

Your link to the global component market





Esma delivery programme

- Machining, turning, milling, grinding
- Hardening and surface treatment
- Fasteners, screws, nuts and washers
- Technical system solutions and logistics
- Gears: Cylindrical and Gleason
- Punched, fine punched, bent and drawn parts
- Castings: Chill mould castings, low pressure casting, die casting, precision castings. Rotational castings:
 Both as blanks and finished products as per drawing
- Sinter components and MIM
- Injection moulded plastic and PU components
- Forgings, both hot or cold forged
- Components and modules for the automotive industry and railway traffic
- Connectors, electrical, fibre optic, hybrid and flex-connectors
- Contact material, wholly or partly of precious metal
- Acoustic products for voice communication
- Partially and fully assembled mechanical, electromechanical and electrical devices
- Spark and laser processing
- Springs
- Waste incinerators

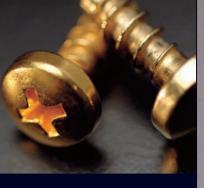
Multi-specialists

No one can be the best at everything.
But many people working together can be. Our staff have specialist expertise in many different areas. This adds up to a total knowledge of the component market that makes us unique. It allows us to offer solutions for all types of manufacturing techniques and provide a deep knowledge of materials and finishing. Together with our wide production network this gives us an overview of component markets worldwide.

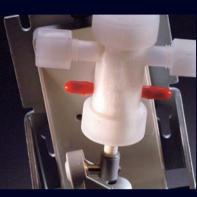
Esma delivers everything from fine mechanical micro components to high strength fasteners in dimensions up to M180. We cover a wide range and focus on quality, prompt delivery and price. Send us a request next time you need help.

- Multi-operation machined adjustment screw in brass for optical sight.
- B High-strength bolted connections for the power industry.





Mass produced selftapping screw for machine assembly.



Piston pump for medical application.



Rotor with machined turbine blades for air-powered hand tools.



Fully assembled gear unit.

Problem solvers

Esma is more than a component supplier. The strength of our employees is that they are also problem solvers.

Our goal is to always find the most cost-effective solution possible for our customers. Experience and comprehensive knowledge of the component market means we can often propose different and unconventional solutions, with the emphasis on quality and delivery reliability.

Esma's independent status and wide network of contacts allows us to offer solutions that best meet your needs.

Chain tensioner for chainsaw composed of five different parts manufactured in Denmark, Japan and Sweden and assembled in Estonia.

This includes cold shaped and postprocessed tooth profile components.

Cold shaped tooth profiles require high skills, as demonstrated by Esma producers in Japan. Today Esma delivers fully assembled units to the end customer.





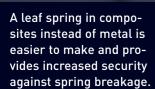
Cast blank, postprocessed in a suitable processing machine, is transformed directly from a bar into a higher quality component at a lower total cost.



