



## Welcome to Konga Bruk

We are situated at the heart of one of the hottest industrial regions in Europe, on the border between the Counties of Blekinge and Småland and close to the European market and our Swedish customers. We are regarded as a leading, innovative industrial company – by our customers, employees and business partners. We have short lead times, we are close to the decision-making process and have a truly open-minded approach to new solutions. This makes Konga Bruk a workplace which is constantly changing, thereby developing new solutions for our customers, improving our own efficiency and profitability and creating an atmosphere that is stimulating for everyone.

Konga Bruk is a supplier to the automotive industry and currently employs some 130 people, making it one of the largest employers in the area.

### Distance to Konga (km):

Stockholm 490

Göteborg 290

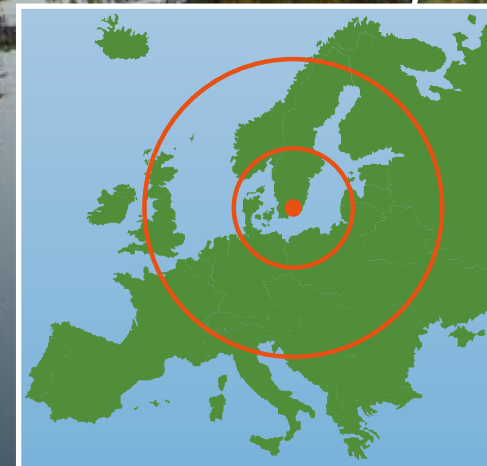
Malmö 190

Växjö 55

Emmaboda 35

Ronneby 33

Tingsryd 10





Over the years, this mill has been the subject of many changes. However, things are calmer now – but then again perhaps not! It is our objective to be the best in the world and we feel that we have already made enormous progress. With a long-term approach, cutting-edge technology, unrivalled professional skills and a forward-looking entrepreneurial spirit, we feel ready to comply with the market's varying requirements.

*Lars-Åke Skoog*  
*Managing director, Konga Bruk*

Some 22,000 m<sup>2</sup> of workshop space under one roof

# THE WHOLE CHAIN UNDER THE

## Catalysts and innovators

Konga Bruk has long traditions and an excellent reputation. These traditions currently express themselves in the form of technological innovation, process development and customer-related system discussions. By having everything under the same roof, we are close to technology and knowledge of all the relevant working procedures, their requirements and pre-requisites – invaluable skills and know-how when it comes to delivering quality products to extremely demanding customers. We are regarded as catalysts and innovators, something that both imposes demands and creates opportunities.

## Production Equipment

- Laser cutting
- Pressing
- Robot welding (MIG/MAG)
- Horizontal and vertical machining centre
- Axle fitting by shrinkage (heating)
- Surface Treatment
- Assembly

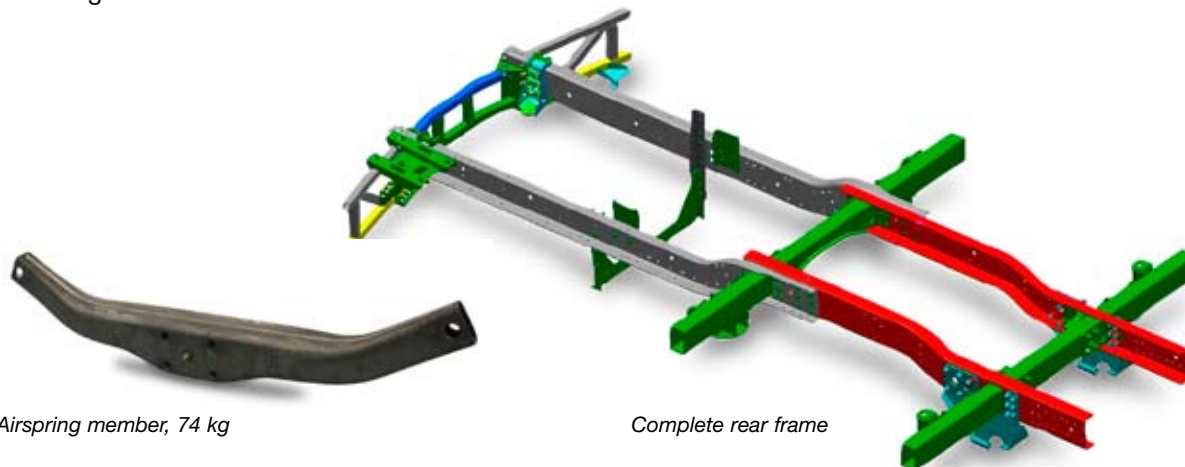
This makes Konga Bruk a complete solution supplier with a high processing-value of its own.



