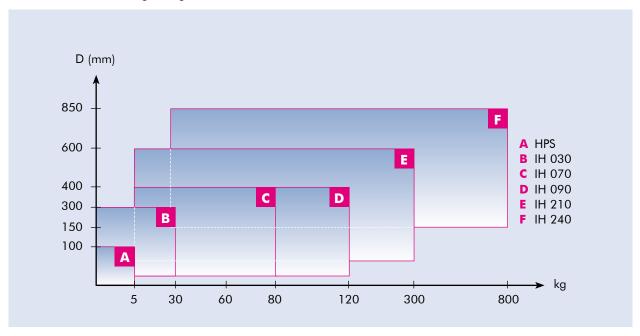


10.3 Selection and overview

The right heater for your application

The choice of a simatherm Induction Heater depends generally on the dimensions and the weight of workpieces. The chart below assists making the right choice.



Examples of choices

No.	Bearing	d / inner dia- meter	D / outer dia- meter	width	weight	correct heater
2316	Spherical roller bearing	80 mm	170 mm	58 mm	6.1 kg	IH 030
22330	Spherical roller bearing	150 mm	320 mm	108 mm	43.5 kg	IH 070
24148	Spherical roller bearing	240 mm	400 mm	160 mm	83 kg	IH 090
23260	Spherical roller bearing	300 mm	540 mm	192 mm	190 kg	IH 210
24192	Spherical roller bearing	460 mm	760 mm	300 mm	560 kg	IH 240



10.3 Selection and overview



IH 030 with yoke 55 x 55 x 240mm, without workpiece.



IH 030 with yoke 55 x 55 x 240mm, with bearing, in temperature mode.

simatherm IH 030

Efficient heater for workpieces up to max. 30 kg and a max, inner diameter of 300 mm.

Designation	Voltage	Frequency	Amperage	Power
IH 030/230V	220 - 230V	50Hz	16A	3.7 kVA
IH 030/115V	110 - 115V	60Hz	19A	2.2 kVA
IH 030/100V	100V	50-60Hz	15A	1.5 kVA

Туре	IH 030
Description	Heater for small and medium sized work- pieces
Max. weight of workpiece Bore diameter	30 kg 20 - 400mm
Temperature range Magnetic probe Accuracy	0 - 250°C yes, Typ J ± 3°C
Range of time control accuracy	0 - 60 minutes ± 0.01 seconds
Maximum temperature (approx.)	400°C (only possible in the time mode)
Thermometer mode	yes
Bearing temperature mode	yes
Power reduction	no
Automatic demagnetisation residual magnetism	yes < 2A/cm
Can heat sealed bearings	yes
Can heat pre-greased bearings	yes
Error guiding codes	yes
Thermal overload protection	yes
Max. magnetic flux	1.5 T
Control panel	Keyboard with LED-display
Size of operating area (WxH)	130 x 95mm
Coil diameter	-
Dimensions (WxDxH)	290 x 255 x 255mm
Overall weight including yokes	27 kg
Standard yokes	55 x 55 x 240mm for bearings with bore diameters of 78mm 28 x 28 x 240mm for bearings with bore diameters of 40mm 14 x 14 x 240mm for bearings with bore diameters of 20mm
Core cross section	55 x 55mm
Yoke storage	yes
Swivel arm	optional
Cooling fan	-
Housing material	Glass-fibre reinforced polyester
Included in delivery	Induction heater, yoke storage, 3 standard yokes, magnetic probe, gloves, instruction manual



10.3 Selection and overview



IH 070 with yoke 55 x 55 x 275mm, without workpiece.



IH 070 with yoke 55 x 55 x 275mm, with bearing, in temperature mode.



IH 070 with yoke 55 x 55 x 275mm, with bearing, in temperature mode.

simatherm IH 070

Efficient heater for workpieces up to max. 80 kg and a max, inner diameter of 400 mm.

