



pro-V-ware

HARDWARE FOR PROFESSIONAL USE

FOR
LOGISTICS &
INDUSTRY



HARDWARE **MADE IN GERMANY**

proLogistik
QUALITY THAT PAYS OFF

For more than three decades, we have shown the market the value of our overall solutions for logistics and industry. Since 1983, we have produced industrial hardware „Made-in-Germany“ at the Dortmund site – from stacker terminals to dialogue systems. proLogistik stands out with its long experience, competent consulting and customer-oriented service.

TECHNOLOGY – MADE IN GERMANY

The hardware is developed, produced and subjected to long-term tests in our company. Our development department works according to the state of the art and guarantees smooth communication with different systems. High processing quality and transparent cost control are a matter of course for us.

Due to our production site in Germany, you can profit from short waiting times and our comprehensive repair service. We put value on having accessories and spare parts for all our installations available in the long term. In order to meet our demand for innovation and performance, we are always developing our systems and technology and have done so since we first opened our doors – it’s not something we intend to stop doing either! We continually set new, innovative targets that we then consistently pursue with our customers. After all, your success is our greatest source of motivation!

EVERYTHING FROM A SINGLE SOURCE

In addition to our internally developed and produced industrial PC series „pro-V-pad“ and our dialogue system „pro-Voice“, we also offer a comprehensive hardware offer of leading manufacturers, as well as everything around the subject of warehouse marking, consumables and labels.

WITHSTANDS ANY INDUSTRIAL CHALLENGE

The diverse applications of our high-performance hardware solutions have already convinced our customers. No matter how diverse the needs are - no matter if the hardware has to resist the cold in the frosty refrigeration warehouse or fine dust in production - we offer the matching solution for your application.



THE COMPACT STACKER TERMINALS PRO-V-PAD SMART

The pro-V-pad Smart is a compact allrounder for use in logistics. Mainly used as a stacker terminal and mobile picking unit, it has all the basic functions that a robust terminal in the warehouse needs.

At the heart of the fan-less industrial touch PC is a high-performance Intel® Celeron™ QuadCore processor with 2.0 GHz. Other features include 4 GB RAM, four freely available function keys and a total weight of less than 3 kg, qualifying this terminal as an extremely efficient companion in industry and logistics.

TECHNICAL DATA

DISPLAY DIAGONALS	10.4"
WEIGHT	2.9 kg
CPU	Intel® Celeron J1900; 2.0 GHz Quad-core
PROTECTION CLASS	IP65
RANDOM-ACCESS MEMORY	4 GB RAM DDR3L
TOUCH SCREEN	Analogue-resistive 5-wire technology
DISPLAY	10.4" display, colour TFT LED backlight
MASS MEMORY	32 GB half size PCIE
USB	1 x USB 3.0 2 x USB 2.0 HDMI 1 x
HDMI	Serial 1 x RS232
BLUETOOTH	V4.0 class 1
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
WI-FI	IEEE 802.11 a/b/g/n
ANTENNA	2 x antenna for room diversity; Frequency band 2.4/5.0 GHz
POWER SUPPLY	18-75 VDC; electrically isolated (18 V on; 16 V off)
OPERATING SYSTEMS	Windows Emb. Standard 7, Windows 10 IoT



THE NEW GENERATION OF INDUSTRIAL TOUCH PCS PRO-V-PAD CLASSIC X64

The innovative pro-V-pad Classic x64 industrial touch PC offers perfect ease of use together with the well-known compact high-performance and robust build of IP65. Most comprehensive equipment packages can be configured individually to get ideal hardware for every purpose.

Efficient operation – even in rough working environments

The compact fan-less touch terminal has been developed to meet comprehensive industry requirements efficiently and with stamina. Thanks to high-performance Intel® processes, flexible selection of random access memory, and the robust and wear-free „PcaP“ operating interface, it permits operation of any type of software applications with high performance and intuitively. Additionally, proLogistik offers an infrared touch screen solution for industrial operations with special requirements in the area of „glove operation“, as is needed for refrigeration technology. The „IR touch“ solution by proLogistik ensures unrestricted glove operation and long-lived industrial technology in one.

