



MAINTENANCE TOOLS

Equipping you to install, remove and service bearings, gears, wheels and other industrial and automotive parts.



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Less Friction. More Solutions.

With more than 100 years of *experience* in bearing technology, Timken understands the importance of proper maintenance procedures in *maximizing product and equipment life*. High-quality Timken maintenance products help to decrease downtime and operating costs.

Our line of maintenance tools are an example of how we extend *beyond bearings* with friction management solutions to keep your business running smoothly. These value-added products are grounded in our knowledge of motion, lubrication, friction and metallurgy. They are designed to help you *extend bearing life* in your applications through proper installation, removal and service.

For more than 100 years, Timken has provided quality products to the industrial marketplace. Our maintenance tools are made to the same *standards you've come to expect* from Timken[®] bearings. Our field support team is available to help you use these tools appropriately, as well as identify other Timken solutions that may *boost your productivity* and *save you money*.

Through our products, programs and services, we're providing less friction and more solutions to help you *achieve greater success*.

For more information, contact your local Timken distributor or sales representative.



USER SAFETY INSTRUCTIONS

WARNING:

Proper maintenance and handling practices are critical. Failure to follow user manual can result in equipment failure, creating a risk of serious bodily harm.

Hydraulic Puller Warning

- Check condition of puller before use.
- If there are indications of wear and tear such as ground-down parts, overloaded parts, or worn-out parts exchange them with new parts.
- Do not use a hammer when operating spindle.
- If any indications of overload, stiff working, etc., occur during pulling, please stop the procedure at once. Try to use a larger or different type of puller if necessary.
- For proper puller engagement, the jaws/legs should be centered.
- When pulling, make sure puller and pulled part are kept covered by the safety blanket provided.
- When operating the puller, please wear protective clothing, including safety shoes, protective glasses, gloves and helmet.
- Spindle and puller body should always be kept clean and oiled.

Induction Heater Warning



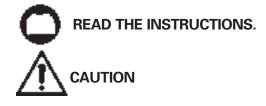
DO NOT WEAR METAL OBJECTS OR WATCHES.



USE HEAT-PROTECTIVE GLOVES.

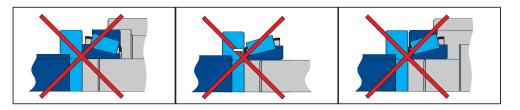


PROHIBITED FOR PEOPLE WITH A PACEMAKER AND/OR HEARING AID.



Impact Fitting Tool Warning

- When operating the impact fitting tool, please wear protective clothing, including safety shoes, protective glasses, gloves and helmet.
- Do not use the collets to mount components that have temperatures greater than 80° C (176° F).
- Never mount the cup
- and cone of a tapered bearing together or mount a cone from the front face.



INDUCTION HEATERS

Timken offers a large assortment of high-quality induction heaters designed for demanding industrial applications. They can heat and radially expand a wide variety of gears, rings, couplings, bearings and other components.

All heaters are produced in accordance with International (IEC) and European (CE) health and safety requirements. They feature a microprocessorcontrolled power supply, automated time and temperature control and automatic demagnetization.

WHY CHOOSE AN INDUCTION HEATER?

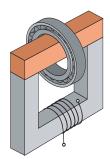
Induction heating is a superior, fast and controlled heating method. It is a safer and more environmentally friendly alternative to traditional heating methods such as ovens, oil baths or blow torches. These methods cause fumes or oil waste and are not recommended for personal health and safety.

Timken induction heaters use the principle of induction, similar to a transformer. The heater and yokes remain cool; only the work piece is heated. During the induction heating cycle, a certain degree of magnetism occurs. All Timken heaters demagnetize automatically after each heating cycle.

VERSATILITY, SAFETY AND QUALITY

Timken induction heaters can be used for heating gear wheels, bushings, couplings and other components. Proper mounting may lengthen the life span of your equipment, and controlled induction heating helps to prevent unnecessary damage.

Digital electronics provide optimum control during the heating process and automatically select the most efficient power supply to help ensure balanced and fast heating.



VHIN 10 Model

Portable design, easy to use, ideal for on-site jobs. Includes four yokes.

Min. Bore 15 mm (0.6") Max. O.D. 210 mm (8.3") Max. Width 120 mm (4.8") Max. Weight 15 kg (33 lbs.)

PART NUMBER AVAILABLE: VHIN 101US 120V, Yoke set: 10/14/20/40

VHIN 35 Model

Basic model with choice of four yokes. Picture at right shows optional vertical support arm.

Min. Bore 15 mm (0.6") Max. O.D. 480 mm (18.9") Max. Width 150 mm (5.9") Max. Weight 35 kg (77 lbs.) Heats parts in horizontal and vertical positions.

