

MEDICAL SYSTEMS

Better Components, Better Care

**NEW
ARRIVALS**



Professional Supplier of Bedding Solutions for Medical Applications

**Every movement
needs an impulse.**




A force that provides the drive – yet which is often not seen: Dewert signifies this “inner strength”. In the hospital and care sector, our drive technology makes a valuable contribution towards improving the quality of life for people in need of care. When built into medical products, our motor drives, control units and operating elements support patient’s mobility and health. Dewert already offers intelligent system solutions with advanced technology today. Our intelligent software is used to network nursing facilities and provide extensive functions for patient monitoring and the central control of nursing beds. Our goal is to give patients and caregivers an optimal user experience. Manufacturers of beds, OP tables and patient chairs are benefiting from our competent and quick service.

Reliable, safe and comfortable. Worldwide.



DEWERTOKIN TECHNOLOGY GROUP CO., LTD

 **German Quality**
Better components, better care

DewertOkIn is an internationally recognized manufacturer of drive, system and mechanism technology.

The company was founded in Kirchlengern, Germany and still has a German-based sales company.

Meanwhile, our headquarter is based in Jiaxing, China, while we continue to follow German quality standards.

More precisely, DewertOkIn Technology Group Co., Ltd is located at Xiuzhou High-tech Zone, JiaXing, Zhejiang, China, which is an active area for business in the Yangtze River Delta.

We provide innovative solutions in the fields of drive, system and mechanism technology. Under the brand OKIN you can find a wide range of products for smart furniture (such as motion upholstery, massage chairs, theatre seating, recliners and adjustable beds) and adjustable office desk systems. Whereas the brand Dewert offers high performance products for medical applications (such as medical and nursing beds). We are a main partner for several major furniture factories.

Our goal is to provide complete smart furniture solutions worldwide.


DEWERT
A DewertOkIn Technology Brand

Business solutions

Dewert's drive and system solutions can be used in a wide variety of medical applications. Dewert relies on close cooperation with customers – starting right from the development phase. The best system configuration for each application can be created in this way.



CARE

Drive and system technology is very important for both home care and nursing home applications. Adjustable nursing beds, sanitary facilities and motorized wheelchairs with stand-up assist functionality actively support patients – so that they can remain independent in their everyday lives for as long as possible. Care solutions from Dewert provide patients with outstanding safety and reliability and make it easier for them to get up, sit or lie down. Ease of use is ensured thanks to the versatile operating possibilities.

HOSPITAL

Reliable technology is essential for hospitals. Patients and staff depend on technology every day and must be able to use it quickly and intuitively. Electric drives are at the heart of sensitive applications such as intensive care beds, operating tables, incubators and supply units. Dewert's drive and system technology provides many safety features. Thanks to its high-quality construction and robust components, this technology meets the most demanding requirements for tight seals and hygiene.



SPA

For the expanding spa sector, the top priority is maximum comfort. Users of treatment chairs and tables for wellness or beauty applications expect reliable components which ensure gentle and fast position adjustments. Dewert's solutions are ideally suited to the requirements of the spa market segment. The powerful drives move very quietly and smoothly. The controls and operating elements provide intelligent functions with added value for the user.

TREATMENT

Whether in physiotherapy, dialysis or dental practices – there is quite a wide variety of applications in the treatment sector. It is not only patient comfort that matters here. Often, many drives have to be installed in a very confined space so that complex motion profiles can be implemented. Dewert's drive technology unites high performance and a compact design. This provides users with the most versatility and freedom while designing the layout of their applications – all at an optimum price/performance ratio.



Reliable and user-friendly

Bed systems for hospitals and care facilities are a basic part of the daily routine of patients and caregivers. The demands on modern beds are high: facilities expect long-lasting products, caregivers need reliable technology with a high level of functionality, and patients place great importance on comfort.

