

SCHAEFFLER

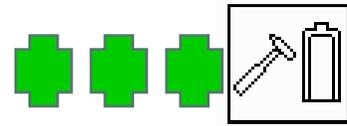
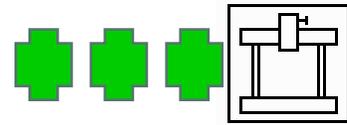
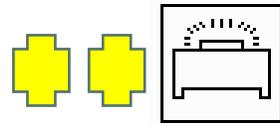
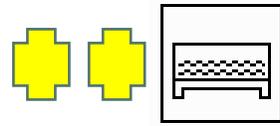
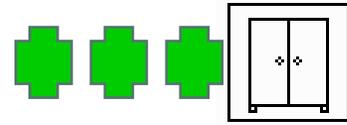
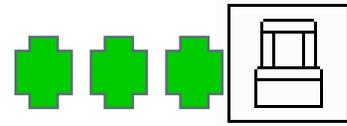
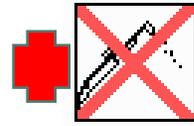
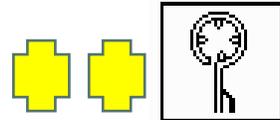
Inductive Heating Devices

We give you new standards
for precise bearing installation

UCP208-J7
UCF208-J7

Presentado por:
Roberto Jiménez
jimenclo@schaeffler.com

METODOS DE MONTAJE

- 
Martillo y casquillos de montaje
- 
Prensa mecánica e hidráulica
- 
Placa calefactora
- 
Baño de aceite
- 
Gabinete de aire caliente *
- 
Calentador de inducción
- 
Soplete
- 
Anillo quemador

METODOS MECANICOS



NUNCA UTILICE CINCEL O DESARMADOR O BARRA DE ALUMINIO, LATÓN, COBRE O BRONCE.



SI ES NECESARIO, UTILICE UNA BARRA DE ACERO SUAVE SÓLO PARA LOS **RODAMIENTOS DE TAMAÑO PEQUEÑO**

NUNCA GOLPÉE DIRECTAMENTE SOBRE LOS AROS DEL RODAMIENTO

METODOS MECANICOS

SIEMPRE

utilice la herramienta
correcta para un buen
montaje



Rodamientos pequeños d = 10-50 mm



Modelo: Alu-plastic

FITTING.TOOL.ALU.SET10-50

Input diam.	Impacting In.	60 62 63 64	12 13 22 23	728 738	82 83	213 222 232	M1 M2 M 2 3 4	M2 M3 322	813 823
A	10-26	6308	127		1206				
	10-30	6208	130						
	10-35	6308	130						
I	13-21	6208	130		1201				
	13-27	6308	130						
	13-32	6308	130						
I	15-22	6302	132	71838	1200				
	15-25	6202	132						
	15-42	6302	132		5301			30411	
I	17-21	6301	131	71838	1201				30411
	17-40	6201	131						30411
	17-47	6301	131	71838	1201				30411
B	18-42	6304	134	71848	1204		204		
	18-47	6204	134						
	18-51	6304	134	71848	1204	2134	304	20304	12184
I	20-47	6305	135	71858	1205	2135	305	30305	
	20-52	6205	135						
	20-62	6305	135	71858	1205	2135	305	30305	12185
I	20-67	6306	136	71868	1206	2136	306	30306	12186
	20-72	6206	136						
	20-77	6306	136	71868	1206	2136	306	30306	12186
C	22-52	6307	137	71878	1207	2137	307	30307	12187
	22-57	6207	137						
	22-64	6307	137	71878	1207	2137	307	30307	12187
I	22-68	6308	138	71888	1208	2138	308	30308	12188
	22-73	6208	138						
	22-78	6308	138	71888	1208	2138	308	30308	12188
I	22-83	6309	139	71898	1209	2139	309	30309	12189
	22-88	6209	139						
	22-93	6309	139	71898	1209	2139	309	30309	12189
I	22-98	6310	140	71908	1210	2140	310	30310	12190
	22-103	6210	140						
	22-108	6310	140	71908	1210	2140	310	30310	12190
C	40-118	6311	141	72018	1211	2141	411		
	40-123	6211	141						
	40-128	6311	141	72018	1211	2141	411		
I	40-133	6312	142	72028	1212	2142	412		
	40-138	6212	142						
	40-143	6312	142	72028	1212	2142	412		

[🏠](#) / [Productos](#) / [Mounting Tool Sets](#) / [IMPACT-33](#)



IMPACT-33

Herramienta de montaje

Añadir a la comparación de productos

[📌 Añadir a la lista de favoritos](#)

[➤ Contacta con nosotros](#)

[IMPACT-33 Herramienta de montaje: Informarse y comprar online en Schaeffler medias](#)

METODOS TERMICOS



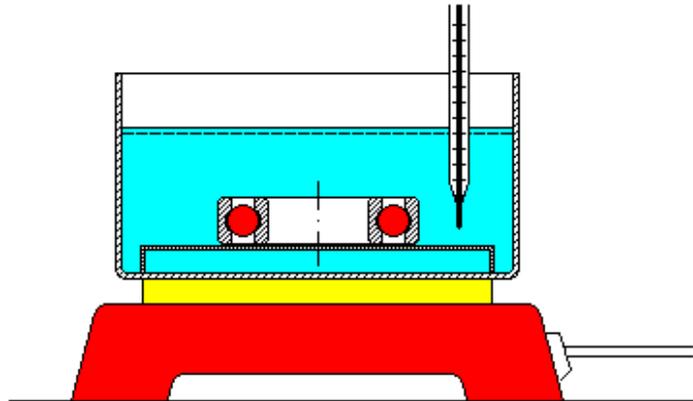
¡ IMPORTANTE !