PART NUMBER AVAILABLE: VHIN 351US 120V, Yoke set: 10/20/40/60, Horizontal Support



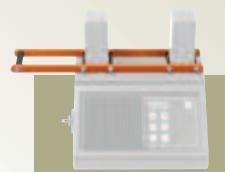


VHIS 35 Model

This bench-top model features a unique swing arm for ergonomic working.

Min. Bore 15 mm (0.6") Max. O.D. 480 mm (18.9") Max. Width 150 mm (5.9") Max. Weight 35 kg (77 lbs.)

PART NUMBER AVAILABLE: VHIS 353US 120V, Yoke set and carrier: 10/14/20/30/40/50/60, Horizontal Support



Support for VHIS 35 for heating in vertical position included with the VHIS 353US.



Plua

All digital controls operate by time or temperature in degrees Celsius or Fahrenheit.

NEW HEATER MODELS: TURBO DESIGN

CH(O)(CE

Powerful turbo design for demanding industrial applications.

Maximize capacity both in terms of work-piece size and heating capability.

Plug & Heat design, our 120V model arrives ready to go, equipped with molded plug.

Efficient heating – All Timken heaters automatically select the most efficient power reduction to ensure optimal and balanced heating.

VHIS 75 Model

Plug & Heat turbo swing arm model.

Min. Bore 15 mm (0.6") Max. O.D. 750 mm (29.5") Max. Width 230 mm (9.1") Max. Weight 95 kg (209.4 lb)

 PART NUMBER AVAILABLE:

 VHIS 754US
 120V, Yoke set and carrier: 10/14/20/30/40/50/60, Horizontal Support

HEATING EXAMPLES: 20° C – 110° C (68° F – 230° F)							
Voltage	Work Piece	Weight	0.D.	Bore	Time to Heat		
120V	6314	2.6 kg (5.7 lbs.)	150 mm (5.9")	70 mm (2.8")	1.5 minutes		

Yoke Set



Plug



VHIS 100 Model

Large capacity bench-top model with swing arm.

Min. Bore 30 mm (1.2") Max. O.D. 720 mm (28.3") Max. Width 200 mm (7.9") Max. Weight 125 kg (275 lbs.)

PART NUMBER AVAILABLE: VHIS 1011US 500V, Yoke set: 20/30/40/50/70

VHIS 200 Model

Mobile heavy-duty heater with unique swing arm.

Min. Bore 30 mm (1.2") Max. O.D. 1020 mm (40.2") Max. Width 265 mm (10.4") Max. Weight 250 kg (551 lbs.)

 PART NUMBER AVAILABLE:

 VHIS 2007US
 500V, Yoke set: 20/30/40/60/80





VHIS 300 Model

Mobile heavy-duty heater with unique swing arm.

Min. Bore 30 mm (1.2") Max. O.D. 1020 mm (40.2") Max. Width 265 mm (10.4") Max. Weight 350 kg (772 lbs.

 PART NUMBER AVAILABLE:

 VHIS 3005US
 500V, Yoke set: 20/30/40/60/80





Revolving operating panel on VHIS 200 and VHIS 300 models.

VHIS 400 Models Turbo Design

Mobile extra-powerful heater with unique swing arm.

Min. Bore 60 mm (2.4") Max. O.D. 920 mm (36.2") Max. Width 350 mm (13.8") Max. Weight 550 kg (1,212 lbs.)

PART NUMBER AVAILABLE: VHIS 4003US 500V, Yoke set: 40/60/80

> Sliding support for VHIS 400 for heating in vertical position.

HEATING EXAMPLES: 20° C – 110° C (68° F – 230° F)							
Work piece	iece Weight		Bore	Time to			
				Heat			
Bearing 23156	95.8 kg	460 mm	280 mm	4.0 minutes			
	(211 lbs.)	(18.1")	(11.0")				
Gear wheel	300 kg	600 mm	210 mm	3.0 minutes			
	(661 lbs.)	(23.6")	(8.3")				



TEMPERATURE PROBE:

Each Timken induction heater model is supplied with a magnetic temperature probe. A clamp also is available for nonferrous components. Replacement probes, part number VHIA 100001, can be purchased separately.

VHIN 550 Models

Powerful heater for exceptionally heavy components up to 600 kg (1,322 lbs.). Popular in workshops within steel mills, paper mills and gear box manufacturing. Heats parts in horizontal and vertical positions.

Min. Bore 85 mm (3.4") Max. O.D. 900 mm (35.4") Max. Width 400 mm (15.8") Max. Weight 600 kg (1,322 lbs.)

