INDUCTION HEATERS

BETEX iDuctor – hand tool

The ultimate tool for flameless heating
The BETEX iDuctor is a professional type of induction hand tool. All sorts of metal parts, such as transmission parts, bearing housings, bolts, nuts, pipes and small surfaces can be heated locally. Thanks to the precise heating, the surroundings retain a normal temperature. As a result, stuck parts will expand and loosen. Also suitable for removing decals and coating layers.

Advantages
- ✓ Ergonomic design
- ✓ Time savings
- ✓ Cost savings
- ✓ Convenient
- ✓ Can be operated with one hand
- ✓ No open flames
- ✓ Safe to use
- ✓ Versatile
- ✓ Suitable for difficult to access locations
- ✓ Maintenance free

Supplied with case

Both devices are supplied in a handy PE case with a 2-mtr flexible inductor and heat-resistant gloves (250°C).

BETEX iDuctor 1 – 1200W

This is an ideal solution for stuck nuts, bolts, etc., where often a conventional blow torch or grinder is used. Using a blow torch with open flames entails some form of risk and may cause pollution. A grinder can spark and cause damage to the area surrounding the part. Workplaces become safer, cleaner and more efficient with the BETEX iDuctor 1.

BETEX iDuctor 2 – 2300W

The only induction hand tool on the market with an output of no less than 2300 Watts. Using the BETEX iDuctor 2 you can heat larger and heavier workpieces even faster. No open flames. Considerable time savings.





	Art. no	Description	Art. no	Description
	231101	iDuctor 1, 230V CE	231301	iDuctor 2, 230V CE*
	231102	iDuctor 1, 120V CE, incl. transformer	231302	iDuctor 2, 120V CE, incl. transformer*
	231103	iDuctor 1, c(UL)us 120V, incl. transformer		
Voltage/Amp/Hz		230V/6A, 50/60Hz		230V/12A, 50/60Hz
Power		1200W		2300W
Thermal protection		Yes		Yes
Error message		Yes		Yes
Cooling fan		Yes		Yes
Microprocessor controlled, automatic power control in case of overload or overheating		Yes		Yes
LED lighting		Yes		Yes

Optional

- Set of 9 inductors, consisting of 8 induction coils with min/max inner diameter: 18-52 mm (bolt sizes M8-M30) and 1 U-inductor, inner diameter 160 mm; easy to exchange
- Flexible inductor for BETEX iDuctor 1: 1.1 meters
- Flexible inductor for BETEX iDuctor 2: 2.5, 3, 3.5 meters
- ID pad for localised heating of surfaces, removal of decals, adhesives and coatings
- Heat-resistant gloves up to 300°C / 572 °F

	Art. no	Inductor diameter / length mm	Temp. isolation
iDuctor 1			
Inductor 1.1 mtr	231202	3.5 / 1100	650°C
Inductor 2.0 mtr	231203	3.5 / 2000	650°C
ID-pad	231205	3.5 / -	250°C
Inductor set 9 pcs.	231204	3.5 / -	250°C
iDuctor 2			
Inductor 2.0 mtr	231203	3.5 / 2000	650°C
Inductor 2.5 mtr	231217	3.5 / 2500	650°C
Inductor 3.0 mtr	231218	3.5 / 3000	650°C
Inductor 2.5 mtr	231219	3.5 / 3500	650°C
ID-pad	231205	3.5 / -	250°C
Inductor set 9 pcs.	231304	3.5 / -	250°C

Inductor sets consist of:
BETEX iDuctor 1 – Induction coils:
M30, M24, M20, M16, M12, M10, M08, (with a 3.5-mm winding), U-coil

BETEX iDuctor 2 – Induction coils:
M30, M24, M20, M16, M12, M10, M08*, (with a 3.5-mm* or 5.5-mm winding), U-coil*

INDUCTION HEATERS – LIGHTWEIGHT: 7 KG

BETEX 24 XLDi

0
min. ID Ø mm

180
max. OD Ø mm

50
max. width mm

10
max. bearing weight kg

BETEX 24 XLDi

- Portable induction heater, weighs as little as 7 kg
- Single temperature measurement
- Digital display
- Ideal for use in workshops or on-site
- No yokes necessary

Read more about the advantages of induction heaters on page 6.

Type	BETEX XLDi
Power	1200W
Voltage/Amp standard	230V/16A
Frequency Hz	50-60
Temperature control	Yes
Time control	Yes
Max. temperature °C / °F	150 °C / 302 °F
Max. time range	0-45 min.
Temperature hold	Yes
Automatic demagnetization	<2A/cm
Weight in kg	7

See page 27 for detailed technical specifications.

INDUCTION HEATERS – PORTABLE

BETEX BLF 200 portable

10
min. ID Ø mm

240
max. OD Ø mm

120
max. width mm

20
max. bearing weight kg

BASIC
SERIES

BETEX BLF 200

- Portable induction heater
- Single temperature measurement
- Digital display
- Ideal for use in workshops or on-site
- 5 yokes included

Read more about the advantages of induction heaters on page 6.

Type	BETEX BLF 200
Power 230V	3.0 kVA
Power 120V	1.5 kVA
Voltage/Amp standard	230V/16A
Voltage/Amp optional	120V/15A
Frequency Hz	50-60
5 yokes included, mm	Ø 7, 10, 14, 20, 40
Temperature check	Yes
Time check	Yes
Max. temperature °C / °F	150 °C / 302 °F
Max. time range	0-45 min.
Temperature hold	Yes
Automatic demagnetising	<2A/cm
Weight kg (incl. yokes)	21

See page 27 for detailed technical specifications.

