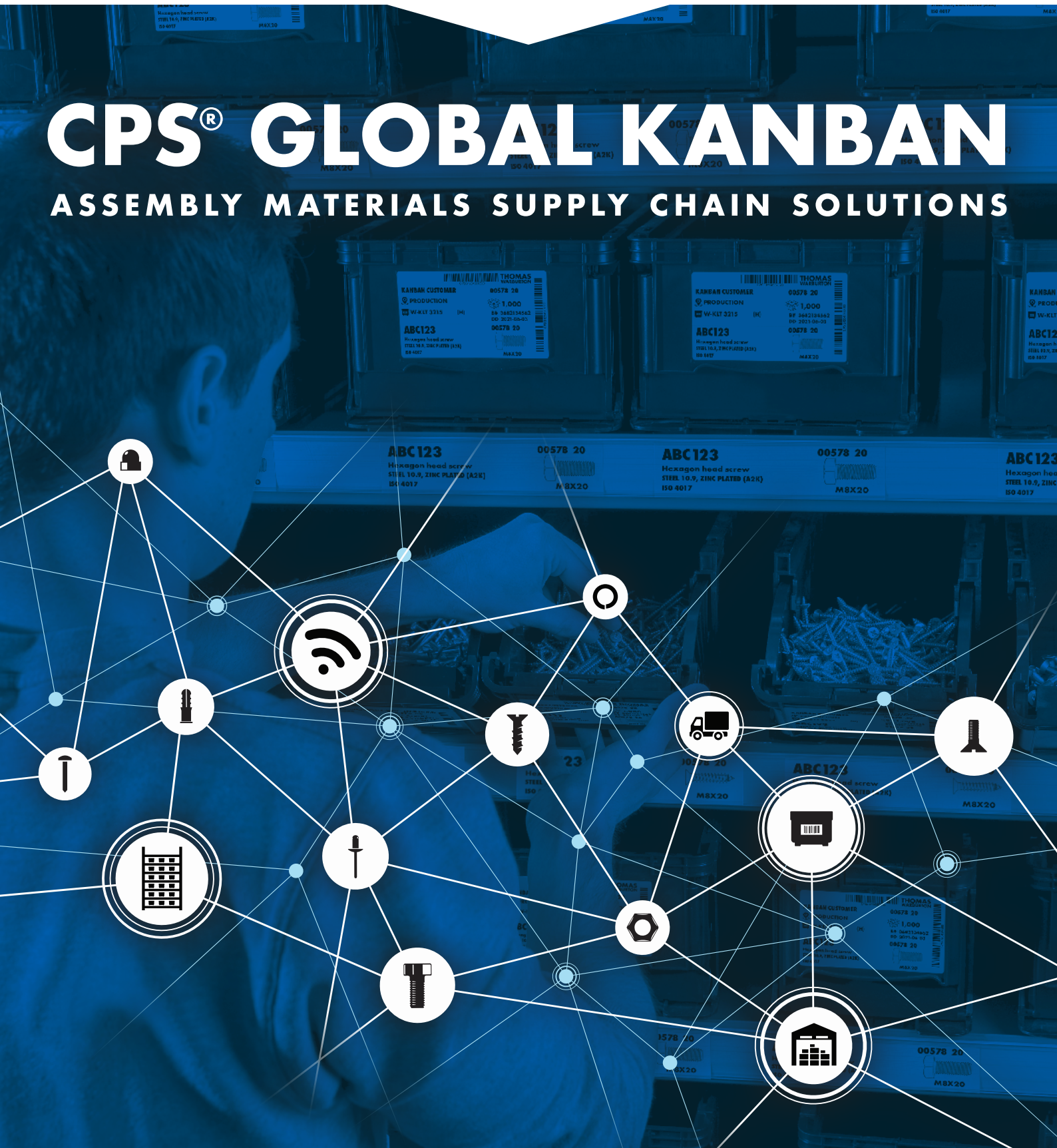




CPS[®] GLOBAL KANBAN

ASSEMBLY MATERIALS SUPPLY CHAIN SOLUTIONS



THOMAS
WARBURTON

KANBAN CUSTOMER 00578 20

PRODUCTION 1,000

W-KIT 3315 (K)

ABC123

Hexagon head screw
STEEL 10.9, ZINC PLATED (A2K)
ISO 4017

MBX20

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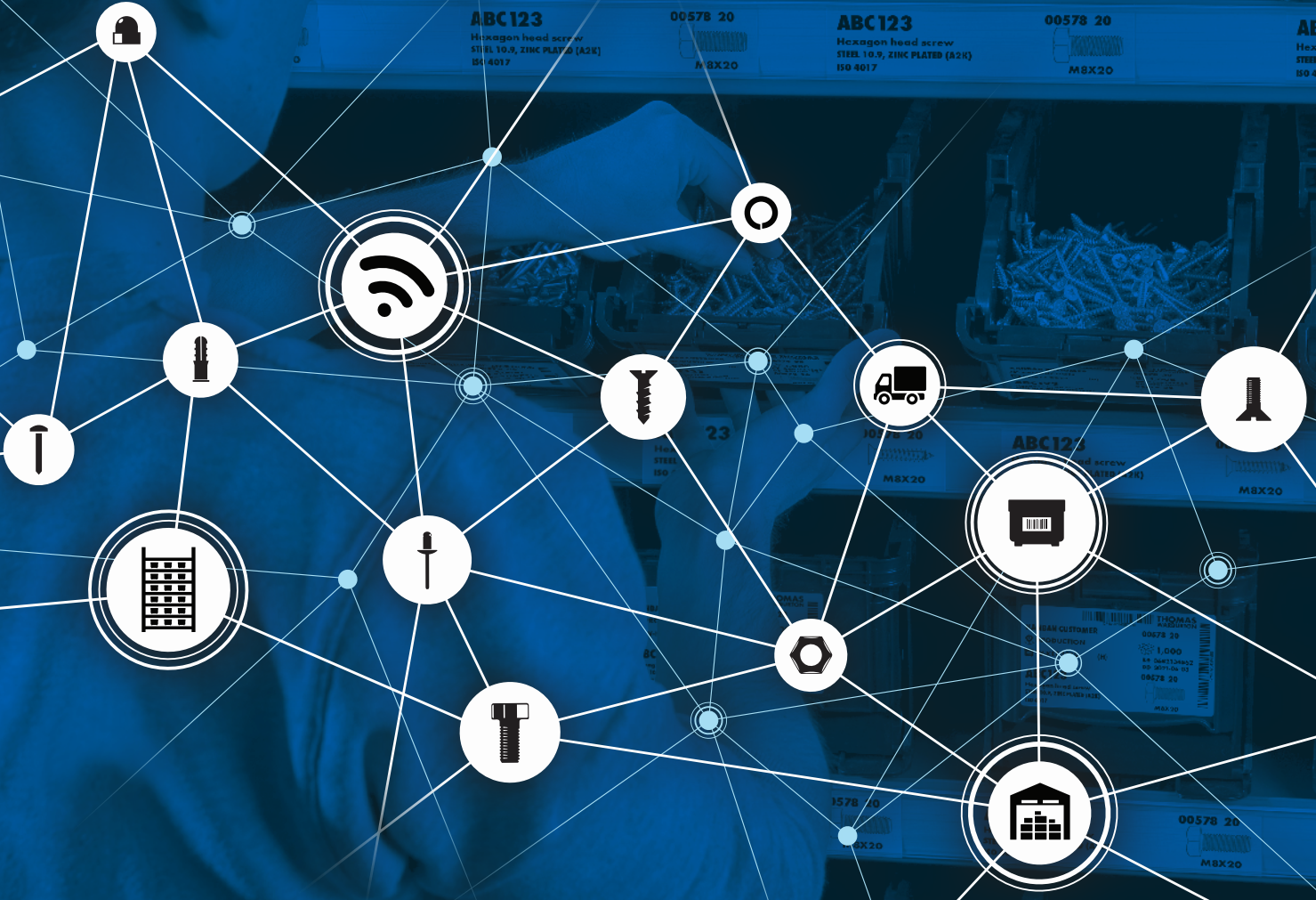
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Marilena Romano
Managing Director

Dear Industry Partner,

Efficiency is crucial to be competitive and to remain industry leaders in our respective sectors. Often, the proper management of direct material can be overlooked as focus is concentrated on managing production. Procuring direct materials can quickly become a headache, especially if there is breakdown in communication anywhere between end-user, store-person and procurer. Tracking accurate inventory and usage numbers can become overly complex putting shortages at risk. In your industry, it is crucial that these risks are mitigated without compromising your operational efficiency.

- "Who's the supplier?"*
- "How much stock do I have left?"*
- "When will the stock arrive?"*
- "Where can we find the stock?"*
- "Can I access the stock outside of operating hours?"*
- *This brochure will provide all the answers to your inventory management issues.*

Thomas Warburton's CPS® Global Kanban Solution is designed and optimised to address all the problems you have, or may have, with your direct material inventory; all with the added benefit of complete transparency and data accessibility.

- Secured and efficient storage
- Automated reordering solutions
- Usage reporting
- 24/7 access
- And much more...

