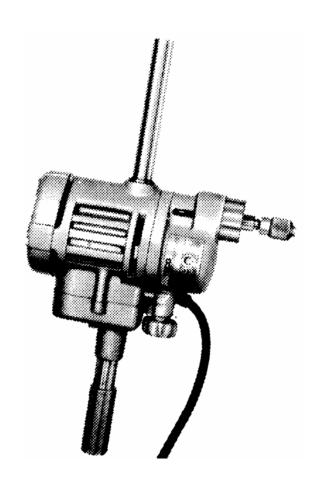


Operating Manual For Model 38-TC-4/1 Rolling Motor



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OPERATING INSTRUCTIONS FOR TC-4/1

Electrical connection

The operating voltage is given on the machine identification plate. Check that the mains voltage agrees with machine voltage.

Cable

Examine the cable for damage. For machines having Class I insulation (noted on the identification plate) an earth wire is provided in the cable. Connect the yellow/green wire to the earth point in the plug. Check also that the earth wire is securely connected to the machine motor housing - particularly after repairs have been carried out. For double insulated machines, no earth wire is required.

Gear/Speed change

The TC-4 motors encompass speeds of 70/120/195/360/680/1450 rpm.

To change gear:

Wait until the Drill has stopped rotating, pull out gear selector knob (51). Turn the knob either to the left or to the right. A spring loaded plunger engages in a locating hole at each of the 4/5 settings, and the selected speed is indicated by a number appearing in a peep-hole in the gear-drum.

Lubrication

To obtain the maximum life from the gearbox it is necessary to lubricate it every 15 to 20 hours of operation. We advise the use of Esso Fibrax EP 370. A grease nipple is provided on the side of the gearbox and two or three shots with a high pressure gun will suffice. Inferior greases can cause damage!

Maintenance

After 500 operating hours, the drilling machine should be thoroughly cleaned and re-filled with new grease. Bearings should be cleaned in a solvent, dried and packed with bearing grease. Clean the inside of the motor and switch housing, unsung dry compressed air or a brush.

Wash the gearbox in a grease solvent and thoroughly dry out. Re-pack the gearbox with Esso gear grease, (half-full). Overfilling or using the wrong type of grease will cause damage.

Check the wiring connections, especially with Class I insulation machines, making sure that the earth connections are correctly made.

In addition, carry out a high tension test on the armature and field-coil windings.

Guarantee

Motors are guaranteed (parts) for 6 months. The guarantee is valid only if the motor has been used in accordance with proper practice, and if it has not been dismantled by the used.

Repair service

Repairs should only be carried out by authorised specialists.

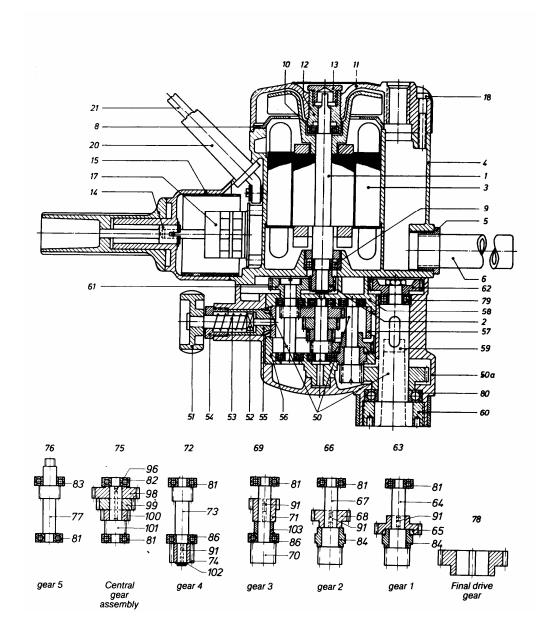
SPARE PARTS LIST FOR TC-4/1

Item	Quantity	Description	Spare part number
Motor	:		
1	1	Rotor complete with ball-bearings	
		(state voltage) Type D	38-D32-I
		Type DL (slow speed)	38-D32-I-L
2	1	Pinion for rotor, type D	38-D32-2-18z
		type DL (slow speed)	38-D32-2-13z
3	1	Stator (state voltage)	38-D32-3
4	1	Motor housing	38-D32-4
5	1	Bushing for pipe handle	38-R32-11
6	1	Pipe handle (R 1" thread)	38-R32-12
8	1	Ventilation disc	38-D32-8
9	1	Ball-bearing for rotor (pinion end)	38-D32-9
10	1	Ball-bearing for rotor (fan end)	38-R21-13a
11	1	Motor housing cover	38-D32-11
12	1	Bearing housing	38-D32-12
13	1	End cover	38-D32-13
14	1	Switch handle complete with coupling	38-D32-14
15	1	Switch handle cover	38-D32-15
	1	Switch handle complete with handle cover,	
		without switch	38-D32-14/15
17	1	Reversing switch, 3-pole	38-D32-17
18	3	Screw M8 x 50 (motor housing cover)	38-D32-18
	4	Screw M6 x 65 (handle)	38-D32-19
20	1	Cable sleeve	38-R32-21
21	1	Cable	38-D32-21
	1	Plug, 3-pole	38-D32-22