Tag axles, single, double and steered, 95-115 kg



Spindle Tag, 62,5 kg



Airspring member, 74 kg

Complete rear frame



Parallel rod, 30 kg

# SAME ROOF

## Total supplier

Konga Bruk has an extremely demanding market with customers who must work to continuously lower production costs, minimize their total weights, increase product safety, increase driving comfort and comply with new changes in laws and regulations. Therefore we continuously develop materials, production methods and personal competence. We refine the entire process from heavy gauge plate via laser cutting, pressing, machining, welding and painting to the assembly of customised, specially tailored end products. Just in time and Lean Production are two of our guiding principles, as our customers operate in a world, which is rigidly controlled by lead times and effective logistics.



**We have short lead times and we pay great attention to new ideas and solutions. This makes us a workplace in fast development.**





Laser head

# AMADA FO/SD 4020

## (Flying Optics/Smart Drill)

### Three production processes during the same cycle time!

Konga Bruk's Amada FO/SD 4020 has unique equipment capacity which enables no fewer than three different procedures during the same cycle time.

The machine simultaneously performs

- Automatic plate handling with a palette system
- Machining
- Laser cutting



Tool machine, 16 positions

### Optical verification system increases flexibility

To increase flexibility, the machine is equipped with an OVS (Optical Verification System) for:

- Verifying the zero reference point on blanks or parts
- Visual control of cutting quality
- Measuring the distance between holes
- Automatic focus calibration

Model	FO 4020 NT
Max. stroke axes	2020 x 4050 x 200 mm
Max. sheet thickness	2000 x 4000 mm
Max. blank weight	1000 kg
Output	4000 Watt
Max. material thickness	
Normal steel	25 mm
Stainless steel with oxygen	16 mm
Stainless steel with nitrogen	12 mm
Aluminium	12 mm

Model	OVS
Scanning method	CCD camera
Interface	RS 232
Resolution	0,03 mm/punkt
Tolerance measuring holes	0,01 mm
Measurement area	15,3 x 14,4 mm



Side member, 4000 mm, 80 kg







# TUBE LASER MACHINE

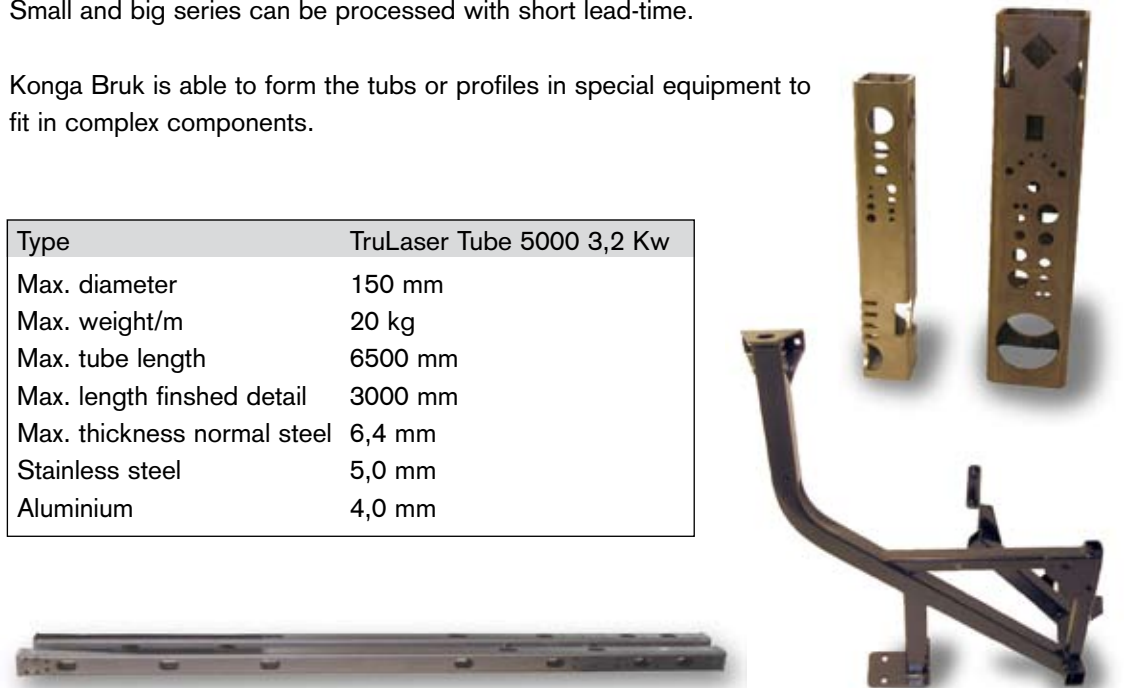
The TruLaser Tube 5000 makes it possible to cut tubes and profiles into sections in one clamping operation and to produce recesses and contours with the laser. Complete machining in one machine reduces set-up times, handling and organisational effort.

