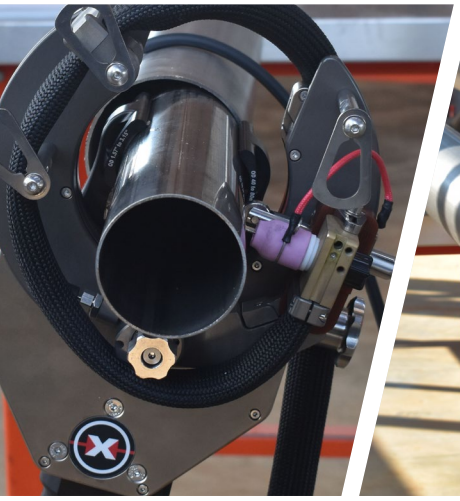
ORBITAL WELDING SOLUTIONS

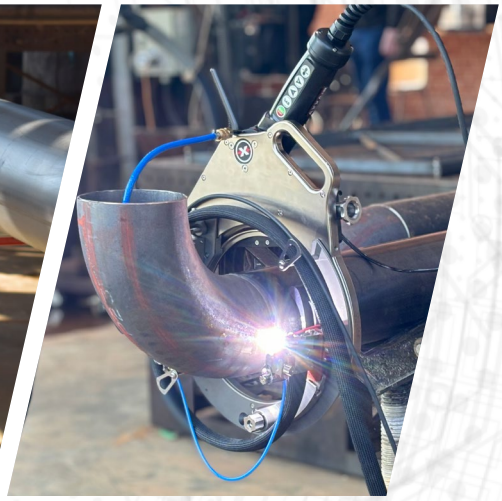
OPEN WELD HEADS OX SERIES

0.75 - 6.625" o/d / 19 - 170 mm o/d

NEW !







SCAN QR CODE
TO WATCH VIDEO

AXXAIR
AN SPE GROUP BRAND

PRODUCT BROCHURE

www.AXXAIR.com

INTRODUCING THE S.F.E. GROUP

*The **Specialized Fabrication Equipment Group** (in short: **S.F.E. Group**) was founded in 2019 after the merger of three world leading OEM's in the field of pipe fabrication tooling and machinery: B&B Pipe and Industrial Tools LLC (USA), Mathey Dearman Inc. (USA) and TAG Pipe Equipment Specialists (UK). In a time span of 5 years, another 4 renowned and market leading companies were acquired and added to the **S.F.E. Group** portfolio: Axxair (France, 2022), Magnatech (USA, 2023), Climax (USA, 2023) and Sumner (USA, 2025).*

*The vision and philosophy of the **S.F.E. Group** is to offer globally a comprehensive innovative and cost-effective range of specialized fabrication, welding and machining equipment and derived rental solutions, for a wide range of applications within all critical industries, while optimizing performance, efficiency and safety.*