La temperatura máxima de calentamiento es **110°C** (248°F)

Para rodamientos con sellos o tapas: máximo de 80°C

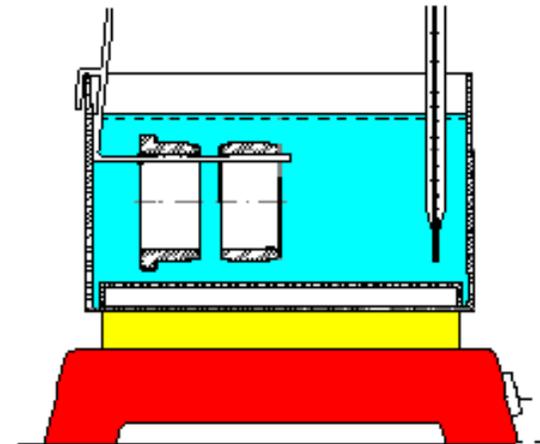
METODOS TERMICOS

Baño de Aceite



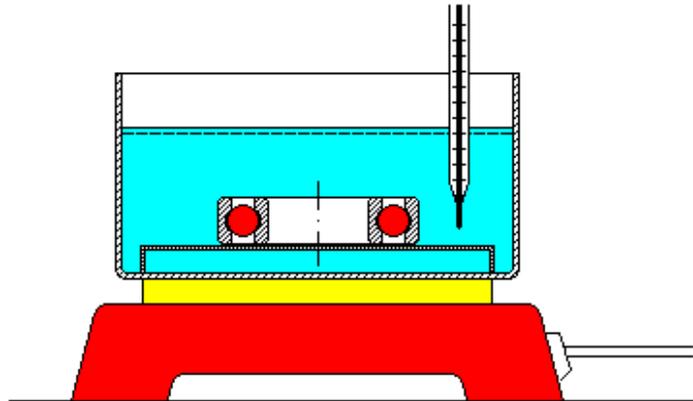
Cuide siempre que el aceite y el recipiente estén limpios.

Los rodamientos con tapas o sellos no pueden ser calentados por este método.



MÉTODOS TÉRMICOS

Baño de Aceite



Ventaja:

Calentamiento uniforme

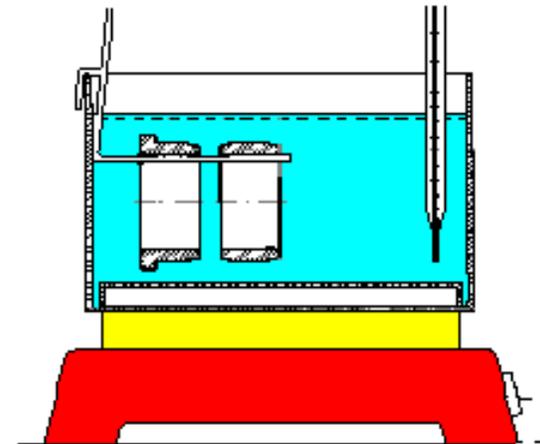
Desventajas:

Riesgo de contaminación

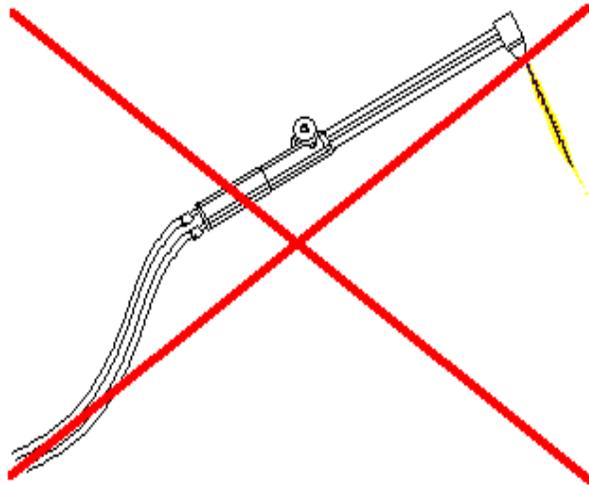
Largo tiempo de espera

Riesgo para la salud y peligro de incendio

Aceite con punto de inflamación mayor a 250° C



METODOS TERMICOS



No utilice soplete.

Ventajas:

- “Rapidéz”
- “Barato”

Desventajas:

- Sin control de temperatura
- Calentamiento irregular
- Daño del rodamiento
- Riesgo de incendio
- Peligroso para la salud

Schaeffler is

your solution provider

for smart maintenance

A thoroughly positive user experience



From installation to operation to maintenance.

One-stop shopping for all innovative and smart solutions for meeting long-term productivity needs.

In short:

We make life as easy as possible for our customers

A good example:

SCHAEFFLER

The use of heating devices for precise installation of bearings and other workpieces



Challenges in heating bearings and other workpieces



Precision

To prevent machine downtimes due to installation errors.



Energy efficiency

To minimize energy consumption.



Safety

To avoid injuries to users and damage to workpieces.



Time/cost

To reduce maintenance costs

Solution for heating bearings and other workpieces

Traditional heating methods, such as furnaces, oil baths, and gas burners, make it

**difficult to meet
these challenges.**



Solution for heating bearings and other workpieces



Induction heating

- is a fast and controlled heating method.
- is an environmentally friendly alternative to traditional heating methods.
- is felt by bearing manufacturers to be the best bearing installation method.
- prevents unnecessary damage and maintains the original bearing lubrication.
- increases a bearing's life span.

Solution for heating bearings and other workpieces



Inductive heating devices from Schaeffler

- provide high-quality, fast, and controlled heating.
- ensure fast operation without contamination.
- are suitable for all sectors and industries.
- include tabletop and standalone devices from 25 kg to 1,600 kg in the current series.

