



Tube cutting made easy!



Integrated line laser



Deformation-free clamping  
of thin-walled tubes



Cutting thin-walled  
stainless-steel tubes and  
elbows

# Portable Tube Saws PS

## Portable Tube Saws

- Lightweight and easily transportable machine (only 23 kg (PS 4.5) or 26 kg (PS 6.6)), to provide flexibility for on-site applications
- Deformation-free clamping of thin-walled tubes
- For cutting of thin-walled tubes and elbows
- No rework necessary because of a burr-free and square cut
- Cold cutting process prevents corrosion
- Integrated line laser to identify the cut-off point
- Orbital cutting process saves time
- Multi-point clamping of the tube
- Fast adjustment of tube dimensions
- Long saw blade service life
- Press fitting saw blade combinations can be used\*

### PS 4.5, PS 6.6

Tube cutting made easy! Cutting thin-walled stainless-steel tubes and elbows using the superior “Planetary Cutting Technology”. Deformation-free clamping system by integrated clamping jaws made from coated cast aluminum for different tube diameters.

#### Machine comes with:

- 1 Portable Tube Saw PS 4.5 or PS 6.6
- 1 Set of cast aluminum clamping jaws
- 1 Durable storage and shipping case
- 1 Saw blade, already mounted on the PS-machine (Code 790 048 072)
- 1 Tool bag equipped with tools
- 1 Tube of saw blade lubricant GF TOP (Code 790 060 228)
- 1 Set of operating instructions and spare parts list



PS 4.5



PS 6.6

Application range	PS 4.5	PS 6.6
Tube OD	6 - 120 mm 0.236 - 4.724 inch	50** - 170 mm 1.969** - 6.693 inch
Elbow OD	30 - 120 mm 1.181 - 4.724 inch	50** - 170 mm 1.969** - 6.693 inch
Wall thickness max.	< 3 mm < 0.118 inch	< 3 mm < 0.118 inch
<b>Technical data</b>	<b>Electric drive (single-phase AC motor)</b>	
Dimensions	480 x 230 x 600 mm 20.9 x 9.1 x 23.6 inch	480 x 230 x 660 mm 20.9 x 9.1 x 26 inch
Power	1100 W 1.5 hp	1100 W 1.5 hp
Protection class	Protection isolated class II, DIN VDE 0740	
Speed	30 - 165 rpm	30 - 165 rpm
Vibration level (EN 28662, part 1)	< 2.5 m/s <sup>2</sup>	< 2.5 m/s <sup>2</sup>
Noise level at the workplace	approx. 78 dB (A)	approx. 78 dB (A)

\* Only with saw blade/bevel cutter combinations of Orbitalum Tools: Code 790 044 046 or 790 044 047. Especially for stainless steel press fitting systems. Consisting of one saw blade and one bevel cutter. It is possible to order the individual parts separately. Workable wall thickness: 1 - 2 mm (0.039 - 0.079 inch), beveling angle: 45°/70°, height of bevel: max. 0.4/1 mm (0.016/0.039 inch).

\*\* It is possible to cut tubes with a outer diameter min. 30 mm (1.181 inch) with the PS 6.6 by using additional clamping jaws (accessory, Code 790 048 380). These clamping jaws are delivered as a standard with the PS 4.5.

Article	Version	Code	Weight of machine kg	Dispatch weight kg
PS 4.5	230 V, 50/60 Hz EU	790 048 001	23.600	37.000
PS 4.5	110 V, 50/60 Hz EU	790 048 002	23.600	37.000
PS 4.5	120 V, 50/60 Hz US	790 048 003	23.600	37.000
PS 6.6	230 V, 50/60 Hz EU	790 049 001	26.300	41.000
PS 6.6	110 V, 50/60 Hz EU	790 049 002	26.300	41.000
PS 6.6	120 V, 50/60 Hz US	790 049 003	26.300	41.000

## Accessories for PS machines

### Quick-mounting plate with screw clamps

**Quick and easy mounting of the machine to the bench with no drilling.**  
Including 4 socket head screws to fix the PS to the quick-mounting base plate.

Article	Code	kg
Quick-mounting plate with screw clamps	790 048 334	2.600



Quick-mounting plate with screw clamps

### Saw blades

**Performance range for high-alloy steels (stainless steel).**  
Recommended saw blades for the Portable Tube Saws PS 4.5 and PS 6.6.

Version	Tube wall thickness [mm]	Tube wall thickness [inch]	Saw blade Ø [mm]	Saw blade Ø [inch]	Code	kg
Performance	1.0 - 3.0	0.039 - 0.118	63	2.480	790 048 072	0.035
Performance	0.6 - 1.2	0.024 - 0.047	63	2.480	790 041 036	0.027



Saw blade Performance

### Tripod

**Made of stainless steel.**  
For easy mounting of PS machines directly on the tripod with no base plate.  
Space saving – fast application – easy handling.

Article	Code	kg
Tripod	790 048 335	10.600



Tripod

### Clamping jaws replacement set

**Made from coated cast aluminum. Extends the dimension range of the PS 6.6 to OD min. 30 mm (1.181 inch).**

Article	Code	kg
Clamping jaws replacement set for PS 4.5 and extension jaws for PS 6.6	790 048 380	2.030



Clamping jaws replacement set

### Laser retrofitting kit

**Line laser to identify the cutting point on the tube.**  
Easy mounting on the swivel on the PS machines. Kit contains 1 line laser, 1 laser holder with 2 fixing screws, replacement batteries, 1 set of assembly instructions.

Article	Code	kg
Laser retrofitting kit for PS 4.5 and PS 6.6	790 048 060	0.150



Laser retrofitting kit