INDUCTION HEATERS

BETEX BLF 201 & SLF 301

10/65
min. ID Ø mm

400
max. OD Ø mm

120
max. width mm

50
max. bearing weight kg

BASIC
SERIES

BETEX BLF 201

- Portable induction heater
- Single temperature measurement
- Digital display
- 3 yokes included.

Read more about the advantages of induction heaters on page 6.

Type	BETEX BLF 201 BASIC	BETEX SLF 301 SMART
Power 230V	3.0 kVA	3.0 kVA
Power 120V	1.5 kVA	1.5 kVA
Voltage/Amp standard	230V/13A	230V/13A
Voltage/Amp optional	120V/13A	120V/13A
Frequency Hz	50-60	50-60
Log functionality	No	Yes
Magnetic probe	1	2
Delta-T ΔT	No	Yes
3 yokes included, mm	Ø 7, 14, 40x50	Ø 7, 14, 40x50
Temperature check	Yes	Yes ΔT
Time control	Yes	Yes ΔT
Time or temperature control	No	Yes ΔT
Temperature and speed control	No	Yes ΔT
Max. temperature °C / °F	240 °C / 464 °F	240 °C / 464 °F
Max. time range	0-45 min.	0-99 min.
Temperature hold	Yes	Yes
Automatic demagnetization	<2A/cm	<2A/cm
Weight kg (excl. yokes)	21	21

See page 27 for detailed technical specifications.

ΔT
Delta T

10/65
min. ID Ø mm

400
max. OD Ø mm

120
max. width mm

50
max. bearing weight kg

SMART
SERIES

BETEX SLF 301

- Portable induction heater
- Double temperature measurement ΔT
- Touchscreen with clear graph
- Log function and export to USB stick
- Create proof of work report
- Stress-free heating
- 3 yokes included

Use in combination with Impact fitting tool sets.

ΔT

For more control and stress-free mounting
Thanks to the Delta-T 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.

Log function and export to USB stick

Heating a hanging workpiece, for small bores

Recommended horizontal heating position

INDUCTION HEATERS

BETEX BLF 202 & SLF 302

30/72
min. ID Ø mm

500
max. OD Ø mm

180
max. width mm

100
max. bearing weight kg

BASIC
SERIES

BETEX BLF 202

- Benchtop model, heating capacity up to 100 kg
- With swivel arm
- Single temperature measurement
- Digital display
- 2 yokes included

Read more about the advantages of induction heaters on page 6.

Type	BETEX BLF 202 BASIC	BETEX SLF 302 SMART
Power 230V	3.7 kVA	3.7 kVA
Power 120V	1.8 kVA	1.8 kVA
Voltage/Amp standard	230V/16A	230V/16A
Voltage/Amp optional	120V/15A	120V/16A
Frequency Hz	50-60	50-60
Log functionality	No	Yes
Magnetic probe	1	2
Delta-T ΔT	No	Yes
2 yokes included, mm	Ø 20, 50	Ø 20, 50
Temperature control	Yes	Yes ΔT
Time control	Yes	Yes ΔT
Time or temperature control	No	Yes ΔT
Temperature and speed control	No	Yes ΔT
Max. temperature °C / °F	240 °C / 464 °F	240 °C / 464 °F
Max. time range	0-45 min.	0-99 min.
Temperature hold	Yes	Yes
Automatic demagnetization	<2A/cm	<2A/cm
Weight kg (excl. yokes)	31	31

See page 27 for detailed technical specifications.

ΔT
Delta T

30/72
min. ID Ø mm

500
max. OD Ø mm

180
max. width mm

100
max. bearing weight kg

SMART
SERIES

BETEX SLF 302

- Benchtop model, heating capacity up to 100 kg
- With swivel arm and 2 yokes included
- Double temperature measurement ΔT
- Touchscreen with clear graph
- Log function and export to USB stick
- Create proof of work report
- Stress-free heating

Use in combination with Impact fitting tool sets.

ΔT

For more control and stress-free mounting
Thanks to the Delta-T 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.

Log function and export to USB stick

Recommended horizontal heating position

Ergonomic swivel arm

INDUCTION HEATERS

BETEX BLF 203 & SLF 303

45/110
min. ID Ø mm

600
max. OD Ø mm

210
max. width mm

150
max. bearing weight kg

BASIC
SERIES

BETEX BLF 203

- Powerful benchtop model, heating capacity up to 150 kg
- With swivel arm
- Single temperature measurement
- Digital display
- 2 yokes included

Read more about the advantages of induction heaters on page 6.

Type	BETEX BLF 203 BASIC	BETEX SLF 303 SMART
Power 230V	3.7 kVA	3.7 kVA
Power 120V	No	No
Voltage/Amp standard	230V/16A	230V/16A
Voltage/Amp optional	No	No
Frequency Hz	50-60	50-60
Log functionality	No	Yes
Magnetic probe	1	2
Delta-T ΔT	No	Yes
2 yokes included, mm	Ø 30, 70x80	Ø 30, 70x80
Temperature control	Yes	Yes ΔT
Time control	Yes	Yes ΔT
Time or temperature control	No	Yes ΔT
Temperature and speed control	No	Yes ΔT
Max. temperature °C / °F	240 °C / 464 °F	240 °C / 464 °F
Max. time range	0-45 min.	0-99 min.
Temperature hold	Yes	Yes
Automatic demagnetization	<2A/cm	<2A/cm
Weight kg (excl. yokes)	52	52

See page 27 for detailed technical specifications.