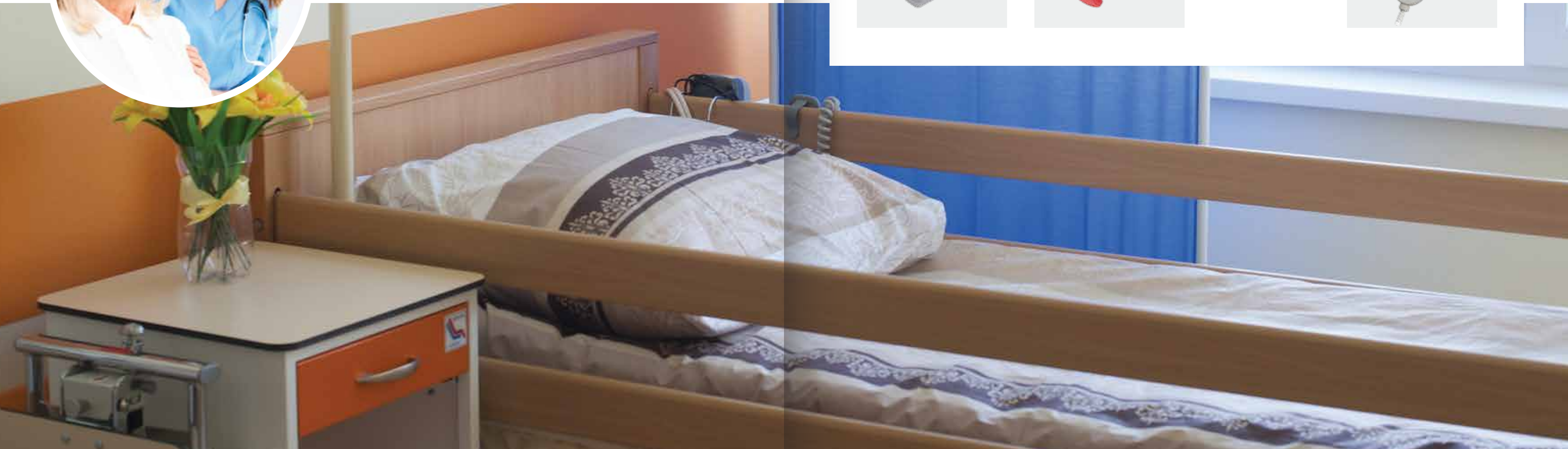
Intelligent drive technology from Dewert unites these characteristics. Dewert products are single-fault protected and meet all of the required standards. Their robust and compact design, combined with their high push and pull forces, enable them to be used in applications such as in low nursing beds and bariatric beds.

Dewert provides a cost- and time-optimised planning phase during which specific motion profiles can be designed. Dewert is ready during the entire project planning process to support and work out the best solutions. This includes carrying out joint test runs.



NURSING BEDS

CARE



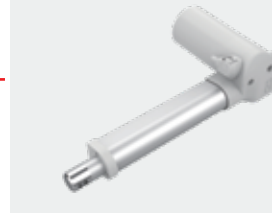
MC 17
Control unit



JLDQ.22M
Single drive



JLDQ.30M
Single drive



BP1
Battery



Stop Switch
Switch



Iproxx AC 2
Nurse panel



Nocturne
Handset



Safety for challenging tasks

Intensive care places the highest demands on staff and technology. ICU beds (Intensive Care Unit) must be easy to use, as well as ensure quick adjustments at any time. It must be possible to move patients into a shock position or CPR position within seconds.

As a system provider, Dewert ICU beds come fully equipped with customised drive technology, operating elements and a wide range of accessories. Thanks to intelligent and powerful Dewert technology, even complex motion profiles can be achieved – for example, pivoting movements to quickly reposition patients.

Dewert's drive technology also features high safety reserves that remain fully functional even during exceptional situations, such as short-term overloads. Dewert's special strength lies in developing customised system configurations and special solutions for ICU beds.



ICU BEDS

— HOSPITAL

MC 16 Control unit



Megamat 10 ER
Single drive



JLDQ.20M
Single drive



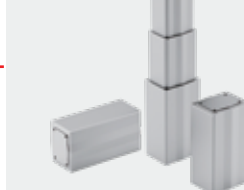
Iproxx AC 2 Display
Nurse panel



JLDQ.22M
Single Drive



DC 20
Lifting column



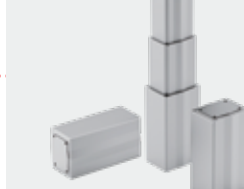
Iproxx 3 Display
Handset



BP1
Battery



DC 20
Lifting column



Stop Switch
Switch



Mobility for improved quality of life

Moving from the bed to a chair or a bathtub is an essential part of the daily life of people with mobility impairments. Moreover, safe access to therapy pools during water therapy helps to facilitate these applications.

