

MADE IN
HOLLAND



1978-2003

25
YEARS BEGA

*Simply
the best!*

INDUCTION HEATERS

HEATING WITHOUT FLAMES

BEGA STANDARD INDUCTION HEATERS

Type	BETEX 22 ELD	BETEX 22 ED	BETEX 22 ESD	BETEX 38 ESD	BETEX 38 ZFD	BETEX 38 ZFD	BETEX 40 RMD	BETEX SUPER	BETEX GIANT	BETEX GIANT Extra Large
Facility power	3.6 kVA	3.6 kVA	3.6 kVA	8 kVA	12 kVA	24 kVA	TURBO	24 kVA	40 kVA	95 kVA
Voltage/Amperage	120V/20A 230V/16A	120V/20A 230V/16A	120V/20A 230V/16A	400/450/500V 20A	400/450/500V 32A	400/450/500V 63A	400/450/500V 32A	400/450/500V 63A	400/450/500V 100A	400/450/500V 240A
Hz	50/60-Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Different voltage	-	-	-	230V	230V	-	-	-	-	-
Swivel arm	-	-	yes	yes	yes	yes	yes	-	-	-
Pole section □ mm	40	60	60	70	80	110x80	Ø 170	100	150	240
Max. weight ± kg	-	-	-	-	-	-	-	-	-	-
- bearings	15	35	35	125	250	350	550	600	1250	on request
- other parts	10	20	20	75	150	250	450	350	750	on request
Min. diameter mm, ID	15	15	15	30	30	30	60	85	85	145
Max. diameter mm, OD	210	340/480	340/480	480/720	700/1020	700/1020	920	900	1400	2500
Max. width mm	120	150	150	200	265	265	350	400	420	700
Pole height mm	130	140	140	210	310	320	305	390	660	750
Temperature control	-	-	-	-	-	-	-	-	-	-
- max reach	150°C	240/480°C	240/480°C	240/480°C	240/480°C	240/480°C	240/480°C	240/480°C	240/480°C	240/480°C
- magnetic probe	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
- digital display	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Time control	-	-	-	-	-	-	-	-	-	-
- max. reach	0-30 min.	0-45 min.	0-45 min.	0-60 min.	0-99 min.	0-99 min.	0-99 min.	0-99 min.	0-99 min.	0-99 min.
- digital display	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Sound signal	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Error report	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Temperature hold	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Power reduction	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Demagnetising <2A/cm	automatic	automatic	automatic	automatic	automatic	automatic	automatic	automatic	automatic	automatic
Thermal safety guard	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Dimensions mm (lxbxn)	435x225x275	340x290x310	340x290x380	630x365x470	950x640x1000	950x640x1000	1200x640x1000	1000x500x1350	1500x600x1470	2300x1000x1000
Yokes, standard □ mm	10, 14, 20, 40 (included, in case)	10, 14, 20, 30, 40, 50, 60 (in steel box)	10, 14, 20, 30, 40, 50, 60 (in steel box)	20, 30, 40, 50, 70	20, 30, 40, 60, 80	20, 30, 40, 60, 80	40, 60, 80	60, 80, 100	60, 80, 100, 150	100, 150, 200, 240
Yokes, different size	on request	on request	on request	on request	on request	on request	on request	on request	on request	on request
Extension yokes	-	60x60x120	60x60x120	70x70x120	80x80x160	90x110x160	-	205	660	-
Mass heater body kg excl. yokes	21 (incl. yokes)	29	31	53	120	175	205	200	660	2350
Pneumatic operation	-	-	-	optional	optional	optional	optional	optional	optional	optional
Alarm signal	-	-	-	optional	optional	optional	optional	optional	optional	optional
Support for horizontal heating	-	optional	optional	yes	yes	yes	optional	yes	yes	yes
Mobile	-	-	-	-	yes	yes	yes	optional	optional	optional
Turbo design*	-	-	-	-	-	-	yes	optional	optional	optional
Warranty, electronics	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years

* special design for higher output at lower power consumption: saves energy!

Simply the best!