PART NUMBER AVAILABLE: VHIN 5504US 500V, 150 Yoke and Flash Alarm

VHIN 800 Models

Powerful heater for exceptionally heavy components up to 1,250 kg (2,750 lbs.). Popular in workshops within steel, rail, wind, paper and gear box operations. Heats parts in horizontal and vertical positions.

Min. Bore 85 mm (3.4") Max. O.D. 1400 mm (55.1") Max. Width 420 mm (16.5") Max. Weight 1250 kg (2,750 lbs.)

PART NUMBER AVAILABLE: VHIN 8004US 500V, 150 Yoke and Flash Alarm



VHIN 900 Models

Custom size and capacity design. Powerful heater for exceptionally heavy components up to 11,000 kg (24,251 lbs.).

Min. Bore 145 mm (5.7") Max. O.D. 2500 mm (98.4") Max. Width 700 mm (27.6")

For part numbers and custom configurations, contact your Timken sales representative.

Contact your local Timken sales representative for assistance in building a custom solution for extremely large heaters.



TIMKEN INDUCTION HEATE	ERS TECHNIC	AL DATA:		
Туре	VHIN 10	VHIN 35	VHIS 35	VHIS 75
ELECTRICITY				
Power Rating	3.6 k VA	3.6 kVA	3.6 kVA	3.6 kVA
Voltage/Current	120V/20A	120/20A	120/20A	120V/15A
Different Voltage Option	_	_	_	
Frequency	50/60 Hz	50/60Hz	50/60Hz	50/60Hz
Swing Arm	No	No	Yes	Yes
Plug	Yes	Yes	Yes	Yes
WORK PIECE				
Max. Weight				
- Bearings	15 kg (33.1 lbs.)	35 kg (77.2 lbs.)	35 kg (77.2 lbs.)	95 kg (209.4 lbs.)
- Other Parts	10 kg (22.1 lbs.)	20 kg (44.1 lbs.)	20 kg (44.1 lbs.)	50 kg (110.2 lbs.)
Min. Bore Diameter	15 mm (0.6")	15 mm (0.6")	15 mm (0.6")	15 mm (0.6")
Max O.D.	210 mm (8.3")	340/480 mm	340/480 mm	520/750 mm
Vertical/Horizontal		(13.39"/18.9")	(13.4"/18.9")	(20.5"/29.5")
Max. Work Piece Width	120 mm (4.8")	150 mm (5.9")	150 mm (5.9")	230 mm (9.1")
POLE DIMENSIONS				
Area between the poles	120 x 130 mm	150 x 140 mm	150 x 140 mm	200 x 230 mm
Width x Height	(4.8" x 5.1")	(5.9" x 5.5")	(5.9" x 5.5")	(7.9" × 9.1")
Pole Section	40 mm (1.6")	60 mm (2.4")	60 mm (2.4")	120/60 mm
Pole Height	130 mm (5.1")	140 mm (5.5")	140 mm (5.5")	(2.4"/4.7") 230 mm (9.1")
CONTROLS				
Temperature Control				
Max. Temp	150° C (302° F)	240° C (464° F)	240° C (464° F)	240° C (464° F)
Time Control				
Max. Time	0 – 30 Min.	0 – 45 Min.	0 – 45 Min.	0 – 45 Min.
Auto Power Reduction		_		Automatically
DIMENSIONS				
Dimensions	435 x 225 x 275	340 x 290 x 310	340 × 290 × 380	440 x 370 x 360
	mm (17.1" x 8.9" x	mm (13.4" x 11.4"	mm (13.4" x 11.4"	mm (17.3" x 14.6"
	10.8")	x 12.2")	x 15.0")	x 14.2")
Package Size	500 x 250 x 350	600 × 450 × 600	600 × 450 × 600	700 x 500 x 700
	mm (19.7" x 9.8" x	mm (23.6" x 17.7"	mm (23.6" x 17.7"	mm (27.6" x 19.7"
	13.8")	x 23.6")	x 23.6")	x 27.6")
Mass Heater Body	21 kg (46.3 lbs.)	29 kg (63.9 lbs.)	31 kg (68.3 lbs.)	38 kg (83.8 lbs.)
(excludes yokes)	(includes yokes)			