Patient lifters ensure a reliable and safe lifting and lowering that significantly improves the quality of life for these people. The PLC 20 system from Dewert with its lifting, pivoting and lowering functions is customised for exactly these requirements. In addition to safe and durable operation, Dewert's PLC 20 system is also designed for easy integration into a patient lifter.

Dewert offers a wide range of components, consisting of control units, drives, handsets and accessories. The PLC 20 technology also has advanced overload protection, single-fault protection and selfmonitoring for service and maintenance.



PATIENT LIFTERS

— SPA & HOSPITAL



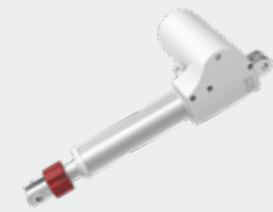
PLC 20 Control unit



JLDQ.31M
Single drive



JLDQ.29M-LR
Single drive



Iproxx 4 Lifter
Handset



Stability and precision

Safety, comfort and a compact design play an important role in patient chairs. Given the fact that patients sometimes remain sitting for long periods, the chairs must also be capable of gentle and precise adjustments. In addition, the slim design enables doctors to work very close to patients.

Powerful drive technology and versatile lifting columns are therefore indispensable. Dewert lifting columns for patient chairs deliver outstanding stability and reliable adjustments. Their whisper-quiet operations as well as the gentle, quick adjustments provide even more comfort during treatment.

A special feature: Despite their very small size, Dewert lifting columns have a very large lifting stroke, providing excellent versatility to users.



PATIENT CHAIRS

— TREATMENT

MC 12
Control unit



JLDQ.19M
Single drive



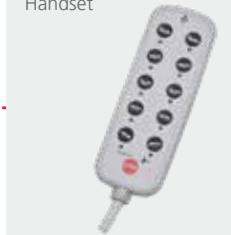
JLDQ.29M
Single drive



DC 20
Lifting column



Iproxx 2
Handset





Power in motion

Powerful drive technology and versatile lifting columns are indispensable on patient handling situations.

Dewert wide range of single and double drives and lifting columns deliver outstanding stability and reliable adjustments. Their whisper-quiet operations as well as the gentle, quick adjustments provide even more comfort during treatment.

Whether compact sizes or long strokes are needed, as well as powerful strong drives for extreme conditions, Dewert has an ideal solution for each need of all medical applications.

SINGLE DRIVES

JLDQ.29M

JLDQ.30M



Description

Designed for extreme loads: this silent and powerful yet fast single drive with multiple feedback modes is the ideal choice for patient lifting and chairs.

Compact size and strong power combined with the affordability of the JLDQ.30M allows its wide use in hospital beds.

Max load

8000N

6000N

Installation size

165+stroke (20-300mm)

160+stroke (20-300mm)

Noise without load

≤50dB(A)@500mm

≤50dB(A)@500mm

Installation mode

0° or 90°

0° or 90°

Feedback

Hall sensor and reed switch

Hall sensor

Optional

Manual mechanical release function

Reliable drive technology

Powerful, compact and versatile: Dewert's single drives, double drives and lifting columns form the reliable heart of many medical applications. Their high-quality and robust workmanship ensure maximum durability.

SINGLE DRIVES

MEGAMAT 10

MEGAMAT XS



Description	Reliable and stable, this single drive simplifies installation, offering mounting angle versatility and being assembled directly with the control box.	The small powerhouse. Thanks to its angle versatility and the particularly small motor housing, it is ideal for use in home care beds with front motors and as a slave drive.
Max load	6000N	3000N
Installation size	165+stroke (20-300mm)	150+stroke (20-400mm)
Noise without load	≤60dB(A)@500mm	≤60dB(A)@500mm
Installation mode	0° or 90°	0°, 45° or 90°
Feedback	Hall sensor	Hall sensor
Special configuration	Versions ER/GQR	

MEGAMAT 5

JLDQ.19M



Description	Designed for high loads: this single drive with its high mechanical stability is ideal for demanding applications, under extreme conditions.	Affordable yet powerful single drive for a variety of applications: The JLDQ19M has high adjustment forces and is very compact.
Max load	8000N	6000N
Installation size	165+stroke (20-300mm)	160+stroke (20-300mm)
Noise without load	≤50dB(A)@500mm	≤50dB(A)@500mm
Installation mode	0°, 90° or 22.5*n °	0°
Feedback	Hall sensor	Hall sensor