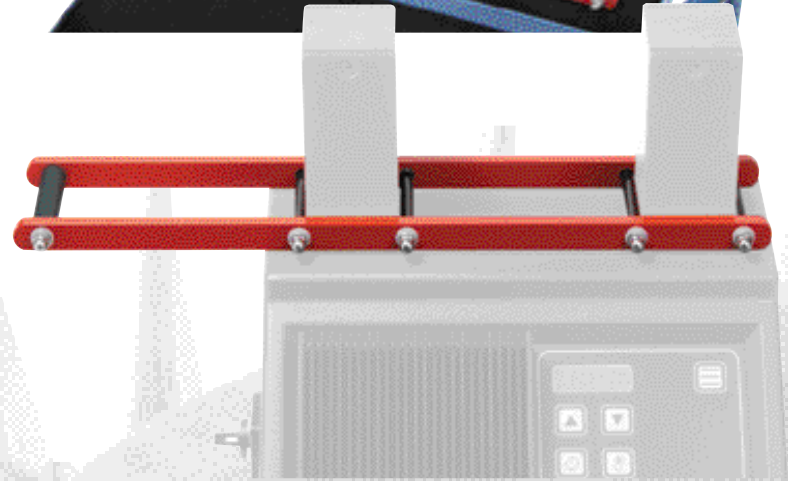
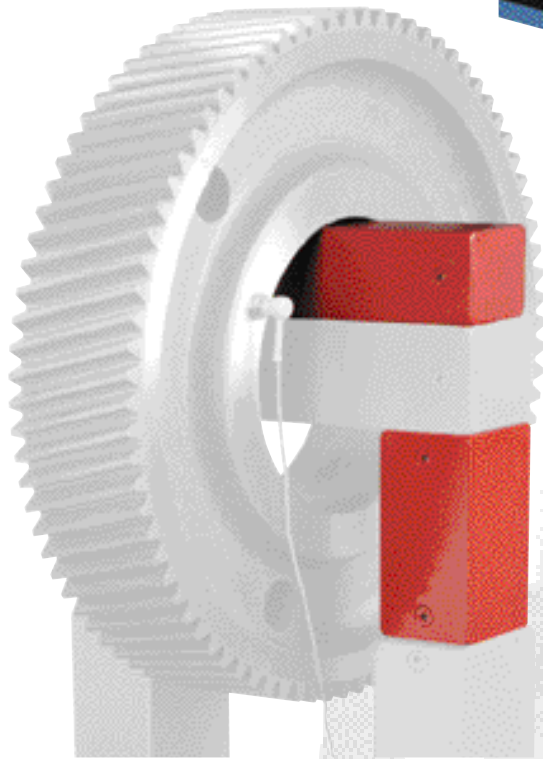
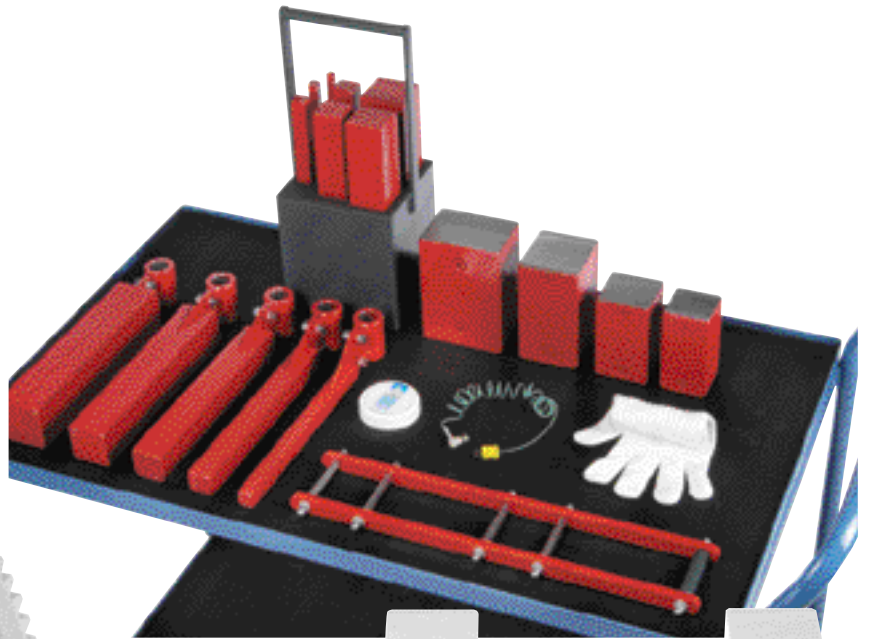
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ACCESSORIES

SINGLE AVAILABLE ACCESSORIES:

- Yokes and steel yoke container (22 ED/ESD)
- Extension yokes
- Heat resistant gloves
- Magnetic probe, various types
- Vaseline
- Sliding supports for horizontal heating (22 ED/ESD)



Separate supports for horizontal heating (22 ED/ESD)

Example of extension yokes combined with 2 yokes on top of each other.