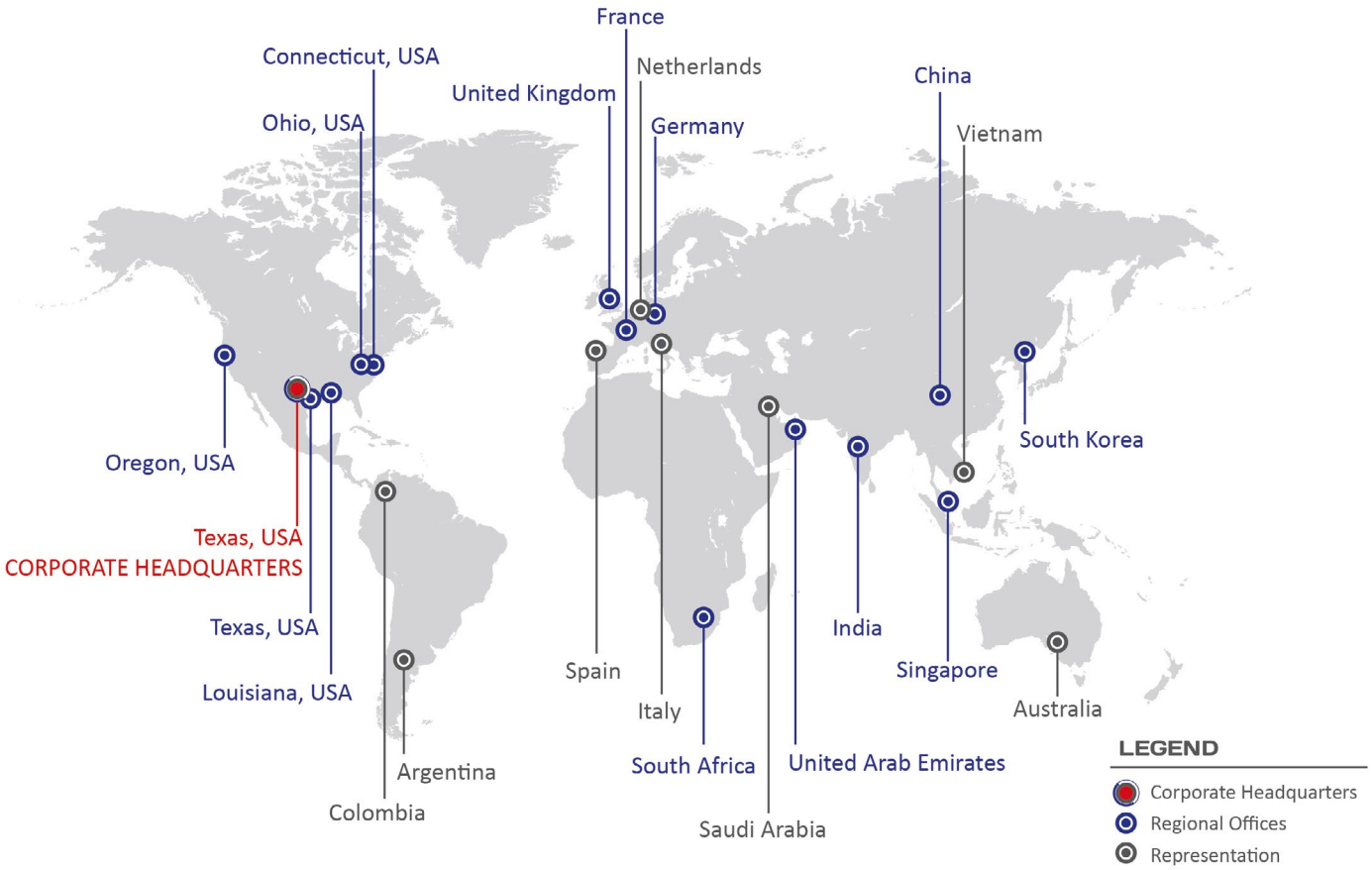
*Leveraging over 200 years of combined experience in engineering, manufacturing, and field applications, the **S.F.E. Group** is committed to driving innovation. Through continuous product development and strategic acquisitions, the **S.F.E. Group** is actively growing its portfolio and expanding its global presence to meet the demands of industries around the world. Currently, the **S.F.E. Group** consists of 12 complimentary brands, each supporting the others in delivering cutting-edge solutions.*

*With offices and warehousing on 5 continents, 400+ employees and more than 500 partnerships and distributors worldwide, **S.F.E. Group** prides itself on consistently offering the highest standards of both product quality and service locally to all its customers.*

S.F.E. Group looks forward to welcoming you into its global network as a partner, distributor or end user customer and remains at your disposal at any time.

Contact Americas: sales@sfe-brands.com
Contact International: sales-int@sfe-brands.com

S.F.E. GROUP GLOBAL PRESENCE



INTRODUCING *AXXAIR*

*Originally founded in 1997, the brand **AXXAIR** encompasses within S.F.E. Group the overall tube working processes: orbital cutting, tube bevelling, squaring and orbital GTAW welding.*

*The **AXXAIR** brand has been in the global market for nearly 30 years and has established itself as a leading and international reference on the field of tube processing applications. **AXXAIR** offers innovative solutions to improve processes, productivity, efficiency and quality in the field of orbital cutting, bevelling and welding on a wide variety of different materials such as stainless steel, titanium, carbon steel, duplex and super duplex stainless steel, nickel alloys and even plastic.*

*Within the **AXXAIR** range S.F.E. Group not only offers a standard range of products, but also customized solutions for specific target markets: the food and beverage industry, aerospace, pharmaceuticals, the manufacturing of semi-conductors, aeronautics, chemical and petrochemical industry as well as the nuclear industry and many other possible areas of application.*

*The S.F.E. Group **AXXAIR** brand portfolio consists of a **complete range of orbital cutting machines** (0.25 - 40" / 5 - 1,016 mm), **orbital bevelling machines** (0.6 - 12.75" / 15 - 328 mm o/d), **squaring machines** (0.1 - 8.5" / 3 - 220 mm o/d), as well as **welding machines**: **prefabrication welding solutions** (0.5 - 12.75" / 12 - 328 mm o/d), **SATO and OX open heads** (0.4 - 8.265" / 10 – 220 mm o/d), **SATFX closed heads** (0.25 - 6.625" / 38 - 170 mm o/d), the **Microfit welding X- and SAMX-ranges** (0.118 - 1" / 3 - 25.4 mm o/d), and finally the **SATP tube to tube sheet** (0.47 - 3.23" / 12 - 82 mm o/d) application. In addition, the portfolio includes multi-brand compatible orbital welding solutions, such as AMX closed heads and adapter kits, designed for compatibility with other major industry brands.*

