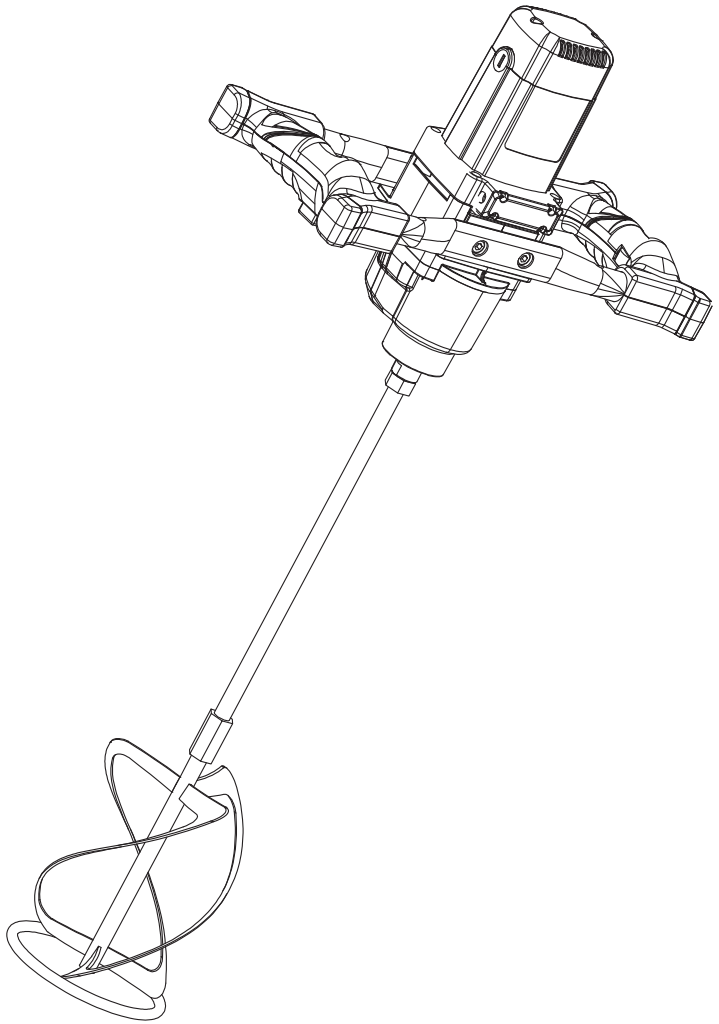
TUSK

ELECTRIC MIXER



TEM 1650

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TEM 1650 Part list

NO.	Qty	Description	NO.	Qty	Description
1	1	Right Handle	34	1	Hemicycle key
2	1	Left Handle	35	1	Motor gear
3	10	Screw ST3.9X20	36	1	Safety ring
4	3	Clamp	37	1	ball bearing 698 zz
5	8	Screw ST3.5X16	38	2	ball bearing 608 zz
6	1	Capacitance	39	1	Pinion
7	1	The inductance	40	1	Parallel key
8	2	Round inductance	41	1	Spindle double gear
9	4	Corner	42	1	Flat washer
10	1	Circuitry board	43	1	Pivot
11	2	Sleeve	44	1	Coulisse
12	2	Cable	45	1	Partial core + eccentric wheel core
13	1	Switch	46	1	Screw ST3X16
14	1	Steel pipe (no hole)	47	1	Lever
15	1	Steel pipe (a hole)	48	1	Spring
16	4	Screw M8X12	49	1	Ball ¢5
17	1	Cord	50	2	Nut M8
18	1	Sleeve (Big)	51	1	Sealring ¢25.8*1.8
19	1	Safety ring ¢47	52	1	Bearing 6000 2RS
20	1	Dust cover	53	1	The rotor
21	4	Screw M5X20	54	1	MG insulation gasket
22	1	Bearing cover	55	1	Airguide shim
23	1	Spindle	56	1	The stator (including the brush ring)
24	1	Hemicycle key	57	2	Screw ST4X70
25	1	Bearing 6204 ZZ	58	1	Chassis
26	1	Safety ring ¢20	59	2	Brush cap
27	1	Spindle gear	60	2	Carbon brush
28	1	Safety ring ¢15	61	2	Brush holder
29	1	Bearing 6000ZZ	62	1	Clamp
30	1	Gear box	63	4	Screw M5X25(With elastic pad)
31	1	Pin 4*12	64	1	Constant power board
32	2	Needle bearing	65	1	Circuit board seats
33	1	Countershaft	66	1	Rear cover

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Starting Operation and Use

Improper use may damage the instrument.