TECHNICAL DATA

DISPLAY DIAGONALS	10.4", 12.1", 15.0", 19.0"
WEIGHT	2.9 - 7.2 kg, depending on size
CPU	Intel® Apollo Lake, Skylake and Whiskey Lake
PROTECTION CLASS	IP65
RANDOM-ACCESS MEMORY	4 GB-8 GB DDR3L RAM (Apollo Lake), 4 GB-32 GB DDR4 RAM (Skylake), 4 GB-64 GB DDR4 RAM (Whiskey Lake)
TOUCH SCREEN	Projected capacitive touch screen; AR-coated composite safety pane; Optionally for refrigeration application: Infrared touch screen with composite safety glazing (VSG) up to 12.1"
DISPLAY	1,024 x 768 dpi XGA (19.0": 1,280 x 1,024 dpi SXGA)
MASS MEMORY	mSATA 32 GB – 128 GB; SSD 80 GB – 500 GB; optionally at 15.0" and 19.0"
USB	2 x USB 3.0; 2 x USB 2.0
HDMI	1 x HDMI for additional screen connection
BLUETOOTH	Bluetooth 4.0 LE
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
WI-FI	1 x PCIE card, combination module Wi-Fi/Bluetooth IEEE 802.11 ac/a/b/g/n BT 4.0 LE
ANTENNA	2 x internal aerial for room diversity; Frequency band 2.4 GHz/5 GHz; Integrated in the housing
POWER SUPPLY	16 VDC - 75 VDC; electrically isolated; Optionally 12 VDC
OPERATING SYSTEMS	Windows, Linux, Igel



PRO-V-PAD CLASSIC ANDROID

Our tried and tested pro-V-pad Classic series is now also available as an android version – „custom-made“ by proLogistik. The high-performance pro-V-pad Classic terminal is comprehensively equipped. Thanks to the Android operating system and a high-performance Qualcomm Snapdragon® 600 QuadCore processor at its core, it is set up ready for the future.

User-friendly application with Android

As the most-frequently used operating system on mobile devices, Android has long found access to industrial applications. In coordination with high-performance proLogistik hardware, Android represents graphical and user-friendly user interfaces.

Of course, the pro-V-pad classic Android is also equipped with all the technical features that make it comfortable to use. Capacitive multi-touch technology (PcaP) and an optional IR touch technology are options available. Furthermore, the terminal stands out with its many interfaces and diverse software integration options. The pro-V-pad Classic Android is therefore an ideal on-board computer for mobile and stationary use in industry, trade and logistics.

TECHNICAL DATA

DISPLAY DIAGONALS	10.4", 12.1", 15.0", 19.0"
WEIGHT	2.5 - 7 kg, depending on size
CPU	Qualcomm Snapdragon 600 Quad-core, 1.7 GHz
PROTECTION CLASS	IP65
RANDOM-ACCESS MEMORY	2 GB LPDDR2
TOUCH SCREEN	Projected capacitive touch screen; AR-coated composite safety pane Optionally for refrigeration application: Infrared touch screen with composite safety glazing (VSG) up to 12.1"
DISPLAY	1,024 x 768 dpi XGA (19.0": 1,280 x 1,024 dpi SXGA)
MASS MEMORY	32 GB EMMC
USB	4 x USB 2.0
BLUETOOTH	Bluetooth-module BT 4.0
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
WI-FI	Wi-Fi module IEEE 802.11 a/b/g/n
ANTENNA	Internal antenna for frequency band 2.4 GHz/5 GHz and Bluetooth integrated in the housing
POWER SUPPLY	9-75 VDC / max. 36 W
OPERATING SYSTEMS	Android



THE STAINLESS STEEL IPC FOR DEMANDING APPLICATIONS
PRO-V-PAD STEEL

The pro-V-pad Steel is a high-performance industrial touch terminal with a special housing design. It meets the highest demands for stability, resilience and flexibility. Where conventional computers would stumble, the strengths and efficiency of the pro-V-pad Steel stand out clearly. Areas of use specifically include hygiene-requiring food processing or demanding „heavy-duty“ applications in the chemicals and construction industries.

