

Special profiles

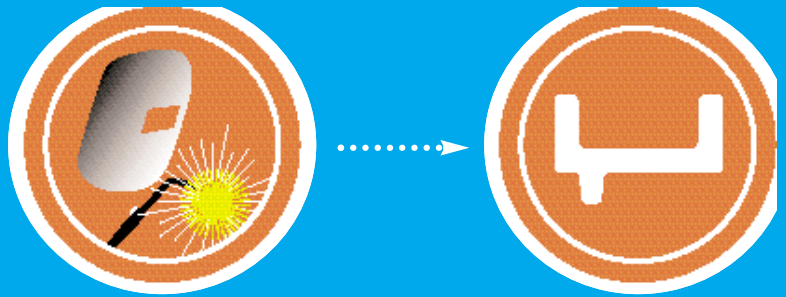
Tailor made steel solutions for industries around the world



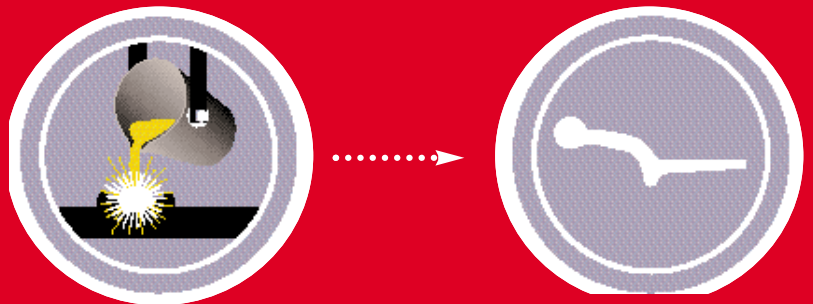
The benefits

Special profiles provide many benefits for manufacturing steel components...

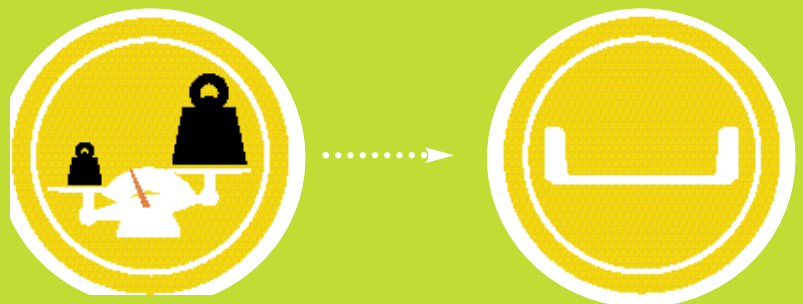
**Saves time
and cost**



**Product
improvement**



Lightweighting



Elimination of welding, machining or cutting saves time and cost, and reduces rework and handling.



Hot rolled profiles provide better dimensional accuracy and greater product integrity compared with profiles which are cast or forged.



Asymmetrical profiles provide 'lightweighting' of components.



Shaping steel for industry

World beating product range

Special Profiles is a business within Corus, the international metals company.

Our range of profiles is the most comprehensive in the world.

We have the capability to design and manufacture profiles from less than 1 kg/metre up to 230 kg/metre. We can hot roll an almost infinite range of shapes from simple profiles with non standard dimensions, to complex or asymmetrical shapes.

In addition to hot rolling, we offer a range of processes which reduce the amount of further work needed to make finished components:

- Cold drawing - profiles from 1kg/m to 45kg/m for high precision applications
- Shot blasting
- Heat treatment
- Welding
- Bending of profiles
- A range of fabrication processes

Quality and efficiency

The use of special profiles improves component quality and performance as well as manufacturing efficiency. For example:

- They eliminate the costs of machining and welding.
- They have better dimensional accuracy compared with profiles made from other processes such as casting or forging.

- 'Lightweighting' by designing asymmetrical profiles, which place steel only where it is needed.
- They have more uniform mechanical properties compared with fabricated profiles, because there are no heat affected or work hardened zones.



Tailor made

Our aim is to provide the customer with a profile shape which matches the exact design of the finished component.

Working together

We work closely with customer's engineers to develop the optimum profile for each application. Many of our profiles are unique designs, and the rolls and tooling are reserved exclusively for the customer involved.

Our contact with customers begins as early as the concept design stage for a new machine or component. We work closely with customer's engineers to select the right combination of profile shape and steel specification to suit each application.

The support from Corus's technology centres provides additional help to develop and improve special profiles. Technical advice and research is available to customers in a range of

areas such as fracture toughness, wear resistance, weldability and weight reduction.

