

## Rectangular hollow sections and open sections



### FCF® Technology

rectangular, square, open sections

## Tubes

Round and shaped tubes



### Conventional Technology

Tube:  $\varnothing$  4.7 – 406.0 mm  
Wall thickness: 0.5 – 16.0 mm

### CTA® Technology

Tube:  $\varnothing$  42.4 – 406.0 mm  
Wall thickness: 0.5 – 16.0 mm

## Profiles

Complex structures



### Conventional Technology

no limitation to shape, size and wall thickness

## Delivery programme

- Tube and section mills
- Cage Forming CTA®
- Cage Forming FCF®
- Cold section mills
- Strip preparations
- Strip accumulators
- Cut-off units
- Finishing, testing, stacking and bundling lines
- Control and automation
- Modernisation
- Consulting, training, service
- Assembly, commissioning at site
- After sales service

## Mill layout

Size range  $\varnothing$ : 4.7 – 406.0 mm [0.185 – 15.984 inch]  
Size range  $\square$ : 20x20 - 400x400 mm [0.787x0.787 – 15.748x15.748 inch]  
Wall thickness range: 0.5 – 16.0 mm [0.020 – 0.630 inch]  
Speeds: > 200 m/min  
Cross sections: Round and shaped tubes, rectangular, square, special profiles  
Welding method: HF, laser, TIG  
O.D. tolerances:  $\pm 0.03$  mm [0.0012 inch]  
Precision range:  $\pm 0.02$  mm [0.0008 inch]  
Short setup times: 0.5 h

## Materials

- Carbon steels – low alloyed steels
- Stainless steels – high alloyed steels
- Manganese, Duplex steels
- Copper
- Brass
- Aluminium
  
- cold/hot rolled
- galvanised/non-galvanised
- pickled/unpickled