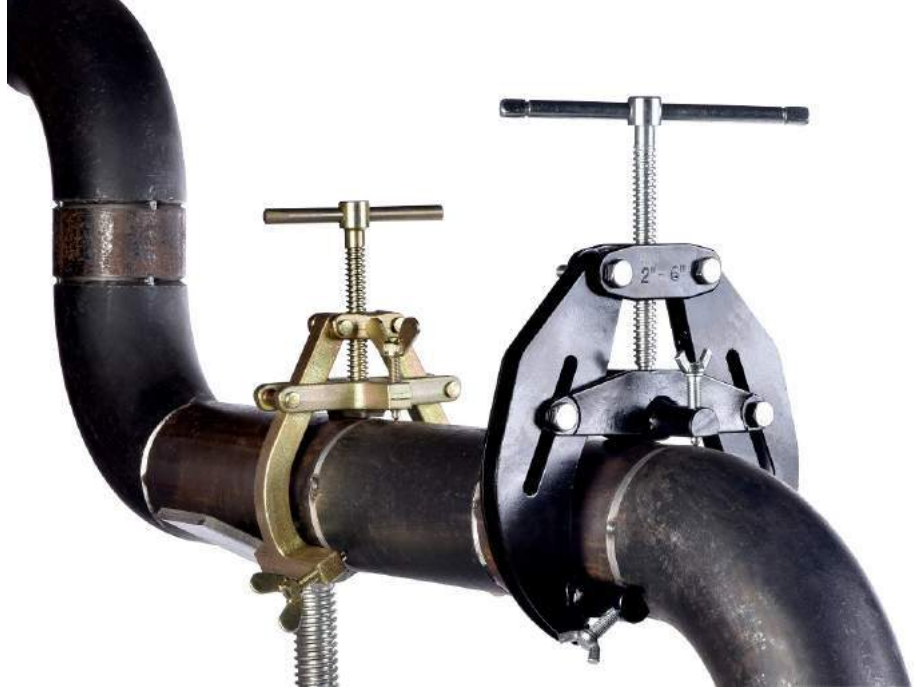


GBC UK

PIPE CLAMPS
PIPE STANDS
PIPE PURGING
PIPE TOOLS



Pipe Beveling Machines
Pipe Cutting Machines
Grinding Machines
Pipe Stands and Clamps
Pipe Purging
Plate Bevellers
Heat Exchanger, Boiler & Bundle





GBC INDUSTRIAL TOOLS LTD ARE THE 'PIPE EQUIPMENT SPECIALISTS' FOR THE SUPPLY OF PIPEWORK EQUIPMENT AND TOOLS.

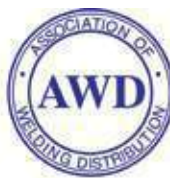
Over the past 30 years our parent company GBC Industrial Tools Spa, has established itself as one of the world's leading manufacturers of portable pipework machinery, due to its consistent high level of quality, both in product and service. We are pleased to be part of that team.

GBC has established an extensive distribution network to industries across the world. These industries include:

- Petrochemical
- Offshore
- Power Generation
- Heat Exchange Manufacture/ Repair
- Boiler Industry
- Ship Building and Repair
- Nuclear
- General Fabrication
- Site Services



GBC Industrial Tools offer a comprehensive range of on-site machining services, please check with our office for your specific requirements.



Registered address: 7 Drakes Drive, Crendon Business Park
Long Crendon, HP18 9FE

Registered in England & Wales. Registration no. 08966210
VAT no. 190019919

Pedigree
35+ years experience

Quality
ISO 9001 since 1996

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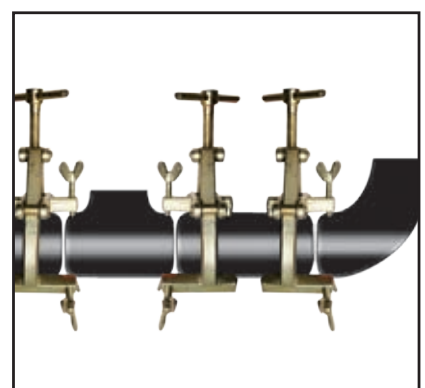
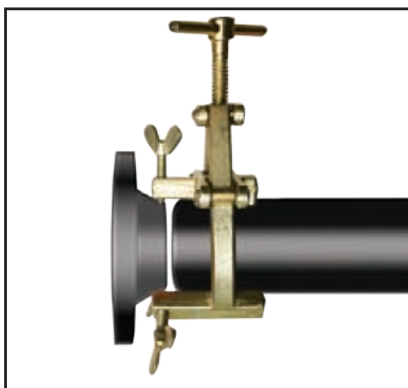
GOLD BRIDGE CLAMPS

Pipe welding clamp 1-14" o/d

- Quick and easy to use
- Combines accuracy with safety
- Instant centering
- A quality product at low cost
- Forged steel construction for maximum strength
- Wing bolts with stainless steel bearings

OPTIONAL ACCESSORIES

Stainless Steel Shoes can be fitted quickly to the clamps. This makes the contact points of the clamp stainless, thus eliminating contamination of the pipe.



STAINLESS STEEL SHOES & SCREWS

PART No.	PIPE DIAMETER IMPERIAL	PIPE DIAMETER METRIC	WEIGHT KG / LBS
GBC3	1"-3"	20-90 mm	1.4 / 3
GBC5	2"-5"	50-150 mm	3 / 7
GBC7	4"-7"	90-190 mm	3.3 / 7.5
GBC9	5"-9"	125-225 mm	7 / 15.5
GBC14	10"-14"	225-370 mm	9 / 20

PART No.	PIPE CLAMP SIZE
GBC3SSK	1"-3"
GBC5SSK	2"-5"
GBC7SSK	4"-7"
GBC9SSK	5"-9"
GBC14SSK	10"-14"

BLACK BRIDGE CLAMPS

Pipe alignment clamps 1" - 12"

- Quick and easy to use
- Combines accuracy with safety
- Instant centering
- A quality product at low cost
- Stainless steel clamping feet & wing bolt bearings



Black Bridge Clamps can be used for the welding of all kinds of materials such as carbon steel, stainless steel, duplex, super duplex and titanium

Due to its design, the Black Bridge Clamp ensures that the clamping forces are evenly spread round the pipe to be welded because the distance between clamping points are exactly the same. This is true for all pipe dimensions within the range of the BB Clamp (1" to 12")

The adjusting screws have stainless steel bearings, thus reducing the risk of carbon contamination and corrosion.

The arms are fabricated from steel which allows a clamping force to meet the requirements for all pipe dimensions within the range of the BB Clamp.

The welding of pipe to pipe and pipe to fittings is easily performed with BB Clamp.

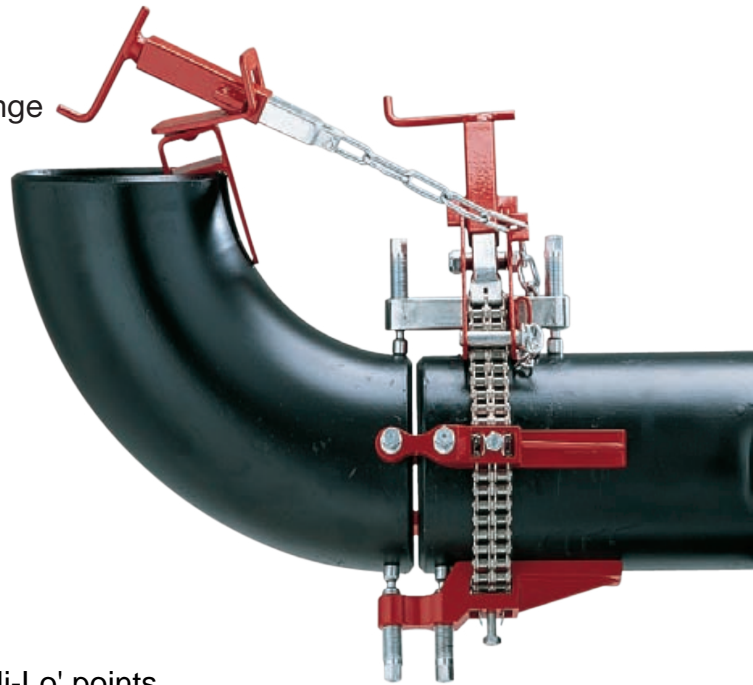
PART No.	PIPE DIAMETER IMPERIAL	PIPE DIAMETER METRIC	WEIGHT KG / LBS
BBC2	1 - 2"	25 - 65	1.5 / 3.50
BBC6	2 - 6"	50 - 168	3.75 / 8.0
BBC12	5 - 12"	127 - 325	7.50 / 15.00

GBC CHAIN CLAMPS

Double Jackscrew clamps for aligning & reforming pipes

All clamps include:

- Length of chain required for the pipe range
- Double jackscrew jackbars listed for the pipe range
- Main block
- Fine adjustment
- Fitting alignment device
- Jackscrew wrench
- Parts and operating manual
- Metal Storage box
- Hi-Lo gauge



Features and advantages:

Alignment - can align all pipe schedules accurately

Reforming - jackscrews enable the elimination of 'Hi-Lo' points either side of the weld joint. Can reform up to schedule 40 pipes.

Adaptable - one chain clamp covers the range of 8 cage clamps.

No Tack Jackbars - joints can be fully welded without removing the clamp.

Versatile - elbows, tees and other fittings can be accurately aligned using the Fitting Alignment Device.

Quality - jackbars are cast from high quality steel alloys.

Additional jackbars can be added if extra pressure is required.

Jackscrews - Jackbars have two jackscrews with independently pivoting pads to compensate for uneven surfaces.

