

# Induction heaters

## IHN010

The lightweight portable device with convincing performance for bearings up to 10 kg

- › Portable, compact and very light 3.5 kg
- › A bearing weighing 5 kg can be heated to 230°F in under four minutes
- › Silent operation
- › No support yoke required – simply place the workpiece on the device
- › Predictive temperature control (PTC) software for automatic temperature monitoring



## IHN080

For heating small and medium size bearings with a weight up to 80 kg, the IHN080 is the perfect choice.

- › Available in two power versions: 230 V/50 Hz and 110 V/60 Hz
- › Three yokes are included
- › Very compact design, 35 kg overall weight including three yokes
- › Swivel arm is available as an option
- › Other power versions are available on request



## IHN120

For heating small and medium size bearings with a weight up to 120 kg and for permanent operation, the IHN120 is the best solution.

- › Available in the power versions 400 V/50 Hz and 460 V/60 Hz
- › Three yokes are included
- › Very compact design, 38 kg overall weight including three yokes
- › Swivel arm is included
- › Fan radiator for permanent operation is included
- › Other power versions are available on request



## IHN300

The IHN300 is a large and exceptionally powerful high end induction heater for larger bearings up to 300 kg

- › Available in the power versions 400 V/50Hz or 460 V/60 Hz.
- › A sliding arm permits easy placement and removal of the bearing.
- › Two yokes are included
- › Compact design, 75 kg overall weight including two yokes.
- › A fan version IHN300F for permanent operation is available.
- › Other power versions are available on request.



## IHN800

Fast and safe heating of large workpieces

- › Fast heating of extremely large size components, e. g. a bearing of 445 kg weight can be heated up to 110 °C in only 10 minutes (temperature at the inner ring).
- › Designed for easy transport using a fork lift truck.
- › Automatic demagnetization of the workpiece.



# Induction heaters

## Technical Data



Designation	IHN010 HotSpot	IHN080
Workpiece		
- maximum weight	10kg	80kg
- minimum bore	20 mm	20 mm
- maximum outside diameter	160 mm	600 mm
- maximum thickness	60 mm	145 mm
Voltage V/Hz *	100V 10.5A 1.05kVA (special order) 115V 10.5A 1.2kVA (standard) 230V 6.5A 1.5kVA (special order)	110V/60Hz (standard) 230V/50Hz (special order)
Temperature control		
- range	20 - 180°C	0 - 250°C
- magnetic probe	yes, type K	yes, type K
Time control		
- range	0 - 10 minutes	0 - 60 minutes
- accuracy	± 0.1 minutes	± 0.01 seconds
Maximum temperature (approx.)	180°C	400°C
Thermometer mode	yes	yes
Bearing temperature mode	no	yes
Automatic demagnetization	yes	yes
Can heat sealed bearings	yes	yes
Can heat pre-greased bearings	yes	yes
Thermal overload protection	yes	yes
Size of the operating area (WxH)	-	145 x 205mm
Coil diameter	-	115mm
Dimensions (WxDxH)	340 x 250 x 64mm (over cone 121mm)	420 x 280 x 345mm
Overall weight including yokes	3.5kg	35kg
Maximum power consumption	1.4/1.5 kVA	3.7/2.2kVA
Number of standard yokes	-	3
Standard yokes	-	55 x 55 x 275mm for bearings with bore diameters of 78mm 28 x 28 x 275mm for bearings with bore diameters of 40mm 14 x 14 x 275mm for bearings with bore diameters of 20mm
Core cross section	-	55 x 55mm
Housing material	Plastic	Aluminum

Designation	IHN120	IHN300	IHN800
Workpiece			
- maximum weight	120kg	300kg	up to 1200kg
- minimum bore	20 mm	60 mm	142 mm
- maximum outside diameter	600 mm	850 mm	1200 mm
- maximum thickness	145 mm	250 mm	330 mm
Voltage V/Hz *	400V/50Hz - 460V/60Hz (standard) 500V/50Hz - 575V/60Hz (special order)	400V/50Hz - 460V/60Hz (standard) 500V/50Hz - 575V/60Hz (special order)	400V/50Hz - 460V/60Hz (standard) 500V/50Hz - 575V/60Hz (special order)
Temperature control			
- range	0 - 250°C	0 - 250°C	0 - 250°C
- magnetic probe	yes, type K	yes, type K	yes, type J
Time control			
- range	0 - 60 minutes	0 - 60 minutes	0 - 60 minutes
- accuracy	± 0.01 seconds	± 0.01 seconds	± 0.01 seconds
Maximum temperature (approx.)	400°C	400°C	400°C
Thermometer mode	yes	yes	yes
Bearing temperature mode	yes	yes	yes
Automatic demagnetization	yes	yes	yes
Can heat sealed bearings	yes	yes	yes
Can heat pre-greased bearings	yes	yes	yes
Thermal overload protection	yes	yes	yes
Size of the operating area (WxH)	145 x 205mm	250 x 250mm	330 x 355mm
Coil diameter	115mm	135mm	186mm
Dimensions (WxDxH)	420 x 280 x 420mm	600 x 350 x 420mm	750 x 400 x 935mm
Overall weight including yokes	38kg	75kg	300kg
Maximum power consumption	6.4/7.4kVA	10/11.5kVA	24/27.6kVA
Number of standard yokes	3	2	1
Standard yokes	55 x 55 x 275mm for bearings with bore diameters of 78mm 28 x 28 x 275mm for bearings with bore diameters of 40mm 14 x 14 x 275mm for bearings with bore diameters of 20mm	70 x 70 x 420mm for bearings with bore diameters of 100mm 40 x 40 x 420mm for bearings with bore diameters of 60mm	100 x 100 x 570mm for bearings with bore diameters of 142mm
Core cross section	55 x 55mm	70 x 70 mm	100 x 100mm
Housing material	Aluminum	Aluminum	Steel

\*Other power versions are available upon request.