*Being a patented manufacturer of orbital tube and pipe processing machines, **AXXAIR** is constantly exploring new concepts in the field of orbital tube cutting, pipe bevelling, and GTAW orbital welding.*

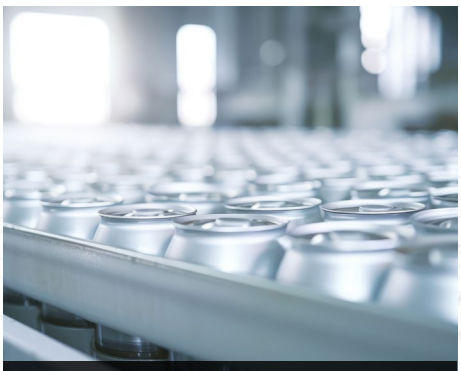
***AXXAIR** products are always nearby available within the S.F.E. Group global network and can be consulted on the dedicated website: **www.AXXAIR.com**.*

INDUSTRIES SERVED

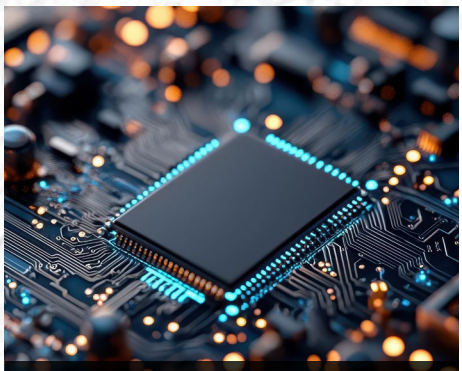

AEROSPACE & AERONAUTICS


BIOTECHNOLOGY & LIFE SCIENCES


CHEMISTRY


FOOD & BEVERAGE


PHARMACEUTICAL


SEMICONDUCTOR

OUR BRANDS

CLIMAX · TAG PIPE EQUIPMENT SPECIALISTS · H&S TOOL · MATHEY DEARMAN · AXXAIR · MAGNATECH · B&B SUMNER · CALDER · BORTECH · PPM PIPE PURGE MASTERS · FIT-UP PRO · SUMNER MATERIAL LIFTS

Our group policy is one of continuous improvements and acquisitions. Products and data tables are subject to change and may vary from those illustrated. Copyright © 2026 Specialized Fabrication Equipment Group, All rights reserved.

OPEN ORBITAL WELD HEADS OX SERIES (FUSION / FUSION + WIRE)

NEW !

0.75 - 6.625" o/d / 19 - 170 mm o/d

Water cooled

- **Function:** Orbital TIG welding with or without filler metal
- **Materials:** All types of steels and exotic alloys
- **Powered by the SAXX power source**

Experience a new level of performance and versatility with the OX range of open orbital welding heads — engineered to combine compactness, strength, and rigidity in a single integrated system. Designed for evolution, the OX heads enable seamless integration of accessories and options to meet diverse application requirements. Suitable for both on-site and workshop use, these welding heads deliver precision, reliability, and adaptability across a wide range of materials and environments.

Thanks to a modular design, the OX heads provide exceptional welding quality even in confined spaces. Available in three models — OX-3000, OX-4500, and OX-6625 — the range covers diameters from 0.75 to 6.625" (19-170 mm) ensuring high productivity and consistent results across industrial applications.

The OX range is available in configuration to weld with or without wire, providing maximum flexibility to suit your specific welding processes and production needs.

MAIN FEATURES

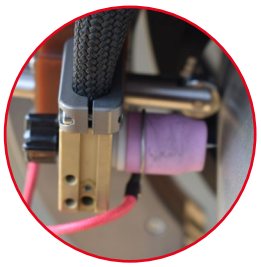
- **Three available sizes: OX-3000 / OX-4500 / OX-6625**
- Very wide operating range: ideal for diverse welding requirements
- New water-cooled 8m (26ft) welding torch: ensures high heat resistance and durability
- Simplified setup: single key accessory installation and adjustment, no tools required for adjustments during welding

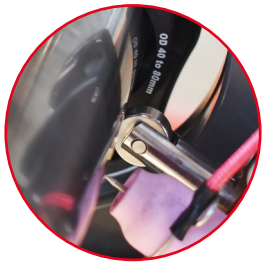


STRONG CLAMPING SYSTEM
Ensures excellent stability during welding



PRECISE AXIAL/ RADIAL AND ANGULAR ALIGNMENT OF THE ELECTRODE
knob system without tool requirement





PRECISE OD MECHANICAL PROFILE TRACKING
Guarantees consistent weld quality

TILTABLE TORCH
Provides enhanced flexibility for fillet weld applications such as socket and flange welds



ERGONOMIC HANDLE WITH REMOTE CONTROL
Start/stop, electrode rotation, gas, wire feeding set up





DELIVERY & STORAGE

- Delivered in shockproof case
- Includes additional foam designed to accommodate the machine (motor with the angle gearhead module).