Together, we can design the perfect solution to suit your needs - saving your business considerable time and money.

Please take the time to read this brochure and if you may have questions, feel free to contact us. A dedicated expert will support you with all your queries.

Marilena Romano
Managing Director

PROBLEMS IN OPERATION?



SMALL PARTS, BIG EFFORT!

A-Parts

Value 75% ; Vol 5%

- Engine
- Car Body
- Gear Box
- ...

B-Parts

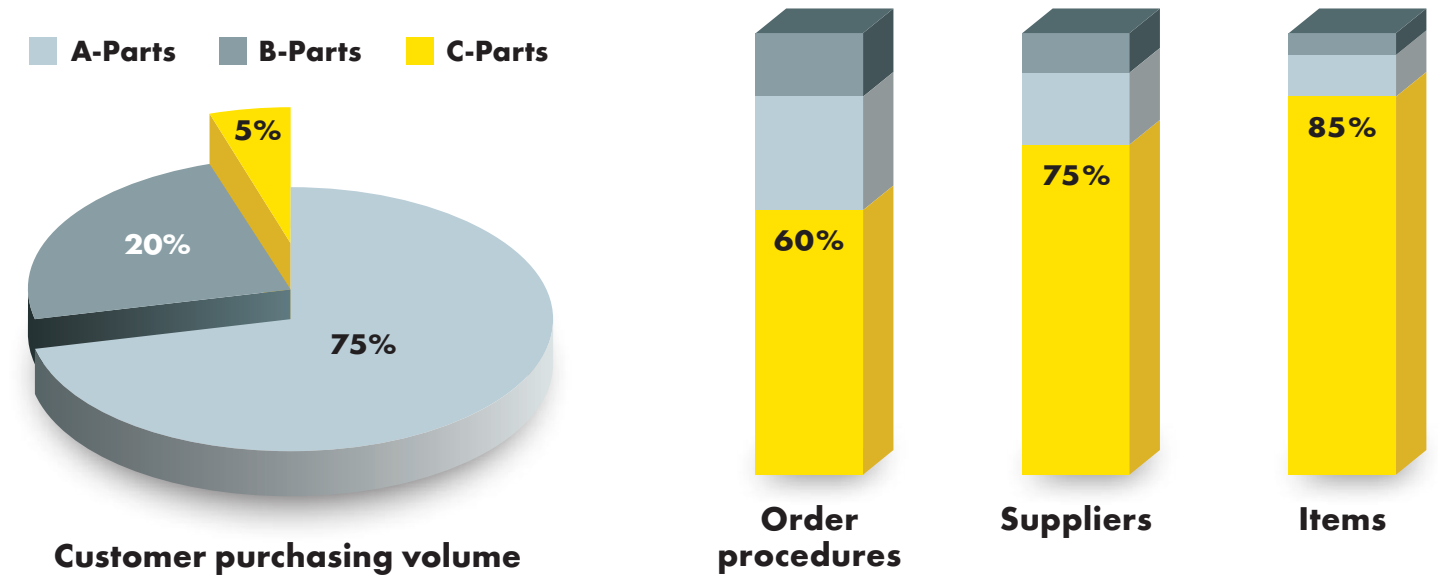
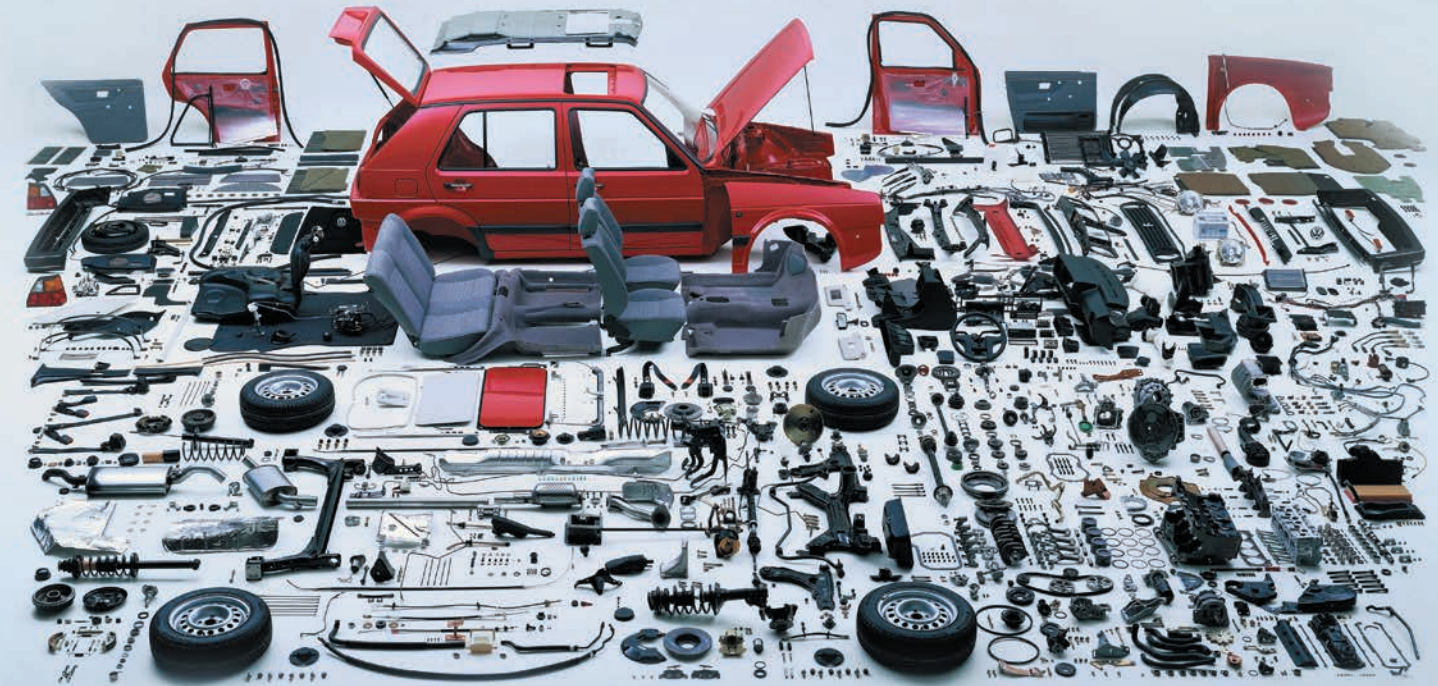
Value 20% ; Vol 20%

- Car Seats
- Car Doors
- Wheels
- ...

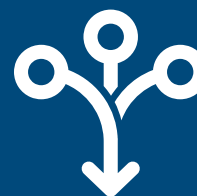
C-Parts

Value 5% ; Vol 75%

- Springs
- Washers
- Nuts & Bolts
- ...



PROCESS SIMPLIFICATION



**CONSOLIDATE
YOUR
SUPPLIERS**

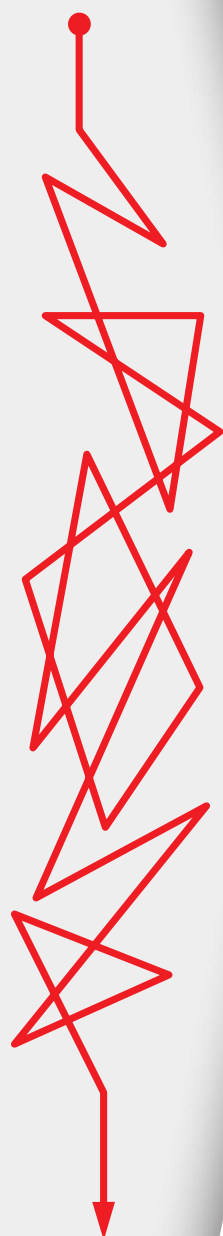
**REDUCE
YOUR
STOCK HOLDING**

**SIMPLIFY
YOUR
ORDERING PROCESS**

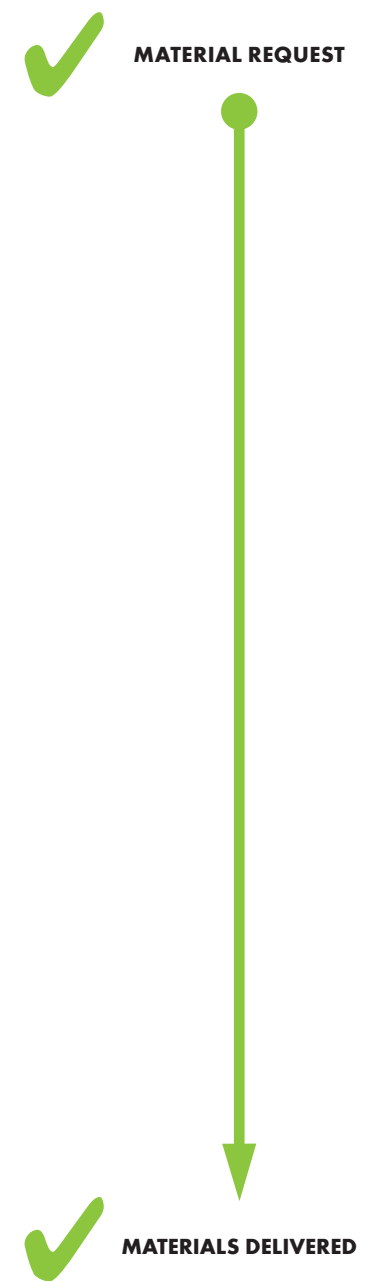
**SECURE
YOUR
PRODUCTION**

BEFORE (traditional process)

