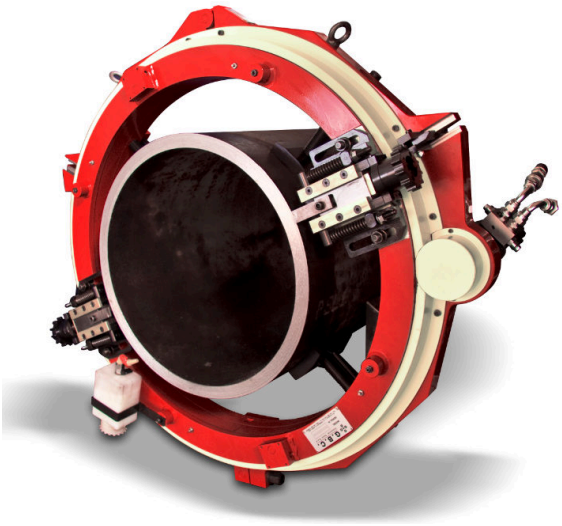
GBC INDUSTRIAL TOOLS

PIPE TOOLS

Cutting, weld preparation and fit-up equipment for workshop and on-site pipework.



Supercutter heavy-duty split-frame cutter

FIND THE RIGHT EQUIPMENT

SECTION	APPLICATION	PAGE
Cross-hire	Short-term access to selected GBC equipment	02
Pipe bevellers	Compact tools through to heavy-wall pipe prep	03–04
Pipe cutters	Split frames, orbital saws and flame cutting	05–06
Plate & flange preparation	Plate bevellers, flange facers and stationary machines	07–08
Grinding	Back gouging and tungsten sharpening	09–10
Fit-up equipment	Stands, clamps, marking tools and flange alignment	11–14
Purging & tube work	Purge systems, oxygen monitors and heat-exchanger tools	15–16
Custom machinery	Engineering options for non-standard applications	17

ID = inside diameter. OD = outside diameter. Use the linked technical sheets to confirm the machine, tooling and workpiece dimensions.

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GBC CROSS-HIRE

Hire for the Job in Hand

A substantial part of GBC's machining range is available for cross-hire. Use it to cover a shutdown, a one-off diameter or a job that needs a different drive or tool setup.



MCA · split-frame cold cutting



Mini K · restricted-access end prep



Compact Edge · plate bevels

JOB	GBC HIRE OPTIONS
Pipe end preparation	Mini K, Boiler K, Boiler 1-4 K, Superboiler T5 and Supermaxi 4–16 / 7–24
Cold cutting	MCA split frames, PIPE 4 / 6 / 8 orbital saws and GBC 2700 reciprocating saw
Plate weld preparation	Challenge, Compact Edge, Basic Edge 50, MultiEdge 80 and HandyBevel
Flange, fit-up and tube work	Superboiler T5 flange facer, chain clamps and tube-expander rolling motors

What to include in a hire enquiry

Send the actual pipe OD and ID or plate thickness, wall and material grade, required cut or bevel, access clearance, available power, site postcode and dates. Include drawings or photos if access is restricted.

Request a cross-hire quote. Call 023 8033 9443 or email hire@rhdaveywelding.co.uk. Availability, tooling and delivery are confirmed for each job.

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PIPE BEVELLING / COMPACT ID & OD TOOLS

Compact Pipe Bevellers

For tube-end prep in boiler banks, workshops and restricted plant areas. Choose internal or external mounting to suit the available gripping surface.



Mini K · internal locking



Mini K OD · external locking



Boiler 1-4 K · 23–108mm ID

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Mini K	20–42mm ID; optional from 12.5mm	Slim ID-locking head for restricted access. Air, electric or 18 V.	Sheet
Mini K Lever	20–42mm ID; optional from 12.5mm	Lever feed for repeat operations. Air, electric or cordless.	Sheet
Mini K OD	0.39–2.37″ OD	External mounting for tube chamfering and facing. Air or electric.	Sheet
Mini C40	20–39mm ID; optional from 12.5mm	Narrow-body machine for chamfering, facing and counterboring. Air or electric.	Sheet
Mini Auto	20–42mm ID; optional from 12.5mm	Pneumatic automatic tube-end preparation for repeat work.	Sheet
Boiler K	28–76mm ID; optional from 20 mm	Portable boiler-tube prep. Air, electric or 18 V.	Sheet
Boiler 1-4 K	23–108mm ID; optional from 20mm	Wider ID range. Optional compact chuck and elbow tooling. Air, electric or 18 V.	Sheet
Boiler 1-4 Auto	23–108mm ID; optional from 20mm	Automatic tube-end prep. Pneumatic or electric.	Sheet
TC73 / TC40	TC73: 10–73mm OD; TC40: 10–48.3mm OD	External locking for bevels, facing and counterbores. Air or electric.	Sheet +

Optional reduced shafts, elbow kits and compact chucks change the working envelope. Confirm the actual bore, available straight length and cutting tool geometry.