The user interface of the pro-V-pad Steel in the display sizes 12.1“, 15.0“ and 19.0“ is implemented by infrared touch screen. The benefits of this high-quality touch technology are decisive for the typical site of use of the industrial PC. Unlimited glove operation combined with a wear-free VSG surface are only two of the touch screen’s features. Furthermore, this touch technology is deep-freeze capable and thus integrated into the front unit in a protected manner to keep the IPC safe from dust and moisture up to protection class IP67.

TECHNICAL DATA

DISPLAY DIAGONALS	12.1“, 15.0“, 19.0“
WEIGHT	5.3 - 9.6 kg, depending on size
CPU	Intel® Apollo Lake, Skylake and Whiskey Lake
PROTECTION CLASS	IP65
RANDOM-ACCESS MEMORY	4 GB-8 GB DDR3L RAM (Apollo Lake), 4 GB-32 GB DDR4 RAM (Skylake), 4 GB-64 GB DDR4 RAM (Whiskey Lake)
TOUCH SCREEN	Infrared touch screen with composite safety-glazing (VSG), optionally with analogue-resistive 5-wire touch technology with approx. 3 mm safety glazing
DISPLAY	1,024 x 768 dpi XGA (19.0“: 1,280 x 1,024 dpi SXGA)
MASS STORAGE	mSATA 32-128 GB; SSD 80-500 GB; Optionally at 15.0“ and 19.0“, industrial flash memory with expanded temperature range
USB	4 x USB 2.0 via industrial plug connector
BLUETOOTH	Bluetooth 4.0 LE
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
WI-FI	1 x PCIe card, combination module Wi-Fi/Bluetooth IEEE 802.11 ac/a/b/g/n BT 4.0 LE
AERIAL	2 x internal aerial for room diversity; Frequency band 2.4 GHz/5 GHz; Integrated in the housing
POWER SUPPLY	16-75 VDC; electrically isolated; Optionally 12 VDC
OPERATING SYSTEMS	Windows; Linux; Igel



PRO-V-PAD STEEL PCAP 16:9

From now on, proLogistik offers the tried and tested pro-V-pad Steel terminal in a new, additional housing design. The new terminal version has a display diagonal of 21.5“, full HD resolution and a wide-screen format in 16:9.

The wear-free „PcaP multi touch“ is included as another special feature in the IP67-certified stainless steel housing version. Equipped with high-performance Intel® CPUs up to currently the 8th generation (Whiskey Lake), the pro-V-pad Steel terminal represents long-term performance and optimal process visualisation.

TECHNICAL DATA

DISPLAY DIAGONALS	21.5“
WEIGHT	7.9 kg
CPU	Intel® Apollo Lake, Skylake and Whiskey Lake
RANDOM-ACCESS MEMORY	4 GB-8 GB DDR3L RAM (Apollo Lake), 4 GB-32 GB DDR4 RAM (Skylake), 4 GB-64 GB DDR4 RAM (Whiskey Lake)
TOUCH SCREEN	Projected capacitive touch screen;
DISPLAY	1,920 x 1,080 Full HD
MASS STORAGE	mSATA 32 GB – 128 GB; optionally SSD 80 GB – 500 GB; industrial flash memory with expanded temperature range
USB	2 x USB 3.0; 2 x USB 2.0
HDMI	1 x HDMI for screen connection
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
WI-FI	1 x PCIe card, combination module Wi-Fi/Bluetooth IEEE 802.11 ac/a/b/g/n BT 4.0 LE
AERIAL	2 x internal aerial for room diversity; Frequency band 2.4 GHz/5 GHz; Integrated in the housing
POWER SUPPLY	16 VDC - 75 VDC; electrically isolated; Optionally 12 VDC
OPERATING SYSTEMS	Windows, Linux, Igel



THE INTEGRATED TOUCH PC FOR YOUR APPLICATION PRO-V-PANEL

The pro-V-panel terminal now has a number of diverse uses and is a new generation of integrated panel PCs. The key data are: Full HD resolution, 16:9 wide-screen format and multi touch technology. Apart from this, the pro-V-panel, which can be freely configured by the customer, is equipped with the latest CPU hardware from Intel®, so that no aspect of the performance remains unfulfilled for you.

Of course, all required interfaces, such as USB and RS232, HDMI, Bluetooth, LAN and audio, are provided. Operating systems such as Windows, Linux and Igel are also offered and can be adjusted for the customer. The highest demands of stability, resilience and flexibility are met by this panel PC in the versions 13.3", 15.6", 18.5" and 21.5".