ΔT
Delta T

45/110
min. ID Ø mm

600
max. OD Ø mm

210
max. width mm

150
max. bearing weight kg

SMART
SERIES

BETEX SLF 303

- Powerful benchtop model, heating capacity up to 150 kg
- With swivel arm and 2 yokes included
- Double temperature measurement ΔT
- Touchscreen with clear graph
- Log function and export to USB stick
- Create proof of work report
- Stress-free heating

Use in combination with Impact fitting tool sets.

ΔT

For more control and stress-free mounting
Thanks to the Delta-T 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.

Log function and export to USB stick

Recommended horizontal heating position

Ergonomic swivel arm

INDUCTION HEATERS – TURBO

BETEX 40 RSD & 40 RSDm TURBO

30/160
min. ID Ø mm

790
max. OD Ø mm

315
max. width mm

350
max. bearing weight kg

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

BETEX 40 RSD TURBO

- Powerful benchtop model, heating capacity up to 350kg
- With swivel arm
- Suitable for horizontal and vertical heating
- Electronically controlled power regulation
- Acoustic signal at the end of each heating cycle
- Push buttons for easy operation
- Digital display
- Including magnetic sensor up to 240°C / 464 °F (optionally up to 350°C / 622 °F)
- Automatic power reduction
- Yokes: selection of 5 sizes
- Mobile version BETEX 40 RSDm
- **Voltages: 400V, 480V, 500V and 600V**

Read more about the advantages of induction heaters on page 6.

Type	BETEX 40 RSD and RSDm (mobile) TURBO
Power	8 kVA
Voltage/Amp standard	2 ~ 400V/20A
Frequency Hz	50-60
Temperature control	Yes
Time control	Yes
Max. temperature °C / °F	240 °C / 464 °F (Optional 350 °C / 662 °F)
Max. time range	0-60 min.
Temperature hold	Yes
Automatic demagnetization	<2A/cm
Weight in kg	97 (RSD) 160 (RSDm)

See page 28 for detailed technical specifications.

30/160
min. ID Ø mm

790
max. OD Ø mm

315
max. width mm

350
max. bearing weight kg

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

BETEX 40 RSDm TURBO – Mobile version

Read more about the advantages of induction heaters on page 6.

Folding operating panel

INDUCTION HEATERS – STANDARD

BETEX 38 ZFD

30
min. ID Ø mm

720
max. OD Ø mm

340
max. width mm

300
max. bearing weight kg

BETEX 38 ZFD

- Mobile heater with heating capacity up to 300 kg
- With swivel arm
- Suitable for horizontal and vertical heating
- Electronically controlled power regulation
- Acoustic signal at the end of each heating cycle
- Push buttons for easy operation
- Digital display
- Including magnetic sensor up to 240°C (optionally up to 350°C)
- Automatic power reduction
- Yokes: selection of 5 sizes
- **Voltages: 400V, 480V, 500V and 600V**

Read more about the advantages of induction heaters on page 6.

Ergonomic swivel arm

Type	BETEX 38 ZFD
Power	12 kVA
Voltage/Amp standard	2 ~ 400V/30A
Frequency Hz	50-60
Temperature control	Yes
Time control	Yes
Max. temperature °C / °F	240 °C / 464 °F (Optional 350 °C / 662 °F)
Max. time range	0-99 min.
Temperature control	Yes
Automatic demagnetization	<2A/cm
Weight in kg	125

See page 28 for detailed technical specifications.

Folding operating panel

INDUCTION HEATERS – TURBO

BETEX 40 RMD TURBO

60/175
min. ID Ø mm

920
max. OD Ø mm

365
max. width mm

600
max. bearing weight kg

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

BETEX 40 RMD TURBO

- Mobile heater with heating capacity up to 600kg
- Suitable for horizontal and vertical heating
- With swivel arm
- Electronically controlled power regulation
- Acoustic signal at the end of each heating cycle
- Push buttons for easy operation
- Digital display
- Including magnetic sensor up to 240°C / 464 °F (optionally up to 350°C / 622 °F)
- Yokes: selection of 4 sizes
- Automatic power reduction
- Including fixed or adjustable supports for maximum support
- **Voltages: 400V, 480V, 500V and 600V**

Read more about the advantages of induction heaters on page 6.

Type	BETEX 40 RMD TURBO
Power	12 kVA
Voltage/Amp standard	2 ~ 400V/30A
Frequency Hz	50-60
Temperature control	Yes
Time control	Yes
Max. temperature °C / °F	240 °C / 464 °F (Optional 350 °C / 662 °F)
Max. time range	0-99 min.
Temperature hold	Yes
Automatic demagnetization	<2A/cm
Weight adjustable supports kg	205
Weight fixed supports kg	185

See page 28 for detailed technical specifications.

Folding operating panel

INDUCTION HEATERS – STANDARD

BETEX SUPER & SUPER DL-700

BETEX SUPER

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacity up to 600 kg
- Electronically controlled power regulation
- Push buttons for easy operation
- Digital display
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 240°C (optionally up to 350°C)
- Including 1 yoke, 100 mm
- **Voltages: 400V, 480V, 500V and 600V**

Optional:
- Electric crane

Read more about the advantages of induction heaters on page 6.