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PIPE BEVELLING / HEAVY WALL & LARGE BORE

Heavy-Duty Pipe Bevellers

For large-diameter pipe, heavy wall and wider prep geometries. Confirm the standard locking range and any extension needed before specifying the machine.



Superboiler T5 · 49–203mm ID



Supermaxi 7–24



Hypermaxi 20–40

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Superboiler T5	49–203mm ID	Bevel, face or counterbore. Air or electric. Optional elbow and flange tooling.	Sheet
Supermaxi 4–16	94.5–318.5mm standard; up to 418mm with extension	Heavy-wall end preparation. Air, electric or hydraulic.	Sheet
Supermaxi 7–24	180–504mm standard; up to 590mm with extension	Larger-bore bevels and counterbores. Air, electric or hydraulic.	Sheet
Hypermaxi 20–40	504–937mm published metric working range	Heavy-duty internal mounting. Pneumatic or hydraulic.	Sheet
Band Beveller	6″ OD and above	Band-mounted bevels where clearance is restricted. Manual or optional motor drive.	Sheet

Specify the prep and drive together

Give the actual pipe ID and OD, wall, alloy and bevel profile. For hydraulic equipment, confirm the compatible power pack. Air and electric options vary by model.

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PIPE CUTTING / COLD MACHINING

Split-Frame & Specialist Cutters

Split frames can close around an installed line. Match the frame to measured OD, then check wall thickness, tooling stroke and clearance for the selected drive.



MCA split frame



TAF120 chain-guided cutter



GBC TI · API casing

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
MCA	Ten frames; see the locking table below	Lightweight split-frame cold cutting and bevel prep. Air, electric or hydraulic.	Sheet
FAST 6–36	6–36″ nominal pipe sizes	Self-centring clamshell for in-line work. Air, electric or hydraulic.	Sheet
Supercutter	6–60″; 168–1,530mm in the UK listing	Heavy-duty cutting and prep. Pneumatic or hydraulic.	Sheet
Hypercutter	60–96″ nominal; larger on request	Hydraulic split-frame for large pipe and vessels. GBC lists wall thickness up to 60mm.	Sheet
TAF120	406.4–3,048mm OD	Chain-guided cold cutting for large pipe.	Sheet
GBC TI	7–13⅜″ API casing	Hydraulic machine for internally mounted casing cut and bevel work.	Sheet

MCA split-frame locking ranges

FRAME	OD (mm)	MASS (kg)	FRAME	OD (mm)	MASS (kg)
MCA1	33.4–108	18	MCA14	338–510	69
MCA2	50–165	22	MCA18	443–615	74
MCA3	67–220	26	MCA24	596–768	79
MCA6	152–325	44	MCA30	757–937	94
MCA10	254–410	57	MCA36	895–1,095	180

MCA locking ranges and machine masses are from the GBC technical sheet. Match the actual OD and access to the frame, tooling and drive.

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PIPE CUTTING / PORTABLE MACHINES

Orbital Saws & Flame Cutters

Use an orbital or reciprocating saw for cold cutting. For a flame-cutting job, select the track or chain arrangement for the shape and thickness.



PIPE orbital saw family



GBC 2700 reciprocating saw



GB Magcut · magnetic travel

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
PIPE 4 / PIPE 8	PIPE 4: 13–120mm OD; PIPE 8: 80–230mm OD	Orbital cold cutting and bevelling with the correct cutters.	Sheet
PIPE 6	23–170mm OD	Electric orbital saw. Use the matching cutter for the bevel angle.	Sheet
GBC 2700	1–20″ OD with suitable clamp	Reciprocating saw for in-situ cutting. Pneumatic or electric.	Sheet
GB CUT F3	114–600mm OD; 5–50mm wall	Manual chain-guided flame cutting and bevel preparation.	Sheet +
GB CUT F4	4–48″ OD; up to 50mm wall	Manual flame cutter with double-link chain and three wheel positions.	Sheet
GB CUT Straight Line	5–50mm thickness; 0–45°	110 or 220 V drive; 150–800mm/min traverse.	Sheet
GB Magcut	6–50mm cutting thickness; 0–45°	Magnetic flame cutter for parallel, vertical and downhill travel. 110 or 220 V drive.	Sheet

The orbital saw ranges are actual published OD figures. Select the correct clamps and cutting or bevelling blade for the size and material.

