



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



ROBORAIL

THE ALL-IN-ONE ROBOTIC PLASMA CUTTING MACHINE WITH A COMPACT FOOTPRINT

Many manufacturers think automation isn't for them because everything they do is different. But that's exactly why automation is essential! With the RoboRail, each unique part is cut and delivered 1-for-1, straight from your CAD files. Need complex cuts? Send it to the RoboRail. Require a diverse range of profiles? Send it to the RoboRail! This powerhouse will quickly become the backbone of your factory, freeing you up to focus on what your company does best. Embrace the future of manufacturing with our all-in-one plasma cutting machine: the RoboRail.

- ➔ MAXIMIZE YOUR SHOP EFFICIENCY
- ➔ INCLUDES LAYOUT MARKING OPTIONS
- ➔ COMPACT FOOTPRINT BUILD FOR HEAVY DUTY WORK



'PAID FOR THE MACHINE IN A SHORT AMOUNT OF TIME'



"YOU ARE GOING TO GET 3 TIMES MORE PRODUCT OUT IN THE SAME AMOUNT OF TIME USING A MACHINE LIKE THE ROBORAIL."



Stephen Chasse
Owner SL Chasse Steel

SPECIFICATIONS

	□	○	└┐	∧	÷	↔	⏏
➔ Metric (mm)	25x25 200x200	OD 25 OD 250	50x38 280x95	25x25 200x200	3 15	7.315/ 12.500	400 Kg/ 550 Kg
➔ Imperial (inch)	1"x1" 8"x8"	OD 1" OD 10"	C 3"x4.1" C 12"x30"	1"x1" 8"x8"	1/8" 9/16"	24-41 ft	882 lbs/ 1213 lbs



APC

THE ALL-IN ONE PROFILE CUTTING MACHINE

APC is HGG's revolutionary advancement in robotic plasma coping. While plasma coping has transitioned from a groundbreaking innovation to the industry standard in structural steel fabrication, APC redefines this standard with unmatched automation, precision, productivity, versatility, and user-friendliness.

Maximize your throughput with our patented system featuring a 360-degree rotating robot and versatile gripper. Operating seamlessly together, they provide an unlimited robotic workspace and enable dynamic, precise cutting.

- ➔ PATENTED 360-DEGREE ROBOTIC ROTATION FOR COMPLETE FREEDOM
- ➔ NEXT GENERATION MATERIAL GRIPPER
- ➔ HANDLE ALL COMMONLY USED STRUCTURAL STEEL PROFILES, PIPES AND SIZES WITHOUT COMPROMISES



THIS IS NOT EVOLUTION - IT IS A REVOLUTION.



“THE APC SYSTEM REPLACES
OUR DRILL-SAW LINE,
ALLOWING US TO INTERNAL-
IZE CRITICAL PRODUCTION
PROCESSES THAT WERE
PREVIOUSLY OUTSOURCED.”



Jan Wiebe van den Berg
Staalbouw van den Berg

SPECIFICATIONS

			H	□	□	○	△	△	—
➔ Metric (mm)	min		100x96	80x45	80x80/80x40	OD 88,9	75x75	75x50	75x10
	max		814x303	457x115	400x400/600x400	OD 610	305x305	300x100	600x40
➔ Imperial (inch)	min		W4"x13"	C3"x4,1"	3"x3" / 3"x1 1/2"	OD 3 1/2"	3"x3"	3"x2"	3"x3/8"
	max		W30"x235"	MC18"x58"	16"x16" / 24"x16"	OD 24"	12"x12"	12"x4"	24"x1 1/2"

Based on European (EN 10034 / EN 10279 / EN 10305-5 / EN 10056-2 / EN 10058) & USA (ASTM A 6/A 6M - 12 / ASTM A500) standards. Profile types and sizes can be cut based on geometric constraints of the machine. Comparable sizes of other standards are supported



RPC 1200 MK3

HEAVY-DUTY COPING ROBOT FOR LARGE-SIZE BEAMS

Meet the RPC 1200 Mk3, the widest-range beam coping robot on the market. Designed for heavy-duty applications, this machine is the most accurate and versatile beam cutting solution available. Built on HGG's extensive experience in 3D profiling, it enables high-speed plasma cutting of ready-to-fit parts, prepared for any required welded or bolted connection. By replacing multiple fabrication processes into one integrated solution, the RPC 1200 Mk3 delivers the capabilities of a complete fabrication shop in a single machine.

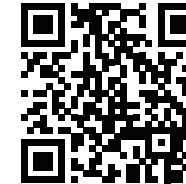
- ➔ HEAVY DUTY LARGE SIZE BEAM
COPING ROBOT
- ➔ 3D LASER MEASUREMENT FOR
COMPENSATING MATERIAL DEVIATIONS
- ➔ SAVE 20% IN FIT-UP WITH PLASMA
LAYOUT AND TEXT MARKING

Take a tour with Matthew Wareing through the RPC 1200 and discover the inner workings of the machine, the unique features that make the RPC stand out in the market, and how these machines ensure your production runs smoothly.