Stainless Steel - available in both carbon and stainless steel versions

PART No.	PIPE DIAMETER RANGE "/>	NO. OF JACKBARS	REFORMS PIPE TO SCHEDULE	ALIGNS PIPE TO SCHEDULE	SHIPPING WT KGS
SCC12	1-8	4	40	80	12
SCC12SS	1-8	4	40	80	12
SCC20	4-20	7	40	80	33
SCC20SS	4-20	7	40	80	33
SCC36	10-36	8	40	80	67
SCC36SS	10-36	8	40	80	67
SCC54	10-54	13	40	80	82
SCC54SS	10-54	13	40	80	82

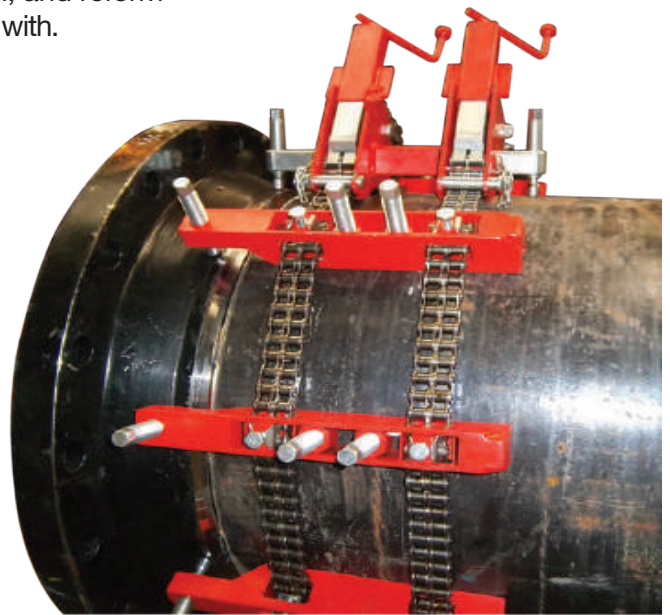
GBC Chain Clamps must not be used as a lifting device. Fittings must be independently supported at all times.

DOUBLE CHAIN CLAMPS

Ultra heavy duty double chain reforming alignment clamp

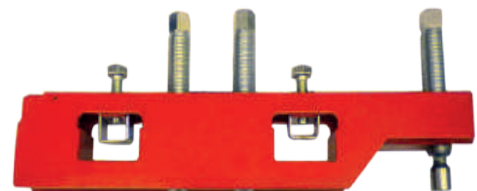
Features and advantages:

- **Precision Alignment** – The double jackbars, spaced around the outside diameter of the pipe, provide accurate alignment and reforming of the internal or external diameters of both pipes within 0.5mm.
- **Extremely Tough** – Reforms pipes on both sides of the weld joint to Sch80, and aligns all wall schedules, elbows, tees and other fittings.
- **Adaptable** – The Chain Clamp can be used to support, align, and reform elbow, tees and other fittings that a cage clamp cannot cope with. One Chain Clamp covers the range of eight (8) cage clamps
- **Extra Heavy Duty Independent Jackbars** – Enable the operator to form the pipe to the required shape. Each Jackscrew has independently pivoting feet to cope with uneven surfaces.
- **Versatile** – Elbows, tees and other fittings can be aligned with the Fitting Alignment Device



Double Chain Clamp includes:

- Length of chain required for the pipe range
- Extra heavy-duty jackbars listed for the pipe range
- Number of Main blocks listed for the pipe range
- Two (2) fine adjustments
- Level and support device (larger clamps supplied with come-a-long)
- Jackscrew wrench
- Operating instructions
- 'Hi-Lo' Gauge



Heavy duty jackbars for arduous aligning and reforming jobs

Optional:

- Torque wrench
- Carbon or stainless steel spacing screws (optional)
- Additional jackbar

PART No.	PIPE DIAMETER RANGE "/MM	NO. OF JACKBARS	NUMBER OF MAIN BLOCKS	SHIPPING WEIGHT KG / LBS
DCC36	10-36 / 254-914	9	1	100 / 220
DCC36SS	10-36 / 254-914	9	1	100 / 220
DCC48	10-48 / 254-1219	12	1	126 / 278
DCC48SS	10-48 / 254-1219	12	1	126 / 278
DCC54	10-54 / 254-1372	14	1	136 / 300
DCC54SS	10-54 / 254-1372	14	1	136 / 300
DCC60	10-60 / 254-1524	16	1	149 / 328
DCC60SS	10-60 / 254-1524	16	1	149 / 328
DCC72	10-72 / 254-1829	20	1	176 / 387
DCC72SS	10-72 / 254-1829	20	1	176 / 387

Double chain clamps must not be used as a lifting device.
When using the Fitting Alignment Device fittings must be independently supported

SPECIAL PIPE ALIGNMENT CLAMPS



PINCER CLAMP

For quick and accurate alignment of pipes of equal or differing diameters on a common centre line. Automatic diameter compensation. All parts stay easily accessible for welding.

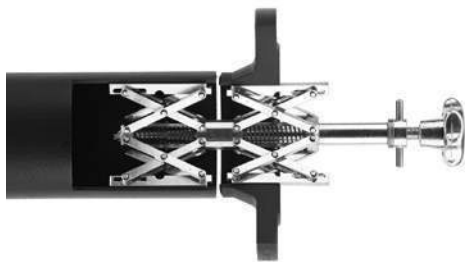
PART NO.	CLAMPING RANGE (MM)	WEIGHT KG / LBS
PC70	10-70	2.1 / 5
PC140	40-140	5.9 / 13
PC330	75-330	26 / 57.5



MINI CLAMP

For quick and accurate alignment and clamping of flanges, nozzles, etc to pipes and cylindrical tanks. Available in stainless steel.

PART NO.	CLAMPING RANGE (MM)	WEIGHT KG / LBS
MC19	15-19	0.20 / 0.7
MC20	16-20	0.20 / 0.7
MC25	19-25	0.25 / 0.9
MC32	24-32	0.50 / 1
MC40	31-40	0.50 / 1
MC52	38-52	1.25 / 3
MC64	51-64	1.25 / 3



FTP CLAMP SS READY

This model has two independent expanding clamps, allowing coaxial alignment of two hollow cylindrical components of different diameters. The bottom expanding clamp is inserted and clamped in the pipe by means of the knob. Then the other part (e.g. a flange) is placed over the top expanding clamp and clamped by means of the hand-bar.

PART NO.	CLAMPING RANGE (MM)	WEIGHT KG / LBS
FTP140	54-140	1.25 / 3
FTP220	85-220	3.6 / 8
FTP350	120-350	10.5 / 23
FTP520	180-520	27 / 60
FTP940	400-900	39 / 86



FTE CLAMP SS READY

This model with two independent clamps is used for clamping flanges of all kinds and similar parts to elbows and pipe-bends of various diameters. The lower expanding clamp has strong gripping feet which insert into the bend and are tightened by means of the knob. The top expanding clamp is tightened by means of the handbar in the flange.

PART NO.	CLAMPING RANGE (MM)	WEIGHT KG / LBS
FTE115	54-115	1 / 3
FTE195	85-195	3.3 / 7
FTE315	120-315	9.5 / 21
FTE520	180-520	23.1 / 51

EXTERNAL LINE UP CLAMPS CAGE CLAMPS

Cage or 'Tipton' Clamps are a cost effective method to align a single size of pipe. Three versions are available; manual, ratchet and hydraulic. These are available in two styles, either "Tack" or "No Tack". The tack type has straight cross bars and is removed from the pipe before welding. The more popular no tack model has arched cross bars to permit a 90% circumferential weld without removing the clamp.

MANUAL CAGE CLAMPS

Range : 2-60"

- Will not back off while weld is being made.
- Simple and easy to use.

PART NO.	PIPE SIZE	WEIGHT KGS
CCM4	4"	8.00
CCM6	6"	14.00
CCM8	8"	15.00
CCM10	10"	23.00
CCM12	12"	24.00
CCM14	14"	30.00

****SMALLER & LARGER SIZES AVAILABLE****

RATCHET CAGE CLAMPS

Range : 6-60"

The ratchet type External Line-up Clamp is very strong and accurate, but is also lightweight with either 'standard' flat cross bars or 'no tack' arched cross bars.

- Precision Acme Threads ensure great strength and ease of operation.
- Will not back off while weld is being made.
- Mechanism is enclosed to eliminate dirt or mud.
- Standard 1" ratchet handle fits all sizes.

