



Enclosed weld heads provide complete inert gas protection of the full weld bead circumference (an industry requirement for producing welded joints in electro-polished and hygienic applications).

Collets are required for each tube diameter to be welded.

Cold wire feed is not possible.

Welding will be made after preparation of the tube ends to provide a flat, square face.

During welding the weld head remains static, only the rotor carrying the electrode rotates in an 'orbital' motion around the tube (90° saw cut, if necessary square off).

Advantage: Compact size for use in restricted space environments.

**MICROFIT WELD HEAD OSK 13 S**

**NEW!**

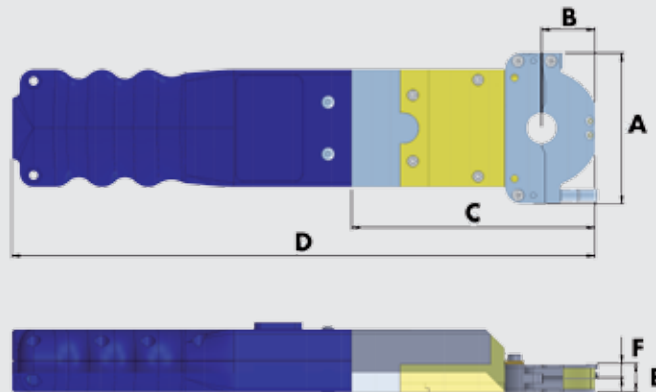
Gas-cooled weld head for applications with extreme narrow space requirements as e.g. in the semiconductor industry. Specially designed to weld micro-fittings. Unique construction, including specifically directed gas routing to improve gas coverage and material selection resulting in a high duty cycle even without water cooling.

- Extreme narrow / compact design
- Simple design allows easy to maintain
- Handle with control element (start/stop kit with status display)
- Arc Machines Model 9-500 cassettes will fit too

**1.3.4000**

Weld head type:	Tube size Range mm	inch	Weight
<b>OSK 13 S</b>	OD 3.17 – 12.7mm	0.125" – 0.500"	2.4kg

**Dimension Sheet Enclosed Weld Heads OSK 13 S**



Weld head type	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
OSK 13 S	64	2.520	22.7	0.894	103.3	4.067	277.5	10.925	12	0.472	6	0.236

**OSK 13 S MICROFIT CLAMPING CASSETTE**

For welding with extreme narrow space requirements

**NEW!**

- Orbitec TCA clamping cassette, width 12mm (0.472inch)
- Clamping cassette compatible with Arc Machines, model 9-500
- Cassette can be mounted in either direction (left or right hand)

**1.3.4001+Ø**

## ENCLOSED WELD HEADS

OSK CS/CW, HANDLE AND CABEL ASSEMBLY



Item number



### ENCLOSED WELD HEADS OSK CS (Compact Version) **NEW!**

Our latest series of 2 gas-cooled and compact weld heads. They are for smaller outside diameters with a narrow handle for tighter access conditions.

Weld head type:	Field of application mm	inch	Weight
<b>OSK 21 CS</b>	OD 3.17 – 21.3mm	0.125" - 0.839"	0.8kg
<b>OSK 38 CS</b>	OD 3.17 – 38.1mm	0.125" - 1.500"	1.3kg

**1.0.2820**

**1.0.2920**

### OSK C HANDLE AND CABLE ASSEMBLY, 8m

Consisting of a handle with control element (start/stop with status display), weld head interface, motor, gearbox and tacho /encoder unit with 8m long cable.

**1.3.2003**

Optional:

### ADAPTERFLANGE OSK G OR S FOR C OR CS

Advantage: While using the flange the OSK C and CS heads can also get used with the OSK G and S handle and cable assembly.

**1.3.2011**

### WATER-COOLED WELD HEADS OSK CW **NEW!**

Our new generation of compact weld heads for high duty cycle requirements have water-cooled clamp housings and clamping levers.

Both OSK CW weld heads are operated using a sharable handle and cable assembly.

Weld head type:	Tube size Range mm	inch	Weight
<b>OSK 21 CW</b>	DA 3.17 – 21.3mm	0.125" – 0.839"	1.0kg
<b>OSK 38 CW</b>	DA 3.17 – 38.1mm	0.125" – 1.500"	1.4kg

**1.0.2820W**

**1.0.2920W**

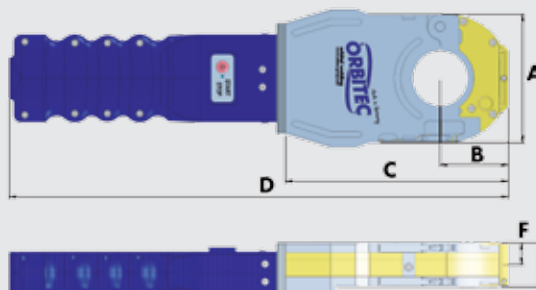
Only **one** drive unit is needed for all CW weld heads.