Schaeffler has been supplying inductive heating devices for professional industrial use for many years.

Now we're stepping into the future!

Because we know that:



Induction heating is a highly individual matter.

That's why we are tackling your application requirements in an even more targeted way. And so, in addition to the new **SMART** series, we are also offering the brand-new ...

... the
BASIC
version

This allows us to provide a broader portfolio than the competition. For **different customer requirements** and for **every sector**.



Which one should you buy and when?



HEATER-BASIC

HEATER-SMART





New

HEATER-BASIC

When the most important functions of induction heating are sufficient.

Cost-effective, robust, and with smart electronics for the best possible heating results and efficient energy consumption.

The 2 heating methods in the BASIC series:



New

HEATER-BASIC



TEMPERATURE MODE

For controlled heating to the desired temperature.



TIME MODE

For serial heating without temperature sensors, when the necessary heating time is known.

The BASIC series in use



HEATER-SMART

When you need greater control over the heating process.

With a **log function** for documentation purposes and **Delta T control** for dual measurements.



The 4 heating methods in the SMART series:



TEMPERATURE MODE

For controlled heating to the desired temperature.



TIME MODE

For serial heating without temperature sensors, when the necessary heating time is known.



TIME OR TEMPERATURE MODE

For controlled heating to the desired temperature or duration.



TEMPERATURE AND SPEED MODE

For controlled heating with the maximum temperature gradient per unit of time.

HEATER-SMART



The SMART series in use



Comparison of HEATER-SMART & HEATER-BASIC

	BASIC	SMART
 Temperature mode	✓	✓
 Time mode	✓	✓
 Time or temperature mode	✗	✓
 Temperature and speed mode	✗	✓
 Delta-T control	✗	✓
 Log function	✗	✓

HEATER-SMART and HEATER-BASIC – available for different workpiece weights

HEATER-SMART



HEATER-BASIC



20

50

100

200

400*

600*

800

1600

KG

*Wheels optional

HEATER-BASIC – Bench-Top Devices - Variants according power supply

Designation	Voltage / Amp	kVA	Certification
HEATER20-BASIC-230V	230V/10A	2.3	CE
HEATER20-BASIC-120V-US	120V/10A	1.2	QPS
HEATER20-BASIC-240V-US	240V/5A	1.2	QPS
HEATER50-BASIC-230V	230V/13A	3	CE
HEATER50-BASIC-120V-US	120V/13A	1.5	QPS
HEATER50-BASIC-240V-US	240/13A	3.2	QPS
HEATER100-BASIC-230V	230/16A	3.7	3.7 CE
HEATER100-BASIC-120V-US	120V/15A	1.8	QPS
HEATER100-BASIC-240V-US	240V/15A	3.6	QPS
HEATER200-BASIC-400V	2 ~ 400V/20A	8	CE
HEATER200-BASIC-450V	2 ~ 450V/16A	7.2	CE
HEATER200-BASIC-500V	2 ~ 500V/16A	8	CE
HEATER200-BASIC-480V-US	2 ~ 480V/16A	7.7	QPS
HEATER200-BASIC-600V-US	2 ~ 600V/14A	8.4	QPS

Suffix „US“: QPS certified versions for US and Canada according to CSA C22.2 No. 88-19 - Industrial Heating Equipment and UL 499, 14th Ed. (Nov 7, 2014) - Electric Heating Appliances

HEATER-BASIC – Heavy Duty Devices – Variants according to power supply

Designation	Voltage/Amp	kVA	Certification
HEATER400-BASIC-400V	2 ~ 400V/30A	12	CE
HEATER400-BASIC-450V	2 ~ 450V/25A	12	CE
HEATER400-BASIC-500V	2 ~ 500V/24A	12	CE
HEATER400-BASIC-480V-US	2 ~ 480V/24A	12	QPS
HEATER400-BASIC-600V-US	2 ~ 600V/20A	12	QPS
HEATER600-BASIC-400V	2 ~ 400V/45A	18	CE
HEATER600-BASIC-450V	2 ~ 450V/40A	18	CE
HEATER600-BASIC-500V	2 ~ 500V/36A	18	CE
HEATER600-BASIC-480V-US	2 ~ 480V/36A	18	QPS
HEATER600-BASIC-600V-US	2 ~ 600V/30A	18	QPS
HEATER800-BASIC-400V	2 ~ 400V/60A	24	CE
HEATER800-BASIC-450V	2 ~ 450V/50A	24	CE
HEATER800-BASIC-500V	2 ~ 500V/48A	24	CE
HEATER800-BASIC-480V-US	2 ~ 480V/48A	24	QPS
HEATER800-BASIC-600V-US	2 ~ 600V/40A	24	QPS
HEATER1600-BASIC-400V	2 ~ 400V/100A	40	CE
HEATER1600-BASIC-450V	2 ~ 450V/80A	40	CE
HEATER1600-BASIC-500V	2 ~ 500V/80A	40	CE
HEATER1600-BASIC-480V-US	2 ~ 480V/80A	40	QPS
HEATER1600-BASIC-600V-US	2 ~ 600V/65A	40	QPS

HEATER-SMART – Bench-Top Devices – Variants according to power supply

Designation	Voltage / Amp	kVA	Certification
HEATER50-SMART-230V	230V/13A	3	CE
HEATER50-SMART-120V-US	120V/13A	1,5	QPS
HEATER50-SMART-240V-US	240/13A	3,2	QPS
HEATER100-SMART-230V	230/16A	3,7	CE
HEATER100-SMART-120V-US	120V/15A	1,8	QPS
HEATER100-SMART-240V-US	240V/15A	3,6	QPS
HEATER200-SMART-400V	400V/20A	8	CE
HEATER200-SMART-450V	2 ~ 450V/16A	7,2	CE
HEATER200-SMART-500V	2 ~ 500V/16A	8	CE
HEATER200-SMART-480V-US	2 ~ 480V/16A	7,7	QPS
HEATER200-SMART-600V-US	2 ~ 600V/14A	8,4	QPS