PART NO.	PIPE SIZE	WEIGHT KGS
CCR6	6"	21.00
CCR8	8"	23.00
CCR10	10"	25.00
CCR12	12"	29.00
CCR14	14"	31.00
CCR16	16"	46.00

****SMALLER & LARGER SIZES AVAILABLE****

HYDRAULIC CAGE CLAMPS

Range : 12-80"

- Hydraulic jack capacity 10-12 ton.
- Specials upon request

PART NO.	PIPE SIZE	WEIGHT KGS
CCH20	20"	61.00
CCH24	24"	66.00
CCH28	28"	69.00
CCH30	30"	74.00
CCH32	32"	78.00
CCH34	34"	83.00

****SMALLER & LARGER SIZES AVAILABLE****



PJ3 PIPE JACKS

- 1,000kg / 2,205lbs load capacity
- Choice of fixed base or folding leg base
- Folding legs allow for easy storage and transportation
- Comprehensive range of head types
- Adjustable in height from 27"-48" (71cm-122cm)
- Independently load tested

Three leg height adjustable pipe stands



STD V-HEAD OPTIONS

Base Units



PART NO.		WEIGHT KG / LBS	PIPE SIZE
PJ3FXB	FIXED LEG	7.0 / 15.4	up to 12"
PJ3FLB	FOLDING LEG	7.0 / 15.4	up to 12"

Vee-Head



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
PJ3V	1,000 / 2,205	3.4 / 7	up to 12"

Steel Wheels



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SWK3	1,000 / 2,205	3.4 / 7	1"-12"
SWK3SS	1,000 / 2,205	3.4 / 7	1"-12"

Pipe Roller Head

Steel Wheels



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SWK350	1,000 / 2,205	4.9 / 11	4"-12"
SWK350SS	1,000 / 2,205	3.4 / 7	4"-12"

Nylon Wheels



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
NWK3*	450 / 992	2 / 5	1"-12"

Pipe Roller Head

Nylon Wheels



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
NWK350	450 / 990	4.9 / 11	4"-12"

Ball Transfers



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
BTK3	600 / 1320	2.5 / 6	1"-12"
BTK3SS*	600 / 1320	2.5 / 6	1"-12"

Stainless Steel

EXCLUSIVE TO GBC UK



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SSC3*	1,000 / 2,205	1.0 / 2	1"-12"

Roller Bar Head



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
RBH	1000 / 2205	4.25 / 9	1/8"-10" Flat

Pipe Hold Down Kit




PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
HDK12	N/A	7 / 16	1"-12"

LARGE V-HEAD OPTIONS

- 1,000kg / 2,205lbs load capacity
- Choice of fixed base or folding leg base
- Folding legs allow for easy storage and transportation
- Comprehensive range of head types
- Adjustable in height from 27"-48" (71cm-122cm)
- Independently load tested



Large Vee-Head




PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
LVH	2,000 / 4,410	7.6 / 17	up to 24"

Ball Transfers



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
BTK5	600 / 1320	2.3 / 5	1"-24"
BTK5SS	600 / 1320	2.3 / 5	1"-24"

Steel Wheels




PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SWK4	2,000 / 4,410	3 / 6	1"-24"
SWK4SS	2,000 / 4,410	3 / 6	1"-24"

Stainless Steel Sleeves




PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SSC4	1,000 / 2,205	1 / 2	1"-24"

Nylon Wheels



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
NWK4	450 / 990	1.8 / 4	1"-24"

Hold Down Device



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
HDK36	N/A	7 / 16	1"-24"

PJQ 'QUATTRO' STANDS

Heavy duty pipe stands for large diameter and heavy wall pipe

Features and advantages

- Weight certified to 2500kg
- For pipe up to 36" diameter
- Variety of head options
- Optional castor wheel for pipe transportation
- Height adjustable
- Suitable for carbon or stainless steel

The Quattro Heavy Duty Pipe Stands are the ideal solution for heavy duty pipe handling, in the workshop or for site applications.

The Large Vee Head, heavy duty base and variety of head options make the Quattro the most durable and versatile pipe stand on the market.

The Quattro stand can be used as a simple jack stand, supplied as standard with levelling pads to accommodate uneven working surfaces. Weight load tested to 2500kgs per stand, the Quattro stands can also be supplied with lockable castor wheels so pipes of up to 36" diameter can be moved around a workshop or site.



Transport pipe around the site or workshop with ease

QUATTRO STAND HEAD OPTIONS

Heavy duty pipe stands for large diameter and heavy wall pipe

Base Unit
(complete with levelling pads)



PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
PJQB	2500kg	10kg	


Large Vee-Head




PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
LVH	2500kg	7.5kg	1"-36"

Wheel Kit Options


Steel



Stainless Steel




Nylon




PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
SWK4	2000kg	10.5kg	1"-36"
SWK4SS	2000kg	10.5kg	1"-36"
NWK4	450kg	8.5kg	1"-36"

Ball Transfer Kits



PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
BTK4	600kg	8.5kg	1"-36"
BTK4SS	600kg	8.5kg	1"-36"

Hold Down Device



PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
HDK36	N/A	7kg	1"-36"

Stainless Steel Sleeves



PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
SS4	2500kg	8kg	1"-36"

Roller Wheel Kit



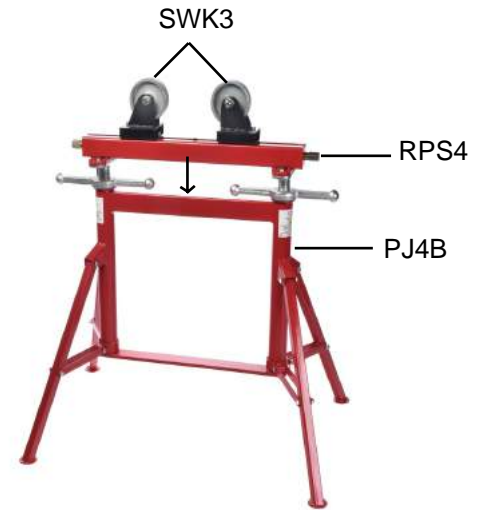
PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
RWK4	2000kg	11kg	N/A

PJ4 MULTI STAND

Height adjustable, multi function, pipe roller stand

EXCLUSIVE TO GBC UK

- Height adjustable with two fine adjusters
- Maximum weight load: 2000 kgs
- Maximum pipe diameter: 48"
- 'Bolt On' head unit can be utilised as a floor or bench unit



Bolt On Wheel Carrier Options

PJ4 Base Unit



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
PJ4B	2,000/4400	20/45	up to 48"

Bolt On Wheel Carrier



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
RPS4	2,000 / 4,400	3.4 / 7	up to 48"

Wheel Kit Options



PART NO.	LOAD CAPACITY	WEIGHT	
SWK3	1,000 kg	3.4 / 7	Steel
SWK3SS	1,000 kg	3.4 / 7	Stainless
NWK3	450 kg	2 / 5	Nylon

Ball Transfers



PART NO.	LOAD CAPACITY	WEIGHT	
BTK3	600 kg	2.5 kg	Steel
BTK3SS*	600 kg	2.5 kg	Stainless



Large V Head Options



PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
LVH	2,000 kg	7.6 kg	1"-36"
SSC4	2,000 kg	1 kg	1"-36"
HDK36	N/A	7 kg	1"-36"

Large V Head Wheel Kit Options



PART NO.	LOAD CAPACITY	WEIGHT	
SWK4	2000kg	10.5kg	Steel
SWK4SS	2000kg	10.5kg	Stainless
NWK4	450kg	8.5kg	Nylon

PJ4 MULTI STAND


Height adjustable, multi function, pipe roller stand

EXCLUSIVE TO GBC UK



Small V Head Options

Vee-Head



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
PJ3V	1,000 / 2,205	3.4 / 7	up to 12"

Stainless Steel Sleeves
EXCLUSIVE TO GBC UK



NEW

PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SSC3*	1,000 / 2,205	1.0 / 2	1"-12"

Wheel Kit Options

Steel



SWK3

Stainless



SWK3SS

Nylon




NWK3

PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
SWK3	1,000 kg	3.4 / 7	1"-12"
SWK3SS	1,000 kg	3.4 / 7	1"-12"
NWK3	450 kg	2 / 5	1"-12"


Ball Transfers

Steel



BTK3

Stainless



BTK3SS*

PART NO.	LOAD CAPACITY	WEIGHT	PIPE SIZE
BTK3	600 kg	2.5 kg	1"-12"
BTK3SS*	600 kg	2.5 kg	1"-12"



Roller Bar Head Options




EXCLUSIVE TO GBC UK

NEW

PART NO.	LOAD CAPACITY KG	WEIGHT KG	ROLLER
RBH4	500	4.25	STEEL
RBH4SS	500	4.25	STAINLESS
RBH4N	500	4.25	NYLON


Pipe Roller Head Options

Steel




SWK350

Stainless



SWK350SS

Nylon



NWK350

PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SWK350	1,000 / 2,205	4.9 / 11	4"-12"
SWK350SS	1,000 / 2,205	3.4 / 7	4"-12"
NWK350	450 / 990	4.9 / 11	4"-12"

PJ1 'UNO' PIPE STAND

The PJ1 Stand is a basic single tubed pipe stand, simple to use and easy to set-up.

A favourite for low level work in all fab shops. heights from 7" (18cm) to 28" (72cm).

Optional roller heads from the PJ3 series can also be fitted to the Vee Head of the PJ1 Stand to suit varying applications.



PART NO.	MIN/MAX HEIGHT INCHES	MIN/MAX HEIGHT METRIC
PJ1-1	7"-10.25"	175-260mm
PJ1-2	10"-15.5"	250-395mm
PJ1-3	15.5"-22.5"	395-570mm
PJ1-4	21.5"-28"	545-715mm

RPS4 PIPE ROLLER STAND

The RPS4 is a versatile floor or bench mountable pipe roller stand for pipe up to 48" diameter.

- Choice of steel, stainless steel or nylon wheels.
- Wheels are interchangeable and can be utilised on PJ3 & PJ4 stands.
- Wheels are independently adjustable
- The RPS4 also bolts onto the PJ4 base unit to make a 4 leg, trestle style pipe roller stand.