SPARE PARTS LIST FOR TC-4/1

Gear:	50 50a 51	1	Gear complete, consisting of gear-housing, gear change assembly, drilling spindle,	
	50a 51			
	51	4	gear change assembly, drilling spindle.	
	51	4	gear criarige accernacy, arming epiniare,	
	51	4	gear drum complete	38-D32-50
		1	Gear housing	38-R32-5Oa
		1	Speed selector knob	38-R32-51
	52	1	Shaft	38-R32-52
	53	1	Spring	38-R32-53
	54	1	Threaded bushing	38-R32-54
	55	1	Gear change pinion	38-R32-55
		1	Gear change assembly,	
		•	consisting of items No. 51 to 55	38-R32-55K
	56	1	Gear cluster drum (lower)	38-R32-56
	57	1	Gear cluster drum (intermediate)	38-R32-57
	58	1	Gear cluster drum (upper)	38-D32-58
	59	1	` ' ' '	38-R32-59
	60	1	Drilling spindle	
			Bearing retained	38-R32-60
	61	1	Gear wheel, type D	38-D32-61-23z
	00		type DL (slow speed)	38-D32-61-28z
	62	1	Gear (drilling spindle-upper)	38-D32-62-43z
	63	1	Gear assembly 1	38-R32-63
	64	1	Gear 1 - pinion and shaft	38-R32-64
	65	1	Gear 1 - wheel	38-R32-65
	66	1	Gear assembly 2	38-R32-66
	67	1	Gear 2 - pinion and shaft	38-R32-67
	68	1	Gear 2 - wheel	38-R32-68
	69	1	Gear assembly 3	38-R32-69
	70	1	Gear 3 - pinion and shaft	38-R32-70
	71	1	Gear 3 - wheel	38-R32-71
	72	1	Gear assembly 4	38-R32-72
	73	1	Gear 4 - pinion and shaft	38-R32-73
	74	1	Gear 4 - wheel	38-R32-74
	75	1	Central gear assembly	38-R32-75
	76	1	Gear assembly 5	38-R32-76
	77	1	Gear 5 - pinion and shaft	38-R32-77
	78	1	Final drive gear wheel	38-R32-7B
	79	1	Ball-bearing for drilling spindle (upper)	38-R21-15
	80	1	Ball-bearing for drilling spindle (lower)	38-R32-80
	81	-		
			Ball-bearing for gear assembly 1,2,3,4 (upper)	38-R1-15
	82	1	Ball-bearing for central gear assembly	38-R1-15
	83	1	Ball-bearing for gear assembly 5	38-R21-13a
	84	1	Bushing for gear 1	38-R32-84
	85	1	Bushing for gear 2	38-R32-84
	86	1 each	Ball-bearing for gear assembly 3 and 4	
			(lower end)	38-R21-13a
	87	1 each	Ball-bearing for central gear assembly	
			and gear 5 (lower end)	38-R1-15
		4	Screws M8 x 25 (gear housing)	38-R32-20
		1	Key MK3	38-R32-89

SPARE PARTS LIST FOR TC-4/1



Elliott offers a complete line of precision tube tools, including:

tube

expanders

Boiler Expanders

Heat Exchanger Expanders
Condenser Expanders

Refinery Expanders

tube rolling motors & torque controls

Electric

Pneumatic

tube

cleaners

Air & Water Driven Motors (Internal/External Drives)

Jiffy Guns

("Shoot-Thru" Devices)

Roto-Jet

(Rotating Flex Shaft)

additional products

Tube and Joint Testers

Tube Plugs

(High & Low Pressure)

retubing tools

Tube Gauges

Tube Cutters

Manual Tools

Spear Type Tube Pullers

Collet-Type Tube Pullers

CYCLGRIP Tube Extractors

Grooving Tools

End-Prep Tools

metal working products

Back Chamfering Tools

Carbide Roller Burnishing Tools

Diamond Burnishing Tools

Elliptical Deburring Tools

Fine Boring Tools

Internal Recessing Tools

Magic Vise

Mechanical Joining Tools

Roller Burnishing Tools

Single Blade Reamers

