

SHORT-INFO

P 4500

Our most powerful series.

- Ready for Speed
- EN 1090-certified
- Powerful
- Intuitive operation
- Quatromatic mode



At a glance

Ready for Speed

You can now finish your welding jobs even faster by taking advantage of Lorch's optional speed upgrades SpeedRoot, SpeedUp and SpeedCold as well as of the standard option SpeedArc.

Quatromatic

Quatromatic lets you save three individual parameter settings and select these in 4-step mode using the torch trigger.

Powerful

The 300 and 550 ampere models included in Lorch's P series are powerful enough to weld materials of all levels of thickness.

Versatility

Operating equally well with argon-CO₂ mixed gas and 100% CO₂, Lorch's P series is perfectly equipped for international use.

EN 1090-certified

As synergetic control and automatic setting control are built in, Lorch's P series is guaranteed to produce welding results that are in conformity with the EN 1090. Combine your machine with Lorch's special offer EN 1090 package, and you are ready to handle any welding task they can throw at you.

Fully customisable

Every welding machine included in Lorch's P series is fully customisable, allowing you to find the machine that matches your welding requirements perfectly.

Benefits

Compact

All machines of the Lorch P series with a power output of up to 550 amperes are also available with a compact housing. This space-saving design allows you to stow your unit under the workbench or use it as a storage surface for equipment that you can place on its top.

EN 1090-certified

The EN 1090 WPS package accompanying the Lorch P series helps you save time and money as it eliminates the need for individual tests of your welding results. The package is comprised of welding instructions that apply to all relevant standard welding processes and have been certified by an approved and independent authority.

Data documentation

Lorch's optional Q-Data recorder allows you to keep a firm eye on the quality standards your client wants you to observe and detect and avoid any errors before they become a problem.

remote control

Every Lorch P series system can be operated by remote control. Remote control can be exercised either using the Lorch Powermaster torch or an external operating panel. You can also connect a remote control if you want to operate the machine in electrode mode.

Case variants

Welders opting for the Lorch P series can select from three different case variants (300 mm wire reels). All three cases are optimally tuned to the conditions present at their location of use: the workshop case for standard applications, the protective tool case with separate wire feeder cover for increased mobility, and the exceptionally compact dockyard wire feeder for perfect accessibility.

Adaptable

Every Lorch P series system is fully customisable. This also holds true for the selection of the wire feeder systems. When ordering your machine, you can choose between a compact or wire feeder system and a dual wire feeder variant.

PushPull-ready

As it comes with PushPull capability built in, the Lorch P 4500 expands your working radius significantly when used in combination with a PushPull torch or a Lorch NanoFeeder.

Job tool

You can use your PC to access the power source to adjust job settings and transfer them to other power sources with no effort at all.

Protection all around

The various protective mechanisms incorporated into the Lorch P 4500 reliably protect it against such external influences as flying sparks or dust.

Energy-efficient

Lorch's P series marries performance with efficiency. Slash your energy costs and produce exceptional welding results at the same time.

Quatromatic

Quatromatic lets you save three individual parameter settings and select these in 4-step mode using the torch trigger.

Intuitive operation

The easy-to-read operating panel and the clearly structured user interface ensure that you are ready to start welding without having to make any additional preparations.

TipTronic

Using the TipTronic facility, you save your ideal setting for each weld so that you can effortlessly retrieve the settings one at a time using the Up-Down torch when performing recurring welding tasks.

Controlconcept

Basic

- "3 steps to weld" operating concept
- Including on-demand SpeedArc Basic
- Easy power and feed regulation
- Quatromatic mode
- Volt-ampere mode
- Connection for Powermaster remote torch control



Synergic

- "3 steps to weld" operating concept
- With automatic setting control
- Display-controlled user prompting
- Straightforward process and synergic line selection
- Quatromatic mode
- TipTronic
- Volt-ampere meter
- Connection for Powermaster remote torch control



Technical Data: P series**P 3000 mobile****P 3500****P 4500****P 5500**

MIG-MAG

Welding range (in A)	25-300	25-350	25-450	25-550
voltage setting	infinitely variable	infinitely variable	infinitely variable	infinitely variable

Duty cycle

duty cycle 100% 40 °C (in Amps)	250	260	360	400
duty cycle 60% 40 °C (in Amps)	280	300	400	500
duty cycle at max. current 40 °C (in %)	50%	30%	30%	30%

Feeder and wire

wire feed unit	4 rolls (2 driven)	4 rolls (2 driven)	4 rolls (2 driven)	4 rolls (2 driven)
weldable wires steel (in mm)	0,6-1,2	0,6-1,2	0,6-1,6	0,6-1,6
weldable wires aluminium (in mm)	1,0-1,2	1,0-1,2	1,0-1,6	1,0-2,4

Mains

mains voltage (in V)	400	400	400	400
phases (50/60 Hz)	3~	3~	3~	3~
positive mains tolerance (in %)	15%	15%	15%	15%
negative mains tolerance (in %)	15%	15%	15%	15%
mains fuse (in Amps)	16	16	32	35
mains plug	CEE 16	CEE 16	CEE 32	CEE 32

Dimensions and weights

dimensions (LxWxH) (in mm)	812x340x518	---	---	---
power source dimensions (LxWxH) A version (in mm)	---	1116x463x812	1116x463x812	1116x463x812
power source dimensions (LxWxH) B version (in mm)	---	1116x445x855	1116x445x855	1116x445x855
weight (in kg)	34	---	---	---
weight, power source A-version gas-cooled (in kg)	---	92,8	97,3	107,3

weight, wire feed case (workshop version) (in kg)	---	20,2	20,2	20,2
weight, water cooling (filled) (in kg)	---	14,7	14,7	14,7

Standards and approvals

standard	EN 60974-01	EN 60974-01	EN 60974-01	EN 60974-01
protection class (EN 60529)	IP23S	IP23S	IP23S	IP23S
insulation class	F	F	F	F
designation	CE, S	CE, S	CE, S	CE, S