PART NO.	DESCRIPTION	LOAD CAPACITY KGS
RPS4SW	RPS4 C/W STEEL WHEELS	1000
RPS4SS	RPS4 C/W STAINLESS STEEL WHEELS	1000
RPS4NW	RPS4 C/W NYLON WHEELS	450

RPS6 HEAVY DUTY ROLLER STANDS

These heavy duty stands are designed to be either floor or bench mounted. Available with 4 head styles to suit pipes from 4" to 48"



PART NO.	HEAD STYLE	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS
RPS6B	Base unit only		5.8 / 13
SWK6	Pair steel wheel heads	2,200 / 4,850	3.4 / 7
NWK6	Pair nylon wheel heads	450 / 990	2.2 / 5
BTK6	Pair ball transfer heads	450 / 990	3.8 / 8
FTK6N	Pair feed through roller Nylon	450 / 990	3.5 / 6
FTK6S	Pair feed through roller. Steel	2,200 / 4,850	3.8 / 8

RPS8 FEED THRU ROLLER STANDS

Features

- Free standing or In-trench options
- Differing trench widths accommodated
- Multi positional
- Rubber coated rollers minimise pipe damage
- Three sizes available to suit pipes from 63mm to 1200mm



ADJUSTABLE WIDTH



FREE STANDING



TYPICAL APPLICATION

PART NO.	PIPE DIAMETER RANGE	LOAD CAPACITY	WEIGHT
RPS8-1	63 - 355mm	200kg	5kg
RPS8-2	250 - 630mm	1000kg	12kg
RPS8-3	500 - 1200mm	1000kg	13kg
RPS8-4	63 - 355mm	200kg	6kg
RPS8-5	1500mm	2000kg	90kg

PIPE PURGING



Principles Of Purging

Why Purge?

When welding stainless steel, titanium and other corrosion resistant materials, the perfect environment for welding is paramount to maintaining the corrosion resistant properties. During the welding process, the weld seam is subjected to heat and air which causes oxidation, if the correct processes are not adhered to. For the best results, the oxidation must be prevented. The quality of the exotic corrosion resistant material welding is dependent on the correct purging methods to minimise or eliminate the oxidation.



Argon Purge 12ppm Vol. O₂ Content



Argon Purge 60ppm Vol. O₂ Content



Argon Purge 70ppm Vol. O₂ Content



Argon Purge 200ppm Vol. O₂ Content



Argon Purge 250ppm Vol. O₂ Content



Argon Purge 500ppm Vol. O₂ Content

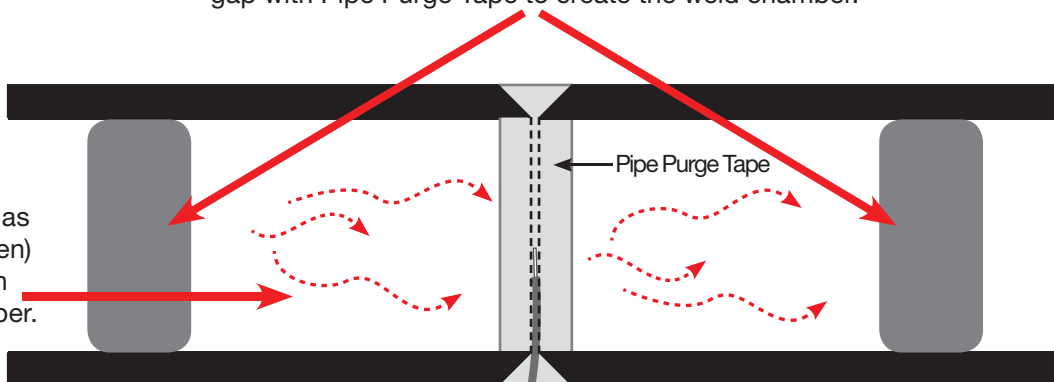
Weld Quality

The effective welding of stainless steel, titanium and other exotic materials for the nuclear, petrochemical, pharmaceutical, semi-conductor, aerospace and food industries requires the proper tools to create a perfect weld environment. Purging equipment and its use has a major impact on preventing oxidation and improving final weld quality. The basic principles of purging can be seen below. GBC UK supply a comprehensive range of systems to create the correct welding environment, whatever the application.

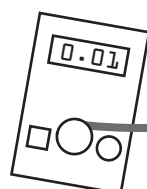
How it works

1. Create a seal (dam) either side of the weld and close off the weld gap with Pipe Purge Tape to create the weld chamber.

2. Fill the chamber with inert gas (such as argon or nitrogen) to expel oxygen from the chamber.



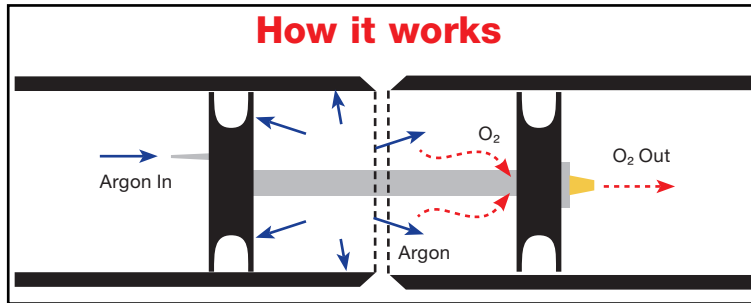
3. Use a weld purge monitor to recognise when the required level of oxygen has been met.



4. Welding can then be carried out, guaranteeing no oxidation or discolouration of the weld.

SILICON DOUBLE SEAL SYSTEM

Sizes: 3/4"-12" (16-320mm)



Silicon Double Seal Systems are the recommended system to use when the application demands the highest quality end results. They are used extensively in the Nuclear industry and are ideal when welding titanium and other exotic materials.

Typical purge times of less than two minutes mean gas and labour costs can be significantly reduced and production time increased.

The sealing discs are high quality silicone and guarantee airtight seals. They are UV and temperature resistant up to 320C and perfect when welding elbows and bends.



Replacement seals

Systems complete with carabiner clip & hose connector



OPTIONAL: Extra Argon hose and draw wire



DDSK25-165



Part Nos & Sizing

PART N°	PIPE i/D RANGE
DD16-19	16-19 mm
DD19-24	19-24 mm
DD25-31	25-31 mm
DD32-40	32-40 mm
DD41-50	41-50 mm
DD52-61	52-61 mm
DD62-74	62-74 mm
DD75-86	75-86 mm
DD85-101	85-101 mm
DD100-110	100-110 mm
DD120-135	120-135 mm
DD140-155	140-155 mm
DD150-165	150-165 mm
DD175-200	175-200 mm
DD195-215	195-215 mm
DD235-260	235-260 mm
DD255-280	255-280 mm
DD275-300	275-300 mm
DD290-320	290-320 mm
DDSK25-165	26-165 mm
DDSK25-320	26-320 mm

PURGE DRUM SYSTEMS

Sizes: 8 to 36" (290 to 900mm)

The Purge Drum system has been designed to further reduce gas usage on larger diameter pipes by localising the purge area to the weld root.

Purge Drums are available for pipes from 300 to 900mm diameter. These tools use two heat resistant silicon sealing lips to form the seal capable of coping with 300°C for up to one hour. Due to their design, these cylinders have very short purge times for all dimensions.

GBC UK Purge Drums are designed with pull-through balls to enable the unit to be easily retrieved out of a straight section of pipe, or a pipe with a series of bends or elbows.



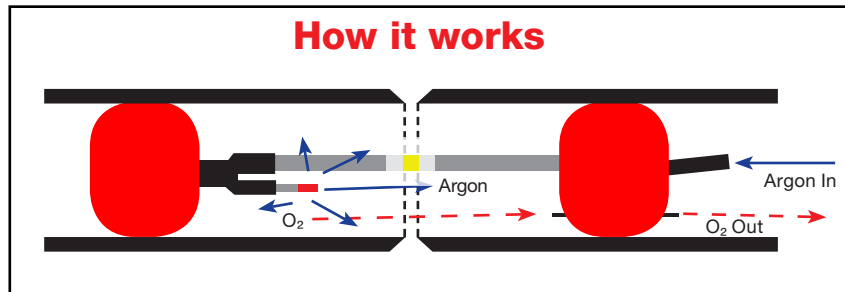
Part Nos & Sizing

Complete Drum	i/d Range mm		Spare seal
PD310	290	310	210-300 A
PD350	330	350	210-350 A
PD400	380	400	210-400 A
PD450	430	450	210-450 A
PD500	480	500	210-500 A
PD550	530	550	210-550 A
PD600	580	600	210-600 A
PD650	630	650	210-650 A
PD700	680	700	210-700 A
PD750	730	750	210-750 A
DP800	780	800	210-800 A
PD850	830	850	210-850 A
PD900	880	900	210-900 A



TWIN BAG PURGE SYSTEMS

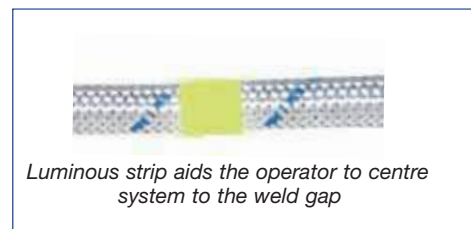
Sizes: 2"- 48" (50mm - 1200mm)



GBC Twin Bag Purging Systems consist of two inflatable bags connected by a spinal tube and a pressure valve. The system is positioned by viewing the luminous tape through the weld joint gap. E-Z ZONE TAPE is used to seal the weld gap and purge gas flow can commence at up to 20 Ltr/min. The bags inflate, a seal is created either side of the weld joint and the pressure valve releases gas into the weld chamber. By using a GBC Oxygen Monitor to constantly measure the oxygen content in the weld chamber the welder will know when to reduce the gas flow and commence welding.

The system is left in position post welding until the weld joint temperature drops to below oxidation levels, then the purge gas feed is disconnected, the bags deflate and the system can be withdrawn.

* For more critical applications higher spec versions are available with non-scratch spinal tubes and a gas feed system to replace pressure release valves.