OPTIONS



ANGLE GEARHEAD MODULE
adaptable motor configurations for various installation options

Machine configurations with the angle gearhead module *



** See the table on the next page for all possible configurations depending on the model.*

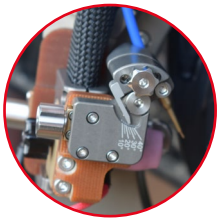


CLUTCH MODULE
enables manual rotation of the welding torch by the operator



EMBEDDED WIRE MODULE *
for all standard wire spools (up to 1kg, 2 lbs)

*available on OX-4500 and OX-6625 models



WIRE GUIDE *
Tool free wire position adjustment during welding, with angle indicator.

*must be used with the embedded wire module or the external wire feeder

MODELS

OX-3000	OX-4500	OX-6625
		
TUBE O/D RANGE: **0.75 - 3" / 19 - 80 mm**	**TUBE O/D RANGE:** **0.75 - 4.5" / 19 - 115 mm**	**TUBE O/D RANGE:** **1.5 - 6.625" / 38 - 170 mm**

POWER SOURCE

SAXX-201	SAXX-200	SAXX-210	SAXX-300
			
Orbital TIG welding power source **200A, 110 - 220v** *with cooling system*	**Orbital TIG welding power source** **200A, 110 - 220v** *with cooling system*	**Orbital TIG welding power source** **210A, 110 - 220v**	**Orbital TIG welding power source** **300A, 400v**

OX SERIES TECHNICAL FEATURES

DESCRIPTION	MEAS.	OX-3000	OX-4500	OX-6625
Diameter range	mm (o/d)	19 - 80	19 - 115	38 - 170
	inch (o/d)	0.75 - 3	0.75 - 4.5	1.5 - 6.625
100% duty cycle	Amps	200	200	200
Diameter electrode	mm	1.6 or 2.4	1.6 or 2.4	1.6 or 2.4
	inch	1/16 or 3/32	1/16 or 3/32	1/16 or 3/32
Cooling system	-	Yes	Yes	Yes
Recommended maximum operating temperature	°C	40	40	40
	°F	104	104	104
Unit weight*	kg	8.13	9.18	11.41
	lbs	17.63	19.84	24.25

**Weight of the machines including the welding cable*

ACCESSORY COMPATIBILITY

ACCESSORIES	OX-3000	OX-4500	OX-6625
Angle gearhead module **(OX-AG1)**	●	●	●
Clutch **(OX-CLU1)**	●	●	●
Angle gearhead + clutch **(OX-AG1 + OX-CLU1)**	●	●	●

ACCESSORIES NEEDED FOR OX OPEN HEAD WITH WIRE

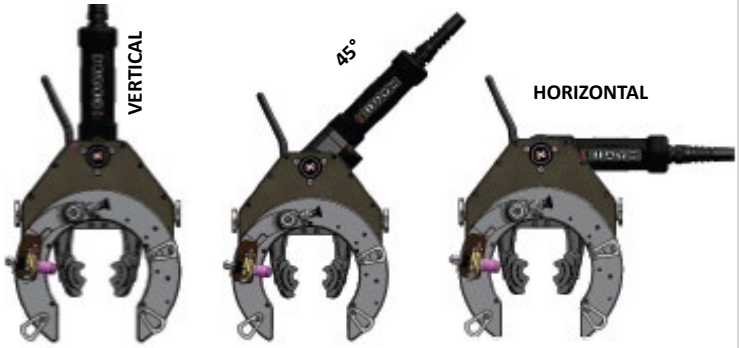
Embedded wire module + wire guide **(OX-WF1 + OX-WG1)**	-	●	●
External wire feeder + wire guide **(SADF2X + OX-WG1)**	●	●	●

POSSIBLE CONFIGURATIONS WITH ANGLE GEARHEAD MODULE (WITH OR WITHOUT CLUTCH)

ACCESSORIES / POSITIONS	OX-3000			OX-4500			OX-6625		
	Vertical	45°	Horizontal	Vertical	45°	Horizontal	Vertical	45°	Horizontal
Angle gearhead module **(OX-AG1)**	●	●	●	●	●	●	●	●	-
Angle gearhead + clutch **(OX-AG1 + OX-CLU1)**	●	●	-	●	●	-	●	●	-



STANDARD POSITION (WITHOUT THE ANGLE GEAR MODULE)



ANGLE GEARHEAD MODULE



The angle gearhead module mounts directly onto the body of the open welding head, significantly reducing the size of the machine to work in confined areas.

