Discover our world of innovation

Specialists in 3D profiling

hgg-group.com
Our philosophy of freedom

HGG is all about freedom. We readily share our knowledge and expertise, while forming strategic partnerships to grant even greater freedom to the customer. Ultimately, our mission is to continue our quest of automating craftsmanship, giving the world of steel the freedom to create!

“The average age of a certified welder in the US is 56”
We automate craftsmanship to give the world of steel the freedom to create! Our strength lies in the unique synergy between our two business entities. One part of the company focuses on developing and producing customized 3D profiling machines, while the other performs 3D profiling services for third parties with our in-house built machines.

**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 a bevel.

- 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
3D Profiling is an automated process of cutting 3-dimensional forms on metal pipes, beams and other profiles. These cuts prepare the profiles for the purpose of forming welded connections. 3D profiling is the cutting of 3-dimensional forms on non-flat material, thus forming a precise geometrical fit in order to create strong welded connections.
Machines & Services

PIPE AND BOX SECTION CUTTING SERVICE
With our pipe cutting machines and pipe cutting services you can cut any shape on a pipe or tube extremely accurate and with a bevel. Our tube and pipe cutting machines and services enable you to realize complex connections on a large range of material sizes.

You receive a ready-to-weld package, so you can focus on fast & easy fitting and welding. We provide a range of pipe cutting services to help you cut any shape on your steel tubulars with utmost accuracy and with a bevel and plate slots. The CNC machines for tubular profiling are developed and produced by us.

PIPE AND BOX SECTION CUTTING SPECIFICATIONS

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>42-8000 mm [1 5/8” – 314”]</td>
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<td><strong>Track and trace</strong></td>
<td>Permanent and non-permanent marking</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>At HGG or on your site</td>
</tr>
<tr>
<td><strong>CAD</strong></td>
<td>Autocad, Tekla and many others</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Carbon steel, stainless steel and other alloys</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>ISO 9001; Lloyds 3.1 &amp; 3.2</td>
</tr>
</tbody>
</table>
ProCutter 600
CNC Pipe Cutting Within Reach

The ProCutter 600 CNC pipe cutter incorporates all of HGG’s advanced technology and expertise. Operational excellence is applied to keep costs low. Pipes up to 610 mm (24”) in diameter can be processed with a wide range of part lengths and profiling shapes. The PC600 is available with oxy fuel, plasma, marking and CAD-CAM interfaces.

1. Most affordable pipe cutting machine
2. Small footprint
3. Up to 12 times faster than manual cutting, including weld preparation

“Very soon into the Perm tower project we knew that this kind of complicated geometry with bevels is practically not possible to cut manually. That is why we purchased the HGG ProCutter 600!”

Mr. Yuri Sorvanov
Managing Director
Mastenergo

SPECIFICATIONS

<table>
<thead>
<tr>
<th>PC 600</th>
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<tbody>
<tr>
<td>48–610 mm (2” – 24”)</td>
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</tbody>
</table>
Fabricating the 1700 ton London Eye

“We needed very strong welded pipe to pipe connections to endure intense dynamic loads”
The SPC 500-1200 is a highly accurate pipe cutting machine, which processes a wide variety of materials, sizes and wall thicknesses, making it suitable for all applications. Available with many options, this machine can be customized to suit your needs and requirements.

1. Fully customizable to your needs
2. Extremely accurate pipe cutting
3. Process a wide variety of materials, sizes and wall thicknesses

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter Range</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 500 PT</td>
<td>48–510 mm (2&quot; – 20&quot;)</td>
<td>8 t</td>
</tr>
<tr>
<td>SPC 600 PT</td>
<td>48–610 mm (2&quot; – 24&quot;)</td>
<td>8 t</td>
</tr>
<tr>
<td>SPC 800 PT</td>
<td>48–815 mm (2&quot; – 32&quot;)</td>
<td>8 t</td>
</tr>
<tr>
<td>SPC 1000 PT</td>
<td>48–1020 mm (2&quot; – 40&quot;)</td>
<td>8 t / 12 t</td>
</tr>
<tr>
<td>SPC 1200 PT</td>
<td>48–1225 mm (2&quot; – 48&quot;)</td>
<td>8 t / 12 t</td>
</tr>
</tbody>
</table>

“Before purchasing the SPC 600 pipe profiling machine we were cutting up to 20 tons of steel per day. We are now capable of cutting over 40 tons a day!”