SINGLE DRIVES

JLDQ.20M



JLDQ.22M



Description	Its small size but long stroke combined to affordability makes this single drive an ideal choice for nursing lift beds.	Directly assembled with the control box, this single drive with a metal tail and long life is widely used in hospital beds.
Max load	4000N	6000N
Installation size	150+stroke (20-400mm)	165+stroke (20-400mm)
Noise without load	≤50dB(A)@500mm	≤50dB(A)@500mm
Installation mode	0°	0° or 90°
Feedback	Hall sensor	Hall sensor

JLDQ.30Y



JLDQ.31M

COMING SOON



Description	Strong, compact and affordable: the JLDQ.30Y can also be operated manually without power, making it a versatile option for nursing beds and more.	Power to hard tasks With the new JLDQ.31M, Dewert is bringing motion to patient lifters. The compact, strong structure of the new JLDQ.31M brings power to one of the most demanding tasks of healthcare workers: helping patients to rise when they can't or haven't the strength to do it by themselves.
Max load	3000N	
Installation size	160+stroke (20-300mm)	
Noise without load	≤50dB(A)@500mm	
Installation mode	0° or 90°	
Feedback	Hall sensor	

DOUBLE DRIVES

DUOMAT 10/11



Description	Its fixed mounting size and stroke and built-in control system make it easy to install and operate. A modern housing design, increased mechanical stability and the many configuration details and options make our double drive even more attractive to use.
Max load	4500N
Installation size	581+stroke (51+n*9 (n≤4))
Noise without load	≤60dB(A)@500mm
Installation mode	Fixed length 581mm
Extension interface	Max 2 actuators and 2 handsets

LIFTING COLUMNS

DC 20



Description	Versatile heavy-duty column with a particularly low noise level during operation. Small installation size with a long stroke makes it ideal for ICU beds and applications with high off-center loads.
Max load	2000N
Installation size	350+400mm or 320+380mm
Noise without load	≤50dB(A)@500mm
Installation mode	Upright mounting
Feedback	Hall sensor
Anti-twist device	1000N

Intelligent systems

The needs-based care of patients requires power and concentration. Intelligent systems from Dewert make it easier to work in nursing facilities and can be individually adapted to the requirements of the situation.

CONTROL UNITS

MC 16



Description

MC 16 is a single-fault protected control unit with integrated SMPS that can control multiple drives and support program definition.

Connection options:

Drives

1 - 5

Operating elements

1 - 2

MC12



Compact and affordable single-fault protected control unit with integrated SMPS, designed for directly mounting on the drive.

1 - 4

1

MC 15 / 17



Description

Single-fault protected control unit with integrated SMPS, designed for directly mounting on the drive. MC17 also has supportable program definition.

Connection options:

Drives

1 - 4

Operating elements

1 - 2

PLC 20

**COMING
SOON**



PLC 20 is a control unit specially engineered for patient lifters. Its slim and vertical design adapts perfectly to lifters structures.

HANDSETS

Iproxx AC 2

Iproxx 3



Description	Outstanding durability and safety with a wide range of functions: The IPROXX AC 2 enables multiple drives to be locked and unlocked individually.	Versatility in a slim design: The IPROXX 3 can be used for any number of drives and a wide number of applications.
Indicators	13	3
Keys	22 (metal dome keys)	14 (metal dome keys)
Customizable parts	Key functions and foil pattern	Key functions and foil pattern

Iproxx AC 2 Display

Iproxx 3 Display



Description	The IPROXX AC 2 Display enables multiple drives to be locked and unlocked individually, while several bed information can be visualized on the built-in LCD display.	Intuitive and user-friendly handset with fully integrated LCD display. The IPROXX 3 Display is single-fault protected, durable and versatile.
Indicators	7	-
Keys	25 (metal dome keys)	8 (metal dome keys)
Customizable parts	Key functions and foil pattern	Key functions and foil pattern

Iproxx AC Touch

Nocturne



Description	Modern nurse panel with a full size touch LCD screen display and full functions. Equipped with speakers, it can reproduce uploaded videos.	Versatile and durable handset with smooth, easy-to-clean surface. The fluorescence aspect ensures optimum visibility of the keys in low-light conditions.
Indicators	0	3
Keys	2	11
Customizable parts	-	Foil pattern

Iproxx AC

Iproxx 4



Description	Simple design and small size make Iproxx AC ideal for nursing beds, while its independent function lock keys ensure safety.	Simple design, small size and easy to clean: Iproxx 4 is the cost-effective solution for care beds.
Indicators	7	2
Keys	14 (metal dome keys)	11
Customizable parts	Foil pattern	Key functions and foil pattern