Depending on the model and configuration, the module can be installed in vertical, 45°, or horizontal positions, ensuring optimal adaptability to every welding setup.

PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
OX-AG1	Angle gearhead module	0,430 kg	0.95 lbs	6.5 x 6.5 x 8 cm	2.6 x 2.6 x 3.2"

CLUTCH MODULE



The clutch module allows the operator to manually wind the welding cables.

Designed for reliability and ease of use, the clutch module mounts directly onto the motor and can be combined with the OX-AG1 angle gearhead module.

PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
OX-CLU1	Clutch module	0.427 kg	0.94 lbs	6.5 x 6.5 x 8 cm	2.6 x 2.6 x 3.2"

EMBEDDED WIRE MODULE *



The embedded wire module positions the filler wire spool as close as possible to the weld, ensuring optimal feed stability and precision. It must be associated with the wire guide (Part No. OX-WG1).

A standard wire spool up to 1 kg (2 lbs) (Ø 100 mm) can be mounted directly onto the rotating plate of the machine, minimizing wire path length and improving overall weld quality.

PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
OX-WF1	Embedded wire module	1.59 kg	3,5 lbs	30 x 30 x 15 cm	11.8 x 11.8 x 5.9 "

**available on OX-4500 and OX-6625 models*

WIRE GUIDE *



The wire guide ensures precise positioning of the filler wire as it enters the weld pool, delivering consistent and accurate results. The wire guide, supplied for wires from Ø 0.8 (0.030") up to Ø 1.2 mm (0.045"), is attached to a movable support, allowing fine adjustment of the wire's entry point through a simple set of control knobs.

A visual indicator displays the wire exit angle from 0° to 45°, enabling accurate and repeatable positioning.

All installation and adjustment operations can be performed quickly and easily using the supplied 3.0 mm T-wrench ensuring straightforward setup and optimal alignment.

**Compatible with embedded wire module (Part No. OX-WF1) and external wire feeder (Part No. SADF2X)*

PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
OX-WG1	Wire guide	0.121 kg	0.267 lbs	6.5 x 6.5 x 8 cm	2.6 x 2.6 x 3.2"

EXTERNAL WIRE FEEDER

- Cable length 5 m max / 16 ft
- Supplied with SAXX power source-connection cable and teflon sheath to guide the wire
- Drive pressure adjusted by adjustable spring, with handle.



PART NO.	DESCRIPTION	WEIGHT		DIMENSIONS	
SADF2X	External wire feeder for SAXX	12 kg	26 lbs	59.7 x 38.4 x 24 cm	23.5 x 15.1 x 9.4"

CABLE EXTENSIONS

Cable extensions are available to increase the operating distance between the welding head and the SAXX power source.



WITHOUT WIRE

PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
SAFS-05MX	5m / 16.4 ft extension cable water cooling - without wire	7 kg	15.4 lbs	40 x 59 x 25 cm	16 x 23 x 10"
SAFS-10MX	10 m / 32.8 ft extension cable water cooling - without wire	14 kg	30.9 lbs	40 x 59 x 25 cm	16 x 23 x 10"

WITH WIRE

PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
SAFS-05MXF	5m / 16.4 ft extension cable water cooling - with wire	7 kg	15.4 lbs	40 x 59 x 25 cm	16 x 23 x 10"
SAFS-10MXF	10 m / 32.8 ft extension cable water cooling - with wire	14 kg	30.9 lbs	40 x 59 x 25 cm	16 x 23 x 10"

AXXAIR
INNOVATIVE ORBITAL SOLUTIONS

OX SERIES CONSUMABLES

ELECTRODES

- Tungsten electrodes
- AXXAIR's electrodes are specifically sharpened at 20° with a flat



PART NO.	DIAMETER ELECTRODES	DESCRIPTION	WEIGHT		DIMENSIONS	
SCE16-50	1.6 mm 1/16"	Box of 10 tungsten electrodes, diameter 1.6 mm (1/16"), length 50 mm	0.02 kg	0.044 lbs	5.5 x 4.5 x 1 cm	1.97 x 1.57 x 0.39"
SCE24-50	2.4 mm 3/32"	Box of 10 tungsten electrodes diameter 2.4 mm (3/32"), length 50 mm	0.05 kg	0.11 lbs	5.5 x 4.5 x 1 cm	1.97 x 1.57 x 0.39"

CONSUMABLES KIT

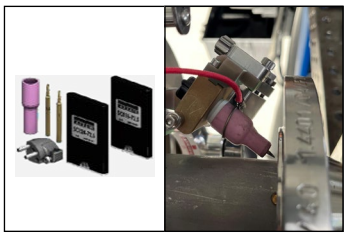
This kit consists of: 4 long nozzles and 2 short nozzles, 4 electrode clamps, 20 electrodes, Ø 1.6 and 20 Ø 2.4 electrodes, 2 teflon rings, 1 short cap type 9/20 and 1 FACOM screwdriver