TECHNICAL DATA

DISPLAY DIAGONALS	13.3", 15.6", 18.5", 21.5"
WEIGHT	3.6 - 5.3 kg, depending on size
CPU	Intel® Apollo Lake, Skylake and Whiskey Lake
RANDOM-ACCESS MEMORY	4 GB - 8 GB DDR3L RAM (Apollo Lake architecture), 4 GB – 32 GB DDR4 RAM (Skylake architecture), 4 GB-64 GB DDR4 RAM (Whiskey Lake)
TOUCH SCREEN	Projected capacitive touch screen; AR-coated composite safety pane
DISPLAY	1,920 x 1,080 Full HD
MASS STORAGE	mSATA 32 GB – 128 GB; optionally SSD 80 GB – 500 GB; industrial flash memory with expanded temperature range
USB	2 x USB 3.0; 2 x USB 2.0
HDMI	1 x HDMI for screen connection
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
POWER SUPPLY	16 VDC - 75 VDC; electrically isolated; Optionally 12 VDC
OPERATING SYSTEMS	Windows, Linux, Igel



PRO-V-PANEL ANDROID

Our integrated touch PC is also available in an Android version – „custom-made“ by proLogistik.

Coupled with all the important features, the Android version ensures a user-friendly interface with graphical highlights. The pro-V- panel is available in 15.6", 18.5" and 21.5" and contains all the common interfaces. The Qualcomm Snapdragon® 600 Quad-core processor ensures a high performance.

The pro-V-panel Android is an ideal fitted terminal for stationary use in industry, trade and logistics.

TECHNICAL DATA

DISPLAY DIAGONALS	15.6", 18.5", 21.5"
WEIGHT	4.1 - 5.3 kg, depending on size
CPU	Qualcomm Snapdragon 600 Quad-core, 1.7 GHz
RANDOM-ACCESS MEMORY	2 GB LPDDR2
TOUCH SCREEN	Projected capacitive touch screen; AR-coated composite safety pane
DISPLAY	1,920 x 1,080 Full HD
MASS STORAGE	32 GB EMMC
USB	2 x USB 3.0; 2 x USB 2.0
BLUETOOTH	Bluetooth-module BT 4.0
NETWORK CONNECTION	Ethernet 10/100/1000 Mbit/s
WI-FI	Wi-Fi module IEEE 802.11 a/b/g/n
ANTENNA	Internal antenna for frequency band 2.4 GHz/5 GHz and Bluetooth integrated in the housing
POWER SUPPLY	9-75 VDC / max. 36 W
OPERATING SYSTEMS	Android



PRO-VOICE DIALOGUE SYSTEM
MOBILE. FLEXIBLE. ERGONOMIC.

The Voice-System by proLogistik is a speaker-independent speech-controlled dialogue system to optimise work processes in various areas of use. pro-Voice can, for example, be used in logistics in the area of picking (Pick-by-Voice), in inbound or outbound goods, when taking inventory, or in quality inspection. Use of a speech-controlled dialogue system is sensible outside of logistics as well, e.g. in industrial applications such as machine control or when controlling driverless vehicles.

Why should you use a Voice system?

- | Efficiency increase through faster work processes
- | Big time savings
- | Error rate reduction

Why pro-Voice by proLogistik?

- | Software-independent – connection to any ERP or LVS possible
- | Speaker-independent/ employee-independent – no teaching required
- | More than 25 languages and dialects available
- | Multilingual use possible
- | Bluetooth or wired use possible
- | Filtering out background sounds
- | Comfortable to wear due to light-weight rechargeable battery and a flat build
- | Comprehensive headset delivery program, no manufacturer restrictions
- | pro-Voice coach: 2. Headset can be connected, speakers for listening in

What services do we offer?

- | Devices to hire for tests
- | Comprehensive consulting before, during and after installation
- | Support for commissioning on site
- | Dedicated service department with 24/7 hotline
- | Device defective? Dedicated repair department with short throughput times
- | Management and administration tool for all devices

PL-PICK & GUIDE

Dual picking – seeing and hearing work processes

To reduce the error rate in picking, a module has been developed that visually monitors product and storage bins, in addition to speech-controlled picking.