VHIS 200	VHIS 300	VHIS 400	VHIN 550	VHIN 800
12 kVA	24 kVA	12 kVA	24 kVA	40 kVA
500V	500V	500V	500V	500V
32A	63A	32A	63A	100A
<u> </u>	230V	_	<u> </u>	
50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Yes	Yes	Yes	No	No
— — — — — — — — — — — — — — — — — — —			_	—
250 kg (551.2 lbs.)	350 kg (771.6 lbs.)	550 kg (1,212.5 lbs.)	600 kg (1,322.8 lbs.)	1250 kg (2,750 lbs.)
150 kg (330.7 lbs.)	250 kg (551.2 lbs.)	450 kg (992.1 lbs.)	350 kg (771.6 lbs.)	750 kg (1,653.5 lbs.)
30 mm (1.2")	30 mm (1.2")	60 mm (2.4")	85 mm (3.4")	85 mm (3.4")
700/1020 mm	700/1020 mm	920 mm (36.2")	900 mm (35.4")	1400 mm (55.1")
(27.6"/40.2")	(27.6"/40.2")			
265 mm (10.4")	265 mm (10.4")	350 mm (13.8")	400 mm (15.8")	420 mm (16.5")
265 x 310 mm	265 x 320 mm	350 x 305 mm	390 x 400 mm	660 x 420 mm
(10.4" x 12.2")	(10.4" × 12.6")	(13.8" x 12.0")	(15.4" x 15.8")	(26.0" x 16.5")
80 mm (3.2")	110 x 80 mm	170/110 x 80 mm	100 mm (3.9")	150 mm (5.9")
	(4.3" x 3.2")	(6.7"/4.3" x 3.2")		
310 mm (12.2")	320 mm (12.60")	305 mm (12.0")	390 mm (15.4")	660 mm (26.0")
240° C (464° F)	240° C (464° F)	240° C (464° F)	240° C (464° F)	240° C (464° F)
0 – 99 Min.	0 – 99 Min.	0 – 99 Min.	0 – 99 Min.	0 – 99 Min.
Automatically	Automatically	Automatically	Automatically	Automatically
950 x 640 x 1000	950 x 640 x 1000	1200 x 640 x 1000	1000 x 500 x 1350	1500 x 600 x 1470
mm (37.4" x 25.2"	mm (37.4" x 25.2"	mm (47.2" x 25.2"	mm (39.4" x 19.7"	mm (59.1" x 23.6"
× 39.4")	x 39.4")	x 39.4")	x 53.2")	x 57.9")
1140 x 750 x 1000	1140 x 750 x 1000	1250 x 750 x 1000	1400 x 700 x 1600	1920 x 950 x 1720
mm (44.9" x 29.5"	mm (44.9" x 29.5"	mm (49.2" x 29.5"	mm (55.1" x 27.6"	mm (75.6" x 37.4" x
x 39.4")	x 39.4")	x 39.4")	x 63.0")	67.7")
120 kg (264.55 lbs.)	175 kg (385.8 lbs.)	205 kg (452.0 lbs.)	200 kg (440.9 lbs.)	660 kg (1,455.1 lbs.)
	500V 32A — 50/60Hz Yes — 250 kg (551.2 lbs.) 150 kg (330.7 lbs.) 30 mm (1.2") 700/1020 mm (27.6"/40.2") 265 mm (10.4") 265 mm (10.4") 265 x 310 mm (10.4" x 12.2") 80 mm (3.2") 310 mm (12.2") 310 mm (12.2") 0 – 99 Min. Automatically 950 x 640 x 1000 mm (37.4" x 25.2" x 39.4") 1140 x 750 x 1000 mm (44.9" x 29.5" x 39.4")	$500V$ $500V$ $32A$ $63A$ $230V$ $50/60Hz$ $50/60Hz$ YesYes250 kg (551.2 lbs.) $350 kg (771.6 lbs.)$ $150 kg (330.7 lbs.)$ $250 kg (551.2 lbs.)$ $30 mm (1.2")$ $30 mm (1.2")$ $700/1020 mm$ $700/1020 mm$ $(27.6"/40.2")$ $(27.6"/40.2")$ $265 mm (10.4")$ $265 mm (10.4")$ $265 x 310 mm$ $265 x 320 mm$ $(10.4" x 12.2")$ $(10.4" x 12.6")$ $80 mm (3.2")$ $110 x 80 mm$ $(4.3" x 3.2")$ $310 mm (12.2")$ $310 mm (12.2")$ $320 mm (12.60")$ 240° C (464° F) 240° C (464° F) $0 - 99$ Min. $0 - 99$ Min.AutomaticallyAutomatically $950 x 640 x 1000$ $mm (37.4" x 25.2"x 39.4")950 x 640 x 1000mm (44.9" x 29.5"x 39.4")$	500V $500V$ $500V$ $32A$ $63A$ $32A$ $230V$ $50/60Hz$ $50/60Hz$ $50/60Hz$ $50/60Hz$ $50/60Hz$ $50/60Hz$ Yes Yes Yes 2000 2000 $$ 2000 S50 kg (551.2 lbs.) $550 kg (1,212.5 lbs.)$ 150 kg (330.7 lbs.) 250 kg (551.2 lbs.) 450 kg (992.1 lbs.) 30 mm (1.2") 30 mm (1.2") $60 mm (2.4")$ 700/1020 mm 920 mm (36.2") (27.6"/40.2") 265 mm (10.4") 265 mm (10.4") 350 mm (13.8") 265 x 310 mm 265 x 320 mm 350 x 305 mm (10.4" x 12.6") (13.8" x 12.0") 80 mm (3.2") 310 mm (12.2") 320 mm (12.6") 305 mm (12.0") 80 mm (3.2") 1110 x 80 mm (6.7"/4.3" x 3.2") 240° C (464° F) 240° C (464° F) 240° C (464° F) 240° C (464° F) 240° C (464° F) 240° C (464° F) <t< td=""><td>500V 500V 500V 500V 32A 63A 32A 63A 230V 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz Yes Yes No 250 kg (551.2 lbs.) 350 kg (771.6 lbs.) 550 kg (1,212.5 lbs.) 600kg (1,322.8 lbs.) 30 mm (1.2") 30 mm (1.2") 60 mm (2.4") 85 mm (3.4") 700/1020 mm 700/1020 mm 920 mm (36.2") 900 mm (35.4") 265 mm (10.4") 265 mm (10.4") 350 x 305 mm 390 x 400 mm (10.4" x 12.2") (10.4" x 12.6") (13.8" x 12.0") (15.4" x 15.8") 80 mm (3.2") 110 x 80 mm 350 x 305 mm 390 x 400 mm (10.4" x 12.6") (13.8" x 12.0") 390 mm (15.4") 310 mm (12.2") 300 mm (12.6") 390 mm (15.4") 240° C (464° F) 240° C (464° F)</td></t<>	500V 500V 500V 500V 32A 63A 32A 63A 230V 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz 50/60Hz Yes Yes No 250 kg (551.2 lbs.) 350 kg (771.6 lbs.) 550 kg (1,212.5 lbs.) 600kg (1,322.8 lbs.) 30 mm (1.2") 30 mm (1.2") 60 mm (2.4") 85 mm (3.4") 700/1020 mm 700/1020 mm 920 mm (36.2") 900 mm (35.4") 265 mm (10.4") 265 mm (10.4") 350 x 305 mm 390 x 400 mm (10.4" x 12.2") (10.4" x 12.6") (13.8" x 12.0") (15.4" x 15.8") 80 mm (3.2") 110 x 80 mm 350 x 305 mm 390 x 400 mm (10.4" x 12.6") (13.8" x 12.0") 390 mm (15.4") 310 mm (12.2") 300 mm (12.6") 390 mm (15.4") 240° C (464° F) 240° C (464° F)

