Please read carefully before starting operation! 1. Should any damage occur due to disregard of the following instructions 2. Installation: В the guarantee expires and the manufacturer is free from any obligations. Installation of the device must be carried out with care The device can only be employed under operations parameters in order to prevent damaging of bearing and packing. Any use of not exceeding the nominal capacity of the clutch or brake. force impairs the function. The borehole present should be lightly Maximum torque and highest permissible power loss must be stictly smeared with a rust proofing grease. The system being lubricated observed. The available voltage must correspond to the operation for life, any other lubrication with oil or grease is not admitted С voltage indicated on the identification plate. When a clutch of the as it would impair the performance of the device. E(R)AT ... -Type is used, the distance between the brush holders and the slide ring must correspond to the measure indicated 3. Starting operation: on the table of dimensions. Clutches and brakes should be taken into operation by means If a brake is used, there is no slide ring and the connection is of short current pulses to allow proper distribution of the macnetic effectuated directly on the coil. Thereupon it must be checked particles. Thereupon the rotor speed correspond to the use required. that no body contact takes place. 4. Dismounting, Repairs: If a clutch or a brake is operated in an extremely dustladen place (soot, wood chip, paper or cement dust) a dust cover should be provided. Instructions for repair are supplied on request free of obligation. In such a case an additional fan should allow reliable Upon disassembly of clutches and brakes any shock by knocks and shoves dissipation of the heat developped. must be prevented. When removing the rotor a brace can be used. Ε Storage: Clutches and brakes must be stored in a dry place and protected against corrosion. The device can only be stored in its welded plastic hull containing moisture absorbing chips.

I	:			Datum	29.12.1993	Zeichnungsnummer/	drawing number	3/N/// <b>I</b> I	IENTKE	operating instructions	Komm.Nr		Vertragsnummer	
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Г	Änderung	Datum	Name	Norm		Einbauort:	Ersatz fuer:	Ursprung:	18.09.2014		"	General-Information		1 Bl.

Repair instructions: Clutches Brakes EAT 3500 ERAT 3500 **FAT 3500** 126 445 00 126 454 00 126 170 00 FRAT 3500 126 170 00 FAT 3500 RR 127 679 00 FRAT 3500 RR EAT 3500 RR ERAT 3500 RR 129 863 00 "R" = heat sink "RR"= remnant rotor В Important note! The magnetis particle coupling / brake should be disassembled in the following order: The magnetic powder must be poured into the air gap / space between the internal rotor and the external rotor ( not into the hollow space in which the field coil is located ). During assembly, refer to the sectional drawing. Be sure to use only the amount and particle size of magnetic powder 1. To disassemble, place the coupling / brake on a workbench approved for the particular type of clutch / brake. C with the slipring or coil connectors up. Disconnect the slipring from the coil, and remove the screws The old magnetic powder must not be re-used. to lift the slipring from the housing. Then replace the internal rotor with the housing cover 2. Loosen the screws on the bearing shell to remove the and screw it down. bearing shell together with the internal rotor. Secure the slipring assembly and make the connections The housing with the coil is now accessible. with the coil. Following assembly, place the clutch/ brake in its fitting D 3. After removing the circlip ring from the ball bearing, position i.e. with its hollow shaft horizontal. lift the ball bearing and seals from the bearing shell. Push the internal rotor into the hollow shaft revolving at low speed while tapping on the rotor. 4. Clean the inner side of the housing and the internal rotor carefully of magnetic powder. This distributes the magnetic powder evenly in the air gap. \*) only available as complete repair kit Spare parts: 5. Fit the new seals and ball bearings in the bearing shell and fix them on the bearing cover using the circlip ring. Pcs Type 3500 stock- number Before that, slide the seals (V ring) on the hollow shaft Ε 126 479 00 Internal rotor of the internal rotor. Push the internal rotor into the 126 482 00 Field coil 24VDC ball bearing of a bearing shell and fix it in position 314 310 60 Brush holder assy. using a circlip ring. 1 Slip rina 314 221 40 4 Carbon brush with connection tag 17x 10x 5 mm 314 310 62 6. Housing with heat sink, e.g. Type ERAT ... FRAT... Housings fitted with heat sinks have the heat sinks shrunk on. 2 Ball bearing Heat them slightly if they need to be pulled Shaft seal ring 128 286 00 \*) 2 off. As coupling are balanced with the heat sink fitted. 1 Magnetic powder 150 g/ 50-80 μ be sure to re-fit it in exactly the same position. Magnetic powder 150 g/ 50-80 μ 128 285 00 Datum 30.09.2003 Zeichnungsnummer/ drawing number Komm.Nr Repair instructions Bearb, PAR 1.1485E Clutches/ Brakes Type 3500 *■ Antriebstechnik* 03.03.2011 PAR Gepr. Blatt 2

18.09.2014

Ursprung:

Datum

Änderung

Name

Norm

Einbauort:

Ersatz fuer:

Magnetic-particle clutch/brake-3500

