

REPAIR & REFURBISHMENT SERVICE

Repair and refurbishment service

The Brook Crompton electric repair and maintenance department is staffed by specialist engineers providing a range of services including repairs, site visits and maintenance contracts.

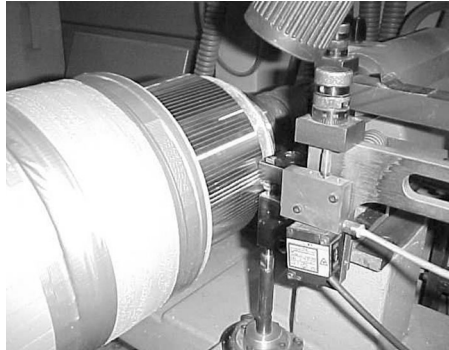
The benefits to Brook Crompton's customers have rapidly become apparent with the competitive cost of spares, availability from stock and full testing facilities up to 750kW on DC or 55kW on AC.

Repair Service

- All rewinds to Class H insulation system giving the optimum thermal protection, to prolong insulation life
- Armature dip soldered by automated process
- Impregnated by controlled dip and bake cycle in polyester resin
- Armature and field windings surge tested to check for any weakness of the turn-to-turn and ground insulation
- Commutators hand built and torque set on large DC motors
- Machines have full load test before return to customer
- All repaired machines are returned with warranty on the parts that have been repaired
- Full technical back-up
- Stock motors available for loan/hire

Other Services

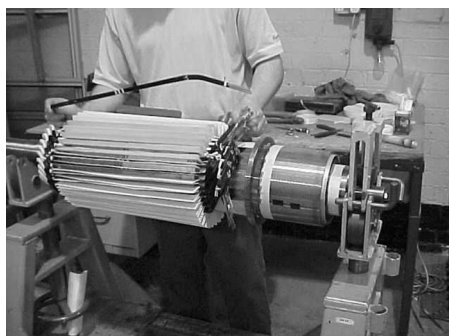
- Service contracts to have regular site visits to assess the condition of the motors and replace brushes where necessary
- Service visits on an individual basis by a qualified electrical machines engineer
- Spare parts available from stock



Under cutting on a commutator

Standard motor test

- Insulation resistance check
- This uses the 'Baker' direct current high potential, high frequency surge test (non-destructive), for both field and armature windings. This test evaluates the quality of turn-to-turn, phase-to-phase and phase or coil to ground. It also detects other winding faults.
- Resistance of windings including auxiliaries (thermostats, heaters etc)
- Lead markings and connections against the diagram
- On commutator motors the brushes are bedded and neutral pre-set
- No load run to check windings, vibration, bearings and noise.
- Motor coupled to load generator and running neutral set if required
- Motor run on full load and 150% overload, commutation checked.



Armature coil insertion

Refurbishment Service

- Preliminary test on arrival at our works
- Armature and field or stator windings surge tested to check for any weaknesses of the turn-to-turn and ground insulation
- Report generated by experienced service engineers giving a full quotation and time scale for effecting the refurbishment. Time-scale will vary from a few days for a basic service to a few weeks for a new armature. Rewind is normally advised if the insulation resistance has fallen below 1MΩ.
- Motor dismantled and major components cleaned by high pressure washer. These components are baked for a 12 hour period at 140°C to completely dry out.
- Re-impregnation as an optional extra
- Commutators skimmed, polished and undercut by automatic sensing to centralise the slot
- Armature dynamically balanced
- New bearings and brushes fitted
- Machines are tested to standard test specification

Contacts

Richard Dutson tel. 0121 698 3220

Dave Wheatley tel. 0121 698 3321

fax 0121 698 3150

e-mail

richard.dutson@brookcrompton.com

dave.wheatley@brookcrompton.com

Site Address

Brook Crompton

Unit 1 Excelsior Trading Estate

72 Cakemore Road

Rowley Regis

West Midlands

B65 0QT