Mr. Adem Aladag
Technical Office Chief Engineer
SOLB26
The SPC 660-1200 chuck-type pipe cutting line combines the roller bed principle for an uninterrupted material flow, while controlling the rotation of the material with a floating chuck registering linear displacement. Pipes up to 1225 mm (48") in diameter can be processed with a wide range of part lengths and profiling shapes. With its adjustable characteristics, the SPC-RB will be fully customized to fit your requirements.

**SPC 660-1200 RB**
**Combine the Best of Both Worlds**

1. The best of both worlds; chuck driven with roller bed for extreme accuracy
2. Advanced logistic system for maximum throughput
3. Minimized use of overhead crane

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>SPC 660 RB</th>
<th>SPC 1200 RB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>75–660 mm</td>
<td>75–1225 mm</td>
</tr>
<tr>
<td>Part Length</td>
<td>[3” – 26&quot;]</td>
<td>[3” – 48&quot;]</td>
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<tr>
<td>Weight</td>
<td>8 t</td>
<td>12 t</td>
</tr>
</tbody>
</table>

“Large volume plus complex design is no longer a problem”

“We decided to purchase one pipe cutter with advanced logistics. This allowed us to replace two traditional pipe cutting machines.”

Mr. Igor Stennikov
Chief of Welding
Kurganstalmost
Cut a jacket in less than 80 hours

“They know your industry as well as the application and entire production process. That makes HGG unique!”
The Multiple Profile Cutting machine is capable of cutting a variety of profiles to high levels of accuracy. It can cut multiple profiles; pipe, flat-bar and box section. This makes the MPC more flexible in situations where production volume does not justify a dedicated machine for the profiling of pipes only. The MPC combines the cutting capability of three machines into one machine.

1. Extremely versatile; combined pipe and box-section cutting
2. Compensating material deviations with advanced laser measurement
3. Freedom to cut any desired shape including weld preparation

**MPC 450 | 500-1200**

*Combine 3 Machines in One*

“Outsourcing no longer necessary”

“Maintaining a tight tolerance was a constant issue in the past. We have had to disassemble an entire rig and scrap it because the quality was simply not there. Now we get accurate cuts for a perfect fit every time!”

Mr. Ram Cortez
Production Manager
Orion Drilling

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Min. Diameter [&quot; - &quot;]</th>
<th>Max. Diameter [&quot; - &quot;]</th>
<th>Min. Size [&quot; x &quot;]</th>
<th>Max. Size [&quot; x &quot;]</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>MPC 450</td>
<td>48-510 mm [2&quot; - 20&quot;]</td>
<td>60x60 mm - 450x450 mm</td>
<td>2 3/8&quot; x 2 3/8&quot; - 18&quot; x 18&quot;</td>
<td>On request</td>
<td>8 t</td>
</tr>
<tr>
<td>MPC 600</td>
<td>48-610 mm [2&quot; - 24&quot;]</td>
<td>60x60 - 450x450 mm</td>
<td>2 3/8&quot; - 18&quot; x 18&quot;</td>
<td>On request</td>
<td>8 t</td>
</tr>
<tr>
<td>MPC 800</td>
<td>48-815 mm [2&quot; - 32&quot;]</td>
<td>60x60 mm - 450x450 mm</td>
<td>2 3/8&quot; x 2 3/8&quot; - 18&quot; x 18&quot;</td>
<td>On request</td>
<td>8 t</td>
</tr>
<tr>
<td>MPC 1000</td>
<td>48-1020 mm [2&quot; - 40&quot;]</td>
<td>60x60 mm - 450x450 mm</td>
<td>2 3/8&quot; x 2 3/8&quot; - 18&quot; x 18&quot;</td>
<td>On request</td>
<td>12 t</td>
</tr>
<tr>
<td>MPC 1200</td>
<td>48-1225 mm [2&quot; - 48&quot;]</td>
<td>60x60 mm - 450x450 mm</td>
<td>2 3/8&quot; x 2 3/8&quot; - 18&quot; x 18&quot;</td>
<td>On request</td>
<td>12 t</td>
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</tbody>
</table>
Pipe/Box Section Cutting

SPC 1500-3000 PT
CNC Pipe Cutting Machine
for Vessels and Offshore

The SPC 1500-3000 machine is a very robust machine built to handle large pipe diameters and heavy weights. Everything in the machine is designed with the purpose of guaranteeing extreme tolerances during cutting. Pipes up to 3000 mm (118”) in diameter can be processed with a wide range of part lengths and profiling shapes.

1. Large diameter range with weight capacity up to 60 tons
2. Fully customizable to your needs
3. Extreme thicknesses under cutting angles up to 70 degrees

“Cutting ten times faster”

“A large vessel, cut as one piece, used to take us roughly 40-50 hours to cut by hand. Now, with the SPC 1500-3000 PT pipe cutting machine, we can cut it in less than 4 hours!”