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PLATE PREPARATION / STRAIGHT & SHAPED EDGES

Plate Bevellers

Choose a hand-guided tool for smaller components and profiles, or a travelling machine for repeat weld preparations on plate.



HandyBevel · shaped plates



Compact Edge Reverse · underside



MultiEdge 80 · clad removal

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
HandyBevel	2mm minimum plate; 22.5–60° heads	8.8 kg hand-guided machine for thin plate, profiles and curves.	Sheet
GBC22 Zero	0–60° continuously adjustable	19.5 kg straight-edge bevelling and facing tool. Carbide insert milling head.	Sheet
Challenge 12 / 15	6–40mm / 8–50mm plate	Self-travelling plate preparation. Challenge 15 has a variable-angle head.	Sheet
Basic Edge 50	¼–2⅜″ plate; 10–70°	Electric 400 V three-phase edge milling.	Sheet
Compact Edge	¼–2⅜″ plate; 15–60°	400 V three-phase edge milling for steels and other listed alloys.	Sheet +
Compact Edge Reverse	6–60mm plate	Prepares the underside for a double bevel without turning the plate.	Sheet
Edge 80 / Edge 80 Reverse	6–120mm plate; 10–70°	High-capacity milling. Edge 80 lists an 80mm maximum diagonal bevel.	Sheet
MultiEdge 80	6–120mm plate	Adjustable milling head for clad removal, facing and bevel preparation.	Sheet

Select by plate thickness, material, bevel angle and required face width. Confirm the cutter or insert and whether the lower edge must be prepared without turning the plate.

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IN-SITU FACING / PRODUCTION PIPE PREP

Flange Facing & Stationary Machines

Specify the facing diameter and finish for flange work. For production pipe preparation, match the stationary machine's locking range and automation to the workload.



T5 · flange-facing configuration



Spider 12–70 · facing and grooving



SB600 · stationary production

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Superboiler T5 Flange Facer	65–400mm flange diameter	Pneumatic or electric. Stock, smooth and gramophone finish options.	Sheet
Spider 12–70	304–1,778mm OD range	Internally mounted flange facing and seal-groove machining.	Sheet
SB320	33–320mm OD (published metric range)	Automatic stationary preparation with self-centring jaws and controlled tightening.	Product
SB500	100–508mm OD	Semi-automatic station with adjustable head feed, chuck speed and coolant.	Sheet
SB600	254–609.6mm OD	Automatic production machine for internal and external chamfering, facing and tapering.	Sheet

Specify the flange finish before machining

Provide the flange face and mounting dimensions, gasket or seal-groove detail, required surface finish and available radial clearance.

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GRINDING / PRESSURE VESSELS & PLATE

Back Gouging & Grinders

GBC's guided grinders cover flat plate and larger vessel work. Select the machine and mounting to suit the seam path and workpiece geometry.



G300 · Ø 300mm disc



G400 · Ø 400mm disc



G800 · Ø 800mm disc

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
G300	Ø 300mm grinding disc	Guided grinder for flat plate back gouging. Optional vacuum fan.	Sheet
G400	Ø 400mm grinding disc	For vessel shells and dish ends. Pneumatic head feed and adjustable head orientation.	Sheet
G800	Ø 800mm grinding disc	Remote controls and camera display. Trolley or manipulator mounting.	Sheet

Set up for the seam

Specify plate or vessel geometry, grind path, access and extraction arrangement. G800 configurations include trolley or manipulator mounting and an optional taping kit.

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TIG / ELECTRODE PREPARATION

Tungsten Electrode Grinders

Select a grinder for the electrode diameter, point angle and shortest electrode you need to hold. Handheld, bench-mounted and wet-grinding options are available.