SCHEDULING	Preparing the order Ordering material Order confirmation control Delivery tracking
RECEIVING DEPARTMENT	Check delivery authorization Adjustment of freight papers Unloading WE Booking Office Goods WE Booking Office LHM Control (identity, quantity) Possible repackaging of goods
WAREHOUSING	Movement to storage Booking storage location Stock management Physical inventory Removal from stock Booking of removed stock
COMMISSIONING	Demand requirement Order preparation / KL Removal Posting entry Transport Provision
PRODUCTION SUPPLY	Internal transport Booking to production Provision on line Removal for consumption Return LHM / Packing
ACCOUNTING	Auditing of accounts Initial assignment of accounts Booking Payment instructions



AFTER (with CPS® Global Kanban)



Thomas Warburton is your complete range supplier and logistics service provider for assembly parts and inventory management technology. Our expertise in process simplification combined with our innovative 'Industry 4.0' based Kanban system (CPS® Global) enables your business to spend less on the things that are costing your business great amounts of time and financial resources. And it doesn't stop there - you have complete transparency through the entire process and business partnership and above all, the highest possible security for the procurement and supply of your assembly line items.

Stock replenishment of your inventory items could not get any simpler!

- 1) Gather the depleted bins from the top shelf of your Kanban rack
- 2) Scan all the empty bins
- 3) Upload the scan data to CPS® Global Online
- 4) Your order is then picked and delivered
- 5) Replenished stock in new bins is put away into your Kanban system



CPS® GLOBAL COMPONENTS

KANBAN RACK

W-KLT® BIN

ADD-ONS

BIN AND SHELF LABEL

CPS® GLOBAL ONLINE PLATFORM

MANUAL SCANNER

SPACE SAVING

MAXIMUM OPTIMISATION



CPS® GLOBAL KANBAN RACKING SYSTEM



Your flexible inventory management system

Specifically designed to accommodate our range of W-KLT® bins for shelf/bin optimisation, our highly stable and galvanised finished CPS® Global Kanban racking solution (inventory management system) keeps customers inventory clean and in place with minimal space, where and when you need it.

For maximum optimisation, each rack can facilitate up to 9 shelves with the top shelf reserved for empty bins to be scanned manually via a barcode scanner or automatically via the RFID CPS® iSHELF (see pages 24-25) for the reordering of repeat stock orders.

Our team works closely and strategically with our customers to implement and install CPS® Global Kanban racks to meet specific manufacturing production line usage and work area requirements.



Key features

- Simple and easy to install, extend and relocate
- Space saving
- Strong galvanised structure
- Precise, direct supply of products at point of use
- Optimised quantity per item
- No asset investment required
- Reduction of supply chain processes
- Angled shelves help manoeuvrability of bins

Rack dimensions

136 x 228 x 60 or 80cm* (W x H x D)
*80cm depth rack required for the CPS® iSHELF.

Kanban rack W-KLT® Bin capacity

Our Kanban rack can house a mix of our 4 standard W-KLT® bin sizes. Below are the capacities per rack based on 8 stocked shelves filled with the same size bin.

- 28 small bins (W-KLT® 2115) = 2x 64 line items
- 96 medium bins (W-KLT® 3215) = 2x 48 line items
- 128 large-narrow bins (W-KLT® 4115) = 2x 64 line items*
- 64 large-wide bins (W-KLT® 4315) = 2x 32 line items*
*80cm deep rack required

UNIQUE W-KLT® KANBAN BINS

The smartest bin for your
Kanban system



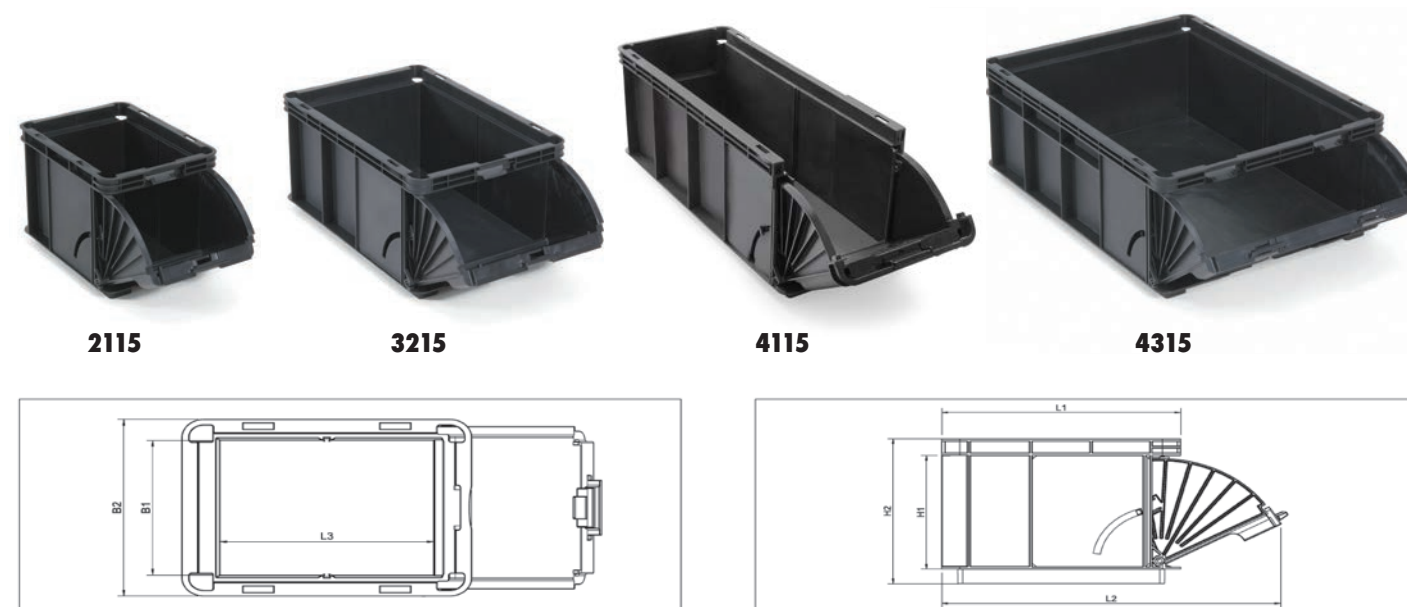
Many different types of bins are used for the storage of C-Parts within industrial Kanban systems. However, overfilled manufacturing facilities, inefficient usage of storage space and disruptions in the process flow are such common problems customers face before implementing CPS® Global Kanban.

The use of the patented Würth W-KLT® bin range is an effective solution to these past problems regarding transport, accessibility and space in the production plant.

From the smallest of screws to very large bolts and or consumable items, there is a W-KLT® load carrier solution for all your inventory requirements.

Key features

- Maximum transport security
- Levered front flap for easy access
- Optimum use of space
- Strong, durable and break-proof
- Stackable via interlocking bottom
- Optimised for contents and the kanban rack
- Front and back hand-holds for optimum grip
- Up to 50% less shelf space required compared to traditional storage



Type	Exterior dimensions (mm)			Internal dimensions (mm)			Weight (g)	Volume (Litre)
	Length L1 (Open Drawer L2)	Width B2	Height H2	Length L3	Width B1	Height H1		
2115	197 (290)	148	147.5	155	117	129	338	2.5
3215	297 (385)	198	147.5	247	166	115	668	5.3
4115	396 (486)	148	147.5	335	117	129	810	5
4315	396 (486)	298	147.5	335	265	115	1168	10

KANBAN BIN AND SHELF LABELS

All the important information you need on one label - condensed, detailed, customisable and evolutive

With each Kanban delivery cycle, new labels are printed and applied to each W-KLT® bin with updated customer and product specific information, and barcoded for reordering. That means each order is unique, providing **batch traceability** for every item you order.

All product specific Kanban information and more is also accessible and available 24/7 in your account from the CPS® Global Online Software*.



UNIQUE
BARCODE

BATCH
NUMBER

BIN
LOCATION

YOUR
PART
NUMBER

PRODUCT
DESCRIPTION

PRODUCT PICTURE
& DIMENSION



Additionally, each CPS® Global Kanban rack shelf displays labels, clearly featuring your product number, description and picture. This assists as a location indicator for the consistent placement of your new fully-stocked bins after each repeat order.

