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

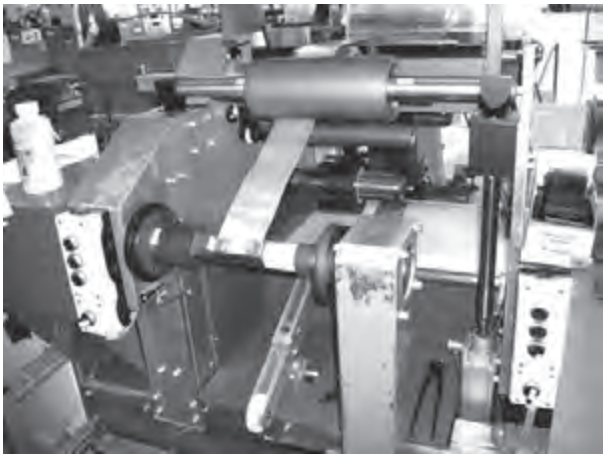
- **Space savings**
- **Weight savings**

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



Winding process

	EXXELIA Experience			Machine capability
Material	Thickness (mm)	Width (mm)	Section (mm²)	Section (mm²)
Anodized Copper foil	1	100	100	200