Suffix „US“: QPS certified versions for US and Canada according to CSA C22.2 No. 88-19 - Industrial Heating Equipment and UL 499, 14th Ed. (Nov 7, 2014) - Electric Heating Appliances

HEATER-SMART – Heavy Duty Devices – Variants according to power supply

Designation	Voltage/Amp	kVA	Certification
HEATER400-SMART-400V	2 ~ 400V/30A	12	CE
HEATER400-SMART-450V	2 ~ 450V/25A	12	CE
HEATER400-SMART-500V	2 ~ 500V/24A	12	CE
HEATER400-SMART-480V-US	2 ~ 480V/24A	12	QPS
HEATER400-SMART-600V-US	2 ~ 600V/20A	12	QPS
HEATER600-SMART-400V	2 ~ 400V/45A	18	CE
HEATER600-SMART-450V	2 ~ 450V/40A	18	CE
HEATER600-SMART-500V	2 ~ 500V/36A	18	CE
HEATER600-SMART-480V-US	2 ~ 480V/36A	18	QPS
HEATER600-SMART-600V-US	2 ~ 600V/30A	18	QPS
HEATER800-SMART-400V	2 ~ 400V/60A	24	CE
HEATER800-SMART-450V	2 ~ 450V/50A	24	CE
HEATER800-SMART-500V	2 ~ 500V/48A	24	CE
HEATER800-SMART-480V-US	2 ~ 480V/48A	24	QPS
HEATER800-SMART-600V-US	2 ~ 600V/40A	24	QPS
HEATER1600-SMART-400V	2 ~ 400V/100A	40	CE
HEATER1600-SMART-450V	2 ~ 450V/80A	40	CE
HEATER1600-SMART-500V	2 ~ 500V/80A	40	CE
HEATER1600-SMART-480V-US	2 ~ 480V/80A	40	QPS
HEATER1600-SMART-600V-US	2 ~ 600V/65A	40	QPS

Scope of delivery – HEATER-BASIC + HEATER-SMART

Scope of delivery	HEATER-BASIC	HEATER-SMART
Temperature sensors	1 pc.	2 pc.
Heat protection gloves (up to 250°C)	x	x
Petroleum jelly (Can, 100 g): for lubrication of the contact surfaces to reduce wear and noise	x	x
Test certificate	x	x
Print manual in en, de, es, fr, nl (further languages as PDF in the mediathek)	x	x



Temperature Sensors – HEATER-BASIC + HEATER-SMART

Material designation	Description	Usability BASIC + SMART
HEATER.MPROBE-20-200	Magnetic temperature sensor, coiled cable, max. 240 °C	HEATER20 to HEATER200
HEATER.MPROBE-400-800	Magnetic temperature sensor, Cable length 1100 mm, max. 240 °C	HEATER400 to HEATER800
HEATER.MPROBE-1600	Magnetic temperature sensor, Cable length 2000 mm, max. 240 °C	HEATER1600



Scope of delivery – Yokes for HEATER-BASIC + HEATER-SMART

SAP Material Description	min. Bore Diameter Workpiece	Size/Dimensions (LxWxH mm) (Product without Packaging)	Yoke Design	Scope of delivery	Option
HEATER20-BASIC					
HEATER50.YOKE-10	10	200x7x7	support yoke	x	
HEATER50.YOKE-15	15	200x10x10	support yoke	x	
HEATER50.YOKE-20	20	200x14x14	support yoke	x	
HEATER50.YOKE-30	30	200x20x20	support yoke	x	
HEATER50.YOKE-60	60	200x40x40	support yoke	x	
HEATER50-BASIC + HEATER50-SMART					
HEATER50.YOKE-10	10	200x7x7	support yoke	x	
HEATER50.YOKE-15	15	200x10x10	support yoke		x
HEATER50.YOKE-20	20	200x14x14	support yoke	x	
HEATER50.YOKE-30	30	200x20x20	support yoke		x
HEATER50.YOKE-60	60	200x40x40	support yoke		x
HEATER50.YOKE-65	65	200x50x40	support yoke	x	
HEATER100-BASIC + HEATER100-SMART					
HEATER100.YOKE-15	15	280x10x10	support yoke		x
HEATER100.YOKE-20	20	280x14x14	support yoke		x
HEATER100.YOKE-30	30	280x20x20	support yoke	x	
HEATER100.YOKE-45	45	280x30x30	slewing yoke		x
HEATER100.YOKE-60	60	280x40x40	slewing yoke		x
HEATER100.YOKE-68	68	280x50x50	slewing yoke	x	
HEATER100.YOKE-85	85	280x60x60	slewing yoke		

Slewing yoke



Support yoke

Scope of delivery – Yokes for HEATER-BASIC + HEATER-SMART

SAP Material Description	min. Bore Diameter Workpiece	Size/Dimensions (LxWxH mm) (Product without Packaging)	Yoke Design	Scope of delivery	Option
HEATER600-BASIC + HEATER600 SMART					
HEATER600.YOKE-60	60	40x40x600	slewing yoke		x
HEATER600.YOKE-85	85	60x60x600	slewing yoke		x
HEATER600.YOKE-115	115	80x80x600	slewing yoke		x
HEATER600.YOKE-130	130	90x90x600	slewing yoke	x	
HEATER800-BASIC + HEATER800 SMART					
HEATER800.YOKE-60	60	40x40x725	vertical yoke		x
HEATER800.YOKE-72	72	50x50x725	Vertikal yoke		x
HEATER800.YOKE-85	85	60x60x725	vertical yoke		x
HEATER800.YOKE-115	115	80x80x725	vertical yoke		x
HEATER800.YOKE-145	145	100x100x725	vertical yoke	x	
HEATER1600-BASIC + HEATER1600 SMART					
HEATER1600.YOKE-85	85	60x60x1220	Vertikal yoke		x
HEATER1600.YOKE-115	115	80x80x1140	vertical yoke		x
HEATER1600.YOKE-145	145	100x100x1140	vertical yoke		x
HEATER1600.YOKE-215	215	150x150x1140	vertical yoke	x	

