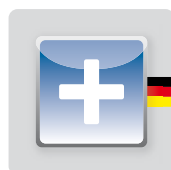


LoadMaster® System Automation for Machine Tools

Increased Productivity



LoadMaster® System
Increased Productivity



LoadMaster® System
Increased Productivity



Welcome to Schuler. Automation for machine tools.

SCHULER. TECHNOLOGY FROM THE TECHNOLOGICAL LEADER.

As a leader for quality and technology, Schuler delivers equipment, tooling, process expertise and services worldwide for the entire metal-processing industry.

Schuler develops and produces economical system solutions in direct response to specific requirements. The company employs more than 5,000 people, with facilities and agencies in more than forty countries.

SCHULER AUTOMATION. EVERYTHING FROM A SINGLE SOURCE.

The Automation for Machine Tools business unit of Schuler Automation offers a complete range of products and services based on 30 years of experience. Its objective is to increase the performance of machining centers.

Schuler Automation knows what is important when it comes to the configuration and operation of a machine. The Load-Master® system series is designed to perform to these requirements.

Expert consulting, engineering, high-quality engineering, instrumentation and control technology from a single source mean that your investment decision is safeguarded.





LoadMaster® System
Increased Productivity

LoadMaster® system. More productivity – automatically.

MORE THAN LOADING AND UNLOADING.

LoadMaster® loading systems have been developed to allow milling centers, vertical turning machines and gear cutting machines to perform optimally and with greater competitiveness.

The loading systems have sequence and process-oriented loading and unloading which increases the performance of machine tools.

With less strain on the operating team, they can concentrate more on their core expertise, which is to manufacture high-quality components.

FLEXIBLE CONTINUITY.

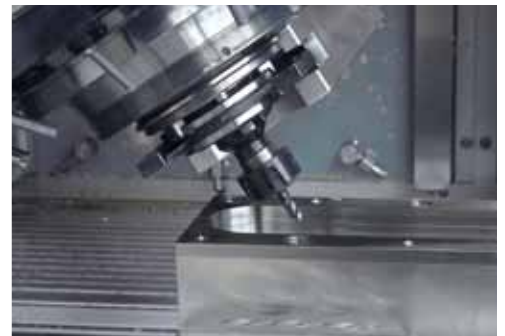
The LoadMaster® system is suitable for continuous loading of one or more machines, even during breaks in work, or unmanned shifts.

At the same time, small batch and mixed-parts production can be achieved economically, thereby reducing stock levels and in-process times.



THE LOADMASTER® SYSTEM FROM SCHULER

- **LoadMaster® Compact** the modular system
- **LoadMaster® Herkules** for high weight classes
- **LoadMaster® Flex** the high-bay system
- **LoadMaster® Tool** tooling automation
- **LoadMaster® PILOT** master controller



LoadMaster® system. The technology.

TECHNOLOGY WITH THE RIGHT QUALITY FOR THE ENGINEERING BUSINESS.

LoadMaster® systems offer technology at a convincingly high standard, making them reliable companions in the harsh conditions of a production facility, often over several different machine generations.

All functional units are mounted on a machine bed, and are integrated in a modular design. This means the system can be relocated and subsequently expanded at any time without problems.

INDIVIDUAL SYSTEM CONFIGURATION.

LoadMaster® systems can be adapted to the requirements of individual customers.

This means the layout of the system is adapted to the spatial conditions, while machines and setup stations are individually arranged. Indeed, the setup stations are selected to be ergonomic and to match the component in question, and the storage bays are arranged appropriately for the workpieces.

The master controller is also configured in line with the requirements of production.

Let us know what your requirements are. We will be happy to assist you in solving your individual requirements.





LoadMaster® System
Increased Productivity

LoadMaster® Compact. Innovative pallet automation.



LoadMaster® Compact is the modular system for the individual machine, or for linking the same machines together.

There is a variety of options for arrangement and configuration.

Pallet size	400×400 to 1.000×1.000
Pallet types in the system	single type only
Euro pallets possible	–
Transport contours	600×600 to 1.400×1.600 mm
Transport weights	400 to 2.750 kg
Number of storage levels	either 2 or 3
Number of machines	freely selectable
Number of setup stations	freely selectable
Arrangement of machines and setup stations	front, end and rear
Master controller types	all PILOT modules can be selected



LoadMaster® Herkules. For high weight classes.