Mr. Kurt Schaerer
General Manager
Enerflex

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIAMETER RANGE (IN)</th>
<th>MAX WEIGHT</th>
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<tbody>
<tr>
<td>SPC 1500 PT</td>
<td>75–1525 mm [3” – 60”]</td>
<td>18 t</td>
</tr>
<tr>
<td>SPC 2000 PT</td>
<td>100–2035 mm [4” – 80”]</td>
<td>18 t / 40 t</td>
</tr>
<tr>
<td>SPC 2500 PT</td>
<td>200–2500 mm [8” – 98”]</td>
<td>30 t / 40 t / 60 t</td>
</tr>
<tr>
<td>SPC 3000 PT</td>
<td>200–3000 mm [8” – 118”]</td>
<td>30 t / 40 t / 60 t</td>
</tr>
</tbody>
</table>
SPC 1500-3000 VHC
Cut a Complete Vessel on One Machine

The SPC pipe and vessel cutting machine is the answer to pressure vessel manufacturers spending too much time on lay-outs. The SPC-VHC saves fabricators time on laying out, cutting, fitting and welding. The SPC 1500-3000 VHC is the ideal solution for vessel cutting, capable of cutting vessel heads, shells, nozzles, reinforcement pads and hillside holes, all with a bevel to create weld preparation and all on the same machine.

1. Cut a complete vessel on one single machine
2. No more lay-out, increasing throughput significantly
3. Grinding belongs to the past; hillside holes, x-bevels and reinforcement pads is no longer a problem

“In the past, when cutting the vessel manually you had to grind and clean before you could fit the nozzle in. Now, you give it a quick buff and just set it in.”

Mr. Shawn Johnson
Production Manager
Enerflex

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter Range</th>
<th>Length Range</th>
<th>Tonnage</th>
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<tbody>
<tr>
<td>SPC 1500 VHC</td>
<td>100-1525 mm (4” - 60”)</td>
<td>600-1500 mm (24” - 60”)</td>
<td>18 t</td>
</tr>
<tr>
<td>SPC 2000 VHC</td>
<td>100-2035 mm (4” - 80”)</td>
<td>600-2000 mm (24” - 80”)</td>
<td>18 t / 40 t</td>
</tr>
<tr>
<td>SPC 2000 VHC</td>
<td>200-2500 mm (8” - 98”)</td>
<td>600-2500 mm (24” - 98”)</td>
<td>30 t / 40 t / 60 t</td>
</tr>
<tr>
<td>SPC 2000 VHC</td>
<td>200-3000 mm (8” - 118”)</td>
<td>600-3000 mm (24” - 118”)</td>
<td>30 t / 40 t / 60 t</td>
</tr>
</tbody>
</table>
Cut a vessel in less than 4 hours

"With the HGG machine we have a perfect cut every time and the margin for errors is gone. Now the welders can do what they are good at, welding!"
Pipe/Box Section Cutting

**TCL 400**
Pipe Cutting 2.0

The TCL 400 tube cutting line is the next generation 3D cutting machine for pipe and tube. Both the machine’s productivity and cutting precision are supreme in its diameter range. The highly productive TCL is the answer to automated but expensive tube laser cutting machines.

1. Fully automated pipe shop
2. Simultaneous cutting and sorting; increased throughput by 32%
3. From stock pipes to batches of ready-to-fit parts

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>TCL 400</th>
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<tbody>
<tr>
<td>48–406 mm (2&quot; - 16&quot;)</td>
<td>3 t</td>
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</table>
“Being part of an architectural masterpiece by cutting the most complex connections makes me proud.”

Senad Zilic | Machine Operator at HGG
Machines & Services

BEAM CUTTING SERVICES
With our beam cutting machines & services you can cut any shape on a beam extremely accurately and with a bevel. Our beam cutting products enable you to realize strong welded and bolted connections on beams with a minimum of fitting time. Beam deformations are handled by an advanced laser measurement system and sharp beam edges can be rounded by an edge rounding unit.

You receive a ready-to-weld package, so you can focus on fast and easy fitting and welding. We provide a range of beam cutting services to help you cut any shape on your steel material with utmost accuracy and with a bevel and bolt holes. Our CNC machines for coping beams are developed and produced by us. Our edge rounding line creates perfectly rounded edges on flanges of beams, T-bars and flat-bars.