CHOOSE YOUR HEATER

Induction Heater Selection Guide

The size and weight of your product will help determine which heater is right for your equipment. Please note that there is an overlap between models and that the model color on the left corresponds with the colors in the chart. The larger models offer faster product heating.

SELECTION GUIDE USING WEIGHT AND O.D **O.D. Diameter** MODEL 900 2500 mm (97") **MODEL 800** 1400 mm (55") **MODEL 550** 1020 mm (40") MODEL 400 920 mm (36") **MODEL 300** 900 mm (35") MODEL 200 750 mm (29") MODEL 100 720 mm (28") 480 mm MODELS 75 (19") 210 mm MODELS 35 (8") MODEL 10 0 kg 15 kg 35 kg 95 kg 125 kg 250 kg 350 kg 550 kg 600 kg 1250 kg 11,000 kg (33 lbs.) (77 lbs.) (209 lbs.) (275 lbs.) (550 lbs.) (770 lbs.) (1.210 lbs.) (1.320 lbs.) (2.750 lbs.) (24,250 lbs.)

Weight

For maximum width see technical specifications on pages 10-11.



Order Example

You need a work piece to heat fast for production use. The work piece has an O.D. of nine inches and weighs 16 pounds. You work in the U.S. and need a standard 120V-style plug. Using the chart at left, Timken recommends the VHIS 75 model. The order number is VHIS 754US.



INCLUDED WITH ALL TIMKEN HEATER MODELS

		Temperature
	Digital display	Time
		Error Report
ELECTRONICS	Sound signal	Yes
	Temperature hold	Yes
	Demagnetizing, <2A/cm	Yes
	Thermal safety guard	Yes
	Magnetic temperature probe	Yes
	Yokes, different size	Yes (except 550, 800 and 900 models)
MISCELLANEOUS	Warranty, electronics	Three years
	400° F Heat-resistant gloves	Yes
	Instructions for proper use	Yes

IMPACT FITTING TOOL

Proper mounting is essential to ensure long bearing life. Designed to permit the safe, precise and quick mounting of bearings, bushings, sealing rings, cam wheels and pulleys, the Timken Impact Fitting Tool Set features impact-resistant plastic collets. These help deter metal-to-metal contact and the resulting shaft damage.