LoadMaster® Herkules is the solution for handling heavy weights.

Different pallets of various machine types can be transported.

In addition to robust and reliable technology, particular attention is paid to an ergonomic setup station which can be accessed easily.

Pallet size	800×800 to 1.600×1.600
Pallet types in the system	various types possible
Euro pallets possible	yes
Transport contours	1.400×1.400 to 3.200×3.200 mm
Transport weights	3.000 to 8.000 kg
Number of storage levels	either 2 or 3
Number of machines	freely selectable
Number of setup stations	freely selectable
Arrangement of machines and setup stations	front and rear
Master controller types	all PILOT modules can be selected



LoadMaster® Flex. The high-bay system.



LoadMaster® Flex can be built up to six levels high.

As well as pallets from different machine types, it is also possible to handle Euro pallets for storing raw materials. The fixture setup stations are combined with material gates for this purpose.

Pallet size	400 × 400 to 1.000 × 1.000
Pallet types in the system	various types possible
Euro pallets possible	yes
Transport contours	600 × 600 to 2.000 × 2.000 mm
Transport weights	up to 3.500 kg
Number of storage levels	up to 6 levels/6 m height
Number of machines	freely selectable
Number of setup stations	freely selectable
Arrangement of machines and setup stations	front and rear
Master controller types	all PILOT modules can be selected



LoadMaster® Tool. Perfect use of tooling.



LoadMaster® Tool links the tool magazines of machine tools together.

At the same time, additional storage capacity is provided for tools.

Intelligent software calculates the tool requirement for the production machines, taking the downtimes into account. Conversion work and tool exchanges take place fully automatically, with a prediction function and in parallel with the running time.

Tool sizes	HSK 63 to 100, SK 40 to 100
Tool contours	Ø up to 320 mm bridge-type tools up to 750 mm length up to 750 mm
Transport weights	up to 60 kg / 85 kn tipping moment
Number of storage levels	1 to 6 levels
Number of machines	freely selectable
Number of material gates	freely selectable
Arrangement	over or behind machines
Master controller types	Schuler PILOT Tool





LoadMaster® PILOT. Well controlled.

LINEAR SYSTEM OPERATION MADE EASY.

As the communication interface between man and machine, the master controller is particularly important.

The LoadMaster® PILOT master controller excels with three outstanding features: Easy to learn, easy to operate and the ability to adjust to the needs of the application.

USER-FRIENDLY OPERATION.

The user interface of LoadMaster® PILOT has a graphical structure and is self-explanatory. Associated functions can be performed directly by clicking with the mouse or using the touchscreen.

The machining system is represented schematically in the overview, showing all the important system information at a glance.



Clear-cut and self-explanatory user interface



OPEN FOR THE FUTURE.

LoadMaster® PILOT offers comprehensive basic functions which permit convenient operation of the systems. The principle is clear: there is no forced input for unnecessary output – with the option of extending the software at any time.

The modular design of the master controller guarantees that it can be configured precisely to current and future requirements.

YOUR EXPANSION MODULES

- **PILOT Plus** individual functions
- **PILOT NC** program organization
- **PILOT Tool** determination of tool requirements
- **PILOT Step** flow control
- **PILOT Store** raw material interlinking
- **PILOT TM** tool magazine interlinking

Contact us. Our team is looking forward to helping you.



- **Alexander Hergl** +49 7267 809-146
alexander.hergl@schulergroup.com
- **Alexander Winter** +49 7267 809-243
alexander.winter@schulergroup.com
- **Daniel Kost** +49 7267 809-220
daniel.kost@schulergroup.com
- **Switchboard** +49 7267 809-0

SCHULER AUTOMATION GMBH & CO. KG
Louis-Schuler-Str. 9
75050 Gemmingen | Germany
info@schulergroup.com | www.schulergroup.com



SCHULER AUTOMATION GMBH & CO. KG

Louis-Schuler-Str. 9 | 75050 Gemmingen | Germany

Phone +49 7267 809-0 | Fax +49 7267 809-182

info@schulergroup.com | www.schulergroup.com