PART NO.	DIAMETER ELECTRODES	DESCRIPTION	WEIGHT		DIMENSIONS (PLASTIC BOX)	
SKTO-01	1.6 or 2.4 mm 1/16 or 3/32"	Spare parts kit for straight torch diameter 1.6 mm or 2.4 mm	0.3 kg	0.66 lbs	12 x 17.5 x 4 cm	4.7 x 7 x 1.6"

FLANGE WELDING KIT WITH LONG ACCESSORIES

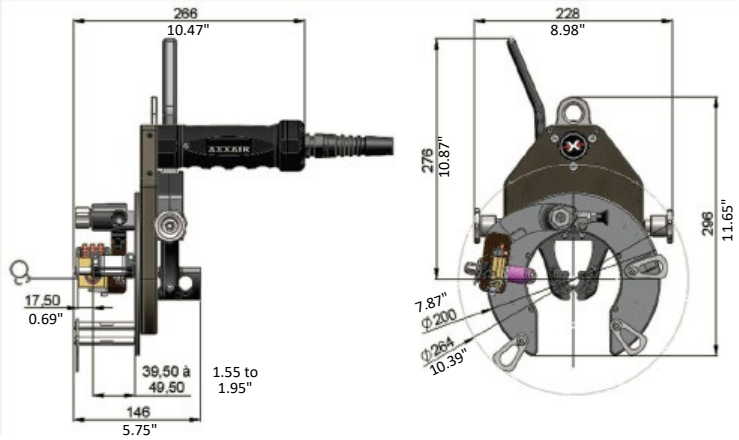
The kit includes 1 ceramic welding nozzle, 3 extended wire feed nozzles, and 2 boxes of electrodes (Ø 1.6 mm and Ø 2.4 mm).



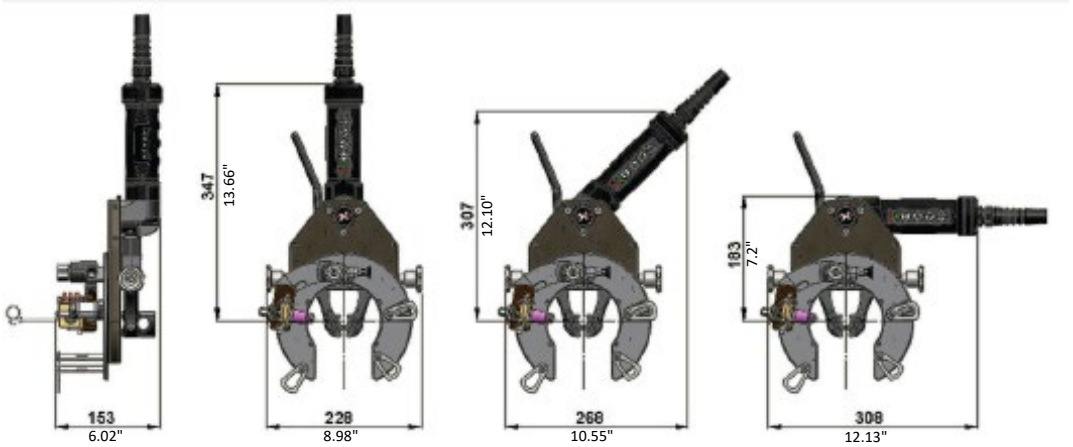
PART NO.	DESCRIPTION	WEIGHT		PACKAGING DIMENSIONS	
OX-KIT1	Flange welding kit	0,1 kg	0.22 lbs	10 x 10 x 2.5 cm	3.9 x 3.9 x 0.98"

DIMENSIONS (MM/INCH)

