

4.3 PARTZSCH Elektromaschinenbau GmbH

4.3.1 General information

Yet another company within the PARTZSCH Group is the PARTZSCH Elektromaschinenbau GmbH located in Döbeln/Grosssteinbach. This enterprise specialises

in 3 fields: the manufacture of the magnetic circuit of gearless wind generators, the production of machine parts and components for textile machine engineering.



4.3.2 Manufacturing fields

4.3.2.1 Generators

4.3.2.1.1 Range of services

For these generators we offer the laminated core, which is made of sheet segments, winding, impregnation, inspection and packaging – a one-stop service for our customers.

Due to the dimensions of generators, the sizes of our halls and the load capacities of our cranes have been adapted accordingly.

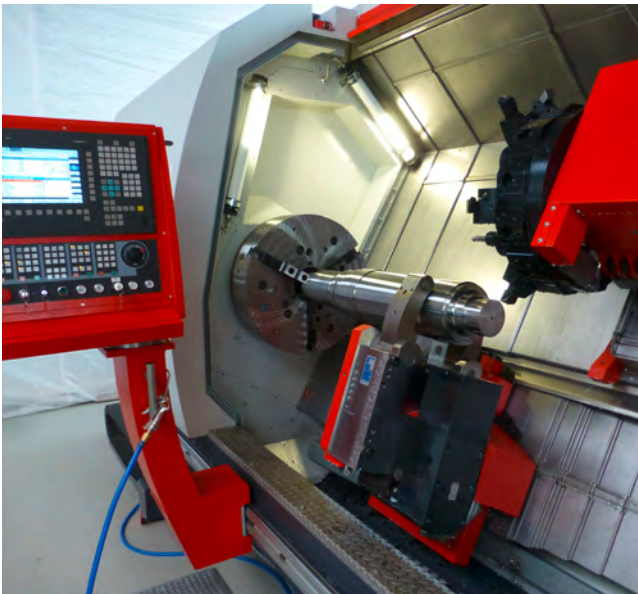
4.3.2.1.2 Machinery

The impregnation of these generators is performed using the vacuum pressure process with subsequent rolling curing in the drying oven.

Our impregnation container has the following dimensions: (width x depth) 5,200 mm x 2,100 mm

Our drying oven has the following dimensions (depth x width x height) 4,500 mm x 5,500 mm x 6,000 mm

For the manufacturing of the coils we apply spreading machines, fish winding machines and taping machines arranged in a complete production line. For transports within the company we further have crane bridges with the following load capacities at our disposal: 2 x 32 t and 2 x 36 t.



CNC turning



CNC milling



Impregnation system



Large-scale furnace

4.3.2.2 General mechanical engineering

4.3.2.2.1 Range of services

This manufacturing segment specialises in the production of machine components, primarily for electrical engineering. We thus produce shafts, end shields, transmission components, such as pulleys, couplings, terminal boxes and similar components. Apart from that, we provide welded constructions, colouring and special parts.

4.3.2.2.2 Machinery

The following machines are available for mechanical manufacturing:

Manufacturing segment milling

- ▶ Boring mill BFKF 110
- ▶ Hedelius T8-3200
- ▶ Hedelius C80M
- ▶ AXA VPC40-U
- ▶ DMG DMU 70/50
- ▶ Hermle C500V
- ▶ multiple conventional milling machines

Manufacturing segment turning

- ▶ EMCO MaXXturn 110x3500
- ▶ Monforts RNC 500
- ▶ Traub TND 350/360
- ▶ Index G 200
- ▶ multiple conventional lathes

Manufacturing segment grinding

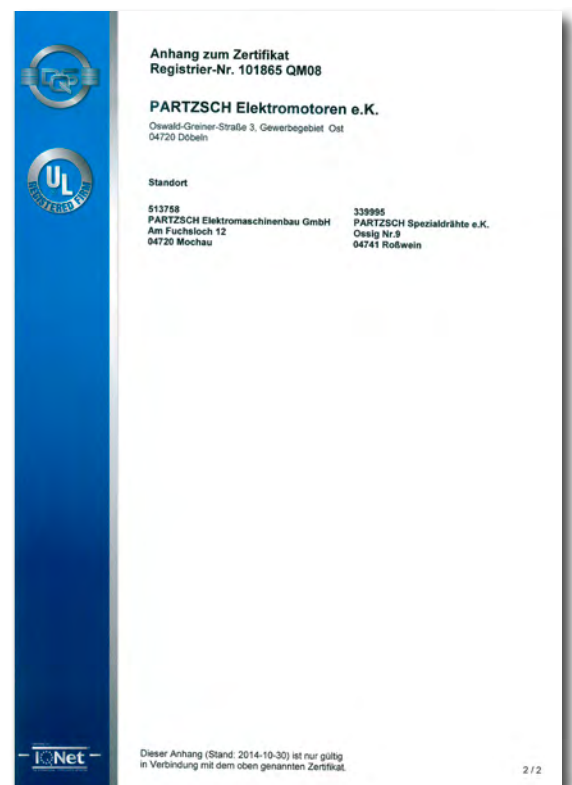
- ▶ SAGU - 1000
- ▶ TOS BUA-25
- ▶ Vibratory grinding machine

Manufacturing segment sawing

- ▶ Wagner band saw WPB 340A



ROMER measuring arm



4.3.2.3 Special machine engineering for the textile industry

4.3.2.3.1 Range of services

Parts of our machinery, as well as some employees come from textile machine engineering. We thus have the necessary expertise and production know-how in this field. In this area, surfaces and runout accuracy have to comply with stringent quality standards.

4.3.2.3.2 Machinery

- ▶ Index G200
- ▶ CNC lathes Femco HL-25
- ▶ CNC lathe Hanwha SL 26H
- ▶ TBT ML 200-2-8

4.3.3 Quality assessment

4.3.3.1 Test and measuring equipment

- ▶ Mitutoyo measuring machine Euro-C-A9106
- ▶ Measuring arm RA-7525 SE
- ▶ TESA micro-hite M900
- ▶ Shaft measuring system Twinner T12
- ▶ Hardness testing technology
- ▶ Welding: MAG, TIG (ISO 9606-1), resistance spot and build-up welding as well as hard soldering

4.3.3.2 Certificates

This company is certified according to DIN ISO 9001.



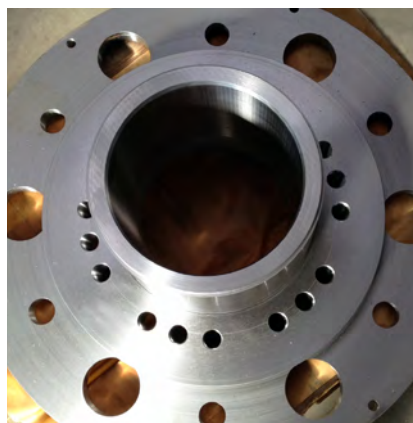
Add-on and spare parts



Assembly production



Press ring



Coupling



Stator processing