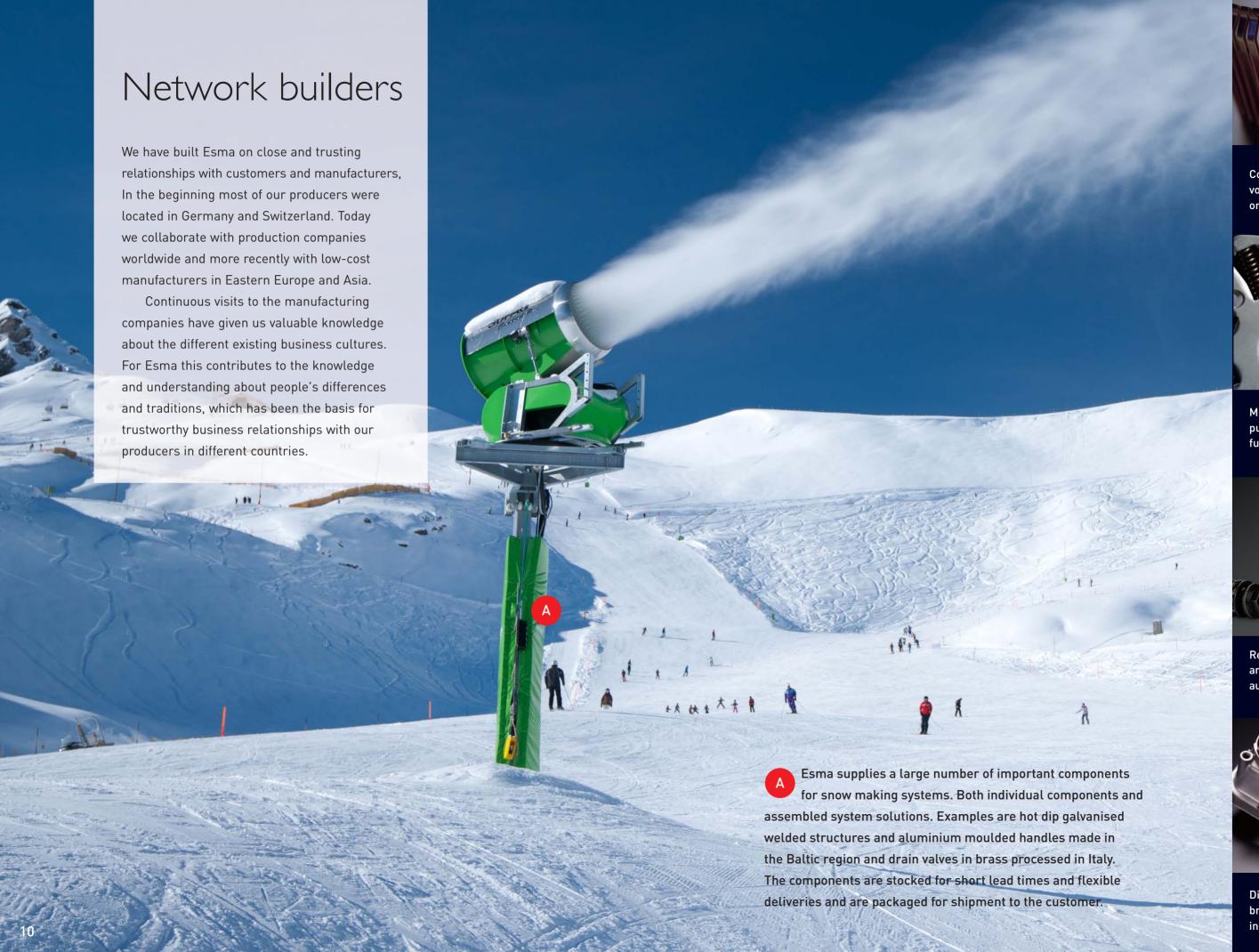
Previously machined version has been replaced with a drop forged component for strength and lower cost.



Complex component shapes can be produced directly from a sinter tool thanks to the ingenious design changes.









Connectors for high voltage. Silver anode on copper base.



Multi-assembly of fine punched components to full functionality.



Resilient valve unit housing and oil pan screw for the automotive industry.



Die-cast aluminium bracket for the automotive industry.





CNC component for accessory application.



Fully assembled control valve in hot forged and machined brass.



Precision moulded plate in quality stainless steel for fuel rods for the nuclear power industry.



Fully assembled precision drilling for the tooling industry.



Special clamp for checking paper quality in the food industry.



Spring assembly for car with the most detailed manufacturing techniques and materials.



Assembled control mechanism in quality stainless steel.



Esma delivers tool kits in a variety of versions for heavy vehicles.