Contact us

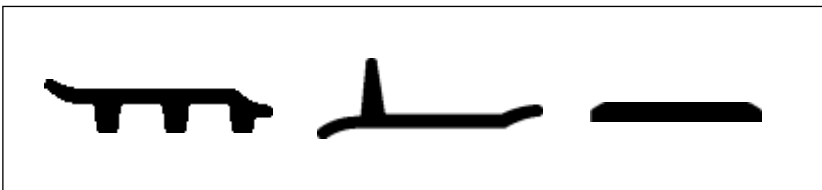
To help us evaluate your requirements, please provide us with the following information:

- A drawing showing dimensions and tolerances of the profile.
- Quantities required.
- Details of steel specification and inspection.
- Any special requirements.

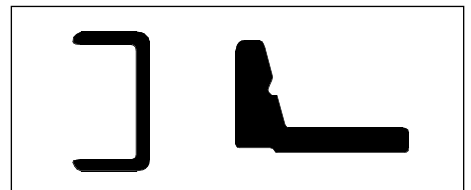


World beating product range

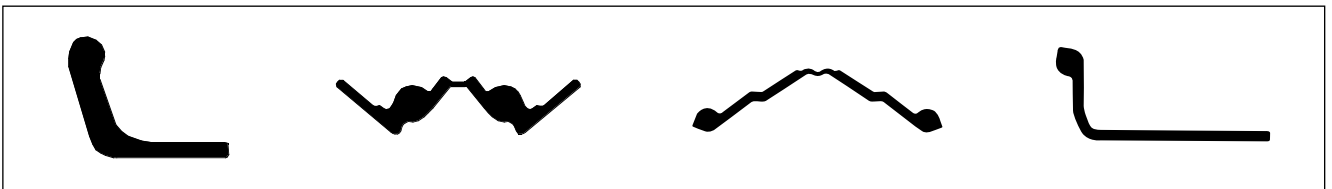
Track Shoes & Cutting Edges for Earthmoving equipment



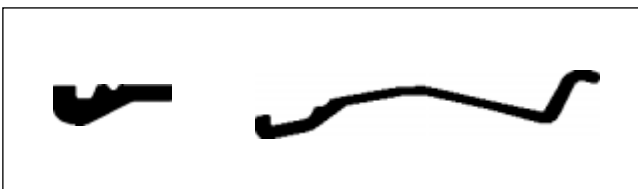
Axles, Chassis & other automotive



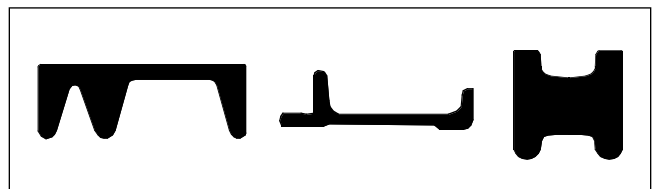
Automotive Hinges



Wheel Rims for Earthmoving and Commercial vehicles



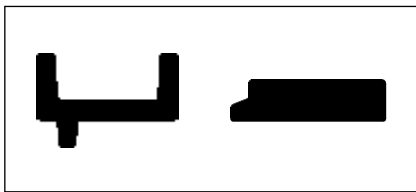
Engineering applications



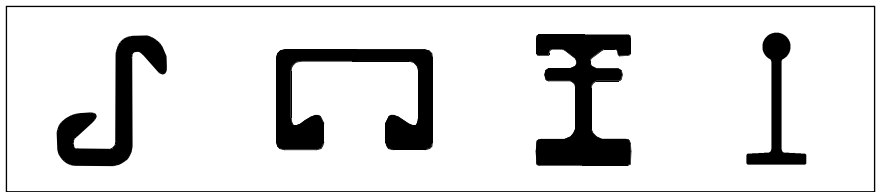
Global markets

More industries around the world are selecting special profiles for manufacturing steel components.

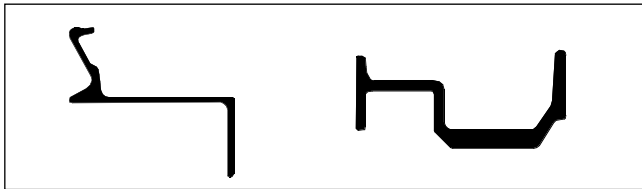
Forklift trucks



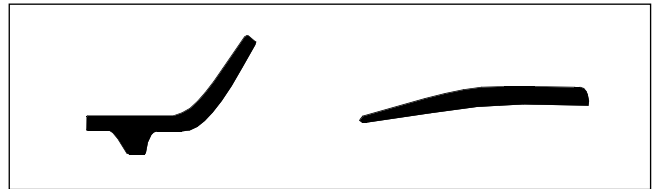
Construction industry



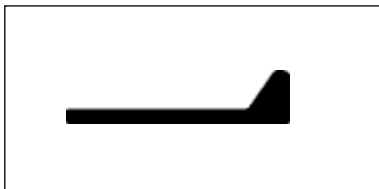
Railway wagons



Agricultural machinery



Bulb flats for plate stiffening for ship building and bridges



Mining profiles



Note

The shapes shown represent some of the profiles available from a live range of over 2500.

www.corus-specialprofiles.com

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