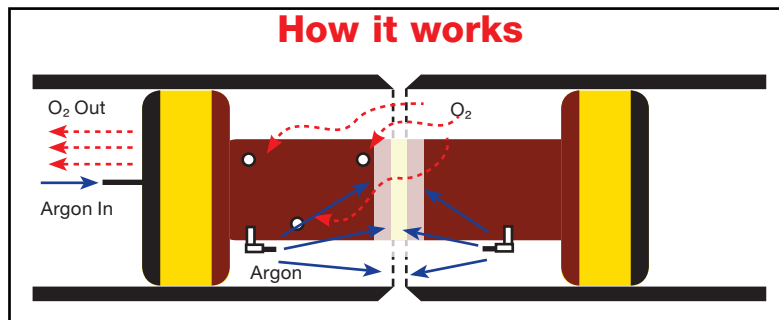
Part Nos & Sizing

PART N°		EXPANSION RANGE
TP02	2"	44 – 57 mm
TP03	3"	58 – 84 mm
TP04	4"	80 - 110 mm
TP05	5"	103 - 135 mm
TP06	6"	124 - 162 mm
TP08	8"	175 - 213 mm
TP10	10"	230 - 265 mm
TP12	12"	265 - 305 mm

Larger sizes available on request.

SPEEDY PURGE SYSTEMS

Sizes: 8 to 80 " (190 to 2044mm)



The GBC Speedy Purge System for pipe and vessel purging comprises a tandem inflatable dam system connected by an umbilical hose and collar to reduce the volume being purged. A gas exhaust valve is installed between the primary and secondary dam, along with an auxiliary Argon purge line. The system is positioned by viewing the luminous tape through the weld joint gap. E-Z ZONE TAPE is used to seal the weld gap and purge gas flow can commence at up to 20 Ltr/min. The bags inflate, a seal is created either side of the weld joint and the pressure valve releases gas into the weld chamber. By using a GBC Oxygen Monitor to constantly measure the oxygen content in the weld chamber the welder will know when to reduce the gas flow and commence welding.

The system is left in position post welding until the weld joint temperature drops to below oxidation levels, then the purge gas feed is disconnected, the bags deflate and the system can be withdrawn.



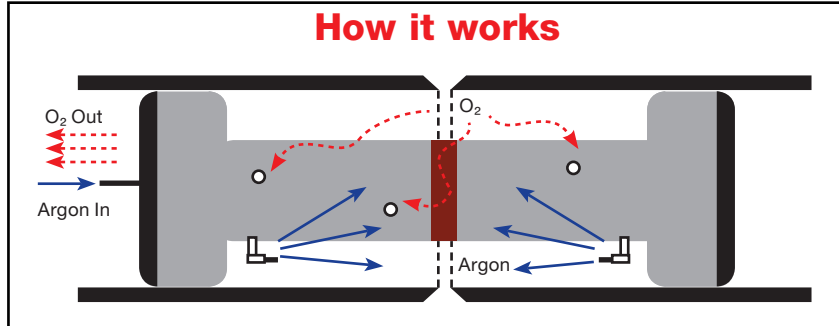
Speedy Purge used to weld a stainless steel elbow.

Part Nos & Sizing

PART N°	EXPANSION RANGE	WEIGHT
SP08	190 - 215 mm	1.4 kg
SP10	242 - 267 mm	1.7 kg
SP12	291 - 316 mm	2.1 kg
SP14	318 - 343 mm	2.5 kg
SP16	369 - 394 mm	2.7 kg
SP18	420 - 445 mm	3.0 kg
SP20	471 - 496 mm	3.4 kg
SP22	553 - 577 mm	3.6 kg
SP24	572 - 597 mm	3.8 kg
SP26	620 - 645 mm	4.5 kg
SP28	671 - 696 mm	5.5 kg
SP30	722 - 747 mm	6.0 kg
SP32	772 - 797 mm	8.0 kg
SP36	874 - 899 mm	9.1 kg
SP40	990 - 1015 mm	9.9 kg
SP42	1023 - 1048 mm	13.2 kg
SP44	1125 - 1150 mm	13.7 kg
SP48	1175 - 1200 mm	15.0 kg
SP54	1359 - 1384 mm	18.0 kg
SP60	1512 - 1537 mm	20.0 kg
SP72	1816 - 1841 mm	28.0 kg
SP80	2019 - 2044 mm	30.0 kg

SPEEDY PURGE HEAT RESISTANT SYSTEMS

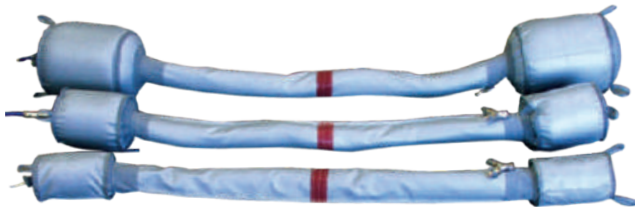
Sizes: 3 to 80 " (63 to 2044mm)



The GBC Twin Purge Bag & Speedy Purge Systems are both available as heat resistant versions. Designed for use when high temperatures are encountered in the welding process, such as pre & post-heating. They are heat resistant up to 350C for up to 24 hours and 500C for short periods.

Mirroring the features of the standard range of inflatable purging systems, the heat resistant range comes with a luminous positioning band for rapid centering and set up. These systems can be in place throughout the pre-heating, welding and post-heat treatment cycles, allowing the weld to be purged continuously for up to 24 hours if necessary.

Part Nos & Sizing



PART N°	EXPANSION RANGE	WEIGHT
TP03/HR	63 - 75 mm	1.1 kg
TP04/HR	92 - 100 mm	1.2 kg
TP05/HR	113 - 125 mm	1.25 kg
TP06/HR	138 - 150 mm	1.3 kg
TP07/HR	163 - 175 mm	1.4 kg
SP08/HR	190 - 215 mm	1.4 kg
SP10/HR	242 - 267 mm	1.7 kg
SP12/HR	291 - 316 mm	2.1 kg
SP14/HR	318 - 343 mm	2.5 kg
SP16/HR	369 - 394 mm	2.7 kg
SP18/HR	420 - 445 mm	3.0 kg
SP20/HR	471 - 496 mm	3.4 kg
SP22/HR	553 - 577 mm	3.6 kg
SP24/HR	572 - 597 mm	3.8 kg
SP26/HR	620 - 645 mm	4.5 kg
SP28/HR	671 - 696 mm	5.5 kg
SP30/HR	722 - 747 mm	6.0 kg
SP32/HR	772 - 797 mm	8.0 kg
SP36/HR	874 - 899 mm	9.1 kg
SP40/HR	990 - 1015 mm	9.9 kg
SP42/HR	1023 - 1048 mm	13.2 kg
SP44/HR	1125 - 1150 mm	13.7 kg
SP48/HR	1175 - 1200 mm	15.0 kg
SP54/HR	1359 - 1384 mm	18.0 kg
SP60/HR	1512 - 1537 mm	20.0 kg
SP72/HR	1816 - 1841 mm	28.0 kg
SP80/HR	2019 - 2044 mm	30.0 kg

TUNGSTEN GRINDERS

MasterPoint Handy

Hand held tungsten electrode grinder with dust collection



MasterPoint Basic

Portable Tungsten Electrode grinder.



MasterPoint 1-4

bench mounted tungsten electrode grinder

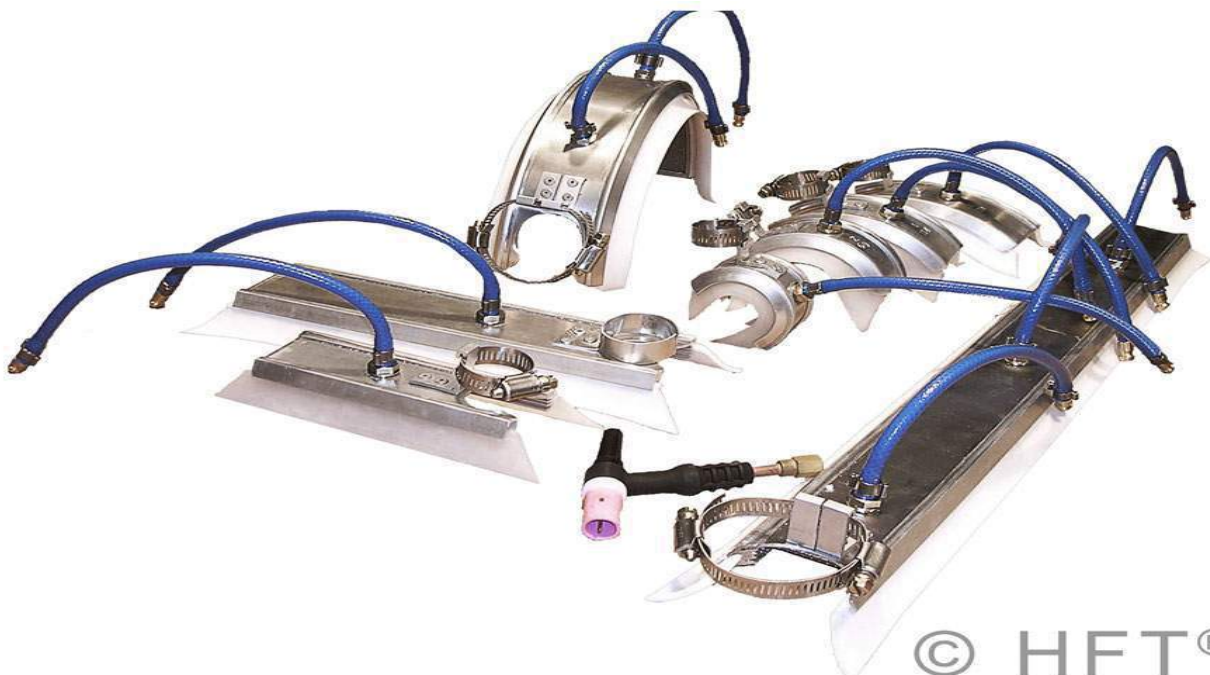


MasterPoint Ultimate

Wet tungsten electrode grinder



TRAILING SHIELDS



© HFT®

WATER SOLUBLE PURGING PRODUCTS



US & Foreign Patents Issued & Pending

EZ Purge® is a pre-formed, self-adhesive, water soluble purge dam that enables welders to save time on weld preparation as well as improve project timeliness. Since EZ Purge® is pre-formed; there is no need to measure, cut or construct a purge dam. Setup and installation time is completed in minutes, making EZ Purge® the most efficient and economical purge dam available.