Designation	Voltage	Frequency	Amperage	Power
IH 070/230V	220 - 230V	50Hz	16A	3.7 kVA
IH 070/115V	110 - 115V	60Hz	19A	2.2 kVA
IH 070/100V	100V	50-60Hz	20A	2.0 kVA

III 0/0/100V	1007	3U-0UHZ	20A	2.0 KVA	
Туре		IH 070			
Description		Heater for small and medium sized work- pieces			
Max. weight of wo Bore diameter	rkpiece	80 kg 20 - 400mm			
Temperature range Magnetic probe Accuracy)	0 - 250°C yes, Typ K ± 3°C			
Range of time con accuracy	trol	0 - 60 minutes ± 0.01 second			
Maximum tempera	ture (approx.)	400°C (only po	ossible in the t	time mode)	
Thermometer mod	le	yes			
Bearing temperatu	re mode	yes			
Power reduction		yes / 20-40-60	0-80 %		
Automatic demagnerism		yes < 2A/cm			
Can heat sealed b	earings	yes			
Can heat pre-gree	ised bearings	yes			
Error guiding code	!S	yes			
Thermal overload	protection	yes			
Max. magnetic flux	(1.5 T			
Control panel		Keyboard with LED-display			
Size of operating of	irea (WxH)	145 x 205 mm			
Coil diameter		115 mm			
Dimensions (WxDx	tH)	420 x 280 x 345 mm			
Overall weight inc	luding yokes	35 kg			
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 55 mm			
Yoke storage	Yoke storage		yes, internal		
Swivel arm	Swivel arm		optional		
Cooling fan		-			
Housing material		Aluminium			
Included in delivery		Induction heat yokes, magnet manual		ge, 3 standard res, instruction	



10.3 Selection and overview



IH 090 with swivel arm and 55 x 55 x 275 mm top yoke.



IH 090 with swivel arm an top yoke 28 x 28 x 275 mm.



simatherm IH 090

Efficient heater for workpieces up to max. 120kg and a max. inner diameter of 400mm.

Designation	Voltage	Frequency	Amperage	Power
IH 090/400V	400 - 460V	50-60Hz	16A	6.4 - 7.4 kVA
IH 090/200V	200V	50-60Hz	25A	5.0 kVA

IH 090/200V	2007	50-60Hz	25A	5.0 KVA	
Туре		IH 090			
Description		Heater with fan cooling for permanent operation and small and medium sized workpieces			
Max. weight of wo	orkpiece	120 kg 20 - 400 mm			
Temperature rang Magnetic probe Accuracy	je	0 - 250°C Yes, Typ K ± 3°C			
Range of time coraccuracy	ntrol	0 - 60 minutes ± 0.01 second			
Maximum temper	ature (approx.)	400°C (only po	ossible in the ti	me mode)	
Thermometer mo	de	yes			
Bearing temperat	ure mode	yes			
Power reduction		yes / 20-40-60	0-80 %		
Automatic demag residual magnetis	sm	yes < 2A/cm			
Can heat sealed	pearings	yes			
Can heat pre-gre	ased bearings	yes			
Error guiding cod	es	yes			
Thermal overload	protection	yes			
Max. magnetic flu	JΧ	1.5 T			
Control panel		Keyboard with LED-display			
Size of operating	area (WxH)	145 x 205 mm			
Coil diameter		115 mm			
Dimensions (WxD	×H)	420 x 280 x 420 mm			
Overall weight in	cluding yokes	37 kg			
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	Core cross section		55 x 55 mm		
Yoke storage		yes, internal			
Swivel arm		yes			
Cooling fan		yes			
Housing material		Aluminium			
Included in delivery		Induction heat yokes, swivel c instruction ma	arm, magnetic		



10.3 Selection and overview



IH 210 with sliding yoke 70 x 70 x 420 mm. Bearing is heated in temperature mode on horizontal yoke.



IH 210 mit yoke 40 x 40 x 420 mm. If the sliding yoke is removed, smaller yokes can be used.



IH 210 with bearing around coil. This position of the bearing guarantees the best efficiency of the heater.

simatherm IH 210

Efficient heater for workpieces up to max. 300kg and a max. inner diameter of 600mm.