BETEX SUPER

60
min. ID Ø mm

900
max. OD Ø mm

400
max. width mm

600
max. bearing weight kg

BETEX SUPER DL-700

60
min. ID Ø mm

1300
max. OD Ø mm

700
max. width mm

600
max. bearing weight kg

Type	BETEX SUPER / DL-700
Power	24 kVA
Voltage/Amp standard*	2 ~ 400V/60A
Frequency Hz	50-60
Temperature control	Yes
Time control	Yes
Max. temperature °C / °F	240 °C / 464 °F (Optional 350 °C / 662 °F)
Max. time range	0-99 min.
Temperature hold	Yes
Automatic demagnetization	<2A/cm
Weight in kg	220/320

** See page 29 for detailed technical specifications and other voltages.*

INDUCTION HEATERS – TURBO

BETEX SUPER TURBO

175/200
min. ID Ø mm

1700
max. OD Ø mm

750
max. width mm

1200
max. bearing weight kg

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

BETEX SUPER TURBO

- Heavy-duty heaters for special applications, in maintenance and production, with adjustable yoke
- Heating capacity up to 1200kg
- Electronically controlled power regulation
- Push buttons for easy operation
- Digital display
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 240°C (optionally up to 350°C)
- Including 1 yoke, 100 mm
- **Voltages: 400V, 480V, 500V and 600V**

Read more about the advantages of induction heaters on page 6.

Type	BETEX SUPER TURBO
Power	24 kVA
Voltage/Amp standard*	2 ~ 400V/60A
Frequency Hz	50-60
Temperature control	Yes
Time control	Yes
Max. temperature °C / °F	240 °C / 464 °F (Optional 350 °C / 662 °F)
Max. time range	0-99 min.
Temperature hold	Yes
Automatic demagnetization	<2A/cm
Weight in kg	450 (incl. yoke)

** See page 29 for detailed technical specifications and other voltages.*

Extendable yoke

INDUCTION HEATERS – STANDARD

BETEX GIANT, 40, 100 kVA

85/215
min. ID Ø mm

1400-2500
max. OD Ø mm

440-990
max. width mm

1500-3500
max. bearing weight kg

Multiple types available
Various capacities and designs are possible. See page 29 for detailed technical specifications.

BETEX GIANT

- Heavy-duty heaters for special applications, in maintenance and production
- Heating capacities from 1500 to 3500 kg
- Electronically controlled power regulation
- Push buttons for easy operation
- Digital display
- Acoustic signal at the end of each heating cycle
- Including magnetic sensor up to 240°C (optionally up to 350°C)
- Yokes: see technical specifications

Optional:
- Electric crane

Read more about the advantages of induction heaters on page 6.

BETEX GIANT, 100 kVA

Optional crane

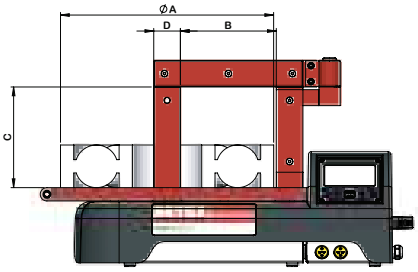
TECHNICAL SPECIFICATIONS

Type	24 XLDi Portable	BLF 200 Portable	BLF 201	BLF 202	BLF 203	SLF 301 ΔT	SLF 302 ΔT	SLF 303 ΔT
Standard power 230V	1200kW	3.0 kVA	3.7 kVA	3.7 kVA	3.7 kVA	3.0 kVA	3.7 kVA	3.7 kVA
Optional power 120V	1200kW	1.5 kVA	1.5 kVA	1.8 kVA		1.5 kVA	1.8 kVA	
Voltage/Amp*: standard	230V/16A	230V/16A	230V/16A	230V/16A	230V/16A	230V/13A	230V/16A	230V/16A
Voltage/Amp*: optional	120V/15A	120V/15A	120V/15A	120V/15A		120V/13A	120V/15A	
Frequency Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Yokes, standard mm	-	7, 10, 14, 20, 40	7, 14, 40x50	20, 50	30, 70x80	7, 14, 40x50	20, 50	30, 70x80
Swivel arm	-	No	No	Yes	Yes	No	Yes	Yes
Max. workpiece weight kg (±)	10	20	50	100	150	50	100	150
Min. ID Ø mm, vertical/horizontal	-	10	10/65	30/72	45/110	10/65	30/72	45/110
Max. OD Ø mm (A)	180	240	400	500	600	400	500	600
Max. width mm (B)	-	120	120	180	210	120	180	210
Pole height mm (C)	-	135	130	185	205	130	185	205
Pole diameter mm (D)	40	40x40	40x50	30x50	70x80	40x50	30x50	70x80
Max. width at horizontal heating mm	-	-	125	180	200	125	180	200
Display	Digital	Digital	Digital	Digital	Digital	Touch	Touch	Touch
Log function	No	No	No	No	No	Yes	Yes	Yes
Magnetic probe	1	1	1	1	1	2	2	2
Delta-T ΔT	No	No	No	No	No	Yes	Yes	Yes
Temperature control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time or temperature control	No	No	No	No	No	Yes	Yes	Yes
Temperature and speed control	No	No	No	No	No	Yes	Yes	Yes
Max. temperature °C / °F	150 °C / 302 °F	150 °C / 302 °F	240 °C / 464 °F	240 °C / 464 °F	240 °C / 464 °F	240 °C / 464 °F	240 °C / 464 °F	240 °C / 464 °F
Max. time range	0-45 min.	0-45 min.	0-45 min.	0-45 min.	0-45 min.	0-99 min.	0-99 min.	0-99 min.
Acoustic signal at the end of each heating cycle	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Error message	Message	Message	Message	Message	Message	Report	Report	Report
Temperature hold	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Automatic power reduction	No	No	Yes	Yes	Only in temp. & speed mode	Only in temp. & speed mode	Only in temp. & speed mode	Only in temp. & speed mode
Aut. demagnetization, <2A/cm²	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Thermal electronics protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Support for horizontal heating	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions mm (lxwxh)	460x240x280	460x240x280	600x226x272	702x256x392	788x315x456	600x226x272	702x256x392	477x315x456
Heater weight kg excl. yokes	7	21 (incl. yokes)	21	31	52	21	31	52
Mobile	-	-	-	-	-	-	-	-

We reserve the right to alter technical specifications without prior notice.

