



FREEDOM TO CREATE

WE REVOLUTIONIZE THE WORLD OF STEEL

[HGG-GROUP.COM](https://www.hgg-group.com)

FREEDOM TO GROW

We revolutionize the world of steel! Our strength originates from the unique synergy between our two business entities; one part of the company focuses on developing and producing 3D profiling machines, while the other part performs 3D profiling services.

CUTTING MACHINES

We focus on developing and producing customized 3D profiling machines for your specific demands.

With our machines you get highly accurate cut results with weld preparation.

Automate your cutting process

CUTTING SERVICES

We perform 3D profiling services with our in-house built machines. You benefit from our 3D profiling specialists' technological expertise.

We can get your parts ready for fast and easy fitting and welding.

Let us do the cutting



PCL 600

WORLD'S MOST PRODUCTIVE PROFILE CUTTING LINE

Equipped with edge cleaning, marking, and multiple CAD-CAM interfaces, the PCL 600 is the most innovative and productive plasma cutting line available on the market. This high-performance profiling cutting line can cut all the most often used profiles in the shipbuilding industry, and with its high-volume output, it offers the best option available for middle- to larger-sized shipyards.

- ➔ THE MOST PRODUCTIVE PROFILE CUTTING LINE ON THE MARKET
- ➔ PROVEN TECHNOLOGY SINCE 2002
- ➔ CONFIGURABLE TO SUIT YOUR NEEDS



“THANKS TO THE HGG PROFILE CUTTING LINE, WE’VE SIGNIFICANTLY INCREASED OUR PRODUCTION SPEED BY AROUND 4 TO 5 TIMES. HAVING THE PCL HAS ALSO POSITIVELY AFFECTED OUR PRODUCTION PLANNING.”



Alexey Shadrov
Head of Design Engineering

**‘CUTTING
STIFFENERS
5 TIMES
FASTER’**

SPECIFICATIONS

							
➔ Metric (mm)	95×55 - 420×220 mm	75×50 - 550×150 mm	50×50 - 220×220 mm	100×50 - 500×200 mm	60×15 - 430×83 mm	50×5 - 550×30 mm	2.5 t / 5512 lbs
➔ Imperial (inch)	3¾"× 23/16" - 16½"× 85/8"	3"×2"× - 215/8"×57/8"	2"×2" - 85/8"×85/8"	4"×2" - 195/8"×77/8"	23/8"×¾" - 167/8"×3¼"	2"×3/16" – 215/8"×11/8"	2.5 t / 5512 lbs





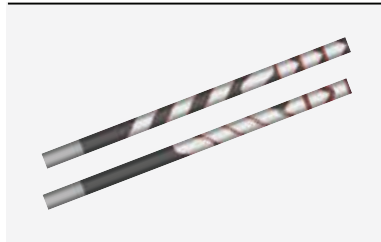
STIFFENER CUTTING IS NO LONGER THE BOTTLENECK

‘HGG HELPED US TO INCREASE
PRODUCTION SPEED AROUND
4 TO 5 TIMES AND THAT MAKES
US A MUCH MORE ATTRACTIVE
CHOICE FOR POTENTIAL
CUSTOMERS’



SOFTWARE SOLUTIONS

OPTIMIZED NESTING



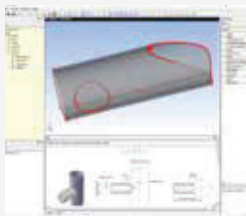
Reduce scrap to a minimum!
Ensure optimal, cost-efficient placement of parts in the available raw materials by reducing waste. Including many useful features for subdividing production processes.

STEP IMPORT



Freedom to cut any shape! Import STEP files from a solid model and let our software take care of the weld preparations. STEP import gives you the freedom to create anything!

3D VIEWER



Improve your detailing software!
Experience the advantages of easy single part programming, 3D viewer and part measuring tool and manage your Key Performance Indicators.

SEAMLESS CAD MODEL INTEGRATION



Import all cutting data directly!
We have a seamless integration with most CAD systems, allowing you to import all cutting data directly from your CAD model, saving 80% work preparation time!

NEW CUTTING SHAPES



Reduce costs with weld volume reduction macros! Enter new markets with additional cutting shapes or reduce cutting time by intelligent cutting routines

INTUITIVE USER INTERFACE



Maximize machine up-time with machine diagnostics! HGG's in-house developed UPC software is a self-explanatory interface, using icons to reduce operator training time.

CUTTING TECHNIQUES

'HGG SUPPORTS BOTH KJELLBERG AND HYPERTHERM, TWO WELL EXPERIENCED AND INDUSTRY LEADING CHOICES'

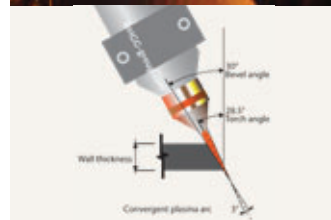


OXY-FUEL CUTTING

Oxy-fuel cutting is a reliable, accurate and competitive cutting technique used for the cutting of mild steel. Only metals whose oxides have a lower melting point than the base metal itself can be cut with this process.