In addition, installation aids integrated into the tube simplify subsequent work steps. Pegs and clip connections eliminate the need for fixtures and time-consuming alignment work.

Small and big series can be processed with short lead-time.

Konga Bruk is able to form the tubs or profiles in special equipment to fit in complex components.

Type	TruLaser Tube 5000 3,2 Kw
Max. diameter	150 mm
Max. weight/m	20 kg
Max. tube length	6500 mm
Max. length finished detail	3000 mm
Max. thickness normal steel	6,4 mm
Stainless steel	5,0 mm
Aluminium	4,0 mm



# LASER CUTTING MACHINE

Our 2D laser cutting equipment with the latest technology for efficient cutting and handling of blanks for laser cutting. With the ContourLine function for "Cutting small holes", we can cut holes that are much smaller in diameter than the material thickness!

Small and big series can be processed with short lead-time. Thanks to the modern Automation we can guarantee 24/7 production!



Type	Trumpf 3050
Sheet size	3000 x 1500 mm
Max. thickness	25 mm
29 pallet places à	3 tonnes
Automatic sorting on pallet	
Max. thickness normal steel	25,0 mm
Stainless steel	20,0 mm
Aluminium	12,0 mm



# PRESSES

## Up to 1030 tonnes

These presses range from the Siempelkamp 1030T – one of Sweden's largest hydraulic presses with a pressing force of 1030 tonnes and a press table measuring no less than 3600 mm x 2500 mm – to the smaller excenter presses. As a result of its wide range of presses, Konga Bruk is able to offer highly flexible solutions, even for small series, when it comes to pressing projects.

## Hydraulic presses

A wide range of hydraulic presses makes Konga Bruk an extremely flexible, attractive supplier. Our range includes machines from Lagan, Tranemo, Siempelkamp, SMG and Amada/Promecam. We also have lifting and handling equipment for tools weighing up to 30 tonnes.

## Excenter presses

Cutting lines and excenter presses from both Raskin and Kaiser guarantee speed, strength and delivery precision. These are all important factors in the production of follow-on tools in several operational stages.



1030T hydraulic press  
(table 3600-2500 mm)



Hydraulic press with robot



AMADA edge press, 220 tonnes, 4000 mm press table

# WELDING EQUIPMENT

## 100% focus on carbon steel

We have concentrated our welding operations on the MIG/MAG technique, with the focus on carbon steel, but we also have many years' experience of stainless steel. Flexible equipment, first and foremost robot welding, experience of many different assignments, combined with tradition and professional skills, focusing on large, heavy-duty steel products, have made Konga Bruk a pioneer and a reliable supplier of this type of welding work.



ABB-Robot

## Welding equipment

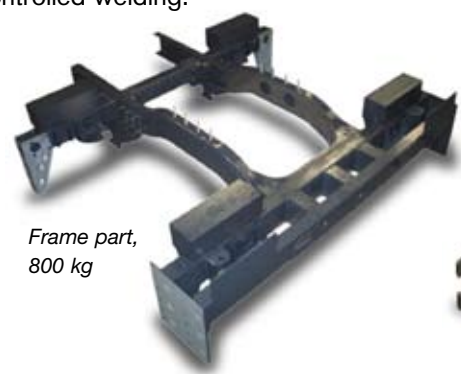
A large range of different machines handled by extremely experienced operators has given Konga Bruk a leading profile in both the automotive and engineering industries worldwide. Machinery from ESAB, Kemppi, Lincoln, Pemamek Oy and Kirkhof guarantee strength, durability and function. Our expertise and flexibility create the best conditions and the best results – for us and for our customers.