Heating times are subject to the relationship between:

- Minimum bore and maximum outside diameter, width and weight
- Required temperature and material type
- Available power



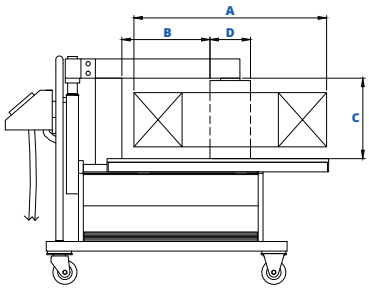
TECHNICAL SPECIFICATIONS

				
Type	**38ESD**	**40RSD and RSDm (mobile) TURBO**	**38ZFD**	**40RMD TURBO**
Standard power 230V	8 kVA	8 kVA	12 kVA	12 kVA
Voltage/Amp*: standard	2 ~ 400V/20A	2 ~ 400V/20A	2 ~ 400V/30A	2 ~ 400V/30A
Voltage/Amp*: optional	2 ~ 500V/16A 2 ~ 480V/16A 2 ~ 600V/14A	2 ~ 500V/16A 2 ~ 480V/16A 2 ~ 600V/14A	2 ~ 500V/24A 2 ~ 480V/24A 2 ~ 600V/20A	2 ~ 500V/24A 2 ~ 480V/24A 2 ~ 600V/20A
Frequency Hz	50/60	50/60	50/60	50/60
Yokes, standard mm / set 1	30, 70	Optional	Optional	Optional
Yokes, standard mm / set 2	20, 30, 70	20, 30, 40, 60, 80	20, 30, 40, 60, 80	40, 60, 80
Swivel arm	Yes	Yes	Yes	Yes
Max. workpiece weight kg (±)	150	350	300	600
Min. ID Ø mm	30/Ø110	30/Ø160	30/Ø130	60/Ø175
Max. OD Ø mm (A)	500/720 *1	790	720/1080 *1	920
Max. width mm (B)	200	315	340	365
Pole height mm (C)	210	320	340	305
Pole diameter mm (D)	70	Ø160	80	Ø175
Max. width at horizontal heating mm	180	280	290	305 telescopic supports 320 fixed supports
Display	Digital	Digital	Digital	Digital
Log function	No	No	No	No
Magnetic probe	1	1	1	1
Delta-T ΔT	No	No	No	No
Temperature control	Yes	Yes	Yes	Yes
Time control	Yes	Yes	Yes	Yes
Max. temperature °C / °F	240 °C *2 / 464 °F *2	240 °C *2 / 464 °F *2	240 °C *2 / 464 °F *2	240 °C *2 / 464 °F *2
Max. time range	0-60 min.	0-60 min.	0-99 min.	0-99 min.
Acoustic signal at the end of each heating cycle	Yes	Yes	Yes	Yes
Error message	Yes	Yes	Yes	Yes
Temperature hold	Yes	Yes	Yes	Yes
Automatic power reduction	Yes	Yes	Yes	Yes
Aut. demagnetization, <2A/cm	Yes	Yes	Yes	Yes
Thermal electronics protection	Yes	Yes	Yes	Yes
Support for horizontal heating	Yes	Yes	Yes	Yes
Dimensions mm (lxwxh)	630x365x470	1200x500x650 1200x640x1000/M	1200x640x1000	1200x640x1000
Heater weight kg excl. yokes	53	97 (RSD) 160 (RSDm)	125	205 (telescopic supports) 185 (fixed supports)
Electric crane for yokes	-	-	-	-
Alarm signal	-	-	-	-
Mobile	-	Yes (RSDm)	Yes	Yes

We reserve the right to alter technical specifications without prior notice.

**1 With adaptor yokes, only available for the Standard models*
**2 On request: 350°C, with heavy-duty sensor and extra isolation*
**3 Subject to power and design*