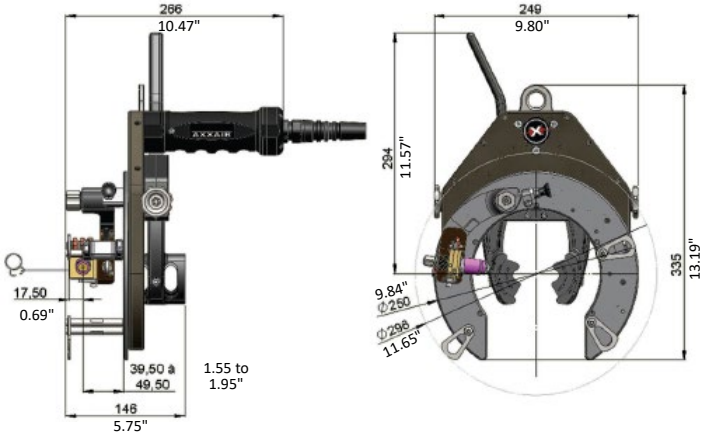
OX-3000



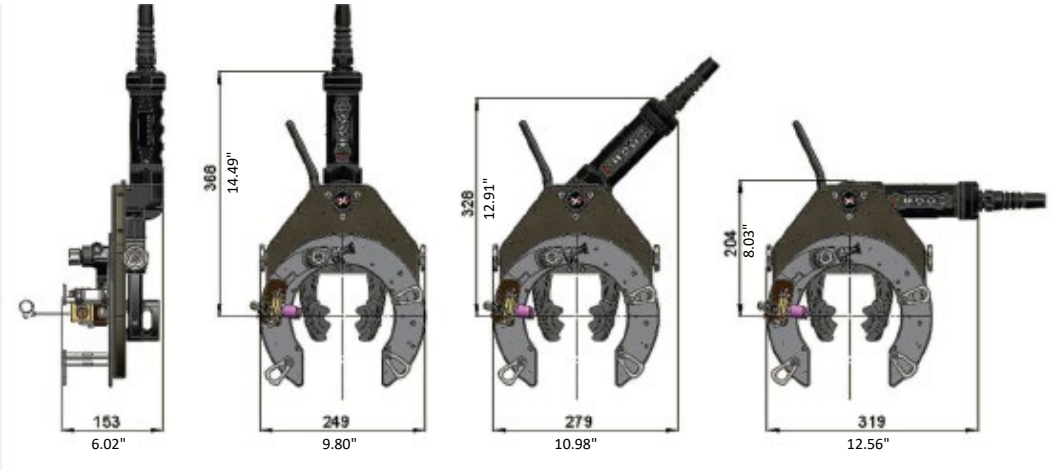
OX-3000 with angle gearhead module



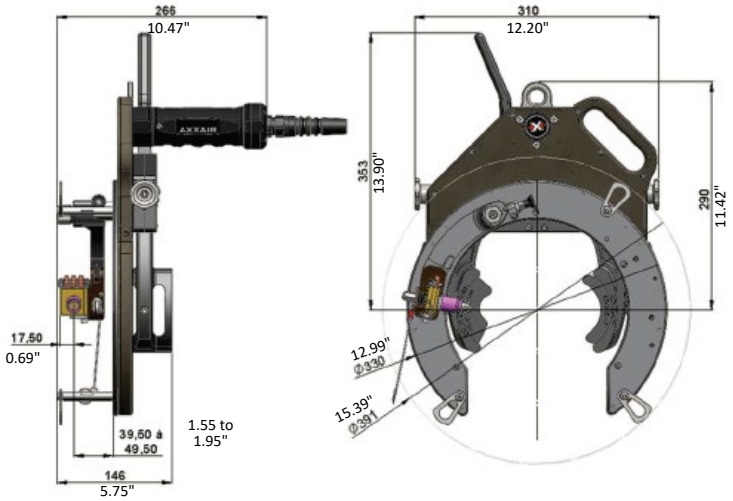
OX-4500



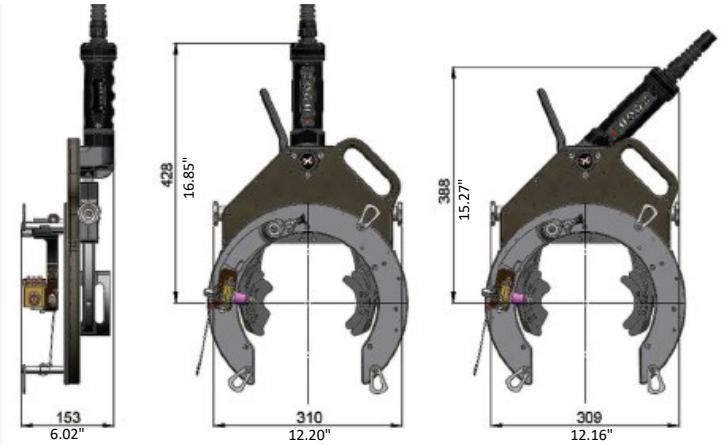
OX-4500 with angle gearhead module



OX-6625

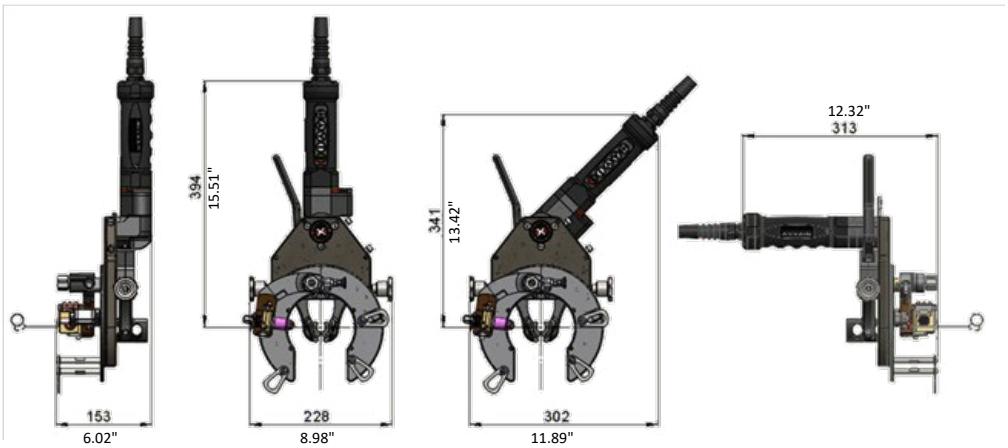


OX-6625 with angle gearhead module