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**BEAM CUTTING SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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<tbody>
<tr>
<td><strong>Size</strong></td>
<td>IPE 100 - HEM 1200</td>
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<tr>
<td><strong>Track and trace</strong></td>
<td>Permanent and non-permanent marking</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>At HGG or on your site</td>
</tr>
<tr>
<td><strong>CAD</strong></td>
<td>Autocad, Tekla and many others</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Carbon steel</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>ISO 9001, Lloyds 3.1 &amp; 3.2</td>
</tr>
</tbody>
</table>
RPC 600-1200
Beam Cutting 2.0

The RPC 600-1200 beam cutting machine is a high speed plasma cutting machine and the most advanced and productive one on the market today. The new RPC offers high speed plasma cutting of ready-to-fit parts prepared for any desired connection; both welded and bolted connections.

The RPC sets a new standard by offering an entire fabrication shop in a single machine.

1. The first machine developed for both bolted and welded connections
2. Compensating material deviations with advanced laser measurement
3. Freedom to cut any desired shape including weld preparation

RPC 600

<table>
<thead>
<tr>
<th>Width</th>
<th>Thickness</th>
<th>Height</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 mm</td>
<td>4 in</td>
<td>23 in</td>
<td>4 t</td>
</tr>
<tr>
<td>140 mm</td>
<td>5.5 in</td>
<td>5.5 in</td>
<td>6 t</td>
</tr>
<tr>
<td>430 mm</td>
<td>17 in</td>
<td>4 in</td>
<td>12 t</td>
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</tbody>
</table>

RPC 1200

<table>
<thead>
<tr>
<th>Width</th>
<th>Thickness</th>
<th>Height</th>
<th>Capacity</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>140 mm</td>
<td>5.5 in</td>
<td>5.5 in</td>
<td>6 t</td>
</tr>
<tr>
<td>430 mm</td>
<td>17 in</td>
<td>4 in</td>
<td>12 t</td>
</tr>
</tbody>
</table>

“I have been looking for a machine which could do every bolted and welded cut without compromises. The RPC does it all and fulfills our future needs!”

Mr. Pasquale G. Tsingos
Technical Director
Brafer

Proud Owner

“Bolted and welded connections without compromises”
“At HGG nothing is considered impossible. There are always challenging projects to work on. I like that!”

Klaas Slagter | R&D Engineer at HGG
**Machines & Services**

**PROFILE CUTTING SERVICES**

Our profile cutting machines and services you can cut any shape on a profile extremely accurately and with a bevel. Our profile cutting machines and services enable you to realize all possible end and intermediate cuts with a bevel on a large variety of stiffeners for the shipbuilding industry, such as HP / bulb, flat-bar / strip, angle bar and T-bar.

You receive a ready-to-weld package, so you can focus on fast and easy fitting and welding. We provide a range of profile cutting services to help you cut any shape on your steel material with utmost accuracy and with a bevel and intermediate cut-outs. Our CNC machines for cutting angle bars etc. are developed and produced by us.

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**PROFILE CUTTING SPECIFICATIONS**

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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</thead>
<tbody>
<tr>
<td><strong>Size</strong></td>
<td>75×75 mm – 1220×430 mm (3&quot; × 3&quot; - 48&quot; × 17&quot;)</td>
</tr>
<tr>
<td><strong>Track and trace</strong></td>
<td>Permanent and non-permanent marking</td>
</tr>
<tr>
<td><strong>Location</strong></td>
<td>At HGG</td>
</tr>
<tr>
<td><strong>CAD</strong></td>
<td>Autocad, Tekla and many others</td>
</tr>
<tr>
<td><strong>Profiles</strong></td>
<td>Angle bar (unequal, T-bar, channel, flat-bar</td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>ISO 9001; Lloyds 3.1 &amp; 3.2</td>
</tr>
</tbody>
</table>
PCL 300-600
World’s Most Productive Profile Cutting Line

The profile cutting line is a high performance plasma cutting line. Equipped with edge cleaning, marking and multiple CAD-CAM interfaces, the PCL is the most innovative and productive plasma cutting line.

The PCL is capable of cutting all profiles commonly used in the ship building industry and, if special cuts are required, HGG can develop extra profiling shapes on request.

1. Market leader with 68 installations throughout the world
2. Simultaneous cutting and sorting
3. 30% more productive than any other machine available on the market

“Thanks to the HGG Profile Cutting Line, we’ve increased significantly our production speed by around 4-5 times. Having the PCL has also positively affected our production planning.”