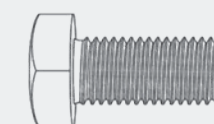
YOUR
PART
NUMBER

PRODUCT
DESCRIPTION

ABC123/M8X20

Hexagon Head Screw
Steel 10.9, Zinc Plated (A2K)
ISO 4017

7001234567



PRODUCT
PICTURE

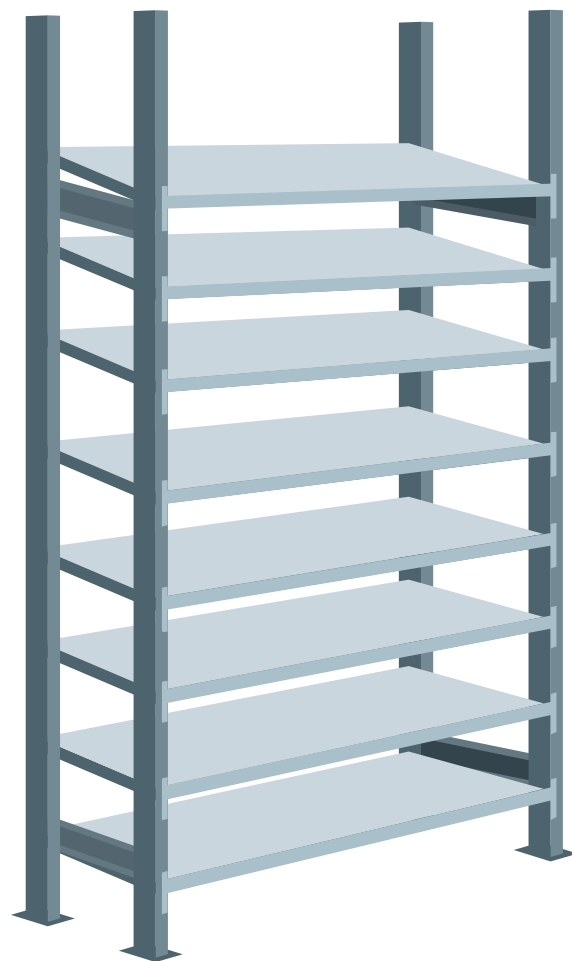
*For Thomas Warburton CPS® Global customers only

CPS® GLOBAL KANBAN ADD-ONS

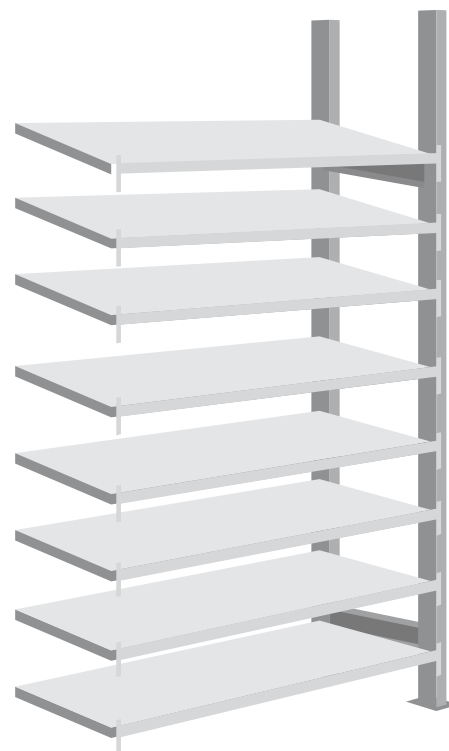
Extend your CPS® Global Kanban capacity

Depending on the volume of assembly line items required at different locations in your production line, multiple 'extension bay' racks can be added (with no limit) by attaching additional racks to the initial CPS® Global Kanban rack for increased capacity and uniformity.

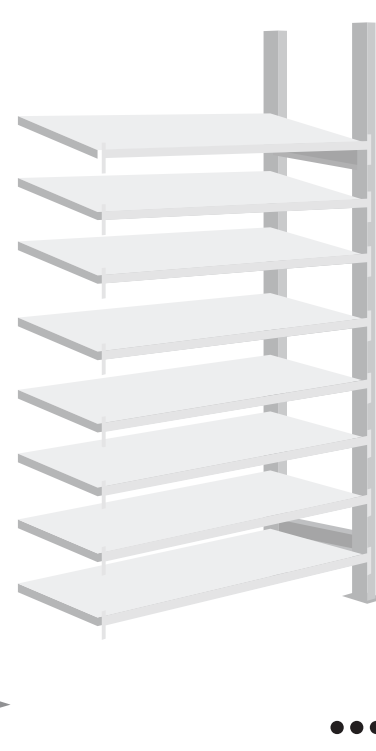
CPS® Global Kanban Starter bay



Extension bay 1



Extension bay 2



CPS® MULTI-Trolley – For mobile use in your production line

CPS® Global Kanban serves as your master inventory management system where all of your assembly parts are stored.

The CPS® MULTI-Trolley is ideal for use as an intermediate mobile storage space, perfect for housing and picking your 'on-the-go' assembly parts right across the various stages of your production line. Once the bins are empty, return them via the CPS® MULTI-Trolley to your main CPS® Global Kanban rack for the stock replenishment process.

Key features

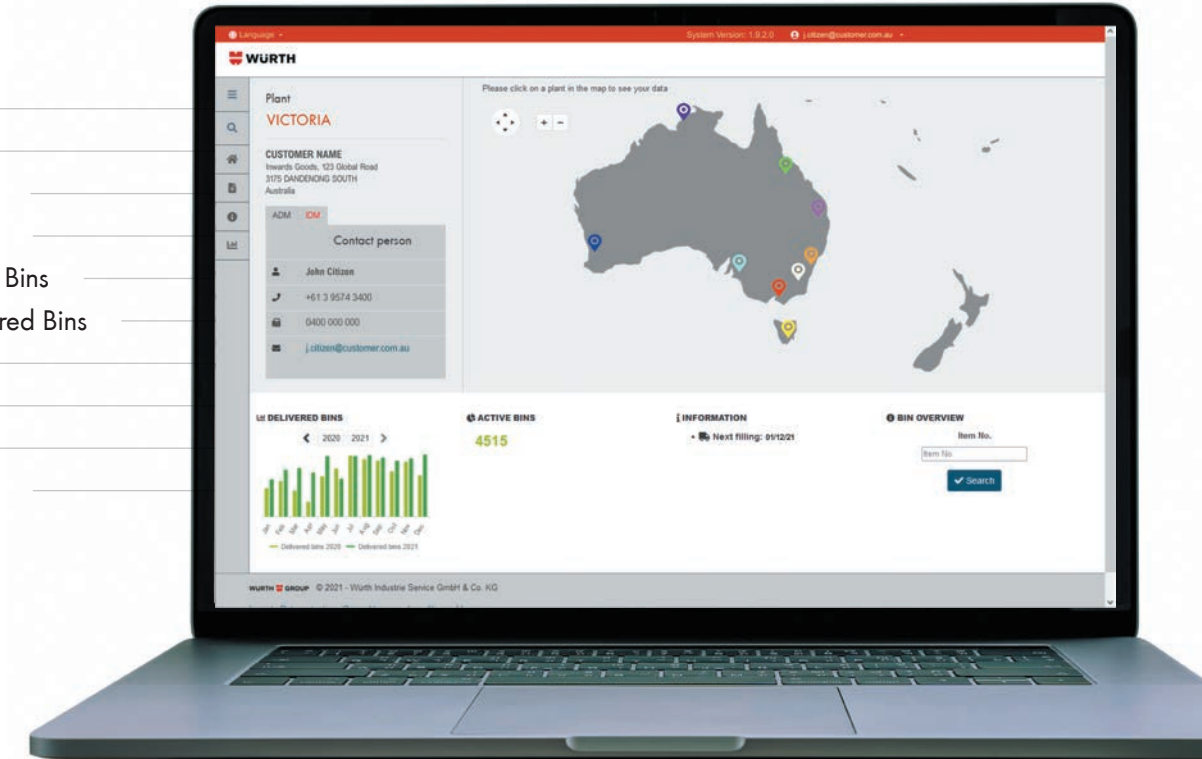
- Even levels with MULTIplus250 shelves
- Two swivel castors with parking brake and two fixed castors for optimum manoeuvrability and stability
- Handle for easy pushing and pulling
- Levels are height adjustable in increments of 25mm
- Loads up to 75kg per level (evenly distributed)
- Available in 600mm and 800mm depth
- Reinforcement by length bar (7 pairs per trolley)
- All length bars (front and rear) have a 55mm raised edge to eliminate bins falling from shelf
- Fast setup by simply inserting the levels
- Multifunctional frame pre-assembled
- RFID-ready (can include integrated CPS® iSHELF as top-most shelf)



CPS® GLOBAL ONLINE PLATFORM

24/7 access to full-data transparency of your kanban system

- Bin Overview
- Back Orders
- Planned Deliveries
- Item Quick Access
- Number Of Active Bins
- Number Of Delivered Bins
- Plant Details
- Usage Reports
- Contact Details
- And Much More...



- Bin Count
- Your Part Number
- Product Description
- Status
- Bin Size
- Scan History
- Refilling Quantities
- Parts Location
- Shipment Status
- And Much More...