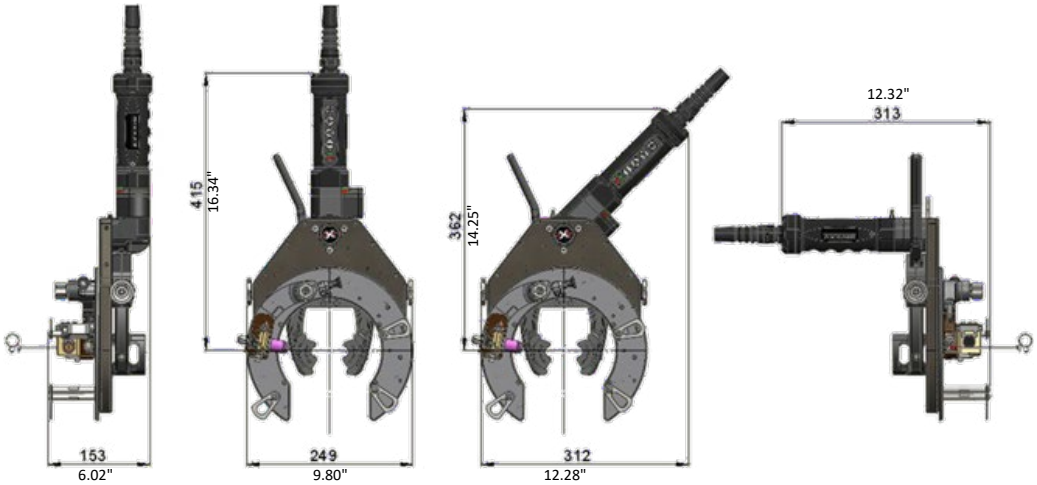


DIMENSIONS WITH CLUTCH MODULE (MM/INCH)

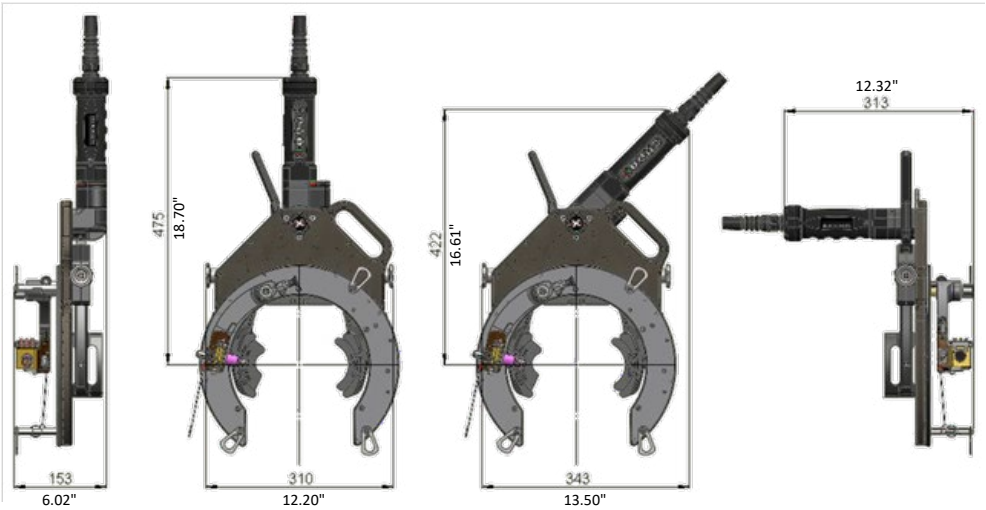
OX-3000



OX-4500



OX-6625





GLOBAL LEADER IN SPECIALIZED MACHINING, WELDING AND FABRICATION EQUIPMENT

SPECIALIZED FABRICATION EQUIPMENT GROUP

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