Handy · portable, filtered



Pro · automatic feed



Ultimate · wet grinding

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
MasterPoint Handy	Up to Ø 4mm; 15–180°	850 W portable grinder with replaceable dust filter. 110 or 220 V.	Sheet
MasterPoint TS-Plus	Ø 1.6–4.0mm in spec table; 15/18/22.5/30°	500 W dry handheld machine for grinding, cutting and facing. Bench option.	Sheet
MasterPoint TEG1	Ø 1.6–5.0mm; 0–60°	220 V, 60 W; Ø 90mm disc; 60mm minimum electrode length.	Sheet
MasterPoint Pro	Ø 1.0–4.0mm across six sizes; 15–180°	Bench-mounted sharpener with automatic drive and feed.	Sheet
MasterPoint Ultimate	380 W; 8,500 rpm	Wet diamond grinding with replaceable dust collection container. 110 or 220 V.	Sheet

Match replacement discs, holders and filters to the grinder model. For TS-Plus, the diameter range shown follows GBC's specification table.

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WORKSHOP AND SITE / PIPE SUPPORT

Pipe Stands & Handling

Select the head, stand and working height for the load at each support. Use roller heads for rotation and a dedicated handling aid for transport.



PJ3 · fixed or folding



PJ4 · adjustable roller heads



Mega · heavy-wall handling

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
PJ1	Four heights from 7–28″	Low-level support with vee head. Can accept compatible PJ3 roller heads.	Sheet
PJ3	27–48″; 1,000 kg	Three-leg stand with a choice of base and head. Fixed or folding versions.	Sheet
PJ3 High	38–72″; 450 kg at full height	Folding high stand for elevated work. Check capacity at the required height.	Sheet
PJ4 Multi Stand	Up to 48″ pipe; 2,000 kg	Height-adjustable stand with independent wheel adjustment and bolt-on head.	Sheet
PJQ Quattro	2,500 kg per stand	Heavy-duty vee stand with levelling pads. Optional castors and head styles.	Sheet
RPS4	Up to 48″ pipe; 2,000 kg	Floor or bench roller stand. Also fits the PJ4 base.	Sheet
RPS6	4–48″ pipe; up to 2,200 kg	Floor or bench roller stand. Load rating depends on the head selected.	Sheet
Mega Pipe Stands	Up to 48″ pipe; 1,814 or 3,175 kg	High and low profiles with polyurethane wheels and fine height adjustment.	Sheet
Pipe Buggy	Up to 12″ OD, 6.1 m long and 450 kg	Wheeled handling aid with ratchet strap and removable handle.	Sheet

Load figures depend on the exact stand, head, height and options. Confirm the rating for the selected configuration and how the load is distributed.

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FIT-UP / ALIGNMENT & REFORMING

Pipe Clamps

Use bridge or cage clamps for routine alignment. Select a chain or rim system where pipe shape or reforming force is part of the job.



Gold Bridge · forged steel



Chain clamp · multi-size fit-up



Rim clamp · heavy reforming

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Gold Bridge	1–14″ OD range	Forged-steel alignment clamp. Optional stainless contact covers.	Sheet
Black Bridge	1–12″ OD range	Alignment for pipe and fittings. Stainless feet and wing-bolt bearings.	Sheet
Single / Double Chain	Size to pipe OD and wall schedule	Single chain aligns. Double chain also reforms up to Schedule 40 as specified by GBC.	Sheet
Cage / Tipton	Single pipe size per clamp	Manual, ratchet or hydraulic. Tack and no-tack designs available.	Sheet
Rim Clamps	4–72″ and above by enquiry	Heavy reforming with flip-up jackbars. Specify pipe grade and ovality.	Sheet
Pincer / Mini / FTP / FTE	Match clamp to pipe, fitting and flange	External and internal locking designs for alignment and fitting work.	Sheet

Match contact points and clamp capacity

Provide pipe OD, wall schedule, material, ovality and the weld access needed. For stainless and alloy pipework, specify the suitable contact components.

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PIPE FITTERS' TOOLS / LAYOUT

Pipe Layout & Marking

Mark cut lines, saddles, branch openings and centre lines before fit-up. Magnetic tools need a suitable contact surface.



