

The P Series

SIMPLY WELDS EVERYTHING.

STRONG

Maximum power up to 550 amps.

FAST

Welds 30% faster thanks to SpeedArc

STABLE

Impressively stable arc over the entire current range



MIG-MAG

P SERIES

The P Series at a glance

- **Digital-intelligent process technology.** Whether you opt for the standard SpeedArc XT (P Basic with SpeedArc Basic) or the optional Lorch Speed upgrades SpeedRoot, SpeedUp and SpeedCold: you will weld faster and produce results of premium quality with little spatter.
- **Intuitive operation.** The easy-to-read operating panel and the clearly structured user interface afford you maximum ease of use and ensure that you are ready to start welding without having to make any additional preparations.
- **Versatility.** The machines included in Lorch's P-series operate equally well with mixed gas and CO₂.
- **Adaptable.** Every welding machine included in Lorch's P-series is fully customisable, allowing you to find the machine that matches your welding requirements perfectly. This also holds true for the selection of the wire feeder systems.
- **EN 1090-certified.** As synergic 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 WPS package, and you are ready to handle any welding task they can throw at you.



- **TipTronic job memory.** Use the TipTronic facility to save your ideal setting for each weld so that you can effortlessly retrieve your settings at the machine or the Powermaster torch when performing recurring welding tasks.
- **Job tool.** PC software for saving and editing welding tasks (jobs) stored in the welding machine along with their parameter settings and for transferring them to additional power sources.
- **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 variant comes with a feeder that is built into the machine. 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.

- **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.
- **PushPull.** As PushPull capability can easily be added, your working radius is significantly expanded when used in combination with a PushPull torch or a Lorch NanoFeeder.
- **Mobility.** Our mobile version of the P series with trolley wheel set will meet all your mobility needs as it allows you to both carry the unit and move it on its wheels.
- **Energy-efficient.** Lorch's P-series marries power with efficient inverter technology and on-demand functionality. Slash your costs and produce exceptional welding results at the same time.

Versions



P 3000 mobile	P 3500	P 4500	P 5500
Operating concepts <ul style="list-style-type: none">BasicXT	Operating concepts <ul style="list-style-type: none">BasicXT	Operating concepts <ul style="list-style-type: none">BasicXT	Operating concepts <ul style="list-style-type: none">BasicXT
Variants <ul style="list-style-type: none">available as gas or water-cooled option (separate cooling unit)also available with Mobile-Car transport trolley and water cooling unit	Variants <ul style="list-style-type: none">available as gas or water cooledavailable as a compact system or with separate wire feeder case	Variants <ul style="list-style-type: none">available as gas or water cooledavailable as a compact system or with separate wire feeder case	Variants <ul style="list-style-type: none">available as gas or water cooledavailable as a compact system or with separate wire feeder case
<ul style="list-style-type: none">Mobile system with trolley wheelsetinfinitely variable MIG-MAG welding inverterWelding range up to 300 AMains connection 400 V	<ul style="list-style-type: none">infinitely variable MIG-MAG welding inverterWelding range up to 350 AMains connection 400 V	<ul style="list-style-type: none">infinitely variable MIG-MAG welding inverterWelding range up to 450 AMains connection 400 V	<ul style="list-style-type: none">infinitely variable MIG-MAG welding inverterWelding range up to 550 AMains connection 400 V

Operating concepts



Basic

- “3 steps to weld” operating concept
- with SpeedArc
- Easy power and feed speed regulation
- Quatromatic mode (program sequence control at a push of the torch button)
- digital volt-ampere display
- Possibility for connection of the Lorch Powermaster remote control torch



XT

- “3 steps to weld” operating concept
- Synergy control with SpeedArc XT
- Display-controlled user prompting
- straightforward process and program selection
- Infinitely adjustable welding current setting
- Arc dynamic control (for Synergic, SpeedArc XT)
- Quatromatic mode (program sequence control at a push of the torch button)
- arc length can be adjusted specifically for starting, welding and end phases
- Tiptronic job memory for 100 welding tasks
- digital volt-ampere display
- Possibility for connection of the Lorch Powermaster remote control torch

Highlights

SpeedArc XT – deeply impressive

SpeedArc XT sets itself apart by its highly focused and incredibly stable arc combined with an high energy density that stands head and shoulders above any other comparable process. The increased arc pressure that flows into the SpeedArc XT weld pool adds a significant speed boost to MIG-MAG welding across the entire power range, making it faster, much easier to control and, consequently, much more economical. A weld prep angle of 40 degrees is entirely sufficient to weld a proper seam. This helps conserve both valuable time and precious material.

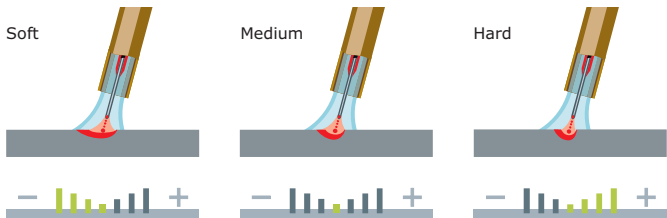


Quatromatic

- Quatromatic lets you save three individual parameter settings and select these in 4-step mode using the torch trigger.
- Quatromatic prevents cold lap at the start of the weld and provides optimum end crater filling. Because you can save three individual parameter settings (P1 – P2 – P3) with it and select these in 4-step mode using the torch trigger.

Innovative dynamic control

The P-series comes with innovative dynamic control, which makes it possible for the welder to fine-tune the arc characteristics for all welding programs (Synergic, SpeedArc XT) until they perfectly match the workpiece and the welding task at hand. A turn of the control knob is all it takes to set the arc to soft or hard or anywhere in between. For an even better seam and an extremely good feel whilst welding.



The dynamic control allows the welder to set the arc to any width he requires or prefers.

Technical data

		P 3000 mobile	P 3500	P 4500	P 5500
Welding current MIG-MAG	A	25 – 300	25 – 350	25 – 450	25 – 550
Current at 100 % duty cycle	A	250	260	360	400
Current at 60 % duty cycle	A	280	300	400	500
Duty cycle I max.	%	50	30	30	30
Mains voltage	V	3~400	3~400	3~400	3~400
Permitted mains tolerance	%	± 15	± 15	± 15	± 15
Mains fuse, delayed action	A	16	16	32	35
Dimensions compact system (L × W × H)	mm	812 × 340 × 518	1116 × 463 × 812	1116 × 463 × 812	1116 × 463 × 812
Dimensions wire feeder system (L × W × H)	mm	–	1116 × 445 × 855	1116 × 445 × 855	1116 × 445 × 855
Weight – compact system, gas-cooled	kg	34	92.8	97.3	107.3
Weight – wire feeder	kg	–	20.2	20.2	20.2
Weight – water cooling (filled)	kg	–	14.7	14.7	14.7

All wire feeder systems come with a 1 m inter-connection hose package; additional lengths and options upon request.