Castings



Sintering



Precision forging



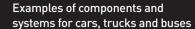
Fasteners



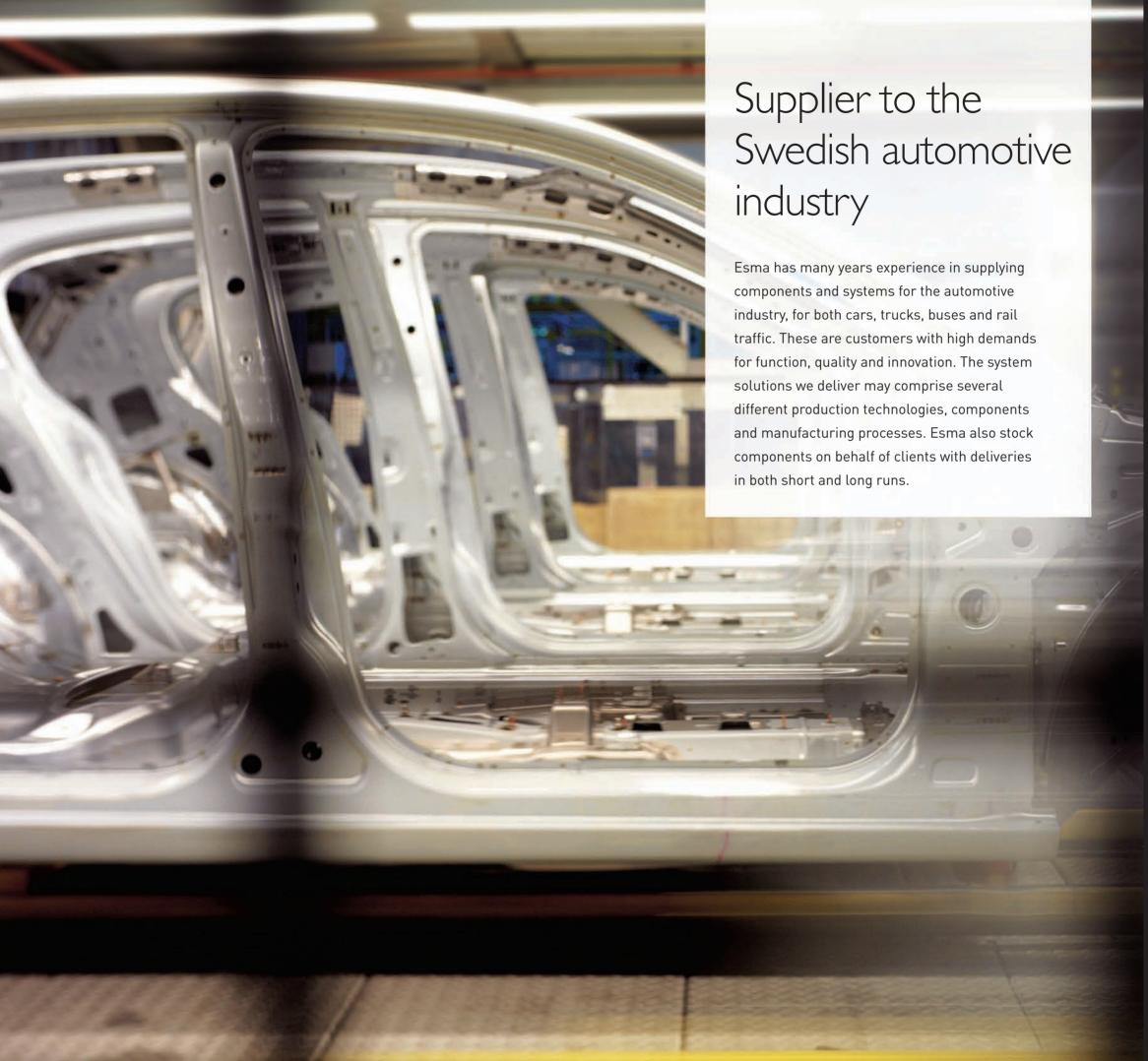
Injection moulding



Soundproofing



- ABS sensor wheel
- Air bag components
- Cylinder heads
- Parts for seat adjustment
- Door arch panels
- Door system for public transport
- EGR valves, air, oil and water pumps
- Electrical connectors
- Front axle pivot
- Fresh air vents
- Front module, door module, stamped sheet metal parts
- Window system, driver and passenger windows
- Fibre glass leaf springs
- Wheel bolts
- Wheel nuts
- High-strength fasteners
- High-strength engine screws
- Camshaft arms
- Piston rings for retarder
- Components for braking system
- Components for valve control
- Connectors
- Sound insulating components
- Air vents
- Lightweight components composite
- Precision forged components for power train
- Fibre glass leaf springs
- Roll formed, stretch bent profiles in steel and aluminium
- Sintered components for the power train
- Forged synchronisation components
- Turned components
- Synchronizer hub for gearbox
- Water pump, oil pump, WR valves
- Valve spring washer



Endless possibilities

in a product.

Esma can provide component solutions for most application areas and in a variety of materials and techniques. Complete systems or selected components



■ FASTENERS in steel, brass and stainless steel. High strength and heat resistant materials.

Thread forming threads: Spiral shape and taptite. Thread cutting threads: ST thread, KT thread, MT thread, PW thread and PI thread. Screw/bolt with Torx, Torx Plus, crosshead, internal/external hexagon and more.



■ WIRE BENDING AND SPRING tensile, compressive and coil springs.