Magnetic temperature probe. (a clamp probe is also available for non-ferrous components).

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IMPACT FITTING TOOL.

The ideal mounting method when used in combination with induction heating. This mounting set consists of 33 rings and 3 sleeves. Brochure available on request.



Useful trolley.

VERSATILE HEATERS, FOR ALL KINDS OF COMPONENTS

BETEX 22 ELD PORTABLE 3.6 kVA

Portable, easy to use, ideal for On-site jobs.

Includes 4 yokes.

For bore sizes of min. 15 mm to max. 210 mm OD.

120 or 230 Volt.



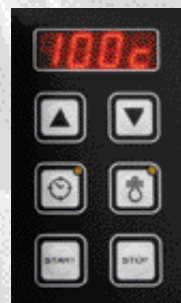
BETEX 22 ED 3.6 kVA

Basic bench-top type with choice of 7 yokes.

For bore sizes of min. 15 mm to max. 340 mm OD (with extension yokes 480 mm).
120 or 230 Volt.



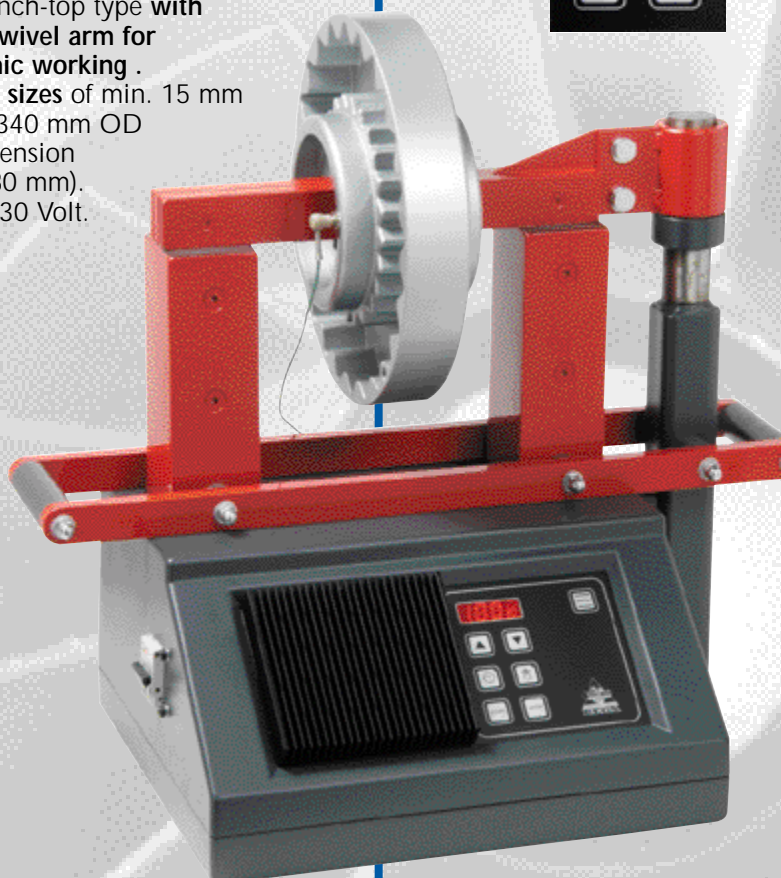
Operating panel in °C or °F.



BETEX 22 ESD 3.6 kVA

Basic bench-top type with unique swivel arm for ergonomic working.

For bore sizes of min. 15 mm to max. 340 mm OD (with extension yokes 480 mm).
120 or 230 Volt.



BETEX 38 ESD 8 kVA

Large capacity bench-top type with swivel arm, for heavier components up to ±125 kg. Heats parts in horizontal or vertical position.