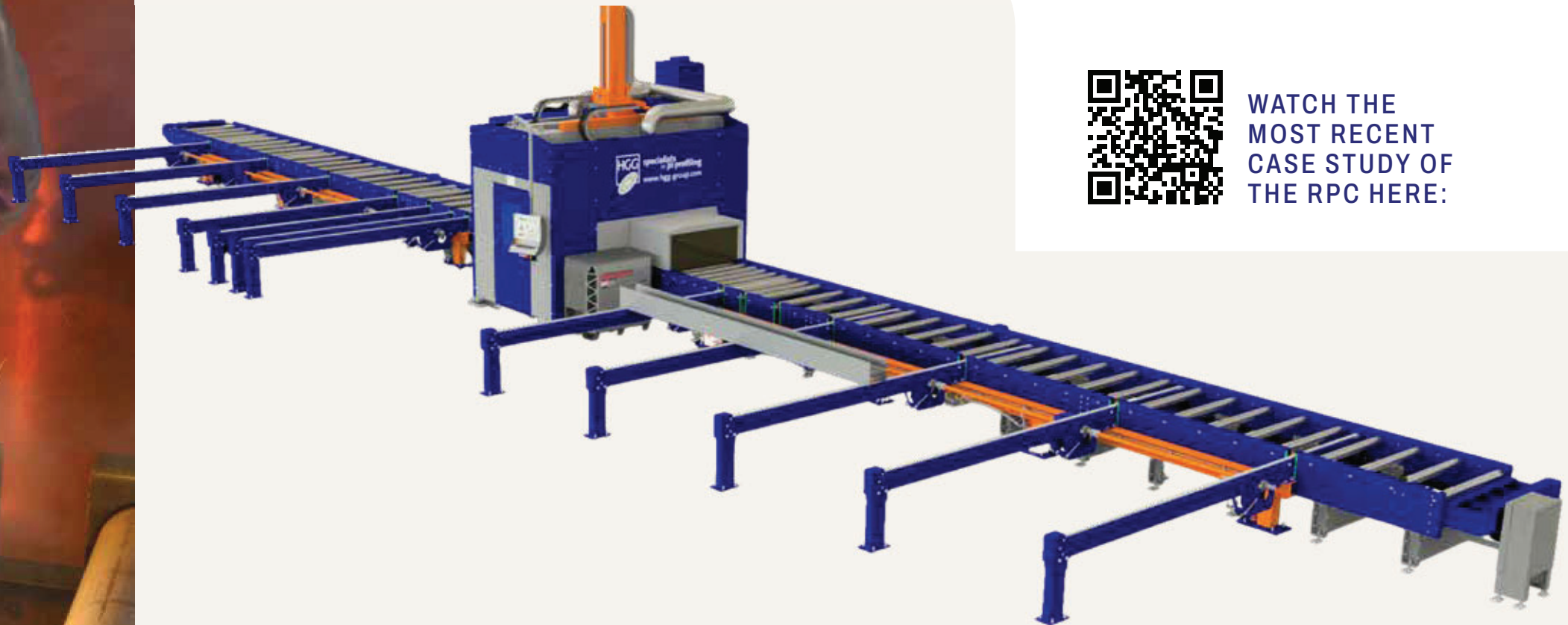


TAKE
THE
TOUR
HERE.





WATCH THE
MOST RECENT
CASE STUDY OF
THE RPC HERE:



SPECIFICATIONS

	⌌	□	└┐	∧	∧	∧	∧	—	⊕	⏏
➞ Metric (mm)	100×50 — 1220×430	100×100 — 600×400	100×50 — 475×150	100×50 — 200×100	75×75 — 300×300	100×50 — 140×140	100×6 — 430×20	100×15 — 400×40	5 — 50	12 t
➞ Imperial (inch)	4"×2" — 48"×17"	4"×4" — 23"×16"	4"×2" — 18½"×6"	4"×2" — 8"×4"	3"×3" — 12"×12"	4"×2" — 5½"×5½"	4"×3/16" — 17"×7/8"	4"×9/16" — 6"×15/8"	3/16" — 2"	26455 lbs



HGG CORPORATE BROCHURE | HGG-GROUP.COM

FABRICATE FASTER

**‘WE TRIPLD OUR
REVENUE WITHIN
THE FIRST 3 MONTHS’**

HGG specialists
in 3D profiling
www.hgg-group.com

BUILD MORE

HGG uses cutting routines that make you fabricate faster by reducing the amount of ignitions and creating a new part with every single cut. Using our High Speed Plasma Technology, ready-to-fit parts come off the machine, prepared for the desired connection; both bolted and welded.

“WE’VE OFTEN BEEN GIVEN ITEMS TO CUT THAT HAVEN’T BEEN ABLE TO BE CUT BEFORE AND THE CUSTOMERS WERE IMPRESSED THAT WE ARE NOW ABLE TO DO THIS WITH OUR COPING ROBOT.”



Dick Thornton
Southern Queensland Steel
State Manager



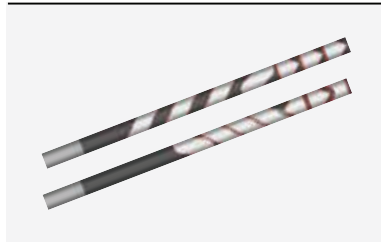
**‘AT HGG, EVERYTHING
IS CONSIDERED
POSSIBLE. THERE ARE
ALWAYS CHALLENGING
PROJECTS TO WORK ON.
I LIKE THAT!’**

Klaas Slagter | R&D Engineer at HGG



SOFTWARE SOLUTIONS

OPTIMIZED NESTING



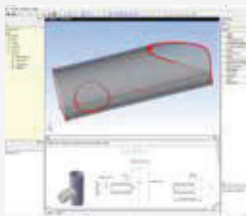
Reduce scrap to a minimum!
Ensure optimal, cost-efficient placement of parts in the available raw materials by reducing waste. Including many useful features for subdividing production processes.

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'

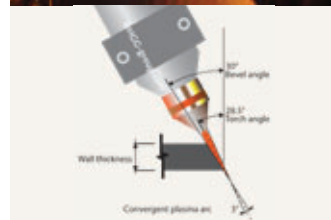


OXY-FUEL CUTTING

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.



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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