Oxy-fuel allows:

- Cutting of thicker walled material up to 300 mm
- Cutting of steeper angles up to 70° (as compared to 45° with plasma) because of the torch.



PLASMA CUTTING

Plasma cutting is a high speed cutting technology developed to cut electrically conductive materials. Plasma cutting can be used on any electrically conductive material. Materials such as stainless steel, can only be cut by plasma cutting because no oxidization occurs prohibiting the use of oxy-fuel cutting. In the wall thickness range up to 25 mm, plasma cutting outperforms oxy-fuel cutting.

Plasma allows:

- High cutting speeds
- Cutting of exotic materials
- Cutting without need of pre-heating

MARKING OPTIONS

Marking is used to identify the parts, the distance and orientation between them and the interconnections. Our 3D profiling machines can be equipped with several marking options.

TEXT REFERENCE MARKING



The unique ID name used in CAD drawings can be printed on the parts. If required, additional information can be added such as project title, job number etc.

REFERENCE LINES



These lines on the profile help orientate, position, measure or weld the different parts of a construction.

BEND LINE MARKING



To ensure that profiles are bent correctly, you can choose to add inverted bend lines to the cut profiles. These lines are curved when printed and should be straight after bending.

INKJET MARKING



Inkjet marking is a non-permanent marking technique and has no influence on the material characteristics of the profile. Ink is used to record plotted markings on the profile. These markings will not be visible after blasting or painting.

(RE)MARKING HEAT NUMBERS



HGG is certified to do re-marking of material heat numbers. After cutting your material, our operator duplicates the material heat number to every cut part by re-marking for efficient quality control.

PUNCH MARKING



A pneumatically operated low-stress needle 'punches' the marking into the material with a constant, pre-set pressure. As a result, the markings remain permanently on the material.

PLASMA MARKING



Semi-permanent marking option supplied through the plasma cutting torch. Anywhere you need to create temporary or permanent marks, ideal for layout and text markings.



EDGE TREATMENT

Creating a barrier against corrosion is essential for extending the lifetime of steel structures. Edge breaking is therefore applied for improving the surfaces for coating coverage and ultimately corrosion protection.

WIRE BRUSH CLEANING SYSTEM



With an assembly of three rotating brushes, three faces of the material can be cleaned simultaneously. The assembly adapts to the whole range of different profiles. These wire brush cleaning machines are specifically developed for the purpose of cleaning ship stiffeners.

SHOT BLAST CLEANING SYSTEM



These machines have specifically been developed for the purpose of cleaning ship stiffeners and are not comparable to a flat plate or flat-bar cleaning machine. HGG integrates the edge cleaning system with all necessary software in an automatic cycle with the profile cutting positioned after the edge cleaning unit.

EDGE ROUNDING BY ROLLING



With our Edge Rounding service we can automatically process a radius of 2-3 mm on a beam flange, T-bar or flat-bar by rolling the edges. Once the edges are rounded the beams can easily meet the corrosion protection requirements.

‘ONE OF THE BIGGEST ADVANTAGES OF HGG IS THAT THEY MAKE BEVELED CUTS ON THE PROFILES’

Hans Peter Labee | Fitter at Hollandia



ABOUT HGG

In 1984, in a small town just north of Amsterdam, a steel construction company faced the same challenge many fabricators still encounter today: cutting pipes by hand was slow, inconsistent, and limited creative possibilities.

Rather than accept the status quo, the team set out on an ambitious mission—to build the world's first automated pipe profiling machine. It was a bold step, born from craftsmanship and driven by vision. That decision didn't just transform their own production; it reshaped the future of steel fabrication.

Fast forward 40 years: what started as a workshop challenge has grown into HGG International B.V., a global leader in 3D profiling solutions. From pioneering pipe profiling machines to advanced cutting technologies for complex steel structures, we've empowered fabricators around the world to work faster, smarter, and with true design freedom.

WHAT KEEPS US INSPIRED

As we celebrate four decades of innovation, our commitment remains the same: We revolutionize the world of steel.

**PROCESSING 2000
TONS OF STEEL
EACH MONTH**

**> 1100
MACHINES
INSTALLED**

**170
EMPLOYEES
WORLDWIDE**





**CUSTOMERS
IN OVER 69
COUNTRIES**

**100
MACHINES
PER YEAR**

**3D PROFILING
EXPERIENCE
SINCE 1984**



**YOU WILL
FIND OUR
300+ ROBOTS
ALL OVER
THE WORLD**

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