■ POLYIMIDE composite components destined for demanding applications where there is wear and friction in combination with high temperatures.



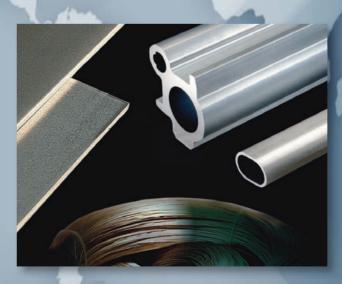
ACOUSTIC PRODUCTS FOR SPEECH TRANSMISSION Rescue/security services, police, defence, aviation, rail traffic, bus traffic, communications industry, marine technologies.



SPECIAL TOOLS High-quality hand tools in customised and unique designs.



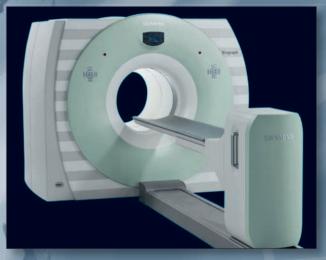
CONTACT MATERIALS CuWo/CuAg components for high and low voltage. Bi-metal contact (inlays), Ag-based contact material.



SEMI-MANUFACTURE Galvanic coating with precious metals (Au, Ag, Pd), on tape, wire and sheet metal. Profiles in Cu/Ni alloys. Extruded profiles in special aluminium alloy.



■ CENTRIFUGAL CASTINGS Rotational casting in high-alloy stainless steel as blanks in the form of tubes, rolls and rings or finished as per drawing.



POLYURETHANE Components in PUR for demanding applications in areas such as medical technology, here MRI scanner.



■ WASTE INCINERATION PLANTS
Gratings and boilers - new construction or modernisation.



■ CUTTING PROCESSES in various metallic materials, including plastics. Turning, milling.



CASTING chill casting, pressure casting, precision casting, rotational casting.

Components in different casting techniques, both as a blank and finished product as per customer drawings.



■ FORGING in different materials and sizes, both as a blank and finished product. Hot forming, cold forming



PUNCHING AND BENDING normal punching, fine punching.

With fine punching you can get clean cutting surfaces and even displace materials for different functions.

PRESSING cold flow pressing.



SINTERING complex components in powder metal, such as bearings and toothed components in most metallic materials.



CASTING AND INJECTION MOULDING

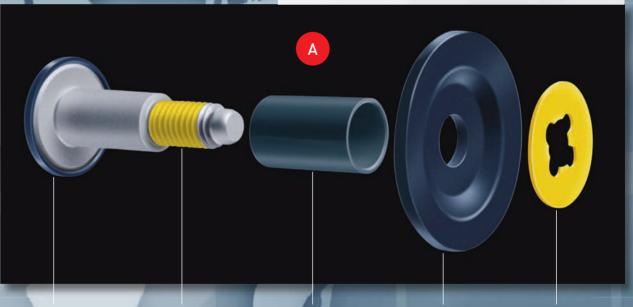


MIM Metal Injection Moulding. The components can weigh anything from a few grams to several kilograms.

The big picture

Esma represents you during the delivery programme and promotes your interests in dealings with producers and freight companies.

Regardless of whether it is a case of complete systems or selected components in a product or sometimes even from several producers in different countries. We then take responsibility for the logistics up to delivery to your warehouse if you desire. We are your partner in the complete business process.



Injection moulded plastic cover for anti-noise purposes

Special bolt of high strength steel with Torxgrip, thread lock with permanently locking threaded connection. Dacromet surface treatment ection moulded aring in plastic

Normal punched washer for power absorption, zinc/iron treated with corrosion protection Injection moulded locking latch

A typical example of system solutions for the automotive industry is the hinge joint, the support bolt for the rear right seat of a car. It consists of an assembly of five different components from seven producers in three countries and all the logistics.

is delivered ready for installation by the customer.

Assembly and quality control is carried out by a

QS-approved producer who delivers the product
directly to the customer. Esma is responsible for
all the logistics.

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Esma's business idea is to combine solid technical skills with a high level of service in order to deliver cost-effective component and logistics solutions to the Swedish manufacturing industry.

The company was founded in 1951 by Henryk Eiger and Erich Stör and has a strong market presence.

Esma is a privately owned and managed company with about 40 employees.

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