Slewing yoke



Support yoke



Vertikal yoke

The benefits of the new HEATER series

SKF	KG	SCHAEFFLER	KG
TIH 030m	40	HEATER50-BASIC....	50
TIH 100M	100	HEATER	
TIH 220m	300	HEATER400-BASIC-...	400

The benefits of the new HEATER series

Quality, safety, and efficiency:

- Better selection, depending on the requirements and customer request: **BASIC or SMART**
- Uniform, controlled heating for a consistently **high quality of installation.**
- **Safety** for people and machines.
- **Lower operating costs** thanks to energy-efficient heating and short installation times.
- **Fast and safe heating** while simultaneously protecting the workpiece.
- Fast and safe heating even for **large workpieces** up to 1,600 kg.

Scope of delivery – Yokes for HEATER-BASIC + HEATER-SMART

SAP Material Description	min. Bore Diameter Workpiece	Size/Dimensions (LxWxH mm) (Product without Packaging)	Yoke Design	Scope of delivery	Option
HEATER150-BASIC + HEATER150-SMART					
HEATER200-BASIC + HEATER200-SMART					
HEATER200.YOKE-15	15	350x10x10	support yoke		x
HEATER200.YOKE-20	20	350x14x14	support yoke		x
HEATER200.YOKE-30	30	350x20x20	support yoke		x
HEATER200.YOKE-45	45	350x30x30	slewing yoke	x	
HEATER200.YOKE-60	60	350x40x40	slewing yoke		x
HEATER200.YOKE-68	68	350x50x50	slewing yoke		x
HEATER200.YOKE-85	85	350x60x60	slewing yoke		x
HEATER200.YOKE-100	100	350x70x70	slewing yoke		x
HEATER200.YOKE-110	110	350x70x80	slewing yoke	x	
HEATER400-BASIC + HEATER400 SMART					
HEATER400.YOKE-30	30	20x20x500	slewing yoke		x
HEATER400.YOKE-45	45	30x30x500	slewing yoke		x
HEATER400.YOKE-60	60	40x40x500	slewing yoke		x
HEATER400.YOKE-85	85	60x60x500	slewing yoke		x
HEATER400.YOKE-115	115	80x80x500	slewing yoke	x	

Slewing yoke



Support yoke

When's your first step into the **future** of
induction heating?

SCHAEFFLER

Induction systems with medium frequency technology

Rely on us and our innovative solution
for thermal mounting and dismounting of
metal components.



Schaeffler is your

all-in-one solution provider

for production and maintenance applications

The challenge



Traditional methods are reaching their limits due to increasing requirements and ever more complex applications.

The solution



The environmentally friendly and innovative solution

Induction heaters with medium frequency technology are an innovative solution

Because: they can be used quickly and easily and heat more energy-efficiently than conventional methods.

Induction heaters with medium frequency technology



One device, multiple application possibilities

- Thermal mounting and dismounting is possible
- Preheating of components
- Also suitable for large and heavy work pieces
- Mobile, easy to move on site

Induction heaters with medium frequency technology – our customer sectors



Rail



Wind



Paper



Drive Technology



Aerospace



Raw Material Extraction and Processing



Cement



Steel

Induction heaters with medium frequency technology – applications

Application examples



Gear wheels



Bearings



Bearings in housings



Bearing inner rings



Couplings

...and many other ferromagnetic components, e.g. steel, cast iron, other materials upon request.

Medium frequency induction heaters consist of:

Generator



MFT induction heaters consist of a generator combined with a flexible or fixed inductor.

Flexible Inductor



Fixed inductor



Flexible inductors

Flexible inductors offer excellent adaptability to components of different sizes and geometries.

Special features

- can be placed either in the bore or on the outside of the workpiece
- depending on the application, up to 40 m long, max. 180 C° and 300 C°
- unique flexibility to adapt to different workpiece shapes and dimensions
- also suitable for particularly large components such as bearings, gear wheels, housings etc.



Fixed inductors

Fixed inductors are more suitable for serial production, where short set-up times and high process reliability are important.

Special features

- Application-specific manufacture
- can be placed on the work piece easily and quickly
- particularly suitable for serial production, mounting and dismounting



Schaeffler has been the leading supplier of induction heaters for professional industrial use for years.

Our induction heaters with medium frequency technology are the solution for both mounting and dismounting.

Generators with 10, 22 and 44kW

Two models

SCHAEFFLER

MF-GENERATOR

2.5

compact design with 3.5" display



10
kW

22
kW

44
kW

MF-GENERATOR

3.0

advanced functions and 7.0" display



10
kW

22
kW

44
kW

MF-GENERATOR2.5



MF-GENERATOR 2.5

When the most important functions are sufficient

The fast, environmentally friendly and reliable induction heater for mounting and dismounting.

MF-GENERATOR2.5

**What makes it different:**

- compact design
- 3,5" touch screen
- user-friendly operation with touch screen
- smart electronics for optimum operating frequency
- adjustable output control
- dual temperature measurement with ΔT monitoring
- choice between fixed and flexible inductors

MF-GENERATOR2.5 in action



MF-GENERATOR3.0



MF-GENERATOR 3.0

When more control is needed.