Miter Marker · pipe and beams



Multi Hole Imager · branch openings



Digital centring head · ±0.2°

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Wrap-A-Rounds	1–48″ size range	Pipe marking and measuring wraps for straight reference lines.	Sheet
Radius Markers	Three sizes; 11–100″ published range	Circle layout with folding small and medium models.	Sheet
Miter Marker	1½–18″ pipe; up to 18″ beams	Telescoping marker for angle layout over existing welds.	Sheet
Master Marker	8–48″ pipe; up to 48″ beams	Layout angles, saddles and structural beam marks.	Sheet
Multi Hole Imager	¾–20″ holes on plate; ¾–18″ saddles on pipe at 90°	Round and elliptical hole layout for laterals.	Sheet
Mag Centring Heads	2.5° scale increments; 360° dial	Find and mark positions around cylindrical stock.	Sheet
Digital Magnetic Centring Head	Models for 3″+ or 12″+ pipe; ±0.2°	Hands-free location and marking of centre lines and angles.	Sheet
Universal Magnetic Tape Holder	89754; 25 lb magnet	Holds the tape end on pipe or steelwork for layout.	Sheet
GBC Mag Levels	ML500 series; 400–2,000mm	Three-vial magnetic levels in seven lengths.	Sheet
Pocket Degree Level	L-2; 2.5° dial increments	Compact magnetic level for angles and slope.	Range
Standard Pocket Level	SL-100	Three-position magnetic level with replaceable vials.	Sheet
Pocket Pro Level	PP-200	Two fixed vials at 90°. Flange pins are separate.	Sheet

See the product sheets for additional marker sizes, attachment options and replacement parts.

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PIPE FITTERS' TOOLS / ALIGNMENT

Flange Fit-Up & Workshop Tools

Use flange pins, aligners and squares to set bolt holes and faces. Match the tool to the hole diameter, pitch and component access.



Magnetic and threaded flange pins



Magnetic flange aligner



Rotary Earth Clamp · up to 400 A

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Flange Pins	Magnetic and threaded versions	Align bolt holes during fit-up. Match the pin to the hole size.	Sheet
Flange Aligners	Size to bolt-hole diameter and pitch	Level the flange face and paired bolt holes.	Sheet
Magnetic Flange Aligners	½–2″ holes; up to 9½″ centre spacing	Magnetic alignment with interchangeable centring cones.	Sheet
Flange Squares	300–800mm	Hardened-steel squares for checking flanges against pipe.	Sheet
Manipulator Tool	4,950 lbf rated piston force	Flange alignment and spreading for fit-up or gasket work.	Sheet
PJ3 Chain Vice Stand	1–6″ chain vice; 900mm working height	Folding stand with tool tray for threading, cutting and deburring.	Sheet
Rotary Earth Clamp	Up to 400 A	Rotary return connection for circumferential welding.	Sheet

Choose the pin length and engagement for the flange thickness. Use the matching centring cones or threaded pins for the flange and material.

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WELD ROOT PROTECTION / PURGE MONITORING

Pipe Purging & Monitors

Isolate the weld zone, then use an oxygen monitor to check the atmosphere against the acceptance limit in the welding procedure.



MasterPurge 100X · IP65



Twin bag · local purge zone



Double Seal · elbows and bends

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
MasterPurge 100	0.01–20.9% displayed O_2 range	Handheld entry model. Check measurement accuracy against the job's acceptance criteria.	Sheet
MasterPurge 100X	Down to 0.01% O_2 (100 ppm); IP65	Handheld analyser with 0.01% resolution and TIG HF protection.	Sheet
Silicone Double Seal	¾–12″ nominal size range	Reusable seals for local purging, including elbows and bends.	Sheet
Twin / Speedy Purge Bags	2–48″; standard 250°C, Speedy 300°C	Twin bags isolate the weld zone. Match the bag to the bore and temperature.	Sheet +
Inflatable Pipe Stoppers	2–80″ nominal size range	Select the stopper shape and rating for the opening and service conditions.	Sheet
Expanding Pipe Stoppers	½–72″ across materials and styles	Nylon, aluminium and steel versions for temporary sealing and specified tests.	Sheet
Water-soluble Purge Products	EZ Purge, LiquiFilm, Aquasol and SoluGap	Paper, film, preformed dams and spacers where removal after welding is difficult.	Sheet
Purging & Backing Tape	EZ Zone, EZ Tape and Fiback	Choose gas-retention tape or weld backing tape for the joint and process.	Sheet

Select purge seals by actual bore, access and process temperature. For stoppers used in testing, confirm the rating, restraint and procedure for that service.

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BOILERS, CONDENSERS & HEAT EXCHANGERS

Heat Exchanger Tooling

Prepare tube ends, expand tube-to-tube-sheet joints and check for leaks using tooling sized for the tube, wall and tube-sheet.