CPS® MOBILE SCANNER APP



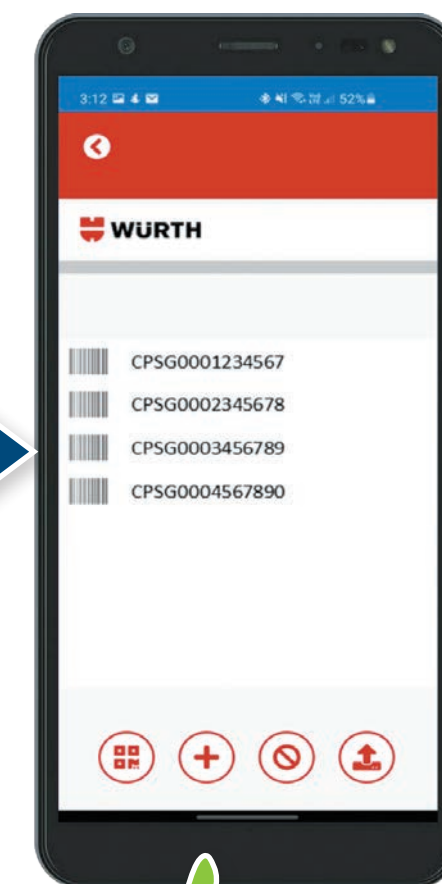
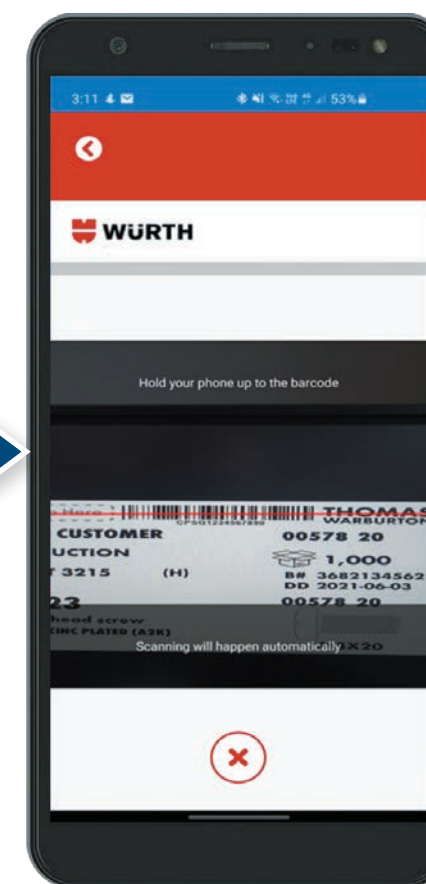
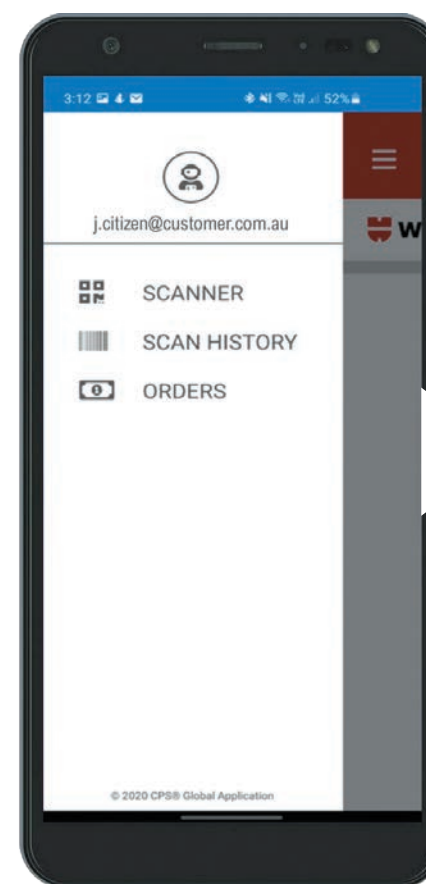
Your scanning companion for stock replenishment

The CPS® Mobile Scanner App is a convenient alternative to using a traditional barcode scanner for generating repeat orders. When logged into the app*, you are connected to your CPS® Global account with the added benefit of sending your scans (order data) directly from your mobile device.

