

Application

For frequent dismantling of various sizes of cylindrical bearing inner rings, types NU, NJ and NUP mounted on a shaft with an interference fit up to n6. This tool is available in two sizes, one for inner rings with raceway diameter between 80 and 130 mm (3.15/5.12 in) and one for diameters between 130 and 170 mm (5.12/6.69 in).

Description

The tool consists of a circular yoke to which six movable yokes are attached. All yokes are made of laminated steel. Each yoke has an induction coil through which an alternating current of 50 or 60 cycles is fed. The yokes are pressed against the raceway of the inner ring to be removed. The alternating magnetic fields between the yokes pass through the ring and produce eddy currents which cause a rapid heating and expansion of the ring which can then be easily dismantled.

For remounting, TIH induction heaters with automatic demagnetisation are recommended.

Technical data

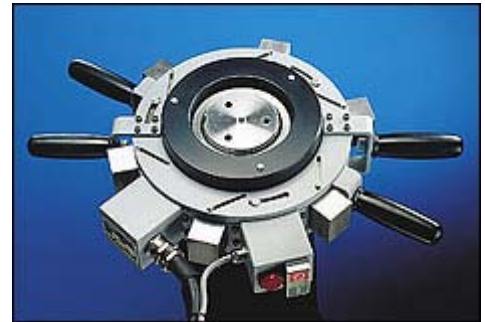
The tools can be delivered for any voltage between 230 and 500 volts, 50/60 cycles with two- or three-phase connection (see table). All units are equipped with control switches, signal for "power on" and "overheating" as well as automatic overheating protection. The 5 m (16 ft) connection cable is delivered complete with plug (DIN 49463) and a wall-connector with power relay.

Note

The use of a thermometer, TMDT 1300, TMTL 260 or TMTP 200 is always recommended. For safety reasons the shaft on which the bearing is mounted should have a good earth connection. The induction heater is earthed via the earth pin of the plug.

Operating instructions

Adjust the yokes by moving the handles so that the tool can be fitted to the ring to be withdrawn. Press the handles together until the yokes grip the track of the ring firmly. When switching on the current the yokes are strongly attracted to the ring, due to the magnetic forces.



The fit will release after 15 to 30 seconds and the ring can be rotated and withdrawn. A warning lamp indicates a too high coil temperature and the heater is switched off automatically. After cooling down, restart by pressing the "on" button.

Demagnetising

Inner rings are magnetised once they have been heated by the adjustable induction heater. Before replacing them they must be demagnetised so that no magnetism remains in the ring. For this purpose a TIH induction heater can be used.

Part ordering details

Designation	Net supply	Current
EAZ 80/130 A	2 x 230V/50 Hz	40 A
EAZ 80/130 B	2 x 400V/50 Hz	45 A
EAZ 80/130 C	2 x 460V/60 Hz	25 A
EAZ 80/130 D	2 x 415V/50 Hz	35 A
EAZ 130/170 A	2 x 230V/50 Hz	60 A
EAZ 130/170 B	2 x 400V/50 Hz	45 A
EAZ 130/170 D	3 x 230V/50 Hz	43 A
EAZ 130/170 E	3 x 400V/50 Hz	35 A
EAZ 130/170 F	3 x 460V/60 Hz	23 A
EAZ 130/170 G	3 x 420V/60 Hz	30 A
EAZ 130/170 H	3 x 415V/50 Hz	30 A

Other voltages on request.

Selection table for bearings NU

EAZ 80/130	EAZ 130/170
213 - 221	222 - 228
313 - 320	321 - 326
412 - 418	419 - 424
1014 - 1022	1024 - 1030
2213 - 2220	2222 - 2228
2313 - 2320	2322 - 2326

All E-types included.

Selection table for bearings NJ-NUP

EAZ 80/130	EAZ 130/170
213 - 220	222 - 228
313 - 319	321 - 324
412 - 417	419 - 422
1014 - 1022	1024 - 1030
2213 - 2220	2222 - 2228
2313 - 2319	2322 - 2324

All E-types included.

Technical data

Designation	EAZ 80/130		EAZ 130/170		
	Connecting cable:	Length	5 m	16 ft	5 m
Dimensions:	A	285 mm	11.2 in	335 mm	13.2 in
	B	115 mm	4.9 in	120 mm	5.3 in
	C	555 mm	21.8 in	630 mm	24.0 in
	D	305 to 360 mm	12.4 to 14.4 in	335 to 380 mm	13.4 to 15.0 in
	a	134 mm	5.3 in	180 mm	7.1 in
	b	50 mm	2.0 in	50 mm	2.0 in
	c	35 mm	1.6 in	30 mm	1.8 in
	d	80 to 132 mm	3.1 to 5.2 in	130 to 172 mm	5.1 to 6.8 in
Weight		20 kg	42 lb	25 kg	77 lb

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