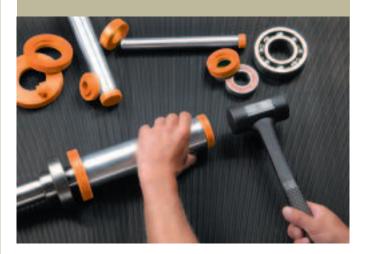
During the mounting of bearings where the faces lie in the same plane, the collets enable the load to be transmitted to the ring experiencing the interference fit. In this way, mounting forces are not transmitted via the rolling elements and damage to the raceways is avoided.

THIS METRIC MOUNTING SET CONSISTS OF:

- 33 Collets
- Three Sleeves
- One Impact Hammer: Mass 0.7 kg (1.5 lbs.)
- Case: 430 x 320 x 100 mm (16.9" x 12.6" x 4.0")

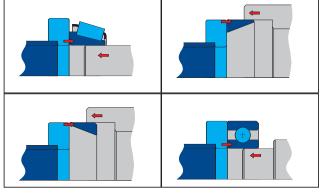


PART NUMBER VIFT 3300

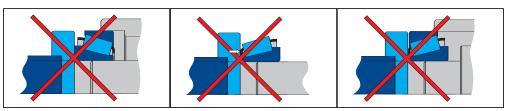


▼ Care should be taken when mounting tapered roller bearings. The cup can be mounted in either direction, but the cone can only be mounted from the back face. This

ensures that the cage does not overhang. Never mount a cup and cone together or mount a cone from the front face. This will avoid damage to the cage and raceways which could lead to catastrophic failure.



▲ Proper mounting allows the load to be transmitted to the ring experiencing the interference fit. Mounting forces are not transmitted via the rolling elements, helping to prevent damage to the raceways.



IMPAC		NG TOOL SELECTI	ON GU	IDE						
Sleeve	Ring	All ISO Bearings Codes				22.22	222.212		202 222	220 212
Oleeve	Tung	Ending with:	60, 62, 63, 64	12, 22, 13, 23	70, 72B, 73B	32, 33	222, 213, 223	NU, NJ, N 2 3 4	302, 322, 303, 330	320, 313, 323, 332
A1	10-26	000	6000	129	7000					
	10-30	200	6200	1200		3200				
			2200							
	10-35	300	6300	1300	7300					
	12-28	001	6001		<u></u>					
	12-32	201	6201	1201		3201				
	12-37	301	2201 6301	1201	7201					
	12-37	301	2301	1301	7301					
	15-32	002	6002							
	15-35	202	6202	1202	7202B	3202				
			2202			0202				
	15-42	302	6302	1302		3302			30302	
			2302							
	17-35	003	6003							
			16003							
	17-40	203	6203	1203	7203B	3203			30203	
	47.17		2203	1000	70000	0000			000000	000000
	17-47	303	6303	1303	7303B	3303			30303	32303
B2	20-42	004	2303 6004		7004					32004
DZ	20-42	204	6204	1204	7004 7204B	3204		204	30204	32004
	20-47	204	2204	1204	7204D	3204		204	30204	
	20-52	304	6304	1304	7304B	3304	21304	304	30304	32304
	20 02	403	6403	2304	70018	0001	21001		00001	02001
	25-47	005	6005		7005					32005
	25-52	205	6205	1205	7205B	3205	22205	205	30205	33205
			2205					32205		
	25-62	305	6305	1305	7305B	3305	21305	305	30305	31305
		404	6404	2305						32305
	30-55	006	6006	4000	70000		00000			32006
	30-62	206	6206	1206	7206B	3206	22206	206	30206	33206
	20.72	306	2206 6306	1206	72060	2206	21206	32206	20206	21206
	30-72	405	6405	1306 2206	7306B	3306	21306	306 405	30306	31306 32306
C3	35-62	007	6007	2200	7007			403		32007
00	35-72	207	6207	1207	7207B	3207	22207	207	30207	33207
			2207					32207		00207
	35-80	307	6307	1307	7307B	3307	21307	307	30307	31307
		406	6406	2307				406		32307
	40-68	008	6006							32008
	40-80	208	6208	1208	7208B	3208	22208	208	30208	33208
								32208		
	40-90	308	6308	1308	7308B	3308	21308	308	30308	31308
	45.75	407	6407	2308			22308	407	22000	32308
	45-75	009 209	6009 6209	1209	7209B	3209	22209	209	32009 30209	33209
	45-85	209	2209	1209	7209B	3209	22209	32209	30209	33209
	45-100	309	6309	1309	7309B	3309	21309	309	30309	31309
	10 100	408	6408	2309	7.5000	0000	22309	408	00000	32309
	50-80	010	6010						33010	32010
	50-90	210	6210	1210	7210B	3210	22210	210	30210	33210
			2210					32210		
									JM205149/	JM205110
	50-110	310	6310	1310	7310B	3310	21310	310	30310	31310
		409	6409	2310			22310	409		32310
		0, 50-110 also fit the following b		e only the	outer ring	is to be fi	ted, e.g., sł	natt not in	stalled:	
C3	50-90		6011 6012							
	45-100		6012	1211	7211B	3211	22211	211		
	45-100		6211	2211	7211B 7212B	3211	22211	211		
	50-110		6014	1212	7212B 7213B	3212	22212	212		
	00 110		6015	1212	72100	3212	22212	212		
			6212	2213		3213	21311	311		
			6213	2213			22311	410		
			6311	1311						
			6410	2311						
For tapered h	ooringo im	nact rings fit outer ring and also			m lorger e	liamotor	ida Tha ni	mboro or	ooch imp	not rir