Observe therefore these instructions:

- Use a tool up to the specified diameter
- Load the instrument in such a way that the speed would not drop considerably or that it would stop.

Check if the data on the rating plate correspond with the actual mains voltage. Instrument scheduled for 110V/230V can be plugged to 110V/220V/240V mains.

Fixing a whisk

Screw tools with thread M 14 x 2 as far as possible in the tool mount and tighten properly with an open-end wrench (22mm) from among the accessories.

Switching on and off

By pressing the switch button the apparatus is brought into operation and it stops when this is relieved.

Permanent run

By pressing the switch button to the stop and simultaneous pressing the arresting pin permanent run is achieved.

By subsequent pressing and relieving of the switch button the permanent run is interrupted.

Unloading the tool (whisk)

Fit a flat open-end wrench (22mm) on the hexagon end of the tool (whisk) and unscrew the tool from the spindle by turning it to the left.

Electronic Motor Control

Starting current limiting

The electronically controlled smooth start takes care that the machine starts without jerk. In this manner, the splashing of thin liquid materials is prevented at the same time when switching on the machine.

As a result of the machine's reduced starting current, a 7.8A fuse is sufficient.

No-load speed reduction

The electronic control reduces the no-load speed of the machine which results in reduced noise and wear of motor and gear.

Speed pre-selection

With the speed control (11), the speed can be continuously pre-selected:
The necessary speed is dependent on the type of material to be mixed. It is recommended that it be confirmed with a practical trial.

Speed selection

Two rpm ranges can be preselected with the speed selector switch (51):

Speed 1 : 150 min^{-1} - 300min^{-1}

Speed 2 : 300 min^{-1} - 650min^{-1}

The necessary speed depends on the type of the material mixed and it is recommended to verify it by a practical test.

Constant Electronics

The constant electronics keeps the speed between no-load and load nearly constant and ensures uniform mixing of the materials.

Electronic overload protection

In case that the machine is extremely overloaded, an electronic overload protection protects the motor from damage. In this case, the motor stops and restarts only after the feeding pressure is reduced, res. After relisf.

Temperature-dependent overload protection

To protect the motor from overheating at extreme permanent load, it is switched off by the protective electronic system when a critical temperature is reached

After a cooling-down period of approx. 3-5 min, the machine is again ready for use and can be fully loaded.

When the machine is warmed by use, the temperature-dependent overload protection reacts earlier as a result.

Storage

The unit should be stored in a dry place where it is protected against freezing.

Environmental Protection

Do not open worn out machines and return to the collection facilities provided for recycling.

Maintenance

- ☐ The ventilation slots on the motor casing should be cleaned out from time to time.
- ☐ When the carbon brushes are worn out, see the instruction in Page 2 to replace the carbon brush. There is 1 pair replacement carbon brush in the package. For more carbon brush, please purchase from the dealer.
- ☐ After approx. 100 hours of operation, check the motor brushes and replace if necessary. Clean the motor housing.
- ☐ After approx. 200 hours of operation, renew the grease filling in the gearbox.

⚠ To verify that the protective insulation remains intact, the machine must be subjected to a technical safety test afterwards. For this reason, this work must be performed exclusively by a professional electro-workshop.

Guarantee

We guarantee appliances in accordance with statutory / country – specific regulations (proof of purchase by invoice or delivery note).
Damage attributable to normal wear and tear, overload or improper handling will be excluded from the guarantee.
In case of product malfunction and issues, please send the machine, undismantled, to your dealer or the Service Center for review.