The pL-Pick & Guide software module implements dual processes in processing of complex processes; this enables deviations to be recognised more quickly in the figures.

The error rate in picking is clearly reduced with this support by speech-controlled processes (Pick-by-Voice) in combination with visual information. On the other hand, the picking process is rendered more efficient, since the employee will have both hands free and is able to focus entirely on the Pick-by-Voice statements by headset.

Benefits of Pick & Guide

- | Visual support of product and storage bin images
- | Support of complex processes
- | Dual picking processes in the classical Pick-by-Voice area
- | Dual organisation processes in the classical Move-by-Voice area
- | Higher mobility of the employee by hands-free processes and Bluetooth technology
- | Integration of innovative ID-techniques such as RFID and scanner technology



AREAS OF USE

LOGISTICS

Goods receipt

Inbound goods inspection, storage

Goods provision

Picking, transfers, top-up supply, cross-docking processes inventory

Outbound goods

Quality assurance, goods inspection, full and partial controls, loading

INDUSTRY APPLICATIONS

Machine control of FTF (Fahrerlose Transport Fahrzeuge; driverless transport vehicles)

OTHER INDUSTRIES

Trade, production, aviation, automotive, healthcare

TECHNICAL DATA

- | Mute function
- | Battery replacement by „hot swap“ function: Internal battery buffer when replacing the external battery
- | Speech synthesis, from the client
- | Integrated Bluetooth module
- | Integrated Wi-Fi module IEEE 802.11 a/b/g/n
- | Integrated antenna broadband radio technology/Bluetooth
- | Operating system: Linux
- | OMaP 4460 2 x 1.2 GHz
- | nanD-Flash 1 GB
- | RAM 1 GB on Board
- | Power supply 7.2 V, 2600 mAh Li-ion battery or Power battery 5,200 mAh
- | Housing dimensions: (L x W x D) 137 x 85 x 28 mm incl. rechargeable battery
- | Weight 160 gram without battery, total weight 265 gram incl. standard rechargeable battery
- | Dimensions standard battery: 85 x 47 x 22 mm / weight 105 gr.
- | Dimensions power battery: 85 x 87 x 22 mm / weight 210 gr.
- | More power – 2 CPU cores designed for future software adjustments

INTEGRATION OPTIONS

PRO-VOICE EASY

Can be used for many different application processes. Own connection to/implementation in dedicated software systems by the customer is possible very quickly.

PRO-VOICE SMART

Already-existing picking sequences / processes are converted to hands-free using the pro-Voice converter (e.g. from terminals or manual units to Voice).

PRO-VOICE EXPERT

Implementation of a complete picking solution (e.g. picking strategies, control stand, path optimisation).

PRO-VOICE SAP

Interface with SAP, 100% integrated

PRO-VOICE XLS

Software for connection of the pro-Voice clients to Microsoft Excel



THE MOBILE WORK STATION HAND CART

The hand cart by proLogistik serves as a mobile workstation, e.g. for inbound goods or for quality inspection in the warehouse. The hand cart can be used to install a mobile on-board computer (e.g. the proLogistik pro-V-pads), a holder for the scanner and label printer, and a battery box. This makes the hand cart independent of the mains and permits flexible use in the warehouse.

The hand cart has many practical functions. The four casters ensure the highest mobility. The deposit surfaces with integrated storage space create enough space for the employee's work documents. With a carrying strength of 100 kg, the hand cart is ready to race the rough everyday work in logistics and in daily use.

The proLogistik hand cart can be customised and varied in equipment and set-up. It can be adjusted to requirements. We also offer the matching hardware, such as on-board computers, printers, scanners with holders and battery boxes.

TECHNICAL DATA

Standard model without hardware

- Dimension: 1,120 x 550 x 580 mm (H x W x D)
- Carrying strength: 100 kg
- Dead weight (without hardware): 39 kg
- Integrated cable conduit
- Four casters
- Parking brake at the front casters.
- Special deposit for battery and printer.
Customisation possible upon request



PRODUCTS FOR WAREHOUSE MARKING AND DATA RECORDING
PROSCAN SPECIALIST

In our proScan specialist area, proLogistik offers an expanded hardware range based on subjects of mobile data recording and warehouse marking. The range covers anything from hand-readers and scanners, to printing systems, to labels and ink ribbons. We cooperate only with renowned manufactures such as Zebra, Datalogic, Honeywell and Toshiba in order to offer you a wide-spread and high-quality range of additional hardware.