For tapered bearings, impact rings fit outer ring and also inner ring if driving from larger-diameter side. The numbers on each impact ring (e.g., 25-62) are clearly marked on the ring. The first figure refers to shaft diameter, the second to bearing outer diameter.

HYDRAULIC PULLERS

Timken carries a wide range of self-contained portable hydraulic pulling systems that have capacities from four to 30 tons. They are ideal for removing all kinds of shaft-fitted parts.

ADVANTAGES:

- Integrated pump, cylinder, hose and puller with safety-release valve.
- Compact design: The self-contained hydraulic pump and puller saves space.
- Sets are supplied in a handy carrying case.
- Multi-purpose: Ideal for pulling a wide variety of press-fit parts including bearings, wheels, bushings, gears and pulleys.
- The pump handle rotates 360-degrees, enabling users to pull from the most convenient position.
- Pullers can be used with two or three legs.
- Available with accessories.

Model	Max. Force	1	2	3	А	В	С	D	E	F	G	Weight
VHPT4	4 t	185 mm	275 mm	60 mm	11 mm	6 mm	22 mm	32 mm	84 mm	42 mm	22 mm	4.5 kg
		(7.3")	(10.8")	(2.4")	(0.4")	(0.2")	(0.9")	(1.3")	(3.3")	(1.7")	(0.9")	(9.9 lbs.)
VHPT6	6 t	230 mm	300 mm	85 mm	11 mm	10 mm	25 mm	51 mm	122 mm	50 mm	25 mm	6.5 kg
		(9.1")	(11.8")	(3.4")	(0.4")	(0.4")	(1.0")	(2.0")	(4.8")	(2.0")	(1.0")	(14.3 lbs.)
VHPT8	8 t	230 mm	350 mm	85 mm	11 mm	10 mm	25 mm	51 mm	122 mm	50 mm	25 mm	6.5 kg
		(9.1")	(13.8")	(3.4")	(0.4")	(0.4")	(1.0")	(2.0")	(4.8")	(2.0")	(1.0")	(14.3 lbs.)
VHPT12	12 t	270 mm	375 mm	85 mm	14 mm	10 mm	29 mm	51 mm	118 mm	60 mm	28 mm	8 kg
		(10.6")	(14.8")	(3.4")	(0.6")	(0.4")	(1.1")	(2.0")	(4.6")	(2.4")	(1.1")	(17.6 lbs.)
VHPT20	20 t	360 mm	520 mm	111 mm	20 mm	27 mm	33 mm	60 mm	161 mm	80 mm	40 mm	22 kg
		(14.2")	(20.5")	(4.4")	(0.8")	(1.1")	(1.3")	(2.4")	(6.3")	(3.2")	(1.6")	(48.5 lbs.)
VHPT30	30 t	360 mm	550 mm	111 mm	20 mm	27 mm	38 mm	60 mm	155 mm	98 mm	50 mm	32 kg
		(14.2")	(21.7")	(4.4")	(0.8")	(1.1")	(1.5")	(2.4")	(6.1")	(3.9")	(2.0")	(70.6 lbs.)