Mr. Sergey Kabakov
Chief Engineer
Vyborg Shipyard

SPECIFICATIONS

<table>
<thead>
<tr>
<th>PCL 300</th>
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</thead>
<tbody>
<tr>
<td>100×50 – 250×150 mm</td>
<td>4&quot; × 2&quot; – 9.8&quot; × 5.9&quot;</td>
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<tr>
<td>60×15 – 300×60 mm</td>
<td>2.4&quot; × 0.8&quot; – 11.8&quot; × 2.4&quot;</td>
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<tr>
<td>50×5 – 300×30 mm</td>
<td>2&quot; × 0.2&quot; – 12&quot; × 1.2&quot;</td>
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<tr>
<td>Not possible</td>
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<tr>
<td>75×50 – 250×150 mm</td>
<td>3&quot; × 2&quot; – 9.8&quot; × 5.9&quot;</td>
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<td></td>
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<tr>
<td>50×50 – 150×150 mm</td>
<td>2&quot; × 2&quot; – 5.9&quot; × 5.9&quot;</td>
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<tr>
<th>PCL 600</th>
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<tbody>
<tr>
<td>100×50 – 500×200 mm</td>
<td>4&quot; × 2&quot; – 19.7&quot; × 7.9&quot;</td>
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<tr>
<td>60×15 – 430×83 mm</td>
<td>2.4&quot; × 0.8&quot; – 16.9&quot; × 3.3&quot;</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>50×5 – 550×30 mm</td>
<td>2&quot; × 0.2&quot; – 21.7&quot; × 1.2&quot;</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>95×55 – 420×220 mm</td>
<td>3.7&quot; × 2.2&quot; – 16.5&quot; × 8.7&quot;</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>75×50 – 550×150 mm</td>
<td>3&quot; × 2&quot; – 21.6&quot; × 5.9&quot;</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>50×50 – 220×220 mm</td>
<td>2&quot; × 2&quot; – 8.7&quot; × 8.7&quot;</td>
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HGG helped us to increase production speed around 4 to 5 times and that makes us a much more attractive choice for potential customers.

Stiffener cutting is no longer the bottleneck
Features & Options

TOGETHER WE ACHIEVE MORE
Automating craftsmanship to give the world of steel the freedom to create. This is our mission. We don’t just achieve that by offering 3D profiling machines, we develop our machines in such a way that they are customizable.

In this way we are able to deliver value to our customers by offering products that meet their requirements.
Features & Options

Marking Options

Marking is often necessary 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**
- **Reference Lines**
- **Bend Line Marking**
- **Inkjet Marking**
- **Heat Numbers**
- **Punch Marking**
- **Plasma Marking**

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

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

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 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.

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.

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.

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 Rounding Line can automatically process a radius 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.

These machines have been specifically 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.

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.

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.

- **Edge Rounding by Rolling**
- **Shot Blast Cleaning System**
- **Wire Brush Cleaning System**

Text Reference Marking

Edge Treatment

“One of the biggest advantages of HGG is that they make beveled cuts on the profiles.”

Hans Peter Labee | Fitter at Hollandia
"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:**
- thicker walled material up to 300mm
- 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
- Exotic materials
- No pre-heating

**Features & Options**

**Cutting Techniques**

Reduction of scrap to a minimum!
This module ensures optimal, cost-efficient placement of parts in the available raw materials by reducing waste. Including many useful features for subdividing production processes, adhering to quality requirements and also providing worksheets for the machine operators enabling dimension checks and material checks.

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!

Import all cutting data directly from CAD model!
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!

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

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

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.

**Software Solutions**

Optimized Nesting

STEP Import

Seamless CAD Model Integration

New Cutting Shapes

3D Viewer

Intuitive User Interface

HGG 3D Profiling Specialists
**Facts & Figures**

<table>
<thead>
<tr>
<th>Statistic</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Tons of steel processed each month</td>
<td>1500</td>
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<tr>
<td>Employees worldwide</td>
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</tr>
<tr>
<td>Machines per year</td>
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</tbody>
</table>

> 530 Machines installed since 1984 3D profiling experience

Customers in over 60 countries

**About HGG**

Back in 1984 a steel construction company based in a small town about 50 km north of Amsterdam, the Netherlands used to cut pipes by hand. They were facing the same challenges our current customers face using manual cutting.

Facing all those challenges, the company decided to embrace an ambitious project; to develop the first pipe profiling machine. The goal was clear; to achieve fabrication freedom by automating their craftsmanship!

**What keeps us inspired**

We pioneered the field of 3D profiling more than 30 years ago and we continue to master it today while maintaining our initial focus; to continue our mission of automating craftsmanship while giving the world of steel the freedom to create!