

Anodized Aluminium Foil Technologies

EXXELIA has developed competencies and set-up production means to design and manufacture medium power custom magnetic components with Aluminium or Copper Foil technologies.



Key Benefits

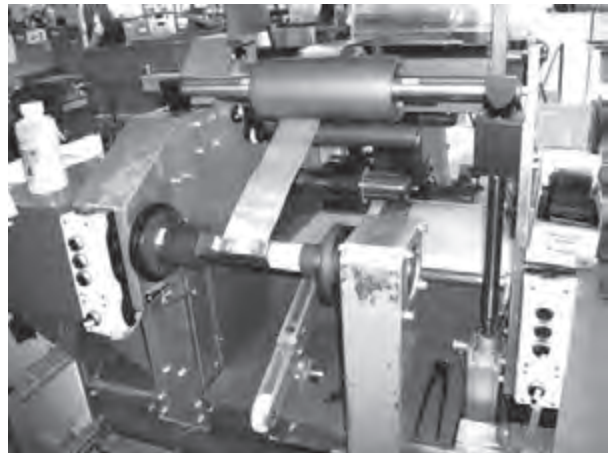
- Space savings
- Weight savings

Design and manufacture of:

- Interphase Inductance and twelve pulse transformers,
- filtering chokes up to 400 A
- Active or Passive Power Factor Correction chokes
- Power Transformers up to several kW for standard SMPS and specific architectures.

Materials and processing

- Anodized aluminium foil winding
- Cold Press Welding
- Vacuum and Pressure Impregnation from 10 mbar up to 5 bar
- Soldering
- Connections
- Low weight
- No need for insulator, dielectric isolation between turns, up to 100 V
- Good heat transfer
- Quick processing
- High Electrical Insulation
- Mechanical strength
- Varnish withstanding up to 200°C
- High Mechanical strength
- Choice between several options:
crimped nut, drilled copper bar, braid and lug



HIGH POWER TECHNOLOGY

Winding process

| Material | EXXELIA Experience | | | Machine capability |
|----------------------|--------------------|------------|----------------------------|----------------------------|
| | Thickness (mm) | Width (mm) | Section (mm ²) | Section (mm ²) |
| Anodized Copper foil | 1 | 100 | 100 | 200 |

