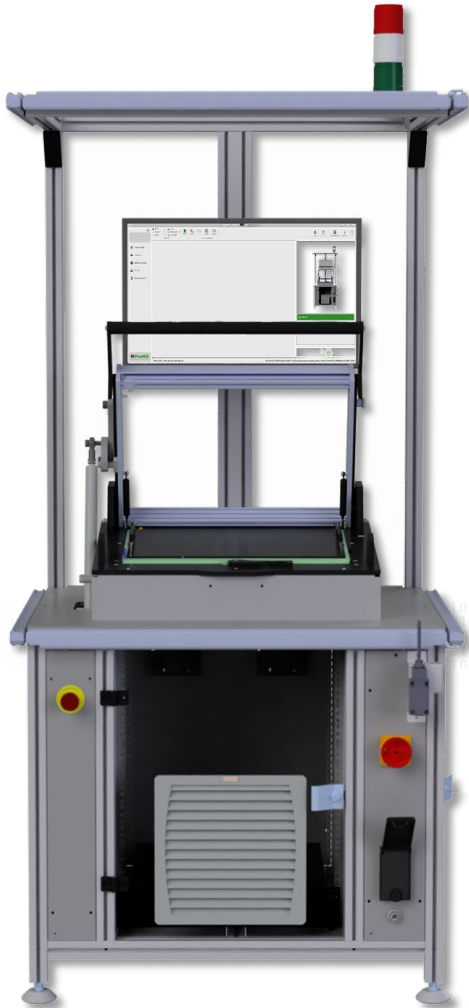


# ProMik XTL-S

Cost-efficient semi-automated system for programming  
and smart testing



# XTL-s

## Overview

The XTL-s is ProMik's semi-automated system for on-board parallel programming and testing in electronics production. Based on innovative MSP21XXNET technology with an integrated high-performance target power supply, the XTL-s offers reliable high-speed programming across a wide range of standard and bus interfaces. Designed with scalability at its core, the system can be expanded step by step thanks to its modular 19" rack concept, supporting different production volumes and requirements. It enables quick fixture exchange with precise positioning and supports a wide range of use cases, from single PCBs and multi-use panels to semi-assembled or fully housed modules. The robust electric cylinder drive ensures automatic and reliable cover handling, while smart operator guidance, fixture recognition, and integrated 2D/Barcode scanning guarantee safe and error-free operation. As part of the XTLine product family, the XTL-s benefits from fixture reusability across systems, reducing costs and ensuring continuity from development through to high-volume inline production. With its ergonomic design, automation readiness, and seamless MES integration, the XTL-s is the ideal solution for manufacturers looking for a scalable and efficient semi-automated programming and test platform.

## Fixture / Bed of Needle

- **ProMik in-house** fixture production ensures maximum signal integrity and reliability
- **Cross-compatibility with the XTLine family**, enabling reuse from development to inline production
- **Quick and precise exchange** for fast product changeovers
- **Reliability tested and plug & play ready**, including Strain Gauge Analysis & FEA for long-term durability
- Supports **top-side and bottom-side contacting** as well as dual-stage contacting
- Integrated **RF identifier (poka-yoke)** and optical identification for correct matching of fixture, cover, and PCB
- Fixture dimensions (example XTL-s standard):
  - **L x W x H:** 585 × 620 × 270 mm
  - **Usable area:** 430 × 310 mm

## Key Features

- **Scalable system architecture** with modular 19" rack concept for flexible expansion and future-proof investments
- **Powered by latest ProMik technology** supports both MSP Family and XDM Series ISP Programmer for maximum performance and compatibility
- **Fixture compatibility** across the XTLine family, ensuring cost efficiency and seamless transition from development to inline production
- **Quick and precise fixture exchange** for fast product changeovers and versatile production setups
- **Automated cover handling** with robust electric cylinder drive for reliable semi-automated operation
- **Smart operator guidance** with fixture recognition, poka-yoke features, and integrated 2D/Barcode scanning for process reliability
- **Comprehensive interface support** e.g.: JTAG, UART, SPI, and I<sup>2</sup>C CAN-FD, LIN, FlexRay, Automotive Ethernet (100/1000BASE-T1, BroadR-Reach) and USB
- **Ergonomic workstation design** with adjustable racks for operator comfort and accessibility
- **MES connectivity and Industry 4.0 readiness** for seamless production integration
- **Durable mechanics and electronics** optimized for long-term stability and reduced maintenance cycles
- Compact dimensions:

**L x W x H:** 880 x 845 x 2153 mm  
**L x W x H:** 880 x 845 x 1908 mm (without stack light)

## MSP / Programmer Rack

- Standard **19" rack system** designed for maximum scalability and easy service access
- Supports up to **10 MSP or XDM programming modules** per rack
- Integrated **Ethernet switch and power supply** for all programming modules
- Rear panel connections: **100–240 VAC and Ethernet RJ45** host interface
- Integrated **high-performance target power supply**, scalable up to 14 V / 3.5 A per channel
- Compact rack enclosure dimensions:

**L x W x H:** 482 × 132 × 348 mm (standard 19")