On request: other voltage/amperage/higher temperature up to 480°C

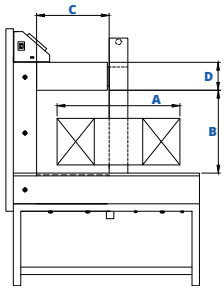





Type	SUPER Standard / DL-700	SUPER TURBO	GIANT Standard / DL-700	GIANT DL-700 / DL-1000
Standard power 230V	24 kVA	24 kVA	40 kVA	100 kVA
Voltage/Amp*: standard	2 ~ 400V/60A	2 ~ 400V/60A	2 ~ 400V/100A	2 ~ 400V/120, 250A
Voltage/Amp*: optional	2 ~ 500V/48A 2 ~ 480V/48A 2 ~ 600V/40A	2 ~ 500V/48A 2 ~ 480V/48A 2 ~ 600V/40A	2 ~ 500V/80A 2 ~ 480V/80A 2 ~ 600V/65A	2 ~ 500V/100, 200A 2 ~ 480V/80A 2 ~ 600V/65A
Frequency Hz	50/60	50/60	50/60	50/60
Yokes, standard mm / set 1	Optional	Includes	Optional	Optional
Yokes, standard mm / set 2	40, 50, 60, 80, 100 *3	1 yoke	60, 80, 100, 150 *3	60, 80, 100, 150, 200 *3
Swivel arm	-	-	-	-
Max. workpiece weight kg (±)	600	1200	1500/2000 *3	3000/3500 *3
Min. ID Ø mm	60/85 *3	175/Ø200	85 *3	85/215 *3
Max. OD Ø mm (A)	900/1300 *3	1700	1400/1700 *3	1700/2500 *3
Max. width mm (B)	400/700 *3	750	620/700 *3	700/900 *3
Pole height mm (C)	390	595	660/740 *3	740/1000 *3
Pole diameter mm (D)	170/180 *3	Ø200	150 *3	150/200 *3
Max. width at horizontal heating mm	390/690 *3	600	440/730 *3	730/990 *3
Display	Digital	Digital	Digital	Digital
Log function	No	No	No	No
Magnetic probe	1	1	1	1
Delta-T ΔT	No	No	No	No
Temperature control	Yes	Yes	Yes	Yes
Time control	Yes	Yes	Yes	Yes
Max. temperature °C / °F	240/350 °C *2 / 464/662 °F *2	240/350 °C *2 / 464/662 °F *2	240/350 °C *2 / 464/662 °F *2	240/350 °C *2 / 464/662 °F *2
Max. time range	0-99 min.	0-99 min.	0-99 min.	0-99 min.
Acoustic signal at the end of each heating cycle	Yes	Yes	Yes	Yes
Error message	Yes	Yes	Yes	Yes
Temperature hold	Yes	Yes	Yes	Yes
Automatic power reduction	Yes	Yes	Yes	Yes
Aut. demagnetization, <2A/cm	Yes	Yes	Yes	Yes
Thermal electronics protection	Yes	Yes	Yes	Yes
Support for horizontal heating	Yes	Yes	Yes	Yes
Dimensions mm (lxwxh)	1000x500x1350 *3	1600x700x1300	1750x600x1470 *3	2150x900x2210 *3
Heater weight kg excl. yokes	220/320 *3	450 (incl. yoke)	660/800 *3	800/1700 *3
Electric crane for yokes	Optional	-	Optional	Optional
Alarm signal	Optional	Optional	Optional	Optional
Mobile	Optional	Optional	Optional	Optional

Heating times are subject to the relationship between:

- Minimum bore and maximum outside diameter, width and weight
- Required temperature and material type
- Available power



CUSTOM MADE

We build custom induction heaters

Why custom made?

Sometimes standard products do not suffice. We can engineer and manufacture solutions for your specific applications. We have many years of experience and numerous examples of custom projects. Our team looks forward to developing your product in consultation with you.

Fast and accurate heating

Induction heaters can be used immediately, preheating is not required. Local heating up to 300°C within seconds is possible. Users can work safely, cleanly and deliver high quality thanks to smart electronics. Whether it involves special parts or serial heating.

Whatever your requirements, induction heating enables you to achieve:

- ✓ A clean and safe workplace
- ✓ Improved productivity
- ✓ Lower production costs
- ✓ Efficient energy consumption

Advantages of custom induction heaters

Induction heaters are the ideal solution for safe heating of special parts or serial heating. In addition, induction heaters offer the following advantages:

- ✓ Can be used immediately, no preheating required
- ✓ Controlled heating, no loss of quality
- ✓ Fast, safe, clean, stress-free heating
- ✓ Environmentally friendly and durable
- ✓ Capacities and designs to the client's requirements
- ✓ Thanks to the application of low-frequency 50/60 Hz, the investment may be lower compared to medium-frequency or high-frequency solutions

A clean and safe workplace

Instead of blow torches, ovens or oil baths, induction offers you:

- Process control
- No (open) flames
- No polluting fumes
- No excessive noise
- No hot oil

Safety first!

Our customised products are used in lots of different industries:

- Chemical industry
- Steel industry
- Paper industry
- Gearbox factories
- Machine tool industry
- Transport sector
- MRO/OEM sector
- Wind energy sector
- Power plants
- Mining industry

BETEX Twin Heater
For simultaneous heating of 2 bearings in the Rail industry.

Temperature: 110°C
Time needed: 4 min.

BETEX 38 ESD
The pole of a standard heater is adapted to be able to heat special workpieces.

BETEX coil heaters
For heating various aluminium stator housings.

Temperature: 220°C
Time needed: 25 to 50 sec.

Custom made
This sandwich heater heats two aluminium parts simultaneously.

Thanks to induction heating, the time required is reduced by 50%, resulting in extremely fast heating.

Temperature: 220°C
Time needed: 20 sec. per 2 pieces

Custom made
Thanks to this coil heater, the heating time of a train wheel was reduced from 40 minutes to 16 minutes.

The outdated blow torches were discarded. This durable solution is safer, faster and offers complete control.

Temperature: 250°C
Time needed: 16 min.

Custom made
Coil heaters can be used to quickly heat aluminium housings prior to mounting. The heater heats 5 different sizes.

Temperature: 250°C
Time needed: 30 sec. to 4 min.

BETEX GIANT
Adapted for heating train wheels. The induction yoke is extendable.

Temperature: 240°C
Time needed: 27 min.

BETEX GIANT
Adapted for heating large stainless steel pipes (1100 kg), used in wind turbines.

Temperature: 270°C
Time needed: 3 hours

BETEX GIANT
Adapted for heating rails.

Temperature: 250°C
Time needed: 7 min.

INDUCTION HEATERS

BETEX MF Quick-Heaters – medium-frequency technology

Mounting, dismounting and preheating of metal components

Fast and/or controlled heating with ΔT

Thanks to medium-frequency technology, energy is transferred to the workpiece effectively, so it is heated easily and quickly. The BETEX MF Quick-Heater consists of a generator with a fixed or flexible inductor. Its compact dimensions make it easy to move.

BETEX MF Quick-Heaters result in time savings as they can be deployed very rapidly (fewer actions) and heat faster than conventional methods. Energy use is much more efficient thanks to its lower power consumption. One of the major advantages of this type of induction heater is that they are not limited to components with a cylindrical shape: flexible inductors can be wound around any size or shape.