ITEM NO.	DIMENSIONS		CASE QTY.
	ENGLISH	METRIC	
EZP-2	2"	51 mm	192
EZP-3	3"	76 mm	192
EZP-4	4"	102 mm	48
EZP-5	5"	128 mm	48
EZP-6	6"	152 mm	48
EZP-8	8"	203 mm	48
EZP-10	10"	254 mm	48
EZP-12	12"	305 mm	48
EZP-14	14"	356 mm	24
EZP-16	16"	406 mm	24

ITEM NO.	DIMENSIONS		CASE QTY.
	ENGLISH	METRIC	
EZP-18	18"	457 mm	24
EZP-20	20"	508 mm	24
EZP-22	22"	559 mm	24
EZP-24	24"	610 mm	24
EZP-26	26"	660 mm	24
EZP-28	28"	711 mm	24
EZP-30	30"	765 mm	24
EZP-32	32"	813 mm	24
EZP-36	36"	918 mm	24

Sizes 40-84" & Custom Sizes Available Upon Request

WATER SOLUBLE PURGE FILM & ADHESIVE

LiquiFilm® is a water soluble plastic film used as a purge gas barrier during TIG welding. Highly flexible and transparent. Place 8"-12" from the weld joint on each side after applying water soluble adhesive to pipe. Brick format and adhesive sold separately. Kit format includes film wound on core plus two 250 ml bottles.

ITEM NO.	DIMENSIONS		CASE QTY.
	ENGLISH	METRIC	
AWSF-1/20RG Kit	39' x 66'	1 m x 20 m	12
AWSF-1/20B Brick	39' x 66'	1 m x 20 m	12
AWSG-500 Adhesive	16 oz.	500 ml/bottle	24
AWSG-250 Adhesive	8 oz.	250 ml/bottle	48



Aquasol® Water Soluble Paper is made of sodium carboxy methyl, a cellulose and wooden pulp that dissolves rapidly and completely in most liquids including water. Can be used to dam argon or helium gases during tungsten inert gas (TIG) welding of steel or aluminum pipes. Environmentally friendly and non-toxic. Aquasol® Paper can be formed into any size purge dam when used in conjunction with water soluble tape.



ITEM NO.	TYPE	DIMENSIONS:		CASE QTY.
		ENGLISH	METRIC	
ASW-35/S-11RW	Sheet	8 1/2" x 11"	22 cm x 28 cm	500
ASW-35/S-14R	Sheet	8 1/2" x 14"	22 cm x 36 cm	500
ASW-35/S-22R	Sheet	17" x 22"	43 cm x 56 cm	500
ASW-60/S-22R	Sheet	15 1/2" x 22"	39 cm x 56 cm	250
ASW-35/R-15	Roll	15 1/2" x 165'	39 cm x 50 m	4
ASW-35/R-9	Roll	9" x 165'	23 cm x 50 m	4
ASW-40C/R-20	Roll	20 1/2" x 165'	52 cm x 50 m	4
ASW-60/R-15	Roll	15 1/2" x 165'	39 cm x 50 m	4
ASW-60/R-31	Roll	31" x 165'	79 cm x 50 m	4

SOLUGAP® WATER SOLUBLE SOCKET WELD SPACER RINGS

Provide the 1/16" (1.6 mm) minimum gap required by ANSI 31.1, Section III, ASME, US & Navy and Military Codes.

SoluGap® Water Soluble Socket Weld Spacer Rings are made of EPA Approved Aquasol® Water Soluble Board. Dissolves completely and rapidly in most liquids. Unique tabs secure placement regardless of orientation. Compatible with any metal.

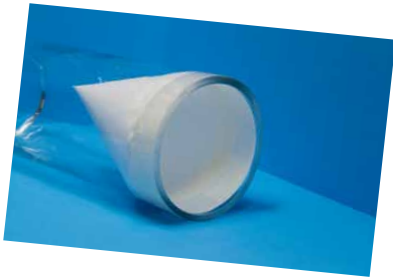


US & Foreign Patents Issued & Pending

ITEM NO.	PIPE SIZE		PACKAGING
	ENGLISH	METRIC	
SGP-0.5	1/2"	20 mm	50 pcs/bag
SGP-0.75	3/4"	25 mm	50 pcs/bag
SGP-1.0	1"	32 mm	50 pcs/bag
SGP-1.25	1 1/4"	40 mm	50 pcs/bag

ITEM NO.	PIPE SIZE		PACKAGING
	ENGLISH	METRIC	
SGP-1.50	1 1/2"	50 mm	50 pcs/bag
SGP-1.75	1 3/4"	57 mm	50 pcs/bag
SGP-2.0	2"	63 mm	50 pcs/bag
SGP-2.5	2 1/2"	73 mm	50 pcs/bag

Also available in 1/8" thickness.



WS PURGE DAMS are preformed water soluble purge dams. These preformed dams are size specific and each cone can be used on all wall thicknesses and pipe schedules. Each pack includes 2 pcs of 'Fixing Tape' and the required length of water soluble tape. They will completely dissolve without any risk of residue. Available in all sizes from 2" to 36". Sold individually.

PURGING TAPE PRODUCTS



US & Foreign Patents Pending

PURGE GAS RETAINING TAPE

EZ Zone® Tape is a purge gas retaining tape used to seal the root gap between pipes to trap argon gas. Composed of two adhesive sections separated by an adhesive-free center zone. The adhesive portion of the tape never comes in contact with the pipe as it is welded; creating a clean, contaminant-free weld. Halogen and chlorofluorocarbon free.

ITEM NO.	DIMENSIONS		ADHESIVE FREE ZONE		CASE QTY.
	ENGLISH	METRIC	ENGLISH	METRIC	
EZ-ZT 2.5	2.5" x 75'	64 mm x 23 m	1"	25 mm	18
EZ-ZT 4.0	4.0" x 75'	102 mm x 23 m	2"	51 mm	12



EZ Tape® is a traditional aluminum tape that can be used for sealing the root gap while purging and sealing pipe ends for transport. Conventional uses include; sealing ducts for heating, air conditioning and refrigeration; and acting as an a vapor barrier. EZ Tape® is high temperature resistant, halogen-free and conforms to irregular surfaces.

ITEM NO.	DIMENSIONS		CASE QTY.
	ENGLISH	METRIC	
EZ-T 2.0	2" x 75'	51 mm x 23 m	24

BACKING TAPE

Fiback® fiberglass backing tape is a heat resistant aluminum tape with a woven fiberglass center strip, designed to eliminate or reduce the need for back purging and post weld grinding. Available in **200 AMP** & **600 AMP** formats.



ITEM NO.	DIMENSIONS		CASE QTY.
	ENGLISH	METRIC	
200 AMP			
AFBT-2.0-200	2.0" x 41'	51 mm x 12.5 m	5
AFBT-4.0-200	4.0" x 41'	102 mm x 12.5 m	5
600 AMP			
AFBT-2.5	2.5" x 41'	64 mm x 12.5 m	5
AFBT-4.0	4.0" x 41'	102 mm x 12.5 m	5

Aquasol® Water Soluble Tape is a pressure sensitive water soluble tape recommended to hold purge dams in position, and when needed to splice two or more pieces of Aquasol paper together. Sold in rolls.

ITEM NO.	TYPE	DIMENSIONS		CASE QTY.
		ENGLISH	METRIC	
ASWT-1	Roll	1" x 300'	2.5 cm x 92 m	24
ASWT-2	Roll	2" x 300'	5.0 cm x 92 m	12



INFLATABLE PIPE STOPPERS

Sizes: 2 to 80" (50 to 2035 mm)

Single inflatable dams for blocking and testing

GBC Ltd offer a range of shapes and sizes of inflatable stoppers, suitable for all applications. Made from a natural rubber bladder covered in waterproof polyurethane coated nylon to prevent friction and static electricity build up.

Cylindrical

These are generally used for blocking pipes where access is restricted.

Spherical

These stoppers have less contact area than cylindrical stoppers, and are most suited to applications where access is further limited. Due to its shape the spherical inflatable stopper can be used at any angle.

Square / rectangular

These stoppers have a variety of applications, including in air conditioning ducting and venting.

Doughnut

These stoppers require minimal space and are perfectly suited to larger diameter pipes as there is less inflation required.

Sausage

The design of this type gives more contact area between the stopper and the pipe wall enabling these stoppers to hold back more pressure.

Heat Resistant

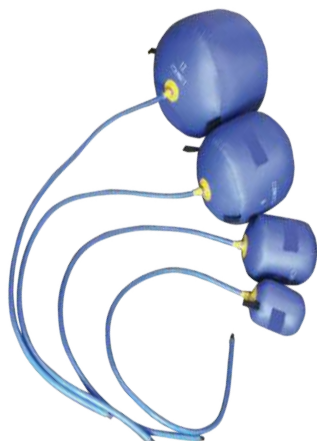
These stoppers are made from a specially designed kevlar and nomex mix material to withstand temperatures up to 350°C for applications involving higher temperatures such as pre heating.