## Welding robots with their own fixture solutions

Some of the market's best welding robots with positioners from ABB and Motoman produce welding joints of fine quality and excellent continuity. We also have in-depth experience of automated, product-controlled welding.



Gantry System, Motoman	
Working space	16x4x4 m
Seam Tracking	
Max object load	10 tonnes



Frame part, 800 kg



EB member, bushing, 110 kg





# MACHINING EQUIPMENT

## Multi-operation machines for high-volume production

Our focus on large, multi-operation machines and smooth bed milling machines provides the ideal complement to the rest of Konga Bruk's machinery. The company's experience from many different assignments with demanding parts and components, combined with its tradition and professional expertise, has made Konga Bruk a pioneer and a reliable supplier in this type of machining work.

These machines, which cut, saw, drill and mill, among other things, each have up to 100 different tool positions. Our Hüller Hille machine (NBH 290) is particularly suitable for really large assignments (palette size 800 x 1000 mm). The LEADWELL MCV 200P bed milling cutter can handle assignments suitable for 800 x 2200 mm (palette size 500 x 1200 mm).



New Bed Milling machine BF-4200 CNC, ATC with 24 different tools. Working space: Long travel = 4000, Cross travel = 1200 and Vertical travel 1500. Max load 13000 Kg.

## Flexible customisation and smart fixture solutions

# SURFACE TREATMENT AND PAINTING

## Two special lines

We have two modern surface treatment and painting lines. One of them is especially designed for large, heavy products and it can accommodate items weighing up to 900 kg, with dimensions of L = 2740 mm, B = 1250 mm and H = 1200 mm.

The other is currently specially designed for items for the heavy-duty automotive industry that are produced under contract.

## Pre-treating steel products

Konga Bruk's dipping system, Wache, guarantees the essential six-stage pre-treatment of all steel products.

- Stage 1 Alkaline wash
- Stage 2 Rinsing water with activation
- Stage 3 Zinc phosphatisation
- Stage 4 Rinsing
- Stage 5 Trivalent chrome passivation
- Stage 6 Primer, wet and powder

## Paintshop, powder

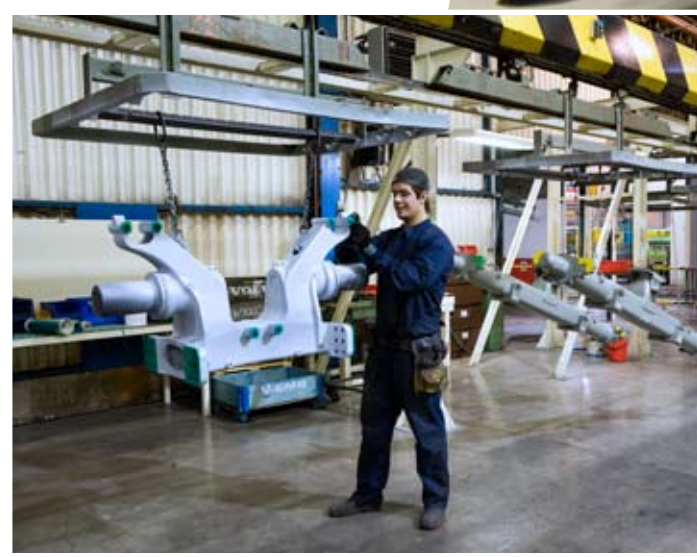
All primed parts are powder coated and hardened at 200°C.

## Blasting

All the blanks are blasted prior to welding, machining and painting. We can handle sheets measuring up to 1700 mm x 4000 mm.



