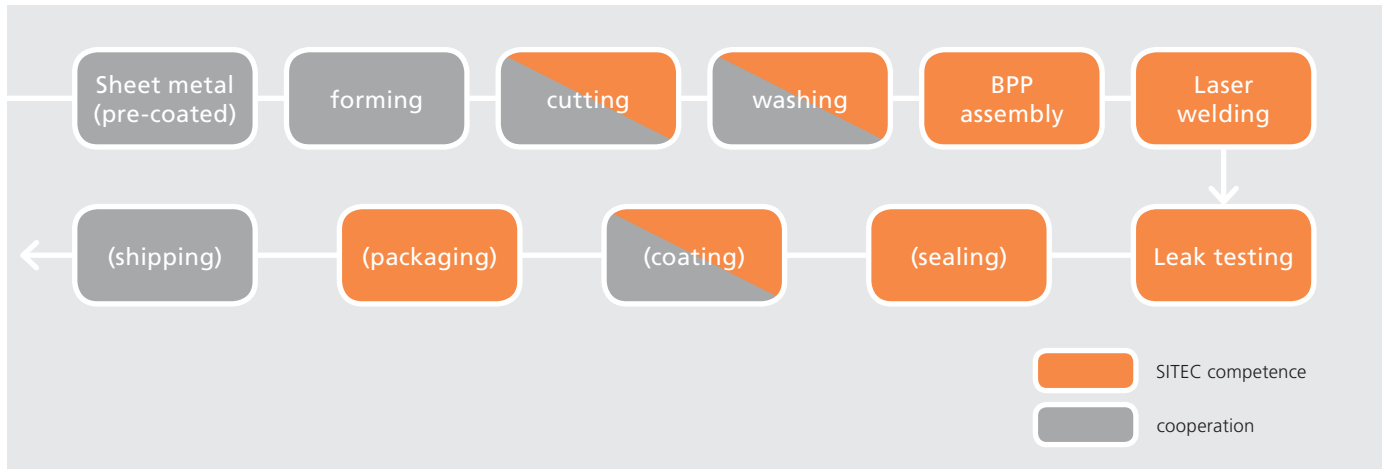


The rising amount of passenger cars worldwide and continuously strengthened emission targets shift the focus from internal combustion engines to alternative drive concepts. Fuel Cell Electric Vehicles (FCEV) are – among other concepts – one of the most promising approaches for driving into future. Beside that also their stationary use is of growing relevance to developed industries.

SITEC manufactured production solutions are capable to produce various types of fuel cells from prototype to mass production quantities.

- | | |
|----------------------------|--|
| Your requirement | Process reliable, industrial approved production of bipolar plates in small, medium and large quantities. |
| Your SITEC solution | With more than 25 years' experience in design and construction of automated production lines and laser machines SITEC is your partner for future challenges. Single parts enter our production line before or after washing. Laser marking zones assure full traceability. Handling systems will combine and position anode and cathode onto a carrier / fixture system. Depending on the required output one or more laser cells will create bipolar plates reliably and within seconds. A leak testing processes will be followed by either stacking or packing operations. End of line tests will guarantee a 100% quality control and mark the last step of our automated production line. |
| Series production | If your current output doesn't justify the investment in new production hardware - SITEC is happy to offer its series production facilities. Certified by ISO9001 and IATF16949 is SITEC your experienced partner for automotive supply. |

process flow BPP production



Production solutions



Standardized laser machines for prototype and series ramp-up

- Laser standard machine LSxx
- OEM laser source
- High accuracy scan optic
- Manual or automatic loading
- Various fixture concepts
- Small footprint
- Line integrability
- Short delivery times

As flexible as you!



Fully automated laser welding machines for mass production

- Fully Automated laser machine
- OEM laser sources
- High accuracy scan optics
- Including leak test functionality
- Including optical inspection
- Various configurations possible
- VARIOVIEW® traceability system
- 3 seconds cycle time possible
- Up to 5 million parts per year

As focused as you!