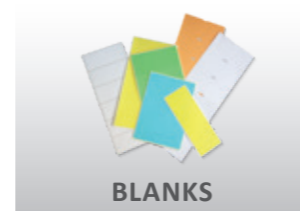
LABELS & INK RIBBONS

Our delivery range

- Printed and blank labels;
- Labels for the areas:
 - » Logistics
 - » Warehouse
 - » Office
 - » Refrigeration up to -60 °C
 - » Production
- Plastic signs for marking outdoors;
- Sample material for adhesion or scan tests;
- Label consulting by long-term, qualified employees.
- Matching ink ribbons for any printer;
- Label contracts
- Label application
- Label design software/design programmes;
 - Delivery times from 5 to approx. 10 working days;
- Test records with precise evaluations to the barcode label

E-PAPER

- Electronic paper with individual display and various sizes;
- Fully graphical e-ink paper display;
 - Battery service life up to 5 years
- Pixel colours in black and white, or black, white and red;
- Viewing angle nearly 180 degrees



MANUFACTURER



LABEL PRINTER

The matching printer for any use

Thermal direct printers and thermal transfer printers with different performance features permit quick and brilliant printing of the required labels for barcode processing. We offer both label printers and a large range of accessories and consumables for them.

BARCODE SCANNER

No matter if you need to scan in the warehouse, in retail or in industry: we have a matching barcode scanner for your application. In particular input mistakes that may happen in manual data recording are a thing of the past with barcode scanners.

HANDHELD TERMINAL

Mobile data recording simplifies goods handling in the warehouse or in production. The data can be reviewed, confirmed and reported back to an EDP or LVS system via a browser directly online, on the server, or independently of location. Profit from the advantages of mobile data recording and precise coordination between barcode scanners, mobile terminals and barcode printers with this processing system.

UNIVERSAL STAINLESS STEEL PRINTER HOUSING

The stainless steel printing housing is the ideal protection for large label printers that must withstand rough environments. The housing is customised to your printer model and will let you insert your own printer. Inside these perfectly water-tight and indestructible capsules, the printer is placed on an extendible sliding rail.

This way, the printer can be comfortably slid in or out, in order to replace label rolls or ink ribbons, or to make printer settings. We offer matching ink printing material to go with it, of course!



INTERFERENCE-FREE & FAST WI-FI COVERAGE

Radio data transmission from mobile devices such as terminals or voice solutions usually takes place in the Wi-Fi network.

The interaction of the factors relevant for Wi-Fi, such as signal field strength, signal-noise-ratio and interferences, decides on whether radio-, intralogistics work can be performed. A site-survey analysis is the first step to ensure optimal and seamless supply throughout your company's premises.

To begin with, your requirements will need to be specified: Which areas of your operating premises are relevant and require optimal supply? What is your company's usage behaviour and which processes do you need radio transmission for?

We will gladly advise you on the selection of, and decisions concerning, a suitable Wi-Fi standard.

OPTIMAL POSITIONING OF ACCESS POINTS IS DECISIVE

The basis for performing a site survey is a current warehouse layout or a layout of the operating premises. The target is to determine optimal positioning of the transmission and reception station (Access Point), under consideration of the lowest possible material effort. The measurement – the site survey analysis – is performed with special software.

The result of this analysis is a detailed documentation that contains all relevant information for installation and analysis of the Wi-Fi.

Contact us for a site survey analysis. Our experience, over many years in the industry, in handling the associated hardware enables us to advise you in procurement and configuration of your stationary radio hardware as well.