1. Log in

2. Scan your empty kanban bins

3. Upload the scans



*Mobile network or Wi-Fi connection required

**Order created
... That's it!**

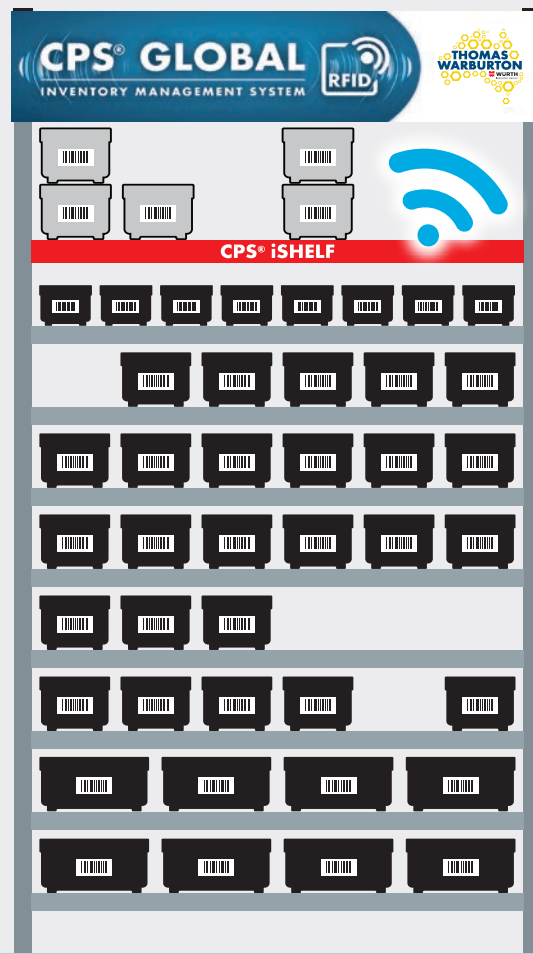
Download on the
App Store



GET IT ON
Google Play



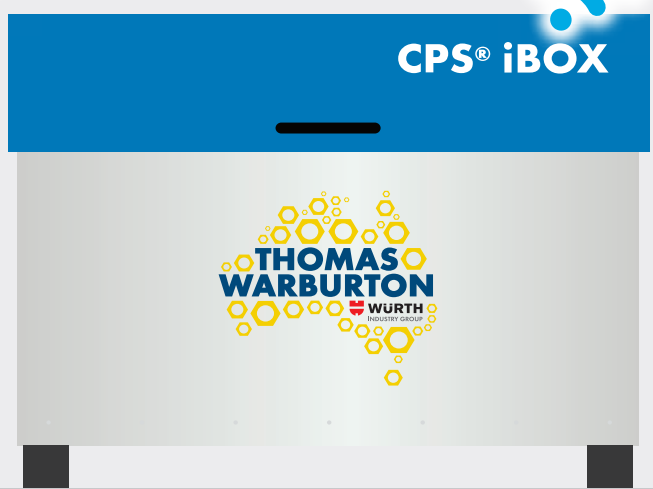
ADVANTAGES USING RFID KANBAN TECHNOLOGY



CPS® iSHELF

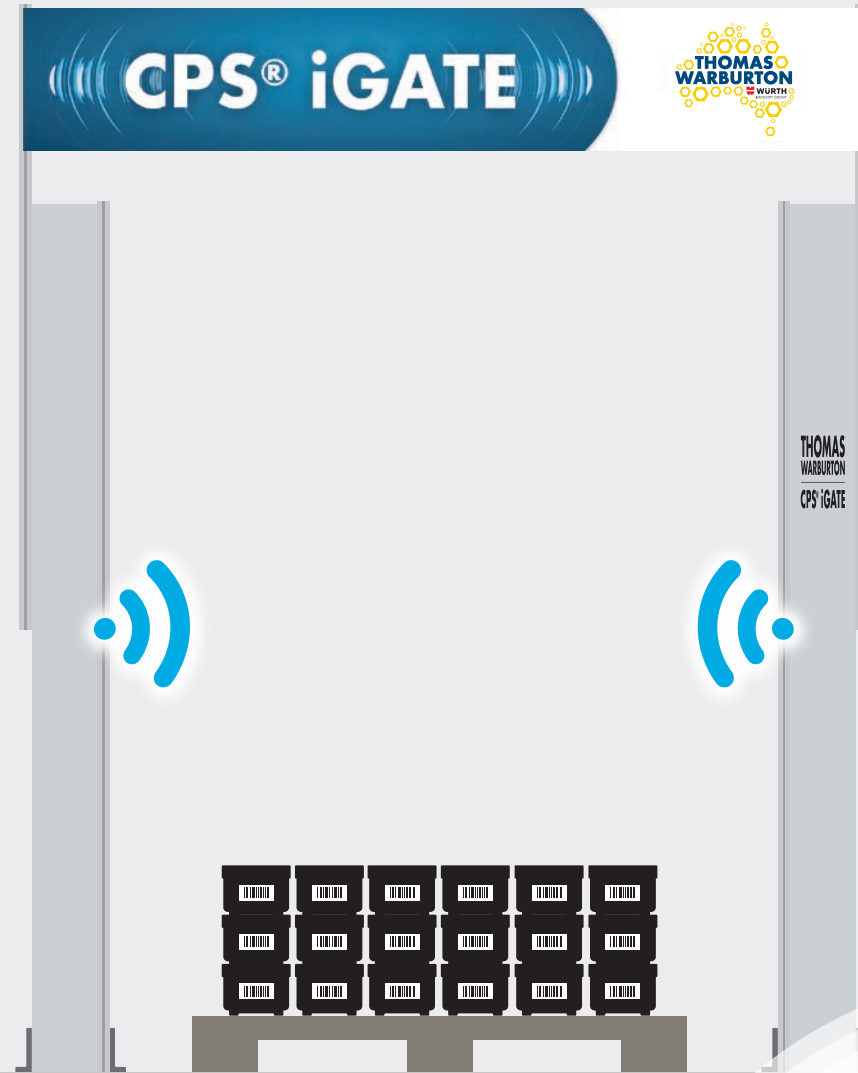


CPS® iPUSH

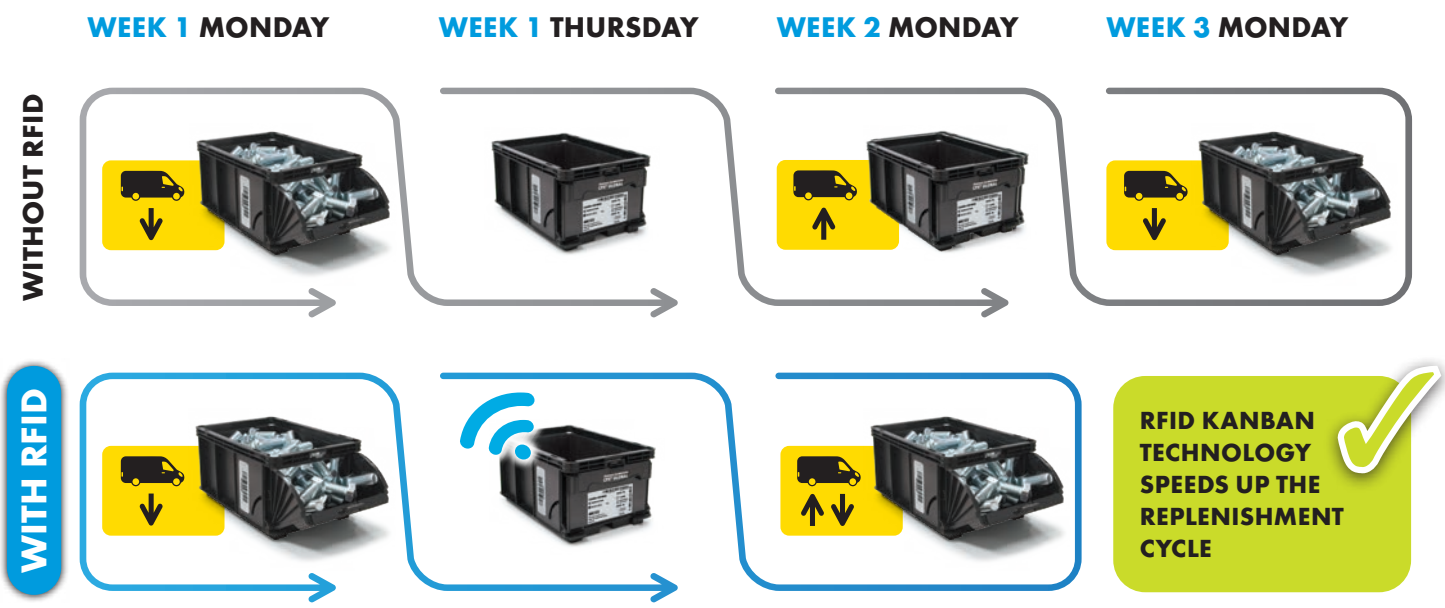
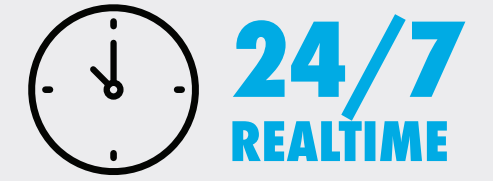


CPS® iBOX

- We know your demand "in real time"
- Data is transmitted automatically
- Continuous scanning
- Greater security of available goods
- Independent 4G SIM card operation
- Elimination of manual processes
- Reduced risk of stock-outs

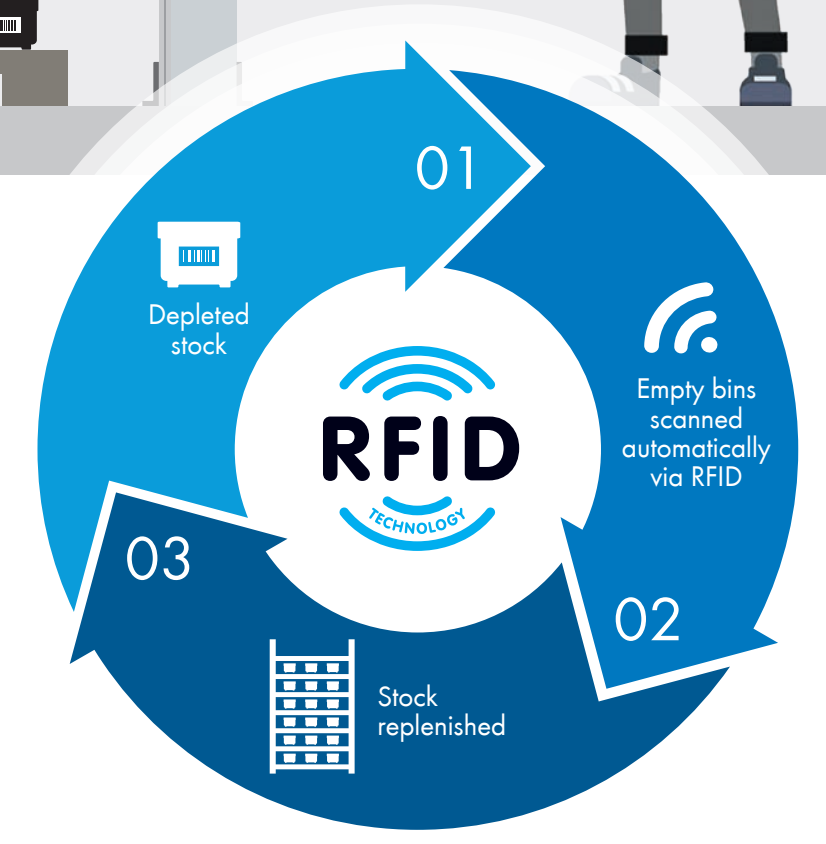


CPS® iGATE



Replenishment of your inventory items speeds up with RFID technology compared to the standard Kanban process!

- 1) Place the depleted bins on the CPS® iSHELF or in the CPS® iBOX or pass them through the CPS® iGATE or by pressing the button on the CPS® iPUSH
- 2) The scan data is automatically uploaded to CPS® Global Online and your order is picked
- 3) Your order is delivered and the replenished stock in new bins is put away into your Kanban system



THE INTELLIGENT SHELF IN YOUR KANBAN RACK

CPS® iSHELF

**FAST DATA
TRANSFER**

**MULTIPLE
SHELVES CAN BE
OPERATED AT
ANY TIME**

**NO NEED FOR
MANUAL ENTRY**

**NO ADDITIONAL
SPACE REQUIRED**

**UP TO 2 LEVELS
OF BIN STACK**

**AUTOMATIC
ORDERING PROCESS**

BATTERY OPERATED

**MAXIMUM
SPACE SAVING**

CPS® iSHELF

An integrated intelligent shelf for your Kanban system

Replacing the top most shelf in the CPS® Global Kanban rack, empty W-KLT® Bins (labelled with RFID tags) are placed onto the CPS® iSHELF to automatically and simultaneously trigger repeat stock orders via RFID data transfer. This eliminates manual process of scanning the barcodes from each empty bin as well as the requirement to upload the scan data via CPS® Global Online. The RFID tag (on the side of each bin) is linked with the specific product information in plain site on the front of the W-KLT® bin that is customised to you.

The CPS® iSHELF is incorporated into the 800mm deep CPS® Global Kanban rack which can service multiple rack extension bays.

Key features

- RFID antenna on top-shelf
- Battery operated (lasts up to 3 years with light indicator when low)
- 4G connection / 240w powered RFID controller
- Controller location flexible up to a 25m radius of the CPS® iSHELF
- Multiple CPS® iSHELFs can be connected to one single controller
- Up to 64 bins (W-KLT® 2115) can be placed on the CPS® iSHELF



THE LARGE CAPACITY HOLDER

CPS® iBOX

**HIGH SCANNING
ACCURACY**

**CENTRAL POINT
TO COLLECT
EMPTY BINS**

**EASY TO MOVE
AROUND YOUR
FACTORY**

**SECURED SCAN
WITH ITS CLOSED
SYSTEM**

HIGH CAPACITY

**ONE SYSTEM FOR SEVERAL
SUPPLY CONCEPTS**

**CHANGE OF LOCATION
POSSIBLE AT ANY TIME**

**VERY LITTLE
FLOOR SPACE
REQUIRED**

CPS® iBOX

The intelligent box for your Kanban system

Situated separately to the CPS® Global Kanban rack, up to 100 empty W-KLT® Bins (labelled with RFID tags) can be placed inside the CPS® iBOX to automatically and simultaneously trigger repeat stock orders via RFID data transfer. The RFID tag (on the side of each bin) is associated with all of the specific customer and product information that's on the front (barcoded) W-KLT® Bin label. One CPS® iBOX can service multiple Kanban racks for repeat orders.

