# S5 SpeedPulse XT

**With SpeedPulse XT: extra robust, extra variable, extra low-spatter.**

- Dynamic control
- Variable arc length control
- Ready for Speed XT
- EN 1090-certified
- Pulse welding machine
- Powerful

## At a glance

**Ready for Speed XT**

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

**Dynamic control**

Dynamic control allows the welder, for the first time, to variably adjust a pulse welding machine to a wide range of jobs and welding positions as well as to his personal preferences. The welder can use a controller to directly access the arc characteristic and change it from soft to hard.

**Powerful**

The 300 to 500 ampere models included in Lorch's S SpeedPulse XT-series are powerful enough to weld materials of all levels of thickness.

**Ready for Pulse**

Highly developed processor technology provides for the seamless interaction of all parameters and components involved in the welding process. The results of this smooth interaction are superior duty cycle levels and maximum productivity.

**Versatility**

Operating equally well with argon-$CO_2$ mixed gas and 100% $CO_2$, Lorch's S5 SpeedPulse XT is perfectly equipped for international use.

**EN 1090-certified**

As synergetic control and automatic setting control are built in, Lorch's S5 SpeedPulse XT 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.

**LORCH**

**Fully customisable**

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

## Benefits

**Compact**

All machines of Lorch's S SpeedPulse XT-series with a power output of up to 500 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.

**Ready for Speed XT**

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

**Variable arc length adjustment**

Our new variable arc length control allows you to control the pulse arc more intuitively and with greater efficiency. You can now react much more easily to arising conditions, such as changing gap dimensions or arc blow, by changing the distance between torch and workpiece.

**Welding over tack welds**

Welding over tack welds will succeed every time and without any jerking or annoying changes in frequency. The reduced amount of spatter cuts down the need for costly rework.

**EN 1090-certified**

The EN 1090 WPS package accompanying the Lorch S5 SpeedPulse XT 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 S SpeedPulse XT-series system can be operated by remote control. Remote control can be exercised either using the Lorch Powermaster torch or an external operating panel. A remote control can also be incorporated if you want to operate the machine in electrode mode.

**Case variants**

Welders opting for the Lorch S SpeedPulse XT-series can select from three different case variants (300 mm wire reels). All of them 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 S SpeedPulse XT-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.

**LORCH**

**PushPull-ready**

As it comes with PushPull capability built in, the Lorch S5 SpeedPulse XT 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 S5 SpeedPulse XT reliably protect it against such external influences as flying sparks or dust.

**Energy-efficient**

The S SpeedPulse XT-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.

**Plug & Weld**

LorchNET is the CAN bus employed by Lorch and serves as a digital hub for all Lorch components. You can start using the components right away after connecting your welding data monitor or external operating panels via a LorchNET cable.

## Controlconcept

**XT**
• "3 steps to weld" operating concept
• Synergic control
• Display-controlled user prompting
• Straightforward process and synergic line selection
• Quatromatic mode
• Dynamic control (for Synergic, SpeedArc XT, and, if included, for SpeedPulse XT)
• Tiptronic job memory (100 welding tasks)
• Volt-ampere meter
• Possibility for connection of the Powermaster
• Remote control torch

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# Technical Data: S SpeedPulse XT

| | S3 SpeedPulse XT | S3 mobil SpeedPulse XT | S5 SpeedPulse XT | S8 SpeedPulse XT |
|---|---|---|---|---|
| **MIG-MAG** | | | | |
| Welding range (in A) | 25-320 | 25-320 | 25-400 | 25-500 |
| voltage setting | infinitely variable | infinitely variable | infinitely variable | infinitely variable |
| **Duty cycle** | | | | |
| duty cycle 100% 40 °C (in Amps) | 250 | 250 | 320 | 400 |
| duty cycle 60% 40 °C (in Amps) | 280 | 280 | 350 | 500 |
| duty cycle at max. current 40 °C (in %) | 40% | 40% | 50% | 60% |
| **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 |

*Changes under reserve*

| 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) | IP23 | IP23 | IP23 | IP23 |
| insulation class | F | F | F | F |
| designation | CE, S | CE, S | CE, S | CE, S |