For bore sizes of min. 30 mm to max 480 mm OD (with extension yokes 720 mm).
400, 450 or 500 Volt.

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EXTRA POWERFUL HEATERS WITH VARIABLE CAPACITIES ALSO FOR CONTINUOUS WORKING

BETEX 38 ZFD, 12 AND 24 kVA, 2 TYPES

Mobile, heavy duty heater with unique swivel arm for components up to ± 350 kg. Includes practical rotating operating panel. Heats parts in horizontal or vertical position.
For bore sizes of min. 30 mm to max. 700 mm OD (with extension yokes 1020 mm).
 400, 450 or 500 Volt.



SAFE AND CONTROLLED HEATING

Digital electronics provide optimal control during the heating process and automatically select the most efficient power supply to ensure a balanced and fast heating. No extra steps are necessary. Explosive heating is impossible (no discoloration or pitting of material).

3 years warranty!

The electronic unit is supplied with a 3 year warranty.

DEPENDABLE QUALITY

Our induction heaters are proved dependable. The electronics can handle continuous use in production due to the excellent cooling lamellae. The robust and easy-to-use design offers you the security of a reliable heater which is suitable for continuous operation in an industrial environment.

BETEX 40 RMD TURBO 12 kVA

Mobile, extra powerful heater with unique swivel arm for components up to 550 kg. Includes practical rotating operating panel. Heats Parts in horizontal or vertical position.
For bore sizes of min. 60 mm to max. 920 mm OD.
 400, 450 or 500 Volt.

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ADVANTAGES OF THE BETEX 40 RMD TURBO

- Low facility power 12 kVA
- Even, tension-free heating
- Compact design
- Sliding supports (optional)
- Robust
- Suitable for heating of gear wheels, couplings and bearings



Revolving operating panel ZFD/RMD series.

Sliding supports of the 40 RMD Turbo for heating in horizontal position.



NEW!

HEATING EXAMPLES

	Kg	OD mm	ID mm	110°C/min	Cos.phi	kVA
bearing 23156	95.8	460	280	3.30	0.89	8.5
bearing 23172	220	600	360	8.40	0.94	6.81
gear wheel	300	600	210	3.05	0.83	12.95



BETEX SUPER 24 kVA

Powerful heater for exceptionally heavy components up to 600 kg. Popular in workshops for steel industry, paper mills, gear box manufacturers.

Heats parts in horizontal and vertical position.

For bore sizes of min. 65 mm to max. 900 mm OD. 400, 450 or 500 Volt.



BETEX GIANT 40 kVA

Powerful heater for exceptionally heavy components up to 1250 kg.

Popular in workshops for steel industry, railway, paper mills, gear box manufacturers and wind mill manufacturers.

Heats parts in horizontal and vertical position.

For bore sizes of min. 65 mm to max. 1400 mm OD. 400, 450 or 500 Volt.



VARIABLE CAPACITIES UP TO 100 kVA

Betex SUPER and GIANT can be supplied in all kinds of variations, in sizes or capacity. This heater, a Betex Giant XL is being used at SMS Demag. Capacity: 400 Volt, max. 240 Ampere.

This Giant is used for heating of components up to 11000 kg! The gear wheel weighs 2100 kg and is heated up to 180° C in 2.5 hours. The old method lasted 24 hours!

ADVANTAGES OF BEGA INDUCTION HEATERS

- robust design for working in industrial environment
- microprocessor controlled electronics prevent overheating and explosive heating of component
- unique easy-to-use swivel arm
- 3 year warranty on the electronic unit
- maintenance free
- suitable for continuous working
- automatic demagnetisation
- automatic power reduction
- large standard range
- meets CE and IEC requirements

SERVICE

Manuals show clear instructions. If you have any questions about your induction heater simply contact our production department. You will get expert advice from skilled specialists.

CUSTOM-MADE: INDUCTION FOR PRODUCTION

Bega designs and builds custom-made heaters for serial heating of components such as bearings, gear wheels, bushes, rings and aluminium houses of E-motors. When fast and accurate heating is imperative, these 'Specials' offer surprising solutions. It is possible to integrate them in fully automatic production processes, even with a pick-and-place unit. An additional advantage is the use of low frequency. Investments are much lower in comparison with middle or high frequency solutions. A brochure with examples of 'specials' is available on request.



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