The fast, environmentally friendly and reliable induction heater for mounting and dismounting.

MF-GENERATOR3.0

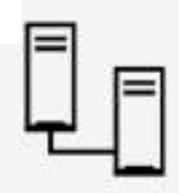


Additional benefits compared to the 2.5 model

- larger 7" touch screen
- heating possible according to pre-set temperature/time curve
- heating process is displayed with clear graphic
- creation of a work protocol as proof
- log function for data storage and export via USB port
- up to 8 generators can work together (leader – follower) to heat larger parts

MF-GENERATOR 3.0 in action

Simultaneous heating of bearing inner ring and outer ring with 2 generators



MF-GENERATOR3.0 in action

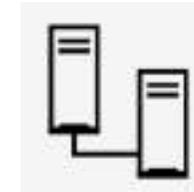
Safety through controlled heating

The two generators communicate with each other.

A max. permissible temperature difference (Delta-T) between the inner ring and outer ring is set for the heating process.

Depending on the allowed temperature difference, the generators regulate the output during the heating process.

The clearance in the bearing is maintained by the controlled heating process. Consequently, damage to the bearing due to the heating process can be ruled out.

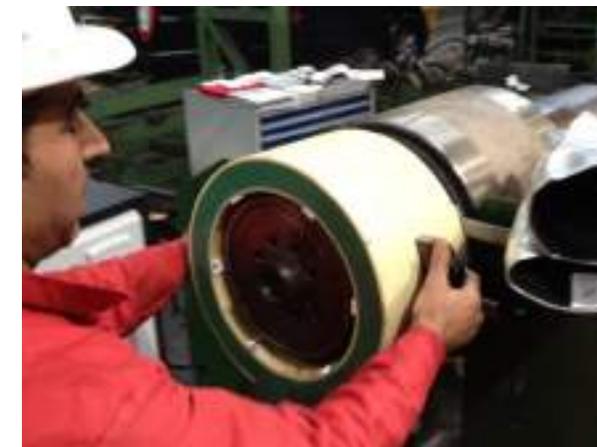


A consistently positive user experience

The configuration of an induction unit depends on the specific application. If required, we also design and manufacture fixed inductors custom-made to the application.

In short:

**We have the solution
for customized demands.**



Induction heaters with medium frequency technology

The more sustainable solution



Energy-efficient
thanks to high efficiency



Reuse
of parts that would otherwise be scrapped



Safety
for the work piece due to
controlled heating



**Improved machine
availability and productivity**



Short heating times



Longer bearing life

Advantages of the new induction heaters with medium frequency technology

More opportunities

Mounting and dismounting also for large work pieces

More flexibility

By using flexible or fixed inductors

More sustainability

Through energy efficiency

More mobility

The MF-GENERATOR can be taken to the workpiece, not the other way round



More individuality

The best solution for every application

More efficiency

Through lower costs and higher productivity

More safety

For both man and machine

Application examples



Steel

Dismounting bearing inner rings with a 22 kW generator and a flexible inductor:

Time needed: 8 minutes

Temperature: 120°C



Application examples



Steel

Serial dismounting of bearing inner rings with a 22 kw GENERATOR and fixed inductor:

Time needed : 3 minutes

Temperature: 120°C

Application examples



DRIVE TECHNOLOGY

Mounting of a gear wheel with MF-GENERATOR2.5–44 kW and flexible inductor.

Winding distribution over the circumference and face of the gear (± 2500 kg).

Time needed: 30 minutes

Temperature: 180°C



Application examples



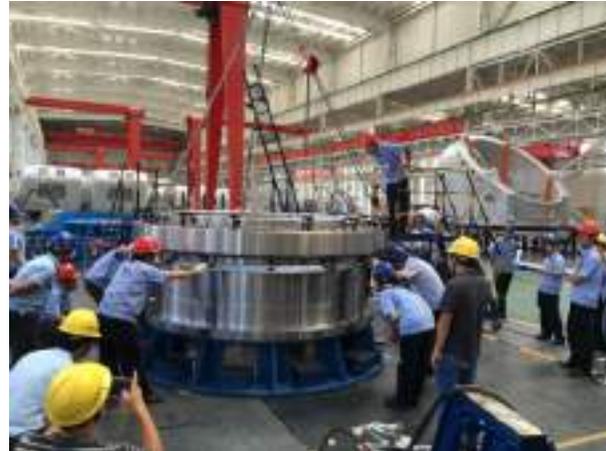
Drive Technology

Bearing seat heating for mounting the bearing in a cable wheel with a MF GENERATOR 22 kW and flexible inductor:

Time needed: 4 minutes

Temperature: 120°C

Application examples



Wind

Mounting a main bearing:

Step 1: heating the bearing (6800 kg) with 2 GENERATOR3.0-44KW generators simultaneously using flexible inductors:

- 1 generator heats the inner ring
- 1 generator heats the outer ring

Time needed: 120 minutes

Temperature: 110°C

Step 2: heating the bearing seat (11.000 kg) to mount the bearing in the housing:

