

meconet

Innovations are built together



Deep drawing for mobile work machines

Meconet's deep drawing capabilities help manufacturers of mobile work machines create lighter, stronger, and more efficient structures – all while reducing part count and simplifying assembly. Whether it's cabins, engine parts or battery covers for agriculture, forestry or utility sectors, we help turn complex welded assemblies into robust single-piece solutions.

Benefits of Meconet deep drawing capabilities

Deep drawing forms metal into robust and high-performance 3D shapes while hardening the material. This makes it possible to create lighter, stronger parts with excellent surface finish. In many cases, the number of components and welds drops dramatically, surface quality improves as well as lifecycle emissions shrink.

Cost savings

Close cooperation in the design phase and the optimization of solutions ensure high functionality as well as significant savings in the total cost of the end product.

Material savings

Forming will make the product more rigid without increasing the material thickness, thus decreasing the product weight.

Precision

Parts made with deep drawing technology are precise and the repeatability of the manufacturing process is excellent.

Strength

In deep drawing the sheet material is hardened as result of forming. Deep drawn products are strong and lightweight at the same time.

Quality

With deep drawing you can achieve extremely even and high surface quality.

Design

With deep drawing it is possible to produce demanding double-curve forms. The technology provides nearly limitless possibilities for product design.

Our capabilities

- Deep drawing 0.5–6.0 mm, up to 2 × 2.7 m
- 1600-ton servo press for large, complex parts
- Flexible volumes: small to mid-sized series
- In-house tooling for speed and quality
- 3D laser cutting, automated riveting, robotic welding, grinding, washing, surface treatments
- Materials: steel, stainless, aluminum, copper



Customer cases and key applications

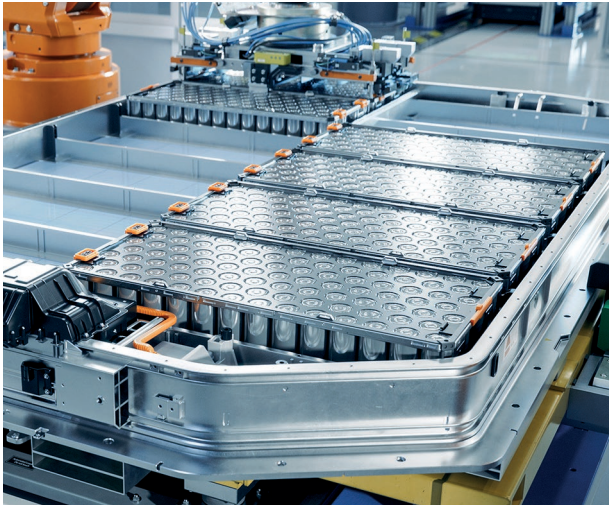
Valtra – Cabin structure optimization

We co-developed a cab frame design using deep-drawn panels. This reduced the number of parts and welds – cutting assembly time by 40%, while increasing dimensional accuracy and strength.



Eco Log – Rear wall redesign

Eco Log's forestry machines benefited from replacing a multi-part welded rear wall with a single deep-drawn panel. This made production faster and improved the structural and visual quality.



Battery housing optimization

In a battery housing project, we supported the customer in redesigning the part to enable a material reduction from 2.5 mm to 1.0 mm by applying local hardening through deep drawing. This cut CO₂ emissions by 24 kg per box – without compromising mechanical performance.

Key applications in mobile work machines we can support with our deep-drawing and other technologies:

- Components for frame and cabin structures
- Exhaust and hydraulic system components
- Protective covers and mounting brackets
- Springs and wireforms for all dynamic applications
- Battery enclosures and EV sheet metal components
- Fan housings



End-to-end expertise: from design to assembly and logistics

Meconet offers a comprehensive approach to contract manufacturing, supporting customers from the initial concept to full-scale production. Our services include:

- **Simulations & design support** – Early-stage collaboration with customers to optimize material use, weight reduction, and manufacturability with the help of our manufacturability simulation capabilities.
- **Prototyping** – Fast and flexible prototype production to validate designs.
- **In-house tooling** – In-house tooling department for designing and manufacturing tools based on the product requirements.
- **Flexible production for small & mid-sized volumes** – Versatile range of deep drawing presses combined with 2D and 3D lasers.
- **Tooling & project management** – Tools designed and made in-house, with project management ensuring smooth, timely ramp-up.
- **Effective logistics** – Over 200 freight routes to customers, smart full-truck shipments, intelligent packaging, and integrated services like surface treatments along the route for lower costs, CO₂, and higher efficiency.

Close cooperation in the early design phase allows us to help reduce lifecycle costs, simplify logistics, and minimize unnecessary complexity.



Established

1896



Turnover

85M€



Experts & personnel

450



Quality certified

IATF 16949

Technologies

Stamping

Deep drawing

Springs and wire-forms

Assemblies

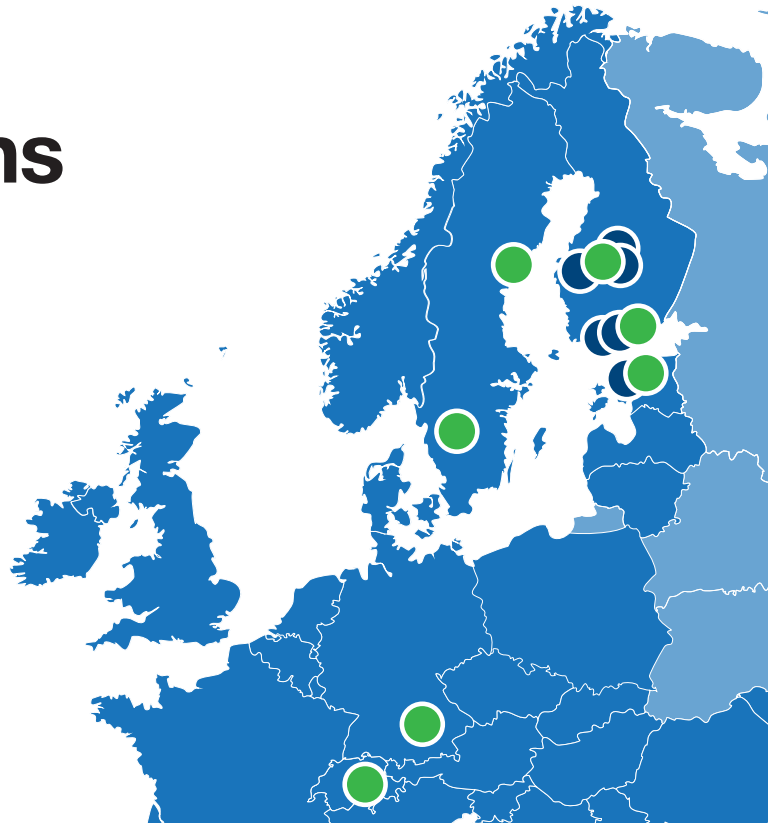
Could deep drawing be right for your part?

Contact us if:

- Your welded assembly feels too complex
- You're aiming for lighter structures
- You want better dimensional precision
- CO₂ footprint and raw material use matter
- You're re-designing legacy parts

Meconet locations

- 6 factories
- 7 sales offices



Let's build the future of mobile work machines together

Are you ready to optimize your mobile work machines?
Contact our expert team to learn how Meconet can support your projects with high-quality, sustainable sheet metal components.

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