-999sec	0-999sec
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	800x430x980	880x460x940	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-400V	380V-400V	380V-400V	380V-400V
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	85x75	75x85	105x80	100x100
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
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	0-9999sec	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 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
Electric Crane For Yokes	-	Optional	Optional	Optional

## TECHNICAL SPECIFICATIONS

Large Size Type ( Horizontal)



MODEL	WTR-LIH5000	WTR-LIH6500
Power/kVA	50	65
Voltage	380V-400V	380V-400V
Frequency/hz	50/60	50/60
Current/A	132A	170A
Power Cable lengths/m	3	3
Pole Area/mm	115x115	130x120
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
Max. Weight Of the Bearing/Kgs	1000	1200
Control Methods Temperature Control	0-300℃	0-300℃
Control Methods Time Control	0-9999sec	0-9999sec
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 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
Electric Crane For Yokes	Optional	Optional

## INDUCTION HEATERS

### WTR-C Series



WTR-C-1

WTR-C-2

- Safe and easy removal within just 2 minutes

### 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 performance and safe operation.
- 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.

## 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
FC5678220	φ312×220	50	380V	130	120"	130"	120
FC6084240	φ332×240	50	380V	140	120"	130"	120
FC6490240	φ355×240	50	380V	140	120"	130"	120
FC6890250	φ371×250	50	380V	140	120"	130"	120
FCD6896350	φ378×175	50	380V	140	120"	130"	120
FCDP130180650	φ704×325	50	380V	170	15'	16'	130
FCDP146206750	φ809×375	50	380V	180	15'	20'	130
FCDP160216700	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 Heaters - Medium-Frequency



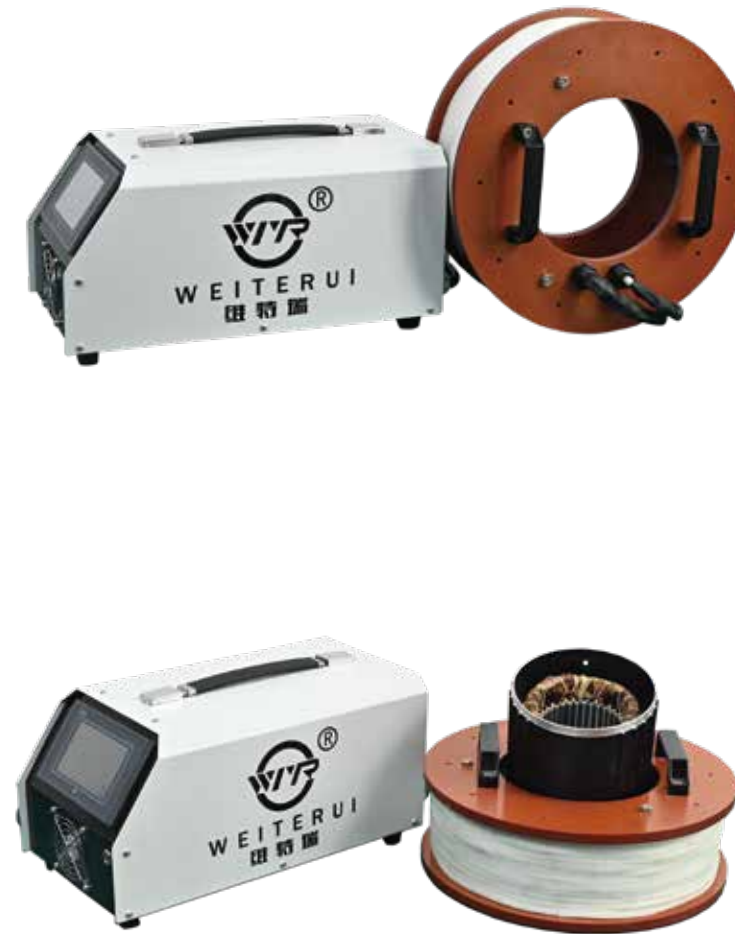
To be used for:  
Bearings  
Labyrinth seals  
Bearing rings  
Bearing housings  
Gear wheels  
Rollers  
Tubes  
Bushings  
Couplings  
Train wheels/train wheel tyres  
Stator housings

#### 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 ergonomics interface
- ✓ Generators are supportable from 5 to 200 kW
- ✓ Suitable for production and maintenance applications

## 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
- Choice between fixed and flexible inductors
- Full digital precision control: IGBT+DSP inductors





## INDUCTION HEATERS

### WTR-MF Series



10/20/30/40/60  
power kw

7"  
display inch

380V±10% or other  
customized

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
- Three phases ( 3 live wires, 1 neutral wire, 1 ground wire)

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

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

- Compact design with 10" display
- User-friendly touchscreen operation
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurement
- Choice between fixed and flexible inductors
- Full digital precision control: IGBT+DSP
- Three phases ( 3 live wires, 1 neutral wire, 1 ground wire)

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
Forced Air Cooling	Yes	Yes	Yes
Power Cable (YC series flexible cord)	3core 4mm <sup>2</sup>	380V/3core 6mm <sup>2</sup> +2core 4mm <sup>2</sup>	3core 10mm <sup>2</sup> +2core 6mm <sup>2</sup>
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	445x230x230	747.5x346x456.5	747.5x346x456.5

## TECHNICAL SPECIFICATIONS

### Mounting&Dismouting



MODEL	WTR-MF30-BE	WTR-MF40-BE	WTR-MF60-BE
Forced Air Cooling	Yes	Yes	Yes
Power Cable (YC series flexible cord)	3core 10mm <sup>2</sup> +2core 6mm <sup>2</sup>	3core 16mm <sup>2</sup> +2core 10mm <sup>2</sup>	3core 25mm <sup>2</sup> +2core 16mm <sup>2</sup>
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%	≥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-MF100-BE	WTR-MF120-BE
Forced Air Cooling	Yes	Yes	Yes
Power Cable (YC series flexible cord)	3core 35mm <sup>2</sup> +2core 16mm <sup>2</sup>	3core 50mm <sup>2</sup> +2core 25mm <sup>2</sup>	3core 50mm <sup>2</sup> +2core 25mm <sup>2</sup>
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 16mm
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-MF200-BE
Forced Air Cooling	Yes	Yes
Power Cable (YC series flexible cord)	3core 70mm <sup>2</sup> +2core 35mm <sup>2</sup>	3core 95mm <sup>2</sup> +2core 35mm <sup>2</sup>
Rated Power	160KW	200KW
Rated Voltage	380 V±10%/70-60hz	380 V±10%/95-60hz
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 multifunctional 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.