Advantages of BETEX MF Quick-Heaters

- ✓ For mounting, dismounting and preheating
- ✓ Suitable for steel, cast iron, stainless steel and titanium
- ✓ Temperature and/or time controlled heating
- ✓ Double temperature measurement (ΔT monitoring)
- ✓ Low connection power (32/63 Amp)
- ✓ Generators are adjustable from 2.5 to 22/44 kW
- ✓ Easy to use and flexible
- ✓ Suitable for production and maintenance applications
- ✓ No residual magnetism
- ✓ No fire hazard due to open flames
- ✓ No noise, fumes or smoke nuisance
- ✓ Air-cooled: no water cooling needed
- ✓ Because the work is carried out damage-free, expensive components can be reused

To be used for

- Bearings
- Labyrinth seals
- Bearing rings
- Bearing housings
- Gear wheels
- Rollers
- Tubes
- Bushings
- Couplings
- Train wheels/train wheel tyres
- Extruders
- Stator housings

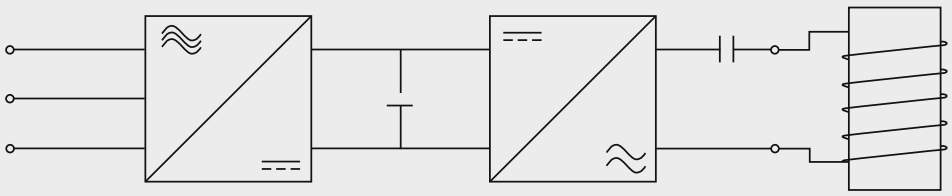
The BETEX MF Quick-Heater

This heater consists of a generator and one or more inductors. The generator is designed for the connection of inductors used for heating ferromagnetic workpieces. Suitable materials include iron, steel, stainless steel, titanium and certain bronze alloys. The maximum capacity workpieces can be subjected to is 22 kW or 44 kW, depending on the type of heater.

Operating principle

The three-phase voltage is rectified and smoothed. This rectified voltage is then converted by means of an inverter into an AC voltage with a frequency between 10 and 25 kHz. The power is then applied to the workpiece magnetically via a ‘resonance capacitor’ using an inductor (coil).

Since the frequency is relatively high, the penetration depth of the magnetic field is not too large, so that only the outer layer of the workpiece is heated. This principle makes heating using medium-frequency particularly suitable for dismantling purposes, such as removing bearing rings from shafts.



Flexible inductors
Flexible inductors are a multifunctional solution for various shapes or sizes. They can be used in or around a workpiece.

Heating a bore for bearing or shaft mounting

Heating a coupling for dismounting

Fixed inductors
Fixed inductors are used for serial work.

Heating bearing rings for dismounting

Heating labyrinth rings for dismounting

Testing
For special applications, we can carry out tests in advance with components that the client provides for this purpose. If necessary, we can supply a customised application.

For standard applications, we have a large database with examples. We also use simulation programmes.

By supplying optimum solutions, we achieve significant savings. In fact, measurable savings are guaranteed simply by working damage-free and hence, being able to reuse the parts.

INDUCTION HEATERS

BETEX MF Quick-Heaters – medium-frequency technology

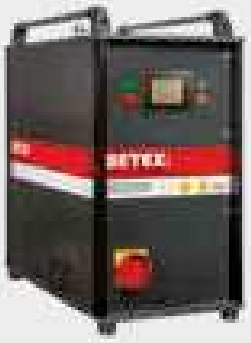
ΔT
Delta T

44 kW

22/44
power kW

3.5"
display inch

400/450/ 500/600
voltages V



22 kW

BETEX MF Quick-Heater 2.5

- Compact design with 3.5" display
- User-friendly touchscreen operation
- Choice of 2 generators: 22 or 44 kW
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurement (ΔT monitoring)
- Choice between fixed and flexible inductors

ΔT

For more control and stress-free mounting
Thanks to the Delta-T 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.

Magnetic holder
Optional: magnetic holders to secure the flexible inductors.

ΔT
Delta T

44 kW

22/44
power kW

7"
display inch

400/450/ 500/600
voltages V

22 kW

BETEX MF Quick-Heater 3.0

- Compact design with 7" display
- User-friendly touchscreen operation
- Choice of 2 generators: 22 or 44 kW
- Smart electronics ensure optimum operating frequency
- Adjustable power regulation
- Double temperature measurement (ΔT monitoring)
- Choice between fixed and flexible inductors

- Can heat according to preset temperature/time curve
- The heating process is displayed in a clear graph
- Create proof of work report
- Log function to save data or export it via a USB port

Which inductor?

For the MF Quick-Heater, choose a suitable inductor for your application. Request our product questionnaire for proper advice and a quotation.

Flexible inductor

Fixed inductor

Fixed inductor

Pin inductor

Fixed inductor

Table inductor

Sandwich table inductor

SMART inductor recognition
When a fixed inductor is connected to the generator for a second time, it will automatically select the correct settings. All you have to do is press START.

Bearing rings and labyrinth rings can be dismounted using custom inductors.

INDUCTION HEATERS

Medium-frequency projects

BETEX 3.0, 22 kW
Mounting of wheels in an elevator plant using pin inductors. For this client, custom inductors were made, with the required lengths and diameters.

BETEX 3.0, 22 kW
Dismounting in a steel factory, using a flexible inductor wrapped around a bearing ring.

Temperature: 200°C
Time needed: 17 min.

BETEX 3.0, 44 kW
Dismounting of a coupling at a gearbox repair company.

Temperature: 100°C
Time needed: 7 min.

