PS 4.5 Plus (battery)

Portable pipe saw (electric/battery)

The PS saw from Orbitalum Tools is a mobile, powerful, and flexible pipe cutting machine for use on construction sites. This pipe saw impresses not only with its burr-free, right-angled, and deformation-free cutting results, but also with its low machine weight. At the same time, its ease of use and unbeatable price are particularly important to users.



The PS machine can be assembled quickly and space-savingly and can be easily transported and operated by one person

- **Integrated line laser for marking cutting points** ✓
- **Feeding and sawing in a single operation** ✓
- **High quality and long service life thanks to robust sliding elements** ✓
- **Mobility thanks to low machine weight, making it ideal for flexible use on the construction site** ✓
- **Deformation-free clamping thanks to integrated reversible clamping jaws** ✓
- **For cutting thin-walled pipes and cutting tube elbows** ✓
- **No reworking required thanks to burr-free and right-angled cuts** ✓
- **Electric versions with speed-controlled electric motor with speed stabilization** ✓
- **Battery versions with powerful and environmentally friendly lithium-ion technology** ✓

Cutting thin-walled stainless steel pipes and tube elbows using the "planetary cutting principle" – easier than ever before! The PS 4.5 Plus (23 kg) is one of the lightest machines available on the market for this application.

"Increased safety thanks to stationary pipe – rotating tool." The proven "planetary cutting" method is an important feature that characterizes ORBI-TALUM pipe saws. The saw blade plunges into the cut and is guided orbitally around the pipe. The advantage of this is that a large tube diameter can be cut with a small saw blade without heating the pipe.
As with most Orbitalum pipe saws, the cutting point on the pipe can be conveniently marked using a line laser. A second saw blade clamping point allows tube elbows to be cut.

The powerful motor is equipped with overload protection and is available in 230 V, 120 V, and 110 V, 50/60 Hz voltage variants.
The machine head and the self-centering clamping block are made of high-quality aluminum alloys that meet the highest construction site requirements.
The machine and accessories are delivered in a handy transport case – the battery version includes a 230-volt charger for the European market or a 110-volt charger for the US market.

Additional advantages:

- Corrosion prevention through cold machining process
- Integrated line laser for marking cutting points
- Time savings thanks to orbital cutting process
- Multi-point clamping of the pipe
- Quick adjustment of the pipe dimensions
- Long tool life
- Use of press fitting saw blade combinations possible*
- Speed-controlled single-phase AC motor with restart lock

Battery version:

- Short overall length
- Lithium-ion technology
- High-performance brushless motor
- No memory effect
- Single cell monitoring in the battery pack
- Electronic overload protection with integrated temperature monitoring
- Robust battery packs with capacity indicator
- Low self-discharge
- Environmentally friendly
- AIR COOLED technology for short charging times and a long service life

** Only with Orbitalum saw blade/bevel cutter combinations code 790 044 046 or code 790 044 047. Especially suitable for pipes in metal press fitting systems. Consisting of one saw blade and one bevel cutter. Individual parts can also be ordered separately. Machinable wall thickness: 1-2 mm, chamfer angle: 45°/70°, chamfer height: max. 0.4/1.0 mm.*

Technical specification



Delivered in a hard-sided transport case with compartments for accessories, e.g., for the mounting plate, tools, and now also for the tripod (optionally available)



Self-centering vise made of high-quality aluminum alloy



Proven planetary cutting principle: The saw blade plunges into the cut and is guided orbitally around the pipe



Includes "Performance" saw blade (790048072) and GF TOP saw blade lubricant



Second saw blade position for cutting out tube elbows



Illustration: PS 4.5 Plus battery



Illustration: PS 4.5 Plus



Illustration: Integrated line laser for cut-off marking on the pipe

APPLICATION AREA		PS 4.5 PLUS	PS 4.5 PLUS BATTERY
Code	[230 V]	790048001	
	[110 V]	790048002	
	[120 V]	790048003	
	[230 V]		790048004
	[115 V]		790048005
OD Pipes	[mm]	6 - 120	
	[inch]	0.236 - 4.724	
OD Tube elbows	[mm]	30 - 120	
	[inch]	1.181 - 4.724	
Wall thickness min. - max.	[mm]	0.6 - 3.0	
	[inch]	0.024 - 0.118	

TECHNICAL SPECIFICATION		PS 4.5 PLUS	PS 4.5 PLUS BATTERY
Dimensions (LxWxH)	[mm]	480 x 230 x 600	480 x 420 x 450
	[inch]	20.9 x 9.1 x 23.6	18.9 x 16.5 x 17.7
Power	[W]	1100	-
	[hp]	1.5	-
Protection class (DIN VDE 0740, protective insulation)	[Class]	II	II (charger)
Speed	[rpm]	30 - 182	1st gear: 0 - 32 2nd gear: 0 - 118
Voltage Replaceable battery	[V]	–	18
Capacity replaceable battery	[Ah]	–	4.0
Vibration level (DIN EN 28662, Part 1)	[m/s2]	< 2.5	< 2.5
Sound pressure level at the workplace approx.	[dB (A)]	78	78

The technical specification is non-binding. It does not constitute a guarantee of properties. Subject to change without notice.
** Line laser already mounted on the machine upon delivery*

SCOPE OF DELIVERY			
Portable Pipe Saw	PCS	1	1
Clamping jaws made of hardened cast aluminum	Set	1	1
Replacement batteries	PCS		2
Charger	PCS		1
Hard-sided transport case	PCS	1	1
Line laser*	PCS	1	1
Saw Blade (Code 790048072)	PCS	1	1
Tool bag incl. accessories (roll bag code 790048345)	ST	1	1
Saw Blade Lubricant GF TOP (Code 790060228)	Tube	1	1
General safety instructions Pipe cutting and beveling machines	PCS	1	1
Operating instructions & Spare parts list Download link PDF: https://www.orbitalum.com/DE/download.html	PDF	1	1

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Illustration: PS 4.5 Plus



Illustration: PS 4.5 Plus battery

ITEM	VERSION	CODE	KG	SHIPPING WEIGHT KG
PS 4.5 Plus	230 V, 50/60 Hz EU	790048001	23,60	39,50
PS 4.5 Plus	110 V, 50/60 Hz EU	790048002	23,60	39,50
PS 4.5 Plus	120 V, 50/60 Hz US	790048003	23,60	39,50
PS 4.5 Plus battery	230 V, 50/60 Hz EU	790048004	22,00	39,00
PS 4.5 Plus battery	115 V, 50/60 Hz US	790048005	22,00	39,00

Technical specification:

- Saw blades
- Accessories for GF, GFX and PS machines

Saw blades for PS 4.5 Plus (battery)

Performance series for high-alloyed steels (stainless steel).

Recommended saw blades (only Ø 63 mm/2.480") for the PS 4.5 Plus portable pipe saws (battery).

ARTICLE	VERSION	PIPE WALL THICK-NESS		SAW BLADE Ø		CODE	KG
		[mm]	[inch]	[mm]	[inch]		
Saw blade	Performance	1,0 - 3,0	0.039 - 0.118	63	2.480	790048072	0,035
Saw blade	Performance	0,6 - 1,2	0.024 - 0.047	63	2.480	790041036	0,027



Illustration: Sägeblatt Performance