Each inflatable stopper comes with an inflation hose fitted with a schrader valve enabling inflation with a standard airline, bicycle or foot pump.

GBC Industrial Tools inflatable stoppers are supplied as standard with no through tube. Through tubes can be supplied when the stoppers are required for weld purging applications.

When deflated, the inflatable stoppers can be inserted and withdrawn with ease.

Cylindrical Stoppers



Doughnut Stoppers



Heat Resistant Stopper



INFLATABLE STOPPER SIZE	MIN ID MM	MAX ID MM
2" (50mm)	45	55
3" (75mm)	70	80
4" (100mm)	95	105
5" (125mm)	120	130
6" (150mm)	145	155
7" (175mm)	170	180
8" (200mm)	195	205
9" (225mm)	220	230
10" (250mm)	245	255
11" (275mm)	270	280
12" (300mm)	295	305
13" (325mm)	320	330
14" (350mm)	345	355
15" (375mm)	370	380
16" (400mm)	395	405
17" (425mm)	420	430
18" (450mm)	445	455
19" (475mm)	470	480
20" (500mm)	495	505
21" (525mm)	520	530
22" (550mm)	545	555
23" (575mm)	570	580
24" (600mm)	595	605
26" (650mm)	645	655
27" (675mm)	670	680
28" (700mm)	695	705
30" (750mm)	745	755
32" (800mm)	795	805
34" (850mm)	845	855
36" (900mm)	895	905
39" (1000mm)	995	1005
44" (1100mm)	1095	1105
48" (1200mm)	1195	1205
51" (1300mm)	1295	1305
55" (1400mm)	1395	1405
60" (1500mm)	1495	1505
63" (1600mm)	1595	1605
67" (1700mm)	1695	1705
71" (1800mm)	1795	1805
75" (1900mm)	1895	1905
79" (2000mm)	1995	2005
80" (2035mm)	2030	2040

EXPANDING PIPE STOPPERS

Sizes: Up to 72" (1828mm)

Expandable test plugs for purging and general pipe blocking

Pipe stoppers, or drain plugs as they are sometimes known, are used to temporarily seal the end of a pipe or opening for many different testing applications. Pipe stoppers are mainly used to seal off from water, gases and foreign objects in newly laid pipes, or pipework systems that are under repair.

GBC's range of Pipe stoppers are available in a number of different styles to suit many applications for pipe sizes from 1/2" to 72". Special Pipestoppers are also available for pressure testing.

How it works:

A central spindle/shaft on which two plates are fitted with a natural rubber tyre (ring) between them, a wing nut on the shaft moving the two plates together compressing the tyre and making the seal in the pipe. These stoppers can also be supplied with a hollow shaft version for screwing on standard hose connections or for using fixed or free nipple caps.

Expandable Pipe Stoppers are available in three different types.

Nylon Plugs

Nylon plugs are the standard 'Drain Plugs' for testing leak tightness of foul water lines at the time of installation. Furthermore, the range of sizes make these plugs ideal for a number of other applications in the water and gas industries as well as applications in all other industries where pipes are used or where there are holes to be blocked.

Aluminium Plugs

To complement the range of nylon expanding plugs, we offer all sizes of aluminium plugs.

These are provided in sizes from 1.5" upwards and are suitable for more arduous duties such as immersion in chemicals and/or higher temperatures.

Steel Plugs

GBC also offer a range of Steel plugs from 2" to 72" in diameter.

These plugs are typically suitable for more arduous duties such as long immersion in water and use at higher temperatures or for contact with acidic or alkaline environments for which the Nylon and Aluminium plugs may be unsuitable.

All plugs conform to British Standards BS8005 for low pressure testing and sealing of pipes.



PART NO.	PIPE SIZE INTERNAL NOMINAL DIAMETER		WILL FIT PIPES WITH INTERNAL DIAMETER		MINIMUM INSERTION INTO PIPE	OVERALL LENGTH	DIAMETER OF WATERWAY	MAXIMUM ALLOWABLE BACK PRESSURE	APPROX. WEIGHT
	METRIC	IMPERIAL	MINIMUM	MAXIMUM					
NYLON EXPANDING PIPE STOPPERS									
NS12	12mm	1/2	12mm	16mm			solid	100p.s.i.	0.01kg
NS18	18mm	3/4	18mm	24mm			solid	100p.s.i.	0.01kg
NS25	25mm	1	23mm	32mm			solid	100p.s.i.	0.02kg
NS31	31mm	1 1/4	31mm	39mm			solid	70p.s.i.	0.04kg
NS38	38mm	1 1/2	37mm	54mm			solid	60p.s.i.	0.05kg
NS12TB	12mm	1/2	12mm	16mm			M8	100p.s.i.	0.01kg
NS18TB	18mm	3/4	18mm	26mm			M8	100p.s.i.	0.01kg
NS25TB	25mm	1	25mm	32mm			M8	100p.s.i.	0.02kg
NS31TB	31mm	1 1/4	31mm	39mm			M8	70p.s.i.	0.04kg
NS38TB	38mm	1 1/2	38mm	42mm			M8	60p.s.i.	0.05kg
NS50	50mm	2	48mm	62mm			1/2	15p.s.i.	0.05kg
NS63	63mm	2 1/2	65mm	77mm			1/2	10p.s.i.	0.10kg
NS75	75mm	3	74mm	86mm			1/2	10p.s.i.	0.10kg
NS88	88mm	3 1/2	82mm	96mm			1/2	10p.s.i.	0.10kg
NS100	100mm	4	95mm	105mm			1/2	5p.s.i.	0.15kg
NS115	115mm	4 1/2	114mm	124mm			1/2	5p.s.i.	0.2kg
NS125	125mm	5	117mm	127mm			1/2	5p.s.i.	0.2kg
NS150	150mm	6	146mm	155mm			1/2	5p.s.i.	0.25kg

ALUMINIUM EXPANDING PIPE STOPPERS									
AS1.5	40mm	1 1/2	38mm	50mm	45mm	94mm	1/2	30p.s.i.	0.17kg
AS2	50mm	2	49mm	62mm	43mm	90mm	1/2	30p.s.i.	0.22kg
AS2.5	65mm	2 1/2	62mm	77mm	43mm	92mm	1/2	30p.s.i.	0.27kg
AS3	75mm	3	73mm	89mm	43mm	94mm	1/2	20p.s.i.	0.31kg
AS3.5	90mm	3 1/2	84mm	103mm	53mm	96mm	1/2	15p.s.i.	0.36kg
AS4	100mm	4	94mm	110mm	47mm	94mm	1/2	10p.s.i.	0.36kg
AS4.5	114mm	4 1/2	112mm	130mm	56mm	140mm	1/2	10p.s.i.	0.47kg
AS5	125mm	5	125mm	142mm	60mm	95mm	1/2	10p.s.i.	0.79kg
AS6	150mm	6	146mm	168mm	48mm	96mm	1/2	10p.s.i.	0.70kg
AS7	175mm	7	175mm	200mm	64mm	100mm	1	7p.s.i.	1.92kg
AS8	200mm	8	193mm	220mm	64mm	100mm	1	7p.s.i.	1.59kg
AS9	225mm	9	220mm	240mm	64mm	170mm	1	7p.s.i.	2.06kg
AS10	250mm	10	245mm	270mm	73mm	178mm	1	7p.s.i.	2.52kg
AS11	275mm	11	274mm	328mm	100mm	200mm	1	7p.s.i.	3.45kg
AS12	300mm	12	295mm	325mm	77mm	200mm	1	7p.s.i.	3.42kg
AS13	325mm	13	325mm	360mm	120mm	230mm	1	5p.s.i.	4.75kg
AS14	350mm	14	350mm	385mm	110mm	215mm	1	5p.s.i.	6.95kg
AS15	375mm	15	370mm	410mm	110mm	225mm	1	5p.s.i.	5.35kg
AS16	400mm	16	390mm	435mm	110mm	225mm	1	5p.s.i.	5.9kg
AS18	450mm	18	445mm	495mm	110mm	225mm	2	5p.s.i.	8.75kg
AS20	500mm	20	495mm	550mm	145mm	255mm	2	5p.s.i.	11.3kg
AS21	525mm	21	520mm	575mm	145mm	255mm	2	3p.s.i.	11.8kg
AS24	600mm	24	595mm	650mm	145mm	255mm	2	3p.s.i.	15.85kg

STEEL EXPANDING PIPE STOPPERS									
SS1.5	40mm	1 1/2	37mm	50mm	31mm	81.5mm	1/2	30p.s.i.	0.16kg
SS2	50mm	2	50mm	61mm	32.7mm	82.8mm	1/2	30p.s.i.	0.18kg
SS2.5	65mm	2 1/2	51mm	75mm	33.2mm	80.5mm	1/2	30p.s.i.	0.26kg
SS3	75mm	3	73mm	85mm	34mm	80.5mm	1/2	20p.s.i.	0.28kg
SS3.5	89mm	3 1/2	84mm	100mm	41mm	81mm	1/2	15p.s.i.	0.36kg
SS4	100mm	4	94mm	108mm	37.5mm	83.3mm	1/2	10p.s.i.	0.41kg
SS4.5	114mm	4 1/2	110mm	125mm	40mm	83.3mm	1/2	10p.s.i.	0.58kg
SS5	125mm	5	124mm	139mm	37mm	83.3mm	1/2	10p.s.i.	0.60kg
SS6	150mm	6	145mm	160mm	39.7mm	83.3mm	1/2	10p.s.i.	0.75kg
SS7	175mm	7	175mm	200mm	46mm	130mm	1	7p.s.i.	1.56kg
SS8	200mm	8	195mm	215mm	37mm	130mm	1	7p.s.i.	1.47kg
SS9	225mm	9	210mm	230mm	58mm	150mm	1	7p.s.i.	1.93kg
SS10	250mm	10	245mm	260mm	55mm	150mm	1	7p.s.i.	2.55kg
SS12	300mm	12	296mm	320mm	85mm	150mm	1	7p.s.i.	3.72kg
SS14	350mm	14	340mm	385mm	85mm	210mm	1	5p.s.i.	6.54kg
SS15	375mm	15	370mm	415mm	100mm	210mm	1	5p.s.i.	7.00kg
SS16	400mm	16	390mm	430mm	95mm	210mm	1	5p.s.i.	8.45kg
SS18	450mm	18	448mm	495mm	100mm	210mm	1	5p.s.i.	10.6kg
SS20	500mm	20	495mm	550mm	145mm	255mm	2	3p.s.i.	11.3kg
SS21	525mm	21	520mm	575mm	145mm	255mm	2	3p.s.i.	11.5kg
SS24	600mm	24	595mm	650mm	145mm	255mm	2	3p.s.i.	15.85kg