BETEX 3.0, 22 kW
Preheating in preparation for laser cladding.

INDUCTION HEATERS

Medium-frequency heating methods

Fixed inductor around the workpiece

Energy input from outside to inside. For dismounting of, for example, bearing rings, labyrinth rings, pipes and rings.

Fixed inductor in the workpiece

Heating a bore for bearing or shaft mounting.

Fixed inductor in and around the workpiece

For stress-free mounting of a bearing, two coupled generators are used. Inner and outer ring are heated simultaneously.

Pin inductor in the workpiece

Heating a bore for example for bearing or shaft mounting.

Table inductor

Local preheating for laser cladding.

TECHNICAL SPECIFICATIONS

Medium-frequency 2.5

Type	MF Quick-Heater 2.5, 22kW	MF Quick-Heater 2.5, 44kW
Forced air cooling	Yes	Yes
Power	22kW	44kW
Frequency	10-25 kHz	10-25 kHz
Voltage/Amperage	3 ~ 400V/32A	3 ~ 400V/63A
Voltage/Amperage	3 ~ 450V/30A	3 ~ 450V/59A
Voltage/Amperage	3 ~ 500V/28A	3 ~ 500V/55A
Voltage/Amperage	3 ~ 600V/23A	3 ~ 600V/45A
Frequency	50/60Hz	50/60Hz
Temperature measurement	For type K thermocouple	For type K thermocouple
Accuracy	± 3.5°C / ± 38.2 °F	± 3.5°C / ± 38.2 °F
Inductor recognition	Yes	Yes
Temperature sensor	Yes, for max 300°C / 572 °F	Yes, for max 300°C / 572 °F
Extra thermocouple input	Yes	Yes
Dimensions of generator LxWxH	600 x 300 x 600 mm	600 x 650 x 580 mm
Weight of generator	46 kg	78 kg
Trolley	Optional	Optional
Operation:		
Dimensions display	3.5"	3.5"
Heat curve in display	Yes	Yes
Setpoint power	Via touchscreen	Via touchscreen
Setpoint temperature	Via touchscreen	Via touchscreen
Setpoint temperature curve	Yes	Yes
Setpoint timer	Via touchscreen	Via touchscreen
Selection operating mode	Via touchscreen	Via touchscreen
Digital readings temperature	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen
Digital readings time	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen
Digital readings power	Actual value on touchscreen	Actual value on touchscreen
Digital readings frequency	Actual value on touchscreen	Actual value on touchscreen
USB connection	No	No
Network connection	No	No
Heating log	No	No
Signaling by:		
Installation in operational state	Green flash light	Green flash light
Error message	Red continuous light / acoustic signal	Red continuous light / acoustic signal
End of heating cycle	Green continuous light / acoustic signal	Green continuous light / acoustic signal

Min. winding diameter flexible inductors 22kW		
Type m / °C	**Diameter cable**	**Min. winding diameter**
15/20/25/30m/180°C / 356 °F	Ø 12 mm	ca. 75 mm
15/20/25/30m/180°C / 356 °F	Ø 15 mm	ca. 100 mm
15/20/25/30m/300°C / 572 °F	Ø 20 mm	ca. 120 mm

Min. winding diameter flexible inductors 44kW		
Type m / °C	**Diameter cable**	**Min. winding diameter**
15/20/25/30m/180°C / 356 °F	Ø 19 mm	ca. 140 mm
15/20/25/30m/300°C / 572 °F	Ø 28 mm	ca. 220 mm

TECHNICAL SPECIFICATIONS

Medium-frequency 3.0


Type	MF Quick-Heater 3.0, 22kW	MF Quick-Heater 3.0, 44kW
Forced air cooling	Yes	Yes
Power	22kW	44kW
Frequency	10-25 kHz	10-25 kHz
Voltage/Amperage	3 ~ 400V/32A	3 ~ 400V/63A
Voltage/Amperage	3 ~ 450V/30A	3 ~ 450V/59A
Voltage/Amperage	3 ~ 500V/28A	3 ~ 500V/55A
Voltage/Amperage	3 ~ 600V/23A	3 ~ 600V/45A
Frequency	50/60Hz	50/60Hz
Temperature measurement	For type K thermocouple	For type K thermocouple
Accuracy	± 3.5°C / ± 38.2 °F	± 3.5°C / ± 38.2 °F
Inductor recognition	Yes	Yes
Temperature sensor	Yes, for max 300°C / 572 °F	Yes, for max 300°C / 572 °F
Extra thermocouple input	Yes	Yes
Dimensions of generator LxWxH	600 x 300 x 600 mm	600 x 650 x 580 mm
Weight of generator	46 kg	78 kg
Trolley	Optional	Optional
Operation		
Dimensions display	7"	7"
Heat curve in display	Yes	Yes
Setpoint power	Via touchscreen	Via touchscreen
Setpoint temperature	Via touchscreen	Via touchscreen
Setpoint temperature curve	Yes	Yes
Setpoint timer	Via touchscreen	Via touchscreen
Selection operating mode	Via touchscreen	Via touchscreen
Digital readings temperature	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen
Digital readings time	Setpoint and actual value on touchscreen	Setpoint and actual value on touchscreen
Digital readings power	Actual value on touchscreen	Actual value on touchscreen
Digital readings frequency	Actual value on touchscreen	Actual value on touchscreen
USB connection	Yes	Yes
Network connection	Yes	Yes
Heating log	Yes	Yes
Signaling by		
Installation in operational state	Light optional	Light optional
Error message	Acoustic signal / light optional	Acoustic signal / light optional
End of heating cycle	Acoustic signal	Acoustic signal