

# Drive and Automation Solutions for Processing Lines

Converteam is a world leading company in providing electrical equipment for new or existing processing lines. We have supplied world-class solutions to many customers throughout the world. Converteam has a set of record of more than 500 successfully commissioned processing lines.

Converteam has worked with all the major mechanical builders based in the UK, France, Germany, Italy, China, Japan and the USA. Therefore, we have a vast experience and an unsurpassed understanding of metal-finishing processes. This experience, gained over several decades, is contained in our comprehensive range of technical solutions.



## Typical scope of supply

- Power distribution system
- Drive systems
- Process control system
- Level 1 and level 2 automation systems
- Operator and maintenance aids
- Utilities (ventilation, CCTV, fire protection, lighting...)
- Erection, cabling and commissioning on site
- Training

## Benefits for our customers

Using our electrical equipment designed for world-class processing lines, we improve the performance of our customers.

This improvement is assessed against important metrics, such as product quality, plant availability and process efficiency.

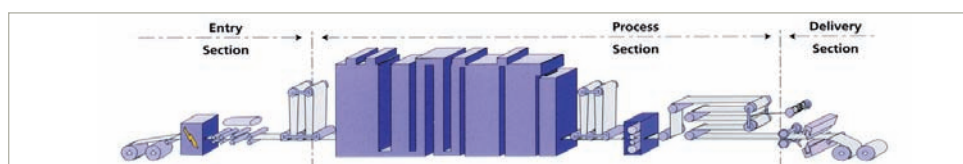
- Greater efficiency
- Higher availability
- Higher throughput
- Better quality
- Safety for workers

## Applications

Our references include all types of processing lines for carbon steel, special steel, silicon and stainless applications such as:

- Continuous hot dip galvanizing lines
- Continuous electrolytic galvanizing lines
- Pickling lines and coupled lines/mills
- Annealing lines
- Tinplate lines
- Bright annealing lines
- Coating lines of every kind...

In addition, we provide complete solutions for non-ferrous processing lines in the aluminum and copper (and other) industries.



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## Complete drive solutions

Converteam's complete experience with drives and power technology leaves nothing to chance.

We are experts in all types of drive and actuator applications, with ready-made solutions for processing lines.

Our highly sophisticated drives are equipped with a powerful controller and fast-response flux-vector control algorithms providing high-quality performance. They give plant operators clear status displays. Faults, which rarely occur, are quickly overcome using our complete diagnostic toolbox.

## Common DC bus solution

In order to take full advantage of variable-speed AC drives, their high reliability, excellent control and overload capability, Converteam has developed a common DC bus system, in which all AC drives are fed from a single common DC source.

Thus, Converteam contributes to reduce energy usage and to protect environment.

Furthermore, our solutions are based on key concepts: managed structure, re-usability, consistent model, modular economy, off-line support.

### Converteam expertise:

#### Process management

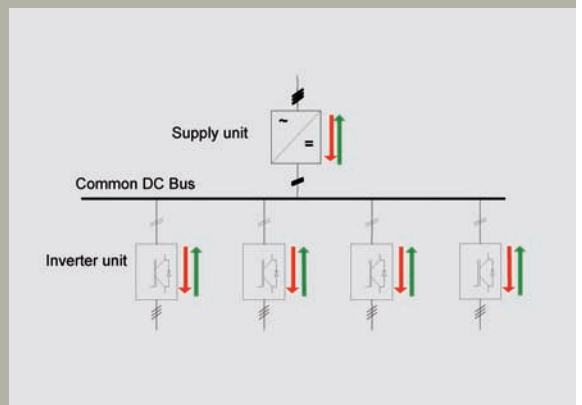
- Coil scheduling
- Line speed management
- Product tracking
- Production report
- Quality report
- Maintenance report...

#### Process control

- Set-up of line references
- Control of specific process link to continuous cold mill, electrolytic rectifiers control, furnace control
- Master reference
- Drive regulators...

#### Process support

- Coil preparation
- Datum set
- Coil width/diameter measurement
- Maintenance monitoring
- Pumps
- Fans...



## An innovative approach

Converteam has been involved over many years in research to produce new applications of emerging technology, and to develop new solutions for the world's metals industries.

As an example of this innovative approach: Converteam was a pioneer in applying AC drives to processing lines and was one of the first to commission a complete AC-driven processing line, with common DC bus system, high-performance variable-speed AC coilers, loopers, bridles, etc.