Tube expanders · tube-sheet fit-up



Rolling motors · clutch control



TP0631 · pneumatic leak testing

MODEL / FAMILY	WORKING RANGE / SPEC	APPLICATION / CONFIGURATION	TECH.
Mini Auto	20–42mm ID; optional from 12.5mm	Automatic tube-end preparation and facing.	Sheet
Tube Expanders	Specify tube OD, wall and tube-sheet thickness	Select the expander for the tube-to-tube-sheet joint and required reach.	Sheet
Rolling Motors	Adjustable clutch setting	Drives compatible tube expanders. Match drive, range and torque requirement.	Sheet
Tube Testing & Plugs	TP0631 test gun: 7.2–32.5mm tube ID	Pneumatic leak testing; GBC specifies 2.7–8.5 bar air or gas supply.	Sheet

Specify the tube and tube-sheet

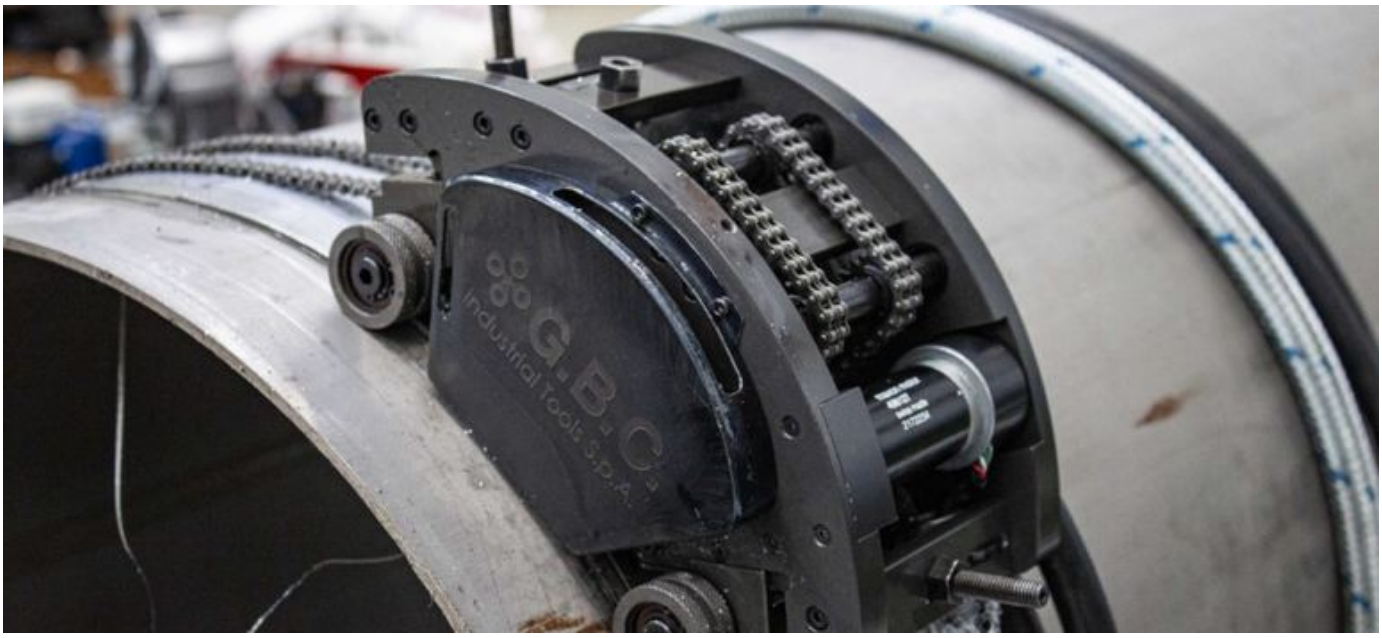
Provide tube OD, ID, material and wall, sheet thickness, reach and the required expansion or test procedure. Ask about cross-hire for rolling motors.

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CUSTOM ENGINEERING

Equipment for Non-Standard Jobs

Where standard tooling cannot reach or the operation requires a dedicated setup, GBC can develop a project-specific machine and tooling package.



Chain-guided cutting setup for large-diameter pipe

PROJECT STAGE	WHAT TO ESTABLISH
Define the operation	Send the pipe or plate geometry, material, clearance, finish and acceptance requirements.
Develop the equipment	Review the mounting, tooling, drive and site interfaces. Prototype or trial the setup where required.
Prepare for service	Agree testing, documentation, installation and acceptance requirements for the project.

Discuss the application

Provide a drawing or photos, measured workpiece dimensions, available site power and target dates. Email sales@rhdaveywelding.co.uk or call 023 8033 9443.

GBC custom engineering case study

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