Time needed: 60 minutes

Temperature: 80°C



Application examples



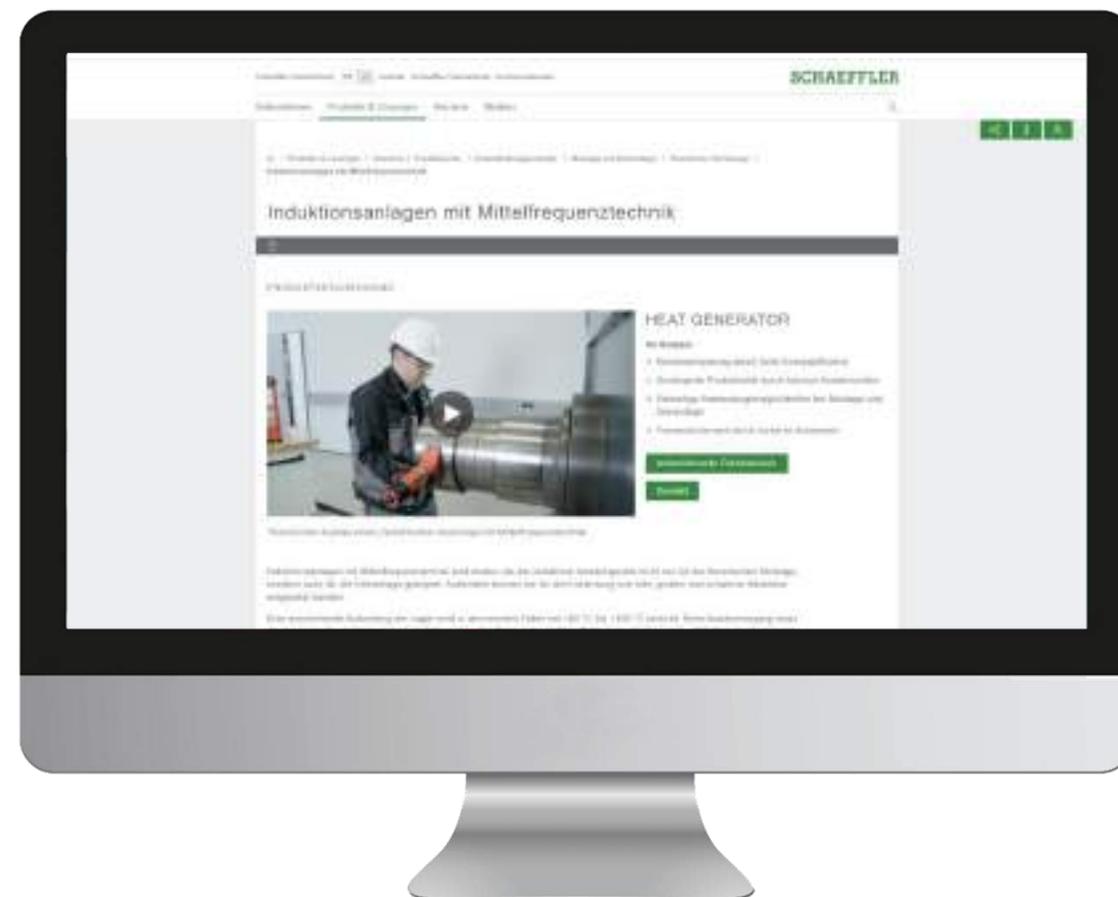
Laser Cladding

Preheating of components for laser coating with a MF GENERATOR 22 kW and a flexible inductor



All further information can be found on our product page.

[» Link to product page](#)



When to use
the innovative solutions
for mounting and dismounting?



MF-Generator 3.0-3.5 kW

Small, mobile & powerful

- compact dimensions, low weight for mobile use
- simple power supply (230V/16A)
- 4.3" touch screen
- usable in hard-to-reach mounting locations or where space is limited
- ideal for small and medium-sized work pieces
- economical, low-cost solution also for smaller workshops
- use with flexible inductors only (available length: 5m, 7,5m, 10 m)
- energy-efficient and controlled heating

[Link to MF Portfolio 3.5 to 44 kW](#)



Extactores mecánicos

DESIGNCION ANTERIOR (HASTA TERMINARSE STOCK)

Ex de 3 brazos

PULLER-3ARM160	Extractor de 3 brazos, ancho máximo de 160 mm
PULLER-3ARM230	Extractor de 3 brazos, ancho máximo de 230 mm
PULLER-3ARM310	Extractor de 3 brazos, ancho máximo de 310 mm
PULLER-3ARM430	Extractor de 3 brazos, ancho máximo de 430 mm
PULLER-3ARM660	Extractor de 3 brazos, ancho máximo de 660 mm

Ex de 2 brazos

PULLER-2ARM90	Extractor de 2 brazos, ancho máximo de 90 mm
PULLER-2ARM130	Extractor de 2 brazos, ancho máximo de 130 mm
PULLER-2ARM160	Extractor de 2 brazos, ancho máximo de 160 mm
PULLER-2ARM200	Extractor de 2 brazos, ancho máximo de 200 mm
PULLER-2ARM250	Extractor de 2 brazos, ancho máximo de 250 mm
PULLER-2ARM350	Extractor de 2 brazos, ancho máximo de 350 mm

DESIGNCION NUEVA

MSP-2/3-120	Mechanical two-/three-arm puller. Wmax 120 mm
MSP-2/3-180	Mechanical two-/three-arm puller. Wmax 180 mm
MSP-2/3-270	Mechanical two-/three-arm puller. Wmax 270 mm
MSP-2/3-300	Mechanical two-/three-arm puller. Wmax 300 mm
MSP-2/3-380	Mechanical two-/three-arm puller. Wmax 380 mm
MSP-2/3-440	Mechanical two-/three-arm puller. Wmax 440 mm



