

PS 4.5 Plus

Portable pipe saw (electric/battery)

Burr-free, right-angled and deformation-free cutting results, low weight and ease of use at an unbeatable price are the recipe for success of the PS 4.5 Plus. The proven mobile pipe cutting machine is now also available as a battery-powered version.

The PS machine can be mounted quickly and in a space-saving manner and can be transported conveniently and operated by one person



Integrated line laser for marking cut-off points	✓
Infeed 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 for cutting pipe bends	✓
No reworking required thanks to burr-free and right-angled cut	✓
Electric versions with speed-controlled electric motor with constant speed control	✓
Battery versions with powerful and environmentally friendly lithium-ion technology	✓

Cutting thin-walled stainless steel pipes and pipe bends using the "flat cutting principle" is easier than ever before! Weighing just 23 kg, the PS 4.5 Plus is already one of the lightest machines available on the market in this application area. With the new battery-powered version, it is now just 22 kg.

"Increased safety thanks to stationary pipe and rotating tool". The proven "planetary cutting" process is an important feature that characterizes ORBITALUM pipe saws. The saw blade plunges into the cut and is guided orbitally around the pipe. The advantage of this is that a large pipe diameter can be cut with a small saw blade without heating the pipe.

A second saw blade clamping point enables pipe bends to be cut. The powerful electric motor is equipped with overload protection and is available in the voltage variants 230 V, 120 V and 110 V, 50/60 Hz. The chargers for the new battery versions are available in 230 V for the European market or 110 V for the US market.

FURTHER ADVANTAGES:

- The rotating body and the self-centering vice are made of high-quality aluminum alloys
- Corrosion prevention through cold machining process
- Multi-point clamping of the pipe
- Quick adjustment of the pipe dimension
- Long tool life
- Use of pressfitting-saw blade combinations possible*
- Speed-controlled single-phase AC motor with restart interlock
- Supplied in a handy transport case

ELECTRIC VERSIONS:

- Rotatable and removable drive
- Speed-controlled electric motor with speed stabilization
- Vario-Tacho-Constamatic (VTC) full-shaft electronics
- Setting wheel for preselecting the speed
- Robust Marathon motor

- Overload protection
- Cut-off carbon brushes
- Carbon wear indicator

BATTERY VERSIONS:

- Short overall length
- Lithium-ion technology
- Brushless motor with high performance
- No memory effect
- Individual 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 the Orbitalum saw blade bevel cutter combinations, Code 790 044 046 or Code 790 044 047. Especially suitable for pipes of metal press fitting systems. Consisting of one saw blade and one bevel cutter each. Individual parts can also be ordered separately. Processable wall thickness: 1-2 mm, beveling angle: 45°/70°, beveling height: max. 0.4/1.0 mm.



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



Self-centering vice made of high quality aluminum alloy



Tried-and-tested planetary cutting principle: The saw blade immerses into the cut and is guided orbitally around the pipe



Including "Performance" saw blade (790 048 072) and saw blade lubricant GF TOP



Additional saw blade position for cutting off tube elbows



Tripod made of aluminum available optionally. Dismountable in few steps - for space-saving storage, e.g. in PS transport case

APPLICATION AREA		PS 4.5 Plus	PS 4.5 Plus battery
Code	[230 V]	790 048 001	
	[110 V]	790 048 002	
	[120 V]	790 048 003	
	[230 V]		790 048 004
	[115 V]		790 048 005
Outer Ø DO pipes	[mm]	6 - 120	
	[inch]	0.236 - 4.724	
Outer Ø DO 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 SPECIFICATIONS			
Dimensions	[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	1100
	[hp]	1.5	1.5
Protection class (DIN VDE 0740, protective insulated)	[Class]	II	II
Speed	[rpm]	30 - 182	1st gear: 0 - 32 2nd gear: 0 - 118
Vibration level (DIN EN 28662, Part 1)	[m/s ²]	< 2,5	< 2,5
Sound pressure level at the workplace approx.	[dB (A)]	78	78
SCOPE OF DELIVERY			
Portable pipe saw	PCS	1	1
Clamping jaws made of hardened cast aluminum	Set	1	1
Exchangeable batteries	PCS		2
Charger	PCS		1
Hard-sided transport case	PCS	1	1
Line laser*	PCS	1	1
Saw blade (Code 790 048 072)	PCS	1	1
Tool bag incl. accessories (roll-up case Code 790 048 345)	PCS	1	1
Saw blade lubricant GF TOP (Code 790 060 228)	Tube	1	1
Operating instructions with spare parts list	set	1	1



PS 4.5 Plus



PS 4.5 Plus battery



PS 4.5 Plus battery, side view

Technical specifications are non-binding. They do not constitute any assurance of properties. We reserve the right to make changes.

*Line laser already mounted at machine on delivery

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Properties, application area, technical specifications and delivery scope, see page 2.

ITEM	VERSION	CODE	MACHINE WEIGHT KG	SHIPPING WEIGHT KG
PS 4.5 Plus	230 V, 50/60 Hz EU	790 048 001	23.600	37.000
PS 4.5 Plus	110 V, 50/60 Hz EU	790 048 002	23.600	37.000
PS 4.5 Plus	120 V, 50/60 Hz US	790 048 003	23.600	37.000
PS 4.5 Plus battery	230 V, 50/60 Hz EU	790 048 004	22,000	
PS 4.5 Plus battery	115 V, 50/60 Hz US	790 048 005	22,000	



PS 4.5 Plus

Quick-mounting plate with screw clamps

Simple and rapid mounting at workbenches without drilling.
Incl. 4 hexagon socket head screws for mounting the PS on the quick-mounting plate.

ITEM	CODE	KG
Quick-mounting plate with screw clamps	790 048 334	2.600



PS 4.5 Plus battery

Saw blades

Performance series for high-alloyed steels (special steel).
Recommended saw blades (only Ø 63 mm/2.480") for the portable pipe saws PS 4.5 Plus.

ITEM	VERSION	PIPE WALL THICKNESS		SAW BLADE Ø		CODE	KG
		[MM]	[INCH]	[MM]	[INCH]		
Saw blade	Performance	1.0 - 3.0	0.039 - 0.118	63	2.480	790 048 072	0.035
Saw blade	Performance	0.6 - 1.2	0.024 - 0.047	63	2.480	790 041 036	0.027



Quick-mounting plate with screw clamps



Saw blade Performance



Tripod

Made of aluminum. Suitable for PS 4.5 Plus and GFX 3.0.
Simple mounting of the saws directly on the tripod without mounting plate.
Dismountable in a few steps. Storage in PS transport case possible. Space-saving - usable quickly - good handling.

ITEM	CODE	KG
Tripod for PS 4.5 Plus, GFX 3.0	790 048 390	7.400