Model	Puller	Arm Length	Width of Grip	Min. O.D.	Max. O.D.	Weight
VHPT490	VHPT4	250 mm (9.8")	110 mm (4.3")	25 mm (1.0")	110 mm (4.3")	8.5 kg (18.7 lbs.)
VHPT690	VHPT6	280 mm (11.0")	220 mm (8.7")	50 mm (2.0")	150 mm (5.9")	12.5 kg (21.6 lbs.)
VHPT890	VHPT8	280 mm (11.0")	210 mm (8.3")	50 mm (2.0")	150 mm (5.9")	12.5 kg (21.6 lbs.)
VHPT1290	VHPT12	325 mm (12.8")	290 mm (11.4")	80 mm (3.2")	225 mm (8.9")	18 kg (39.7 lbs.)



Part Number Quick Reference Guide

To make your maintenance tool selection easier, we've included a part number quick reference guide.

Part Number	Key Words	Timken Description
INDUCTION HE	ATERS	
VHIN101US	Induction Heater	Portable Induction Heater (US, ºF), 3.6kVA, 120V, 10/14/20/40 Yokes
VHIN351US	Induction Heater	Non-Swing Arm Induction Heater (US, ºF), 3.6kVA, 120V, 10/20/40/60 Set & Horizontal Support
VHIS353US	Induction Heater	Swing Arm Induction Heater (US, °F), 3.6kVA, 120V, 10/14/20/30/40/50/60 Set & Carrier & Horizontal Support
VHIS754US	Induction Heater	Swing Arm Induction Heater (US, °F), 3.6kVA, 120V, 10/14/20/30/40/50/60 Set & Carrier & Horizontal Support
VHIS1011US	Induction Heater	Swing Arm Induction Heater (ºF), 8kVA, 500V, 20/30/40/50/70 Yokes
VHIS2007US	Induction Heater	Swing Arm Induction Heater (°F), 12kVA, 500V, 20/30/40/60/80 Yokes
VHIS3005US	Induction Heater	Swing Arm Induction Heater (°F), 24kVA, 500V, 20/30/40/60/80 Yokes
VHIS4003US	Induction Heater	Swing Arm Induction Heater (°F), 12kVA, 500V, 40/60/80 Yokes
VHIN5504US	Induction Heater	Non-Swing Arm Induction Heater (°F), 24kVA, 500V, 100 Yoke & Flash Alarm
VHIN8004US	Induction Heater	Non-Swing Arm Induction Heater (°F), 40kVA, 500V, 150 Yoke & Flash Alarm
VHIN9003US	Induction Heater	Non-Swing Arm Induction Heater (°F), 40kVA, 500V, Custom
VHIA100001	Induction Heater	Temperature Probe

VIFT3300

Fitting Tool Impact Fitting Tool Set

HYDRAULI	C PULLERS	
VHPT4	Hydraulic Puller	Hydraulic Puller 4 ton, Reach 185 mm, Spread 275 mm
VHPT6	Hydraulic Puller	Hydraulic Puller 6 ton, Reach 230 mm, Spread 300 mm
VHPT8	Hydraulic Puller	Hydraulic Puller 8 ton, Reach 230 mm, Spread 350 mm
VHPT12	Hydraulic Puller	Hydraulic Puller 12 ton, Reach 270 mm, Spread 375 mm
VHPT20	Hydraulic Puller	Hydraulic Puller 20 ton, Reach 360 mm, Spread 520 mm
VHPT30	Hydraulic Puller	Hydraulic Puller 30 ton, Reach 360 mm, Spread 550 mm
VHPT490	Hydraulic Puller	Splitter Set 4 ton, Reach 250 mm, Spread Ø 25 mm - Ø 110 mm
VHPT690	Hydraulic Puller	Splitter Set 6 ton, Reach 280 mm, Spread Ø 50 mm - Ø 150 mm
VHPT890	Hydraulic Puller	Splitter Set 8 ton, Reach 280 mm, Spread Ø 50 mm - Ø 150 mm
VHPT1290	Hydraulic Puller	Splitter Set 12 ton, Reach 325 mm, Spread Ø 80 mm - Ø 225 mm

NOTES:

Friction Management Solutions

Industrial customers turn to Timken to provide comprehensive friction management solutions. Extending beyond bearings, these solutions include related parts and accessories, expert sales and service support, integrated logistics and a host of other programs to help keep your systems running efficiently. We help customers analyze performance and recommend solutions that make sense for their unique operating systems and conditions.



Timken's line of industrial seals.

First, the bearing. Then: How do you monitor the How do you plan to health of your bearing? lubricate the bearing? You can use StatusCheck, There are many advantages to handheld devices or Timken 🗩 using Timken lubricants. Reliability Services. Do you need a simplified method of lubricating bearings? Use Timken G-Power and M-Power single-Do you plan to point lubricators. protect machinery from contamination? There are many advantages to using

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WARNING

Proper maintenance and handling practices are critical. Failure to follow user manual can result in equipment failure, creating a risk of serious bodily harm.

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