• Hydraulic dismounting where higher extraction forces are required

021723630-0000-10	PULLER-HYD40	hydraulic three-arm puller, 4 ton		
021939918-0000-10	PULLER-HYD60	hydraulic three-arm puller, 6 ton	HSP-43	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 4 tons
021939942-0000-10	PULLER-HYD60-XL	hydraulic three-arm puller with long jaws, 6 ton		
021939950-0000-10	PULLER-HYD80	hydraulic three-arm puller, 8 ton	HSP-63	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 6 tons
021939985-0000-10	PULLER-HYD80-XL	hydraulic three-arm puller with long jaws, 8 ton		
019258402-0000-10	PULLER-HYD100	hydraulic three-arm puller, 10 ton		
019258437-0000-10	PULLER-HYD100-XL	hydraulic three-arm puller with long jaws, 10 ton	HSP-83	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 8 tons
019258445-0000-10	PULLER-HYD120	hydraulic three-arm puller, 12 ton		
019258470-0000-10	PULLER-HYD120-XL	hydraulic three-arm puller with long jaws, 12 ton		
019258526-0000-10	PULLER-HYD200	hydraulic three-arm puller, 20 ton	HSP-123	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 12 tons
020258550-0000-10	PULLER-HYD200-XL	hydraulic three-arm puller with long jaws, 20 ton	HSP-203	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 20 tons

019258445-0000-10	PULLER-HYD120	hydraulic three-arm puller, 12 ton	HSP-120	pump-cylinder unit 12 tons
019258470-0000-10	PULLER-HYD120-XL	hydraulic three-arm puller with long jaws, 12 ton		
019258526-0000-10	PULLER-HYD200	hydraulic three-arm puller, 20 ton	HSP-203	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 20 tons
019258550-0000-10	PULLER-HYD200-XL	hydraulic three-arm puller with long jaws, 20 ton		
019258569-0000-10	PULLER-HYD250	hydraulic three-arm puller, 25 ton		
019258593-0000-10	PULLER-HYD250-XL	hydraulic three-arm puller with long jaws, 25 ton		
019258607-0000-10	PULLER-HYD300	hydraulic three-arm puller, 30 ton	HSP-303	Hydraulic two-/three-arm puller. self-centering with integrated hand pump-cylinder unit 30 tons
021944342-0000-10	PULLER-HYD300-XL	hydraulic three-arm puller with long jaws, 30 ton		
019258623-0000-10	PULLER-HYD400	hydraulic three-arm puller with separate pump, 40 ton		
019258658-0000-10	PULLER-HYD400-XL	hydraulic three-arm puller with long jaws, 40 ton	Fichas:	HSP-303 Hydraulic two-/three-arm puller: inform yourself & order online on:

Products



ACC-SET-HP123-HSP123-HXP123

Bearing splitter set



ACC-SET-HP43-HSP43

Bearing splitter set



ACC-SET-HP63-HSP63

Bearing splitter set



ACC-SET-HP83-HSP83-HXP83

Bearing splitter set

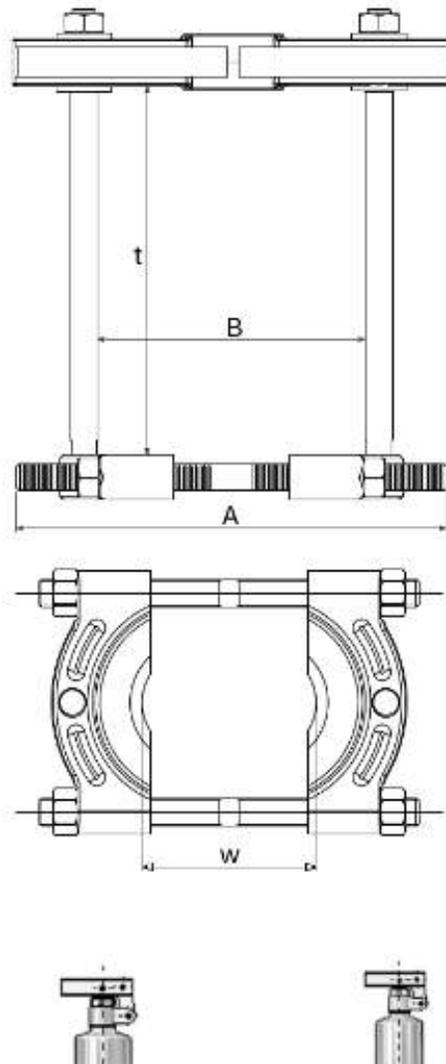




ACC-SET-HP123- HSP123-HXP123

Bearing splitter set

BETEX Puller for gentle dismounting of complete bearings, bearing inner rings and other components so that the pulling force is not transmitted via moving parts. The part to be dismounted must be well accessible radial.

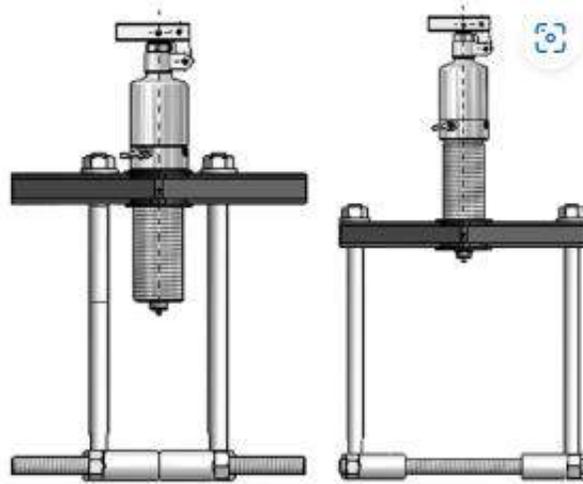


Display units

Metric Imperial

Technical data

w_{min}	40 mm	Grip width, min.
w_{max}	225 mm	Grip width, max.
t_{max}	298 mm	Grip depth, max.
A	360 mm	
B_{min}	140 mm	
B_{max}	310 mm	
F_P	110 kN	max. permissible pulling force
$\approx m$	21 kg	Weight



Additional information

with the pump/cylinder unit of an HP/HSP/HXP puller

Usability

1 puller bridge, 2 sets of connection rods, 2 puller plates, carrying case

included in delivery





WCP208-177
WCF208-177

Gracias!

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