The standard kanban process of manually scanning the barcode of each empty bin and the requirement to upload the scan data via CPS® Global Online is no longer required.

Key features

- High capacity of up to 128 W-KLT® Bins (based on W-KLT® 2115 size bin)
- Position anywhere independent of the kanban rack (240W power required)
- Error-free scanning - security of data transmission through a closed system
- Self-contained RFID technology - fully automated determination of requirements
- 4G connection



CPS® iBOX dimensions 135 x 122 x 91cm (W x H x D)



THE GATE FOR BULK READING

CPS® iGATE

**TIME SAVING
WITH DATA
ACQUISITION**

**FLEXIBILITY
OF USE**

**CAN SCAN UP
TO 200 BINS AT
ANY ONE TIME**

**INTEGRATION
INTO YOUR
OWN LOGISTIC
PROCESSES**

**VERY HIGH
CAPACITY**

**DIRECT READING OF THE
GOODS TRAFFIC**

**CAN BE USED AS AN
ORDERING SYSTEM**

**INSPECTION
OF INCOMING
AND OUTGOING
GOODS**

CPS® iGATE

The very-high capacity solution for empty bins

Situated separately to the CPS® Global Kanban rack, more than 200+ empty W-KLT® Bins (labelled with RFID tags) are passed through the CPS® iGATE simultaneously via a material train to automatically and instantly trigger repeat stock orders via RFID data transfer. The RFID tag (on the side of each bin) is associated with all of the specific customer and product information that's on the front (barcoded) W-KLT® Bin label. One CPS® iGATE can service multiple Kanban racks for repeat orders.

The standard kanban process of manually scanning the barcode of each empty bin and the requirement to upload the scan data via CPS® Global Online is no longer required.

Key features

- Very high capacity of more than 200 W-KLT® Bins per scan
- Position anywhere independent of the kanban rack (240W power required)
- Error-free scanning - security of data transmission through a closed system
- Monitor incoming and outgoing goods in real-time
- Precise control of the flow of goods
- Industry 4.0 inventory management technology
- Drive through system
- Detects goods in and goods out
- Identification of demand fluctuations and peaks
- 4G connection



CPS® iGATE dimensions (L x W x H mm)

System 1200 x 3000 x 1900 (width customized up to 4500mm possible, height up to 3500mm possible)

Housing 1200 x 220 x 1900 (height up to 2500mm possible)



INDUSTRY 4.0

INNOVATION

iSCALE

iPALLET

iTAGBOX

iPLACER

**LATEST
TECHNOLOGY**

**CREATING NEW SYSTEMS
FOR AUSTRALIAN
INDUSTRIES**

**OPTIMISING YOUR
REORDERING PROCESSES**

**PROTOTYPING
AND
DEVELOPPING
NEW SOLUTIONS**

FUTURE INNOVATIONS

CPS® RFID solutions currently in development

CPS® iPUSH®

- Wireless and freely placeable with flexible mounting options
- Ideal solution for large/bulky items such as threaded rods etc.
- Pressed = ordered
- Suitable for pallet Kanban
- Speed and efficiency in ordering on site
- Requires a controller placed within a 25M radius of the CPS® iPUSH



CPS® iPLACER

- Compact solution, can be attached to any existing conveyer belt
- Order sent automatically as bins pass the CPS® iPLACER® reader
- Autonomous, independent and wireless system
- Quick to install without changing existing processes or setups
- Can be used with any size of container
- Fast reading
- Controller required placed within a 25M radius of the CPS® iPLACER®



CPS® iSCALE

- Highly flexible solution, can be placed anywhere
- Compact solution, cleverly attached to the Kanban bins
- Autonomous, independent and wireless system
- Equipped with a sensor-controlled scale
- Order is sent automatically when stock reaches a trigger point level
- Can be used with any size container



CPS® iPALLET

- Large system allowing to scan multiple bins/cards at any time
- Hybrid system between the CPS® iSHELF and the CPS® iBOX
- Autonomous, independent system (240V outlet required)
- Easy to carry anywhere with a pallet jack or forklift
- EURO-Pallet size
- Can be used with any size container
- 4G connection



3D PRINTED PARTS

Reduce downtime with 3D printed production tools and parts, seamlessly integrated into your CPS® Global Kanban system!



Prototype to production line (and fast!) enables customers to market faster, substantially reduce cost, mitigate production issues, increase sustainability, and solve everyday problems on the floor.

Right now, if you need a part, you source it and have it shipped to you. 3D printing directly on your production line eliminates the need to source and ship and allows you to print that part immediately in your facility.



Now, just because you can print a part doesn't mean that it is the most economical way to do it. Understanding where this poses the biggest impact on time and cost savings is the real benefit.

Customers who utilise this technology focus on special low use parts, tooling, parts with complex geometry, prototypes, and end of life parts to drive down cost substantially. It is not uncommon to save 70% or more in cost and more importantly, 70% of time. This may seem too good to be true, but it's not!

You now can easily create composite parts that are strong as metal or actually print in metal, even copper. It is so widely trusted that the United States Marine Corps uses this technology (via Markforged 3D printers) to print parts for the F-35 Fighter Jet.

This solution can be integrated directly into your Kanban system or alternatively, we can provide engineering support for sample studies or prototypes via locally sourced 3D printing services.

SUSTAINABLE BIN

THOMAS
WARBURTON

The first sustainable Kanban bin in the market!

The W-KLT® 2.0 in the size of 4115 (see page 13), is a sustainable bin consisting approximately 30% of the bio-based granulate S²PC® (Sustainable Sunflower Plastic Compound). Sunflower fibres are the ecological component of the granulate to reduce your carbon footprint in the production. The use of the sustainable bin helps industrial enterprises to improve their eco-balance.

Advantages of the bio-based granulate S²PC® compared with unfilled materials:

- Superior stability and stiffness
- Unique optics and haptics
- No sink marks
- Made of a sustainable by-product
- Shorter manufacturing times

The procedure from a sunflower seed to the finished bio-based granulate S²PC®



A cooperation with Golden Compound

The first sustainable Kanban bin W-KLT® 2.0 has been developed in cooperation with the Golden Compound GmbH.

Golden Compound is located in Ladbergen (Germany) and a joint venture between the companies S²PC and Cargill, for the development, production and commercialization of S²PC (Sustainable Sunflower Plastic Compound). S²PC is a low priced plastic compound based on fibres of sunflower seed hulls. All hulls that are used for the production are by-products of consisting production plants of the food industry. For this reason there is no need of using additional arable land for the production. Due to the unique processing advantages and material characteristics, S²PC is ideally suited for the logistic, furniture, automotive and building engineering industry.



E-BUSINESS

E2E – E-Business to Efficiency

EDI DATA EXCHANGE

Have your system communicate directly with ours!

In your private life you certainly benefit from online shopping. You are just one click away from your next birthday present, your smartphone or even a shirt. Online shopping saves time, creates flexibility and offers optimal overview!

But it is not only in your private life where you can benefit from the advantages of online shopping! When purchasing your C-Parts, E-Procurement is a worthwhile alternative - wherever and whenever you need it!



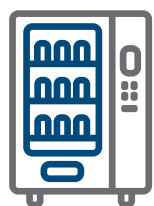
CPS® Scan App

- Quick & easy ordering App
- Any EAN barcode can be scanned
- 24/7 access



Open Catalogue Interface (OCI)

- Simplification and optimisation of the B2B-procurement process
- Entire order process (C-Parts) is handled within your own procurement system
- Time saving with order document management
- Retain of control and approval procedures



CPS® vend

- Fully automated vending machine for your indirect materials (PPE, Consumables, etc.)
- 24/7 access, with user access customisable (black list, quantity restrictions, etc.)
- Full data transparency, all event logs accessible online or directly at the machine
- Reduces wastage and therefore operating costs



The Goal

- Maximum ease and efficiency in purchasing
- Quick, independent ordering and supply of your direct and indirect materials

We use 'Electronic Data Interchange' (EDI) to exchange many standardised messages in various formats and via different communication paths, such as orders, order confirmations, delivery notes, invoices and much more.