Designation	Voltage	Frequency	Amperage	Power
IH 210/400V	400 - 460V	50-60Hz	25A	10 - 11.5kVA
IH 210/200V	200V	50-60Hz	40A	8.0 kVA

111 2 10/ 200 200 200 200 200 200 200 200 200 2	30-00112 40A 8.0 KVA			
Туре	IH 210			
Description	Heater for big workpieces			
Max. weight of workpiece Bore diameter	300 kg 60 - 600 mm			
Temperature range Magnetic probe Accuracy	0 - 250°C Ja, Typ K ± 3°C			
Range of time control accuracy	0 - 60 minutes ± 0.01 seconds			
Maximum temperature (approx.)	400°C (only possible in the time mode)			
Thermometer mode	yes			
Bearing temperature mode	yes			
Power reduction	yes / 20-40-60-80 %			
Automatic demagnetisation residual magnetism	yes < 2A/cm			
Can heat sealed bearings	yes			
Can heat pre-greased bearings	yes			
Error guiding codes	yes			
Thermal overload protection	yes			
Max. magnetic flux	1.5 T			
Control panel	Keyboard with LED-display			
Size of operating area (WxH)	250 x 250 mm			
Coil diameter	135 mm			
Dimensions (WxDxH)	650 x 350 x 420 mm			
Overall weight including yokes	75 kg			
Standard yokes	70 x 70 x 420 mm sliding yoke for bearings with bore diameters of 100mm 40 x 40 x 420 mm for bearings with bore diameters of 60mm			
Core cross section	70 x 70 mm			
Yoke storage	yes, internal			
Swivel arm	-			
Sliding yoke	yes			
Cooling fan	optional			
Housing material	Aluminium			
Included in delivery	Induction Heater, sliding yoke 70 x 70 x 420 mm, 40 x 40 x 420 mm top yoke, magnetic probe, gloves, instruction manual			
Special executions:				
IH 210F/400V IH 210-XL/400V IH 210F-XL/400V	execution with fan execution XL with operating area 250 x 320mm execution XL with fan and operating area			

250 x 320mm



10.3 Selection and overview



IH 240 with sliding yoke 100 x100 x 570mm, without workpiece.



IH 240 with sliding yoke, bearing placed around the coil.



The IH 240 heater can easily be moved with a forklift.

simatherm IH 240

Efficient heater for very big workpieces up to max. 800kg and a max. inner diameter of 850mm.

Designation	Voltage	Frequency	Amperage	Power
IH 240/400V	400 - 460V	50-60Hz	60A	24 kVA
IH 240/575V	575V	60Hz	42A	24 kVA

IH 240/575V	575V	60Hz	42A	24 kVA	
Туре		IH 210			
Description		Heater for big and very big workpieces			
Max. weight of we	orkpiece	800 kg			
Bore diameter		142 - 850 mm			
Temperature rang	је	0 - 250°C			
Magnetic probe			Ja, Typ J		
Accuracy		± 3°C			
Range of time co	ntrol	0 - 60 minutes			
accuracy Maximum temper	ratura (approx)	± 0.01 second	us ossible in the tir	ma mada)	
			ossible in the ill	ne mode)	
Thermometer mo		yes			
Bearing temperat	ore mode	yes / 50%			
Automatic demag	notication	yes / 3070			
residual magnetis		< 2A/cm			
Can heat sealed		yes			
Can heat pre-gre		yes			
Error guiding cod		yes			
Thermal overload		yes			
Max. magnetic flu		1.5 T			
Control panel		Keyboard with LED-display			
Size of operating	area (WxH)	330 x 355 mm			
Coil diameter	ì	186 mm			
Dimensions (WxD	xH)	750 x 400 x 9	35 mm		
Overall weight in	cluding yokes	300 kg			
Standard yokes		100 x 100 x 570 mm sliding yoke for bea-			
		rings with bore diameters of 142mm			
Core cross section	n	100 x 100 mn	n		
Yoke storage		-			
Swivel arm		-			
Sliding yoke		yes			
Cooling fan		optional			
Housing material		steel			
Included in delive	ry	Induction Heater, sliding yoke 100 x 100 x 570 mm, magnetic probe, gloves, instruction manual			
Special executi	ons:				
IH 240F/400V		execution with fan			
Special sizes avai	ilable on				
request					