* Larger sizes available upon request

PURGE MONITORS



MasterPurge 100

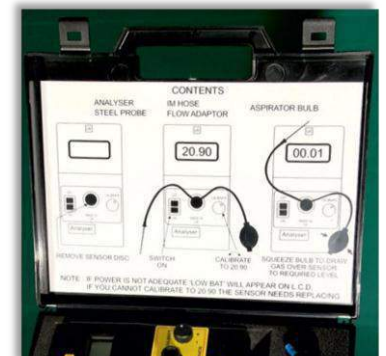


**SELF
CALIBRATING**

Manufactured in the UK.



Digital display



Step by step instructions inside the carrycase lid.

The MasterPurge 100 is our entry level weld purge monitor. It comes complete and ready to use straight from the carrycase. It is suitable for general stainless steel pipework applications. For more critical applications such as Titanium, Nuclear, food and chemical, please choose a higher spec model from the MasterPurge range.



Hand held. Portable

Package includes: Oxygen Monitor
Hose
Flow adaptor
Stainless steel probe
Aspirator bulb
Carrycase
Operating instructions

Measuring range: 20.9% to 0.01%
Sensor response: T90 < 15 secs
Operating Temp: -10 to 40 degrees C
Power source: P3 9 volt battery
Warranty: Sensor 12 months
Dims: Monitor: 150mm x 80mm x 55mm
Case: 270mm x 230mm x 55mm



Replacement Sensors and full range of spares available from stock.

MasterPurge 1000P



Manufactured in the UK.

Push Button re-calibration for oxygen cell drift

Built in audible alarm to warn of purge loss - variable alarm level

Milled from solid aluminium case - fully RFI & EMI shielded

Resolution - 0.1 %

Accuracy - $\pm 1\%$ F.S.

Hand bulb pump with sampling tubes and stainless steel capillary

Re-chargeable batteries (charger included)

No zero calibration required

Two year oxygen cell life

Simple and economical oxygen cell replacement

Sensor - Electrolytic, partial pressure type
- Working life - 2 years

Alarm - Piezo buzzer - 80dba @ 30 cms.

Batteries - 900mAh 6v NiCad pack
- Time between charges - approx. 3 weeks
- Charge time - 14 hours

Measuring range- 0-25% oxygen in Argon, Helium, Argon/Hydrogen mixes, etc

Response time - Less than 20 seconds to 0.1%

Dimensions- 148mm x 80mm x45mm

Weight - 600 gms

MasterPurge 5

This new oxygen analyzer is an innovative, handy and reasonably priced measurement device, with a durable, wear-proof zirconium sensor. Elaborate charging management and high-quality built-in components make this device the market leader in its sector. It has an internal position-sensor, which allows the digital display screen to rotate by 180°. The pump and the heating of the sensor are activated by strong lateral shaking. If the device doesn't get a measurement value after 10 minutes it automatically shuts down, therefore preserving battery and sensor capacity. It is coated by a shockproof silicone holster. A key ring is fixed on the bottom side to hang up the device on a pipeline or another item.



FEATURES

- Temperature-controlled zirconium sensor (1000 ppm - 5 ppm)
- Graphic-competent, coloured 1" OLED-display
- Power supply 110 VAC-240 VAC
- Internal Lithium Ion battery with 3,7 VDC, 4.300 mAh
- Integrated, free programmable signal-horn. The analyzer can be programmed on the PC or Android mobile-phone with the optional Bluetooth adapter.
- A green measurement value on the OLED display means "approved".
- Diffusion resistant FPM measurement hose
- Charging cable for car cigarette lighter available
- Display screen rotates when you turn the device due to position sensor
- Measuring up to 4 hours
- Ready to work in ca. 10 seconds

DATA

Electrical voltage supply:	Input: 100 – 240 VAC (50/60 Hz) Output: 12 VDC, 1000 mA
Weight:	447 g (without suitcase)
Dimensions (l x w x h):	145 mm x 85 mm x 48 mm
Range:	1000 - 5 ppm



MasterPurge Pro2 mobile

Oxygen Analyzer



- Temperature regulated zirconium sensor
- Graphicscompatible display (4 background colours)
- Plug-in power supply 110 VAC-240 VAC
- Internal akku with 7 VDC, 2750 mAh
- Integrated, free programmable horn
- Easy operated software
- Operator guidance in several languages
- Diffusion-proof special- FPM- measuring hose
- Charging cable for car-cigarette lighter available
- Measuring-data storable (Premium version)
- PC software for documentation
- Various surfaces for documentation or connection of external orbital welding equipment (Orbitec, AMI, ...)

The keypad is a very robust snap dome film. Stabile plastic plates are installed between the polycarbonate- and the conductor-film. This allows the operator a save pressure, also with heavy welders- or working-gloves. By pressing the keys, he gets a not overhearing confirmation signal. Furthermore a practicable software supports the operator with several information (5-fold signal tone before readiness to measure, signal tones as alert – no welding readiness).



DATA

Electrical voltage supply

Weight (kg)

Dimensions (L x W x H)

Range

Input: 100-240 VAC (50/60Hz)

Output: 12 VDC, 1000 mA

0,570

225 mm x 105 mm x 45 mm

1000 - 5 ppm

MasterPurge 1

The MasterPurge 1 Oxygen Monitor incorporates a maintenance-free ceramic sensor, which can accurately display oxygen levels as small as 1 ppm (part per million).

High specification welds are now commonplace in the pharmaceutical, dairy, aerospace, petrochemical and many other industries. This oxygen monitor enables welders to more accurately recognise when extremely low rest oxygen atmospheres in the weld environment are reached.

Features

- Robust zirconium cell
- 0 – 999 ppm measurement range
- Low maintenance
- Complete with carrycase



Technical Data

Measuring range	0 - 999 ppm O ₂
Temperature operating range	0 ⁰ C - 45 ⁰ C
Accuracy	+/- 0.3 mV Sensor EMF
Sensor warm-up time	Approx. 90 Seconds
Stabilisation time	15-20 Minutes
Response time	Approx. 2 Seconds for variations
Dimensions	140mm x 210mm x 225mm (H x W x L)
Required voltage	Multi Range 100 - 240 Volt AC
Warm-up load	Approx. 200 VA
Normal load	Approx. 40 VA
Measuring chamber Temp.	Approx. 700 ⁰ C
Gas temperature	Max. 50 ⁰ C
Gas flow	Approx. 50 l/h (1.8 ft ³ /h)
Moisture content	Zero. Moisture must be separated out.

N.B. NOT SUITABLE FOR USE WITH FORMING GASES

MasterPurge Pro2 plus

Oxygen Analyzer

- Temperature regulated, low-maintenance zirconium sensor
- Accuracy of measurement up to 0,5 ppm
- Graphics compatible display
- Internal akku for wireless measurements up to 90 min.
- Integrated, free programmable horn
- Date and time for documentation
- Easy operated software
- Diffusion proof special FPM measuring hose
- Digital flow sensor
- Several surfaces: RS 232, 0-5 VDC (Orbitec) , CAN-Bus, AUX (AMI)
- Calibration on the aerial oxygen for authorised personnel
- Internal memory up to 250 sets of parameters or external memory (PC-documentation)



Made in Germany

DATA

Electrical voltage supply
 Weight (kg)
 Dimensions (L x W x H)
 Range

100-240 VAC (50 / 60 Hz) | Internal Akku: 12 VDC
 3,2
 240 mm x 215 mm x 85 mm (325mm with handle)
 1000 - 1 ppm

PIPEFITTERS TOOLS

Flange Squares

Made from galvanised steel with machined working edges and flat sides. For precise alignment of flanges in pipeline construction.



Flange Leveller

The GBC Flange Leveler for use on flange bolt holes from 16 mm and larger.



Hi-Lo Gauge

Measures pipe "Hi-Lo" and plate mismatch before and after weld tack up.



Centering Head

For setting centrelines and establishing angles for butt-ins etc. Can be used on all pipes from 12 mm (1/2")



Pipe Wraps

An inexpensive tool for marking angles and straight lines around pipes. Made out of flexible gasket material, with good resistance to heat and cold.



Flange Pins

Set of two pins work as convenient reference points to level flanges.



Fillet Gauge

Stainless steel fillet gauge for measuring a range of fillet weld dimensions



Flange Spreaders

Flange Spreaders gently separate flanges for the replacement of the flange gasket or the reapplication sealant to the flange face.

Attaches to the flange mounting holes and spreads the flange faces without the risk of damage to the flange sealing faces





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