HANDSETS

Iproxx 2



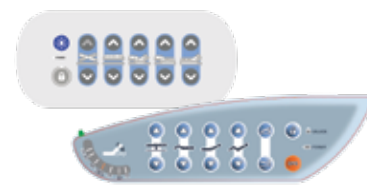
Iproxx 4 Lifter



Description	The affordable IPROXX 2 combines robustness and versatility with a slim and elegant design. Its silent keys ensure discretion while operating.	Handset for patient lifter, designed in a set with the PLC 20 control unit. Its foil design can be customized to meet the customer requests.
Indicators	3	3
Keys	11	4
Customizable parts	Foil pattern	Key functions and foil pattern
Optionals	Bluetooth interface Integrated mechanical or programmable multi-stage lock function	-

ACCESSORIES

Guardrail Control



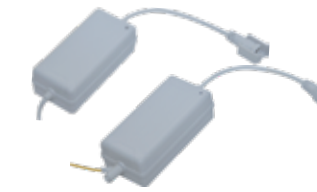
Emergency Stop



Description	Completely customizable on shape and size, the Electric Guardrail Control can also be personalized with lock/unlock and CPR buttons, power supply and charge LED indicators.	Discreet and reliable, the Medical Emergency Stop Switch is directly connected to the control box instead of the handset, directly cutting off the power supply when activated.
Input current	-	1A
Input voltage	-	24V DC

POWER SUPPLY

JLDP.10



PD 14 / 15



Description	One power supply for all. The JLDP.10 can be used for most applications in nursing and hospital beds.	Strong power supply with an IPX4 protection for high-demanding applications.
Input voltage	100V-240V AC	100-240V AC
Input frequency	50/60Hz	50/60Hz
Input current	1.8-2A	1.2A-2A (PD 14) 1.6A-3.5A (PD 15)
Output voltage	24V DC	29V DC

BATTERIES

BP 1



AG 7



Description	The BP 1 battery has ultra-low static power consumption (as low as 0.5uA) and an intelligent battery management to preserve battery life.	Compact design, robust housing. The rechargeable battery AG7 with proven lead-gel technology ensures the functionality of drives during a power failure.
Battery type	Lead-acid battery with built-in charger	Rechargeable lead-acid battery
Output voltage	24V DC rated capacity	24V DC
Capacity	1.2Ah	1.2Ah
Other	Intelligent low voltage alarm	Deep discharge protection



SAFETY



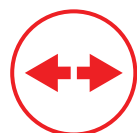
STANDARDS

Dewert products meet all of the relevant primary and product-based standards in their areas of application, including the European Regulatory Standards for the Machinery Directive 2006/EC, CE Marking (EMC Directive 2014/30/EU and 2014/35/EU) as well as specific standards that ensure compliance with electromagnetic compatibility (EMC). In addition, all Dewert products meet the European requirements for registration and prevention of chemical substances such as REACH and RoHS.



SINGLE-FAULT PROTECTION

Dewert products and systems feature outstanding functional safety to minimise dangers and risks to users. The topic of single-fault protection is an essential factor in this: Dewert systems are single-fault protected and therefore ensure that no danger arises when the first fault occurs. In addition, individual drives and functions can be locked manually.



RESET FUNCTION

Many Dewert drives can be equipped with a battery-operated reset function. This allows the lying surface of a bed to be moved into a horizontal position at any time, even if the power supply or the handset fails. Back and leg section are mechanically lowered. This gives the caregiver full control even in emergencies.

INNOVATION

Dewert is continuously developing advanced systems for the hospital and care sector. Our goal is to provide users with real added value, for example, through intelligent networking and digitisation. These innovative concepts span our entire product portfolio – including quiet MOSFET control units without relays, efficient LED systems for floor lighting, VI boxes, reading lamps, as well as the complex networking of entire systems.

Dewert continues to drive forward the digitisation and networking of the medical sector. Components such as drives, control units, operating elements and sensors can be easily integrated and centrally controlled.

Dewert is placing increased emphasis on intelligent drives with an integrated bus system, pulse width modulation, synchronisation and optical sensors. Users benefit from comprehensive management features for a wide service landscape. This includes, for example, the remote maintenance of systems, which enables better availability and planning as well as faster service times.

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