### OSK CW HANDLE AND CABLE ASSEMBLY, 8m **NEW!**

Consisting of a handle with control element (start/Stop kit status display), weld head interface, motor, gearbox and tacho/encoder unit with 8m long cable.

**1.3.2059**

### Dimension Sheet Enclosed Weld Heads OSK CS and CW



Weld head type	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
OSK 21 CS	70	2.756	40	1.575	150	5.906	370	14.567	33	1.299	17,5	0.689
OSK 38 CS	102	4.016	54	2.156	175	6.890	390	15.354	33	1.299	17,5	0.689
OSK 21 CW	70	2.756	39.5	1.555	146	5.748	365.5	14.390	35	1.378	17.5	0.689
OSK 38 CW	102	4.016	54	2.156	177	6.969	396	15.591	35	1.378	17.5	0.689

# ENCLOSED WELD HEADS

OSK S/SW, HANDLE AND CABLE ASSEMBLIES



Item number



## GAS-COOLED WELD HEADS OSK S **NEW!**

Our latest series of 3 gas-cooled weld heads technical optimized and in an new design covers the tube size ranges from 6mm – 114.3mm / 0.250" - 4.500".

Unique construction and material selection allows a high duty cycle even without water cooling.

The weld heads are one of the narrowest on the market and have a 'quick latch' system for retaining the collets.

Weld head type:	Field of application mm	inch	Weight
<b>OSK 53 S</b>	OD 6 – 53mm	0.250" – 2.087"	2.1kg
<b>OSK 76 S</b>	OD 6 – 76.2mm	0.250" – 3.000"	2.6kg
<b>OSK 115 S</b>	OD 9.53 – 114.3mm	0.375" – 4.500"	3.4kg

**1.0.2520**  
**1.0.2620**  
**1.1.2720**

## OSK S HANDLE AND CABLE ASSEMBLY, 8m **NEW!**

Consisting of a handle with controle element (start/stop kit status display), weld head interface, motor, gearbox and tacho/encoder unit with 8m long cable.

**1.3.2057**

Handle and cable assemblies of the OSK G and S heads are interchangeable!

## WATER-COOLED WELD HEADS OSK SW **NEW!**

For the high duty cycle applications we also offer the gas-cooled S series weld heads in a water-cooled SW-version (the overall width remains unchanged).

Full water-cooling of the lower clamp housing. Also available as an upgrade for standard OSK S weld heads.

Weld head type:	Field of application mm	inch	Weight
<b>OSK 53 SW</b>	OD 6 – 53mm	0.250" – 2.087"	2.1kg
<b>OSK 76 SW</b>	OD 6 – 76.2mm	0.250" – 3.000"	2.6kg
<b>OSK 115 SW</b>	OD 9.53 – 114.3mm	0.375" – 4.500"	3.4kg

**1.0.2520W**  
**1.0.2620W**  
**1.1.2720W**

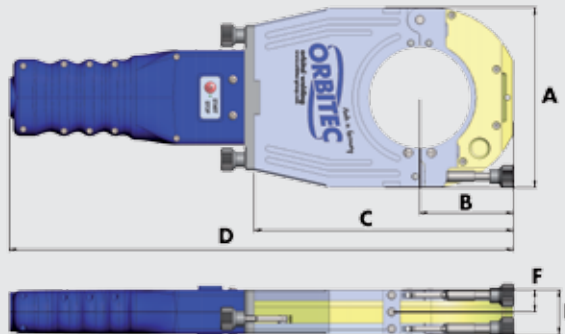
## OSK SW HANDLE AND CABLE ASSEMBLY, 8m **NEW!**

Consisting of a handle with controle element (start/stop kit status display), weld head interface, motor, gearbox and tacho/encoder unit with 8m long cable.

**1.3.2058**

Handle and cable assemblies of the OSK GW and SW heads are interchangeable!

## Dimension Sheet Enclosed Weld Heads OSK S and SW



Weld head	A		B		C		D		E		F	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
OSK 53 S / SW	130	5,118	70	2,756	205	8,071	425	16,732	40	1,575	20	0,787
OSK 76 S / SW	160	6,299	83	3,268	230	9,055	450	17,717	40	1,575	20	0,787
OSK 115 S / SW	200	7,874	103	4,055	270	10,630	487,5	19,192	40	1,575	20	0,787