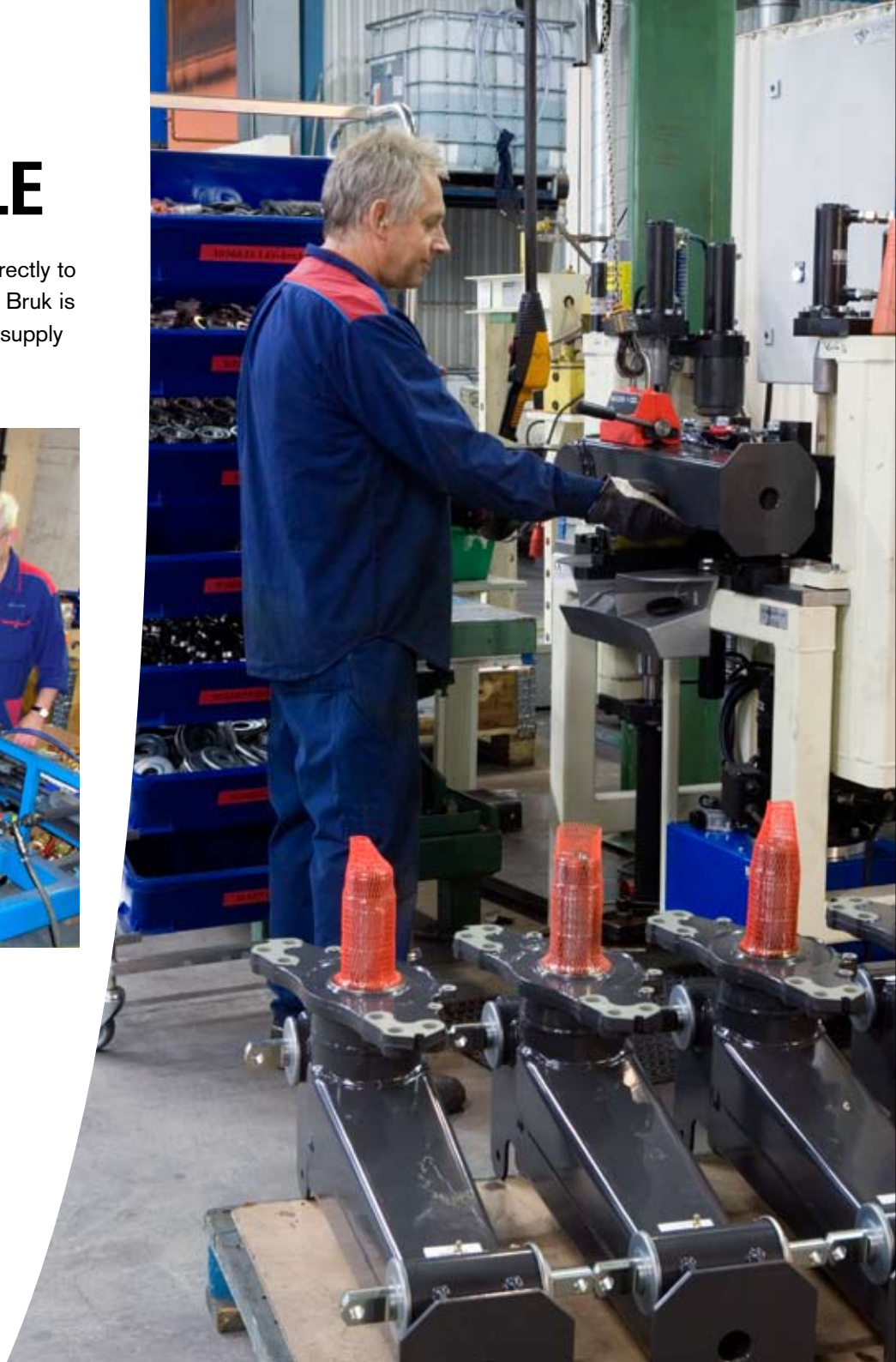
Sampling a purification unit



# ASSEMBLY FORMS A WHOLE



After assembly and final inspection we supply directly to our customers' assembly line just in time. Konga Bruk is the single source of all our components and we supply them to our customers around the world.



*Welded bogie bracket, 162 kg*



*Cast bogie bracket, 375 kg*



*Blasted flat sheets 1700 x 4000 mm*



*Measuring head*



*Measuring arm*

# QUALITY AND THE ENVIRONMENT

We are certified and do our work according to ISO/TS 16949 in order to improve our product and processing quality, while simultaneously focusing on customer satisfaction and confidence in us as a supplier.

## Quality through experience

Over the years, our way of working, combined with our own and our customers' quality requirements, has given us in-depth experience of quality-oriented work – at every level. When it comes to the choice of materials, the detailed control of production at every workstation, and the selection of new employees, every procedure is governed by a 100% focus on quality. This is something we are keen to emphasise, both in Sweden and internationally, and we therefore use the slogan "Quality through experience" in our market communication.

## Delivery precision

Optimal control of deliveries and the ongoing training of our employees ensure that we constantly provide the highest delivery precision in connection with series production.

## Environmental policy with obligations

We are also certified according to ISO 14001-Environmental Management Systems. Our target is constantly to reduce and minimise our environmental load. We do this in conjunction with our quality system. To support our environmental programme, we have an environmental policy that specifies our objectives, together with our principles and visions.



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