We support a variety of protocols and transaction standards:

- EDIFACT
- VDA
- XML
- SAP/IDOC
- Other formats on request

Customer-specific solutions upon request are possible using the following data exchange protocols:

- OFTP ISDN/TCP
- FTP
- GXS (GEIS)
- X.400
- HTTP/S
- SFTP
- AS2
- SMTP
- Other protocols on request

Key benefits

- Automisation of data exchange in your supply chain
- Fast data transfer and maximum transparency
- Accelerated and transparent business processes
- High data quality without manual interaction
- Reduction of input and handling errors
- Reduction of costs and effort
- Flexible adaptability to needs and market changes
- More free space for strategic projects
- Standardised processes



CPS® miLOGISTIC

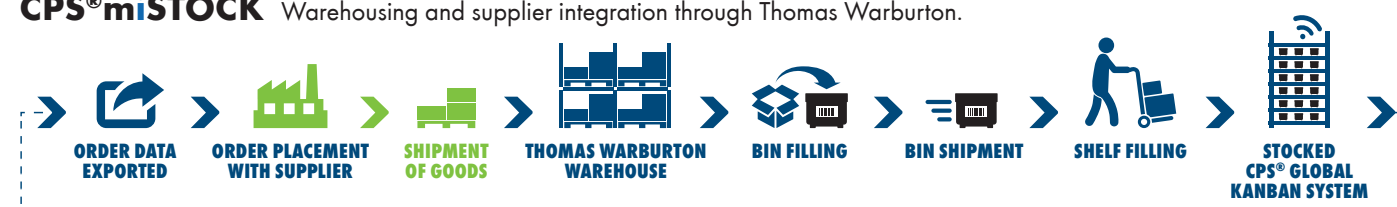


Holistic supplier integration – your ‘all-in-one’ solution!

Reducing the purchasing effort in today’s manufacturing climate is a challenge across large numbers of orders, incoming and outgoing goods, invoice handling and master data management. The solution to this is ‘CPS® miLOGISTICS’.

Thomas Warburton serves as your supply chain foundation providing a vast and diverse product range. Furthermore to our standard and special parts via our CPS® Global Kanban system, we can take care of the inventory management of your third-party parts and product groups. The below model displays the different levels within our CPS® miLOGISTICS services that will provide you a holistic supply chain and inventory management experience.

CPS® miSTOCK Warehousing and supplier integration through Thomas Warburton.



CPS® miDROPSHIP Supplier integration through third-party order processing using our Kanban system.



CPS® miSELF Independent management of products and suppliers using our Kanban system.



LEGEND THOMAS WARBURTON PARTNER SUPPLIER CUSTOMER

	CPS® Global Standard	CPS® miSTOCK	CPS® miDROPSHIP	CPS® miSELF
PRODUCT SUPPORT	•			
TECHNICAL SUPPORT	•			
QUALITY RESPONSIBILITY	•			
PRODUCT LIABILITY	•			
INVENTORY	•	•		
TRANSPORT LOGISTICS	•	•		
ON-SITE LOGISTICS SERVICE	•		•	
INVOICE HANDLING	•	•	•	
MERCHANDISE PLANNING	•	•	•	
BACK OFFICE SUPPORT	•	•	•	
STATISTICS	•	•	•	•
MASTER DATA MANAGEMENT	•	•	•	•
DEMAND ASSESSMENT	•	•	•	•

CPS® GLOBAL SERVICES

Kanban system models

Whichever Kanban system service level model is right for you, continual support is provided from your Account Manager and our dedicated internal CPS® Global team to ensure you have the best possible experience from your Kanban system.

Services provided us

- All sourcing and quality activities
- Stock Kanban items in our warehouses
- Collect empty Kanban bins
- Process order with the barcode scanner
- Upload scans to CPS® Global online platform
- 24/7 real-time empty bin scanning (RFID based)
- Replenish stock in cleaned Kanban bins with new labels
- Delivery of Kanban bins with new labelling
- Restock Kanban rack with replenished bins

Your productivity gains

- Optimised quantities per item
- Increased cash flow and reduced financing efforts
- Reduction of supply chain processes
- All processes and material management handled by Thomas Warburton
- Smart RFID technology recognises demand fluctuations in the production line, in real time! This substantially reduces the time-frame between depleted bin(s) and the delivery of additional products to the production line, further securing product availability



BASIC	FULL	FULL (RFID)
✓	✓	✓
✓	✓	✓
✗*	✓	✓
✗*	✓	✓
✗*	✓	—
✗	✗	✓
✓	✓	✓
✓	✓	✓
✗*	✓**	✓**
*Customer's responsibility	**On request	**On request
✓	✓	✓
✓	✓	✓
✓	✓	✓
✗	✓	✓
✗	✗	✓

TECHNICAL SUPPORT

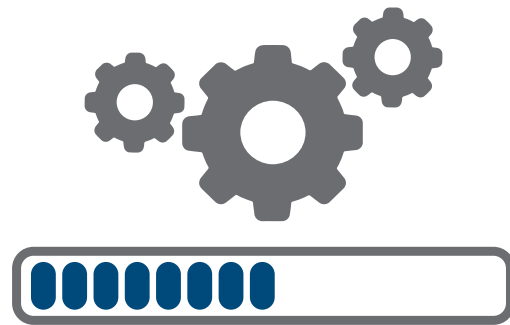


HOW CPS® GLOBAL KANBAN BENEFITS YOU



Supporting you has never been this easy!

Our team of experts are available to assist you any time using CPS® Global Online, Team Viewer, HoloMaintenance (Mixed Reality based on Augmented Reality) or alternatively we can visit you on-site for any potential hardware issues or to modify your Kanban system for your growing needs.



Keeping systems up-to-date is our main goal!

Our dedicated team of developers evolve and update our systems on a regular basis, to ensure our CPS® Global Kanban System continually offers you the best experience.



How it benefits you...

Inventory management solutions are as individual and important as the requirements throughout your company. We work closely with our customers to design an inventory management environment for their business and employees in such a way that flexible, ergonomic and individual solutions are the result. This leads to a crucial improvement to our customers productivity and output, giving them a sustainable and competitive edge.

Quantitative Effects

- Less inventory
- Consolidated deliveries
- Less transactions

Qualitative Effects

- Order and cleanliness
- Higher data transparency
- Supply security

Data Management

- CPS® Global reporting
- Data analysis
- Regular optimisation

Asset Management

- No asset investment required
- All hardware for monthly rental fee
- Change it when you need it

KANBAN HISTORY



1940

Taiichi Ohno, an industrial engineer at Toyota, developed Kanban to improve manufacturing efficiency. The system takes its name from the cards that track production within a factory. Kanban is also known as the Toyota nameplate system in the automotive industry.



1980

Open top plastic storage bins rapidly became the industry standard for compact storage solutions with many manufacturing business utilising these bins for their C-Part inventory. Since 1980, Thomas Warburton has handled inventory management for many customers which included ordering and restocking inventory and rotating the storage bins to the customer's own storage spaces.

By **1998**, barcode scanning of these bins was standard practice and the management of all customer inventory was solely handled by Thomas Warburton and 100% computerised.



2011

Based on the Würth Kanban system, Thomas Warburton developed 'CPS® Global Kanban' (originally called 'CIMS'). The Würth patented W-KLT® bins replaced the previously used open top storage bins and Thomas Warburton additionally provided customers with our very own racking and or cabinet storage solutions, specially optimised for efficient C-Part Inventory management. All stock replenishment barcode scan data was uploaded directly to our dedicated online platform to trigger new orders.



2018

RFID technology was introduced into the **CPS® Global Kanban** system to eliminate the manual process of barcode scanning bins. **RFID tags** were placed on each and every W-KLT® bin for the fully-automated and high volume scanning of empty bins for stock replenishment. CPS® Global Kanban with RFID technology is today's and the future's best practice for Industry 4.0 level manufacturing where contactless and fully-automated processes in inventory management is required.

HOLOMAINTENANCE

Remote assistance platform

HoloMaintenance is a remote assistance platform that helps professionals in manufacturing and maintenance companies to remotely carry out complex technical or troubleshooting tasks for the installed machinery.

HoloMaintenance uses technologies such as mixed reality, video calls, sharing of images and A/R annotations to improve the communication and speed up assistance interventions as much as possible, thus saving time and money and optimising the use of resources.



Thanks to the Cloud, it is possible to digitise all the service know how acquired by the company and technicians and make it available in real time for everyone. HoloMaintenance and its integrated services improve overall after sales services by drastically reducing downtime thanks to the real time availability of one or more technicians.



Your Benefits

Improved assistance

Improve your company's diagnosis, inspection and technical support processes



Reduced costs by up to 75%

Reduce travel and travel costs for operational staff by up to 75% from the first day of use



Less experts in the field

Enhance communication between technicians and supporting team by reducing the need of field experts



Optimised resource yield

Improve junior resource yield and maximize senior time and experience



Reduced errors

Improve the transfer of know how by reducing errors in service procedures



Immediate intervention

Production blocks reduced by up to 30% thanks to timely problem solving



ONE PARTNER FOR ALL YOUR C-PARTS

WE SUPPLY TO OUR CUSTOMERS EVERYDAY...

**STANDARD PARTS,
SPECIAL PARTS,
THIRD-PARTY PARTS...**



...AND LOTS MORE!



ISO 9001
Quality

We are here and happy to support you.

Your experienced Thomas Warburton Field Service Representative will work in collaboration with your team to design an integrated concept, specific to your production and operational requirements. We are available to support you nationwide.

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