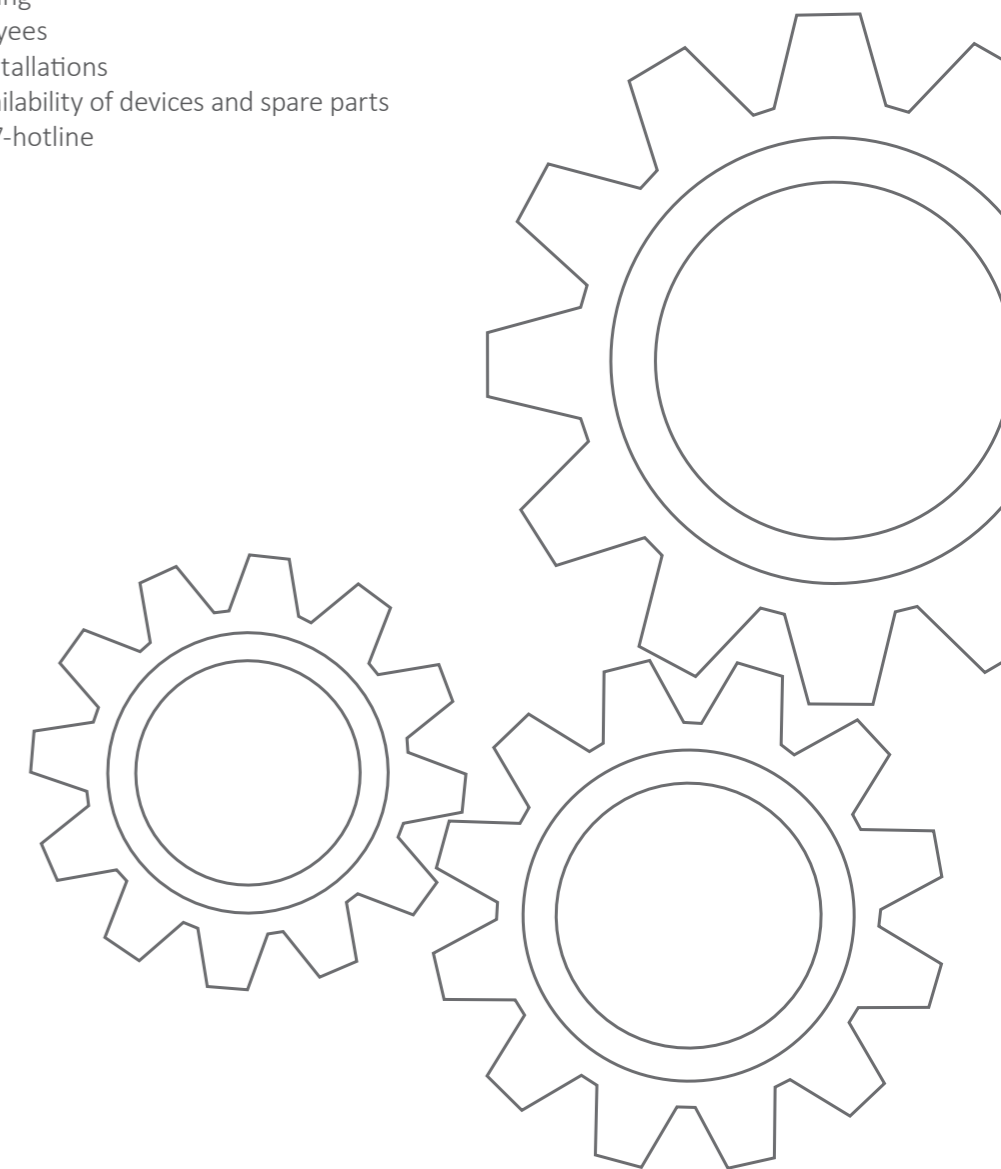
SERVICE FAST. RELIABLE. COMPETENT. NEARBY.

CUNCOMPROMISING CUSTOMER SERVICE – REPAIR, MAINTENANCE, TRAINING

The service offer of pL-hardware comprises an all-round service across the entire service life of your hardware. We will help you choose the right products, support you in commissioning and offer training. We are also there for you in case of changes to your configuration, for replacements and when processing repairs or maintenance work.

COMPETENT SUPPORT

- | Detailed analysis of the demand situation and potential for optimisation
- | Module-based for maximum flexibility
- | Commissioning support
- | Practice-based demand-oriented training
- | Sustainable service by qualified employees
- | Continuous optimisation of existing installations
- | Investment security from long-term availability of devices and spare parts
- | Optional service agreements with 24/7-hotline
- | Short repair throughput times
- | Inhouse repair / bring-in service
- | Pool concept
- | Old-for-new-offers



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