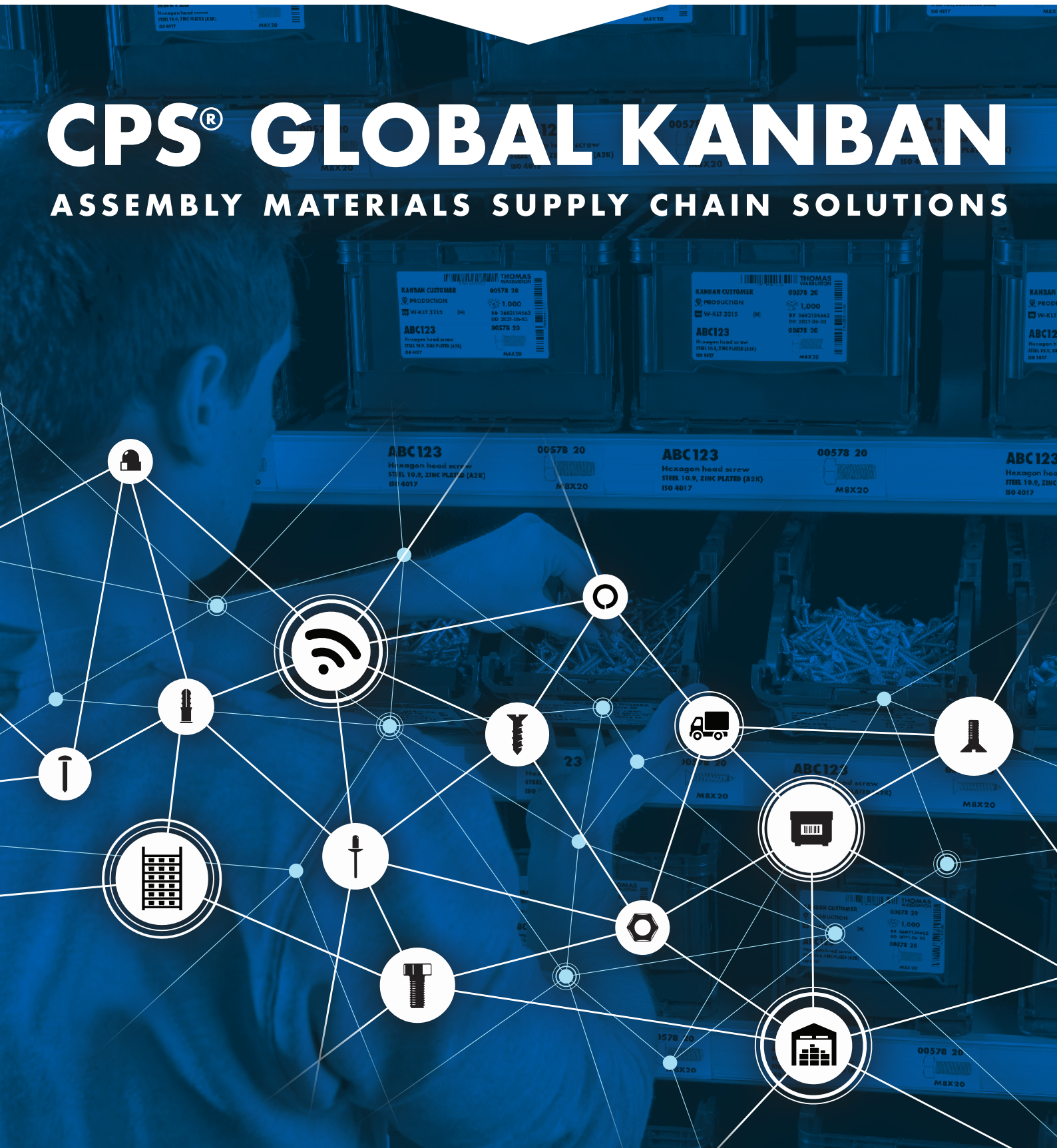




# CPS® GLOBAL KANBAN

## ASSEMBLY MATERIALS SUPPLY CHAIN SOLUTIONS



THOMAS WARBURTON  
KANBAN CUSTOMER 00578 20  
PRODUCTION 1,000  
W-KIT 3315 (K) 88 2462134543  
DO 30.21.00-03  
ABC123 00578 20  
Hexagon head screw  
STEEL 10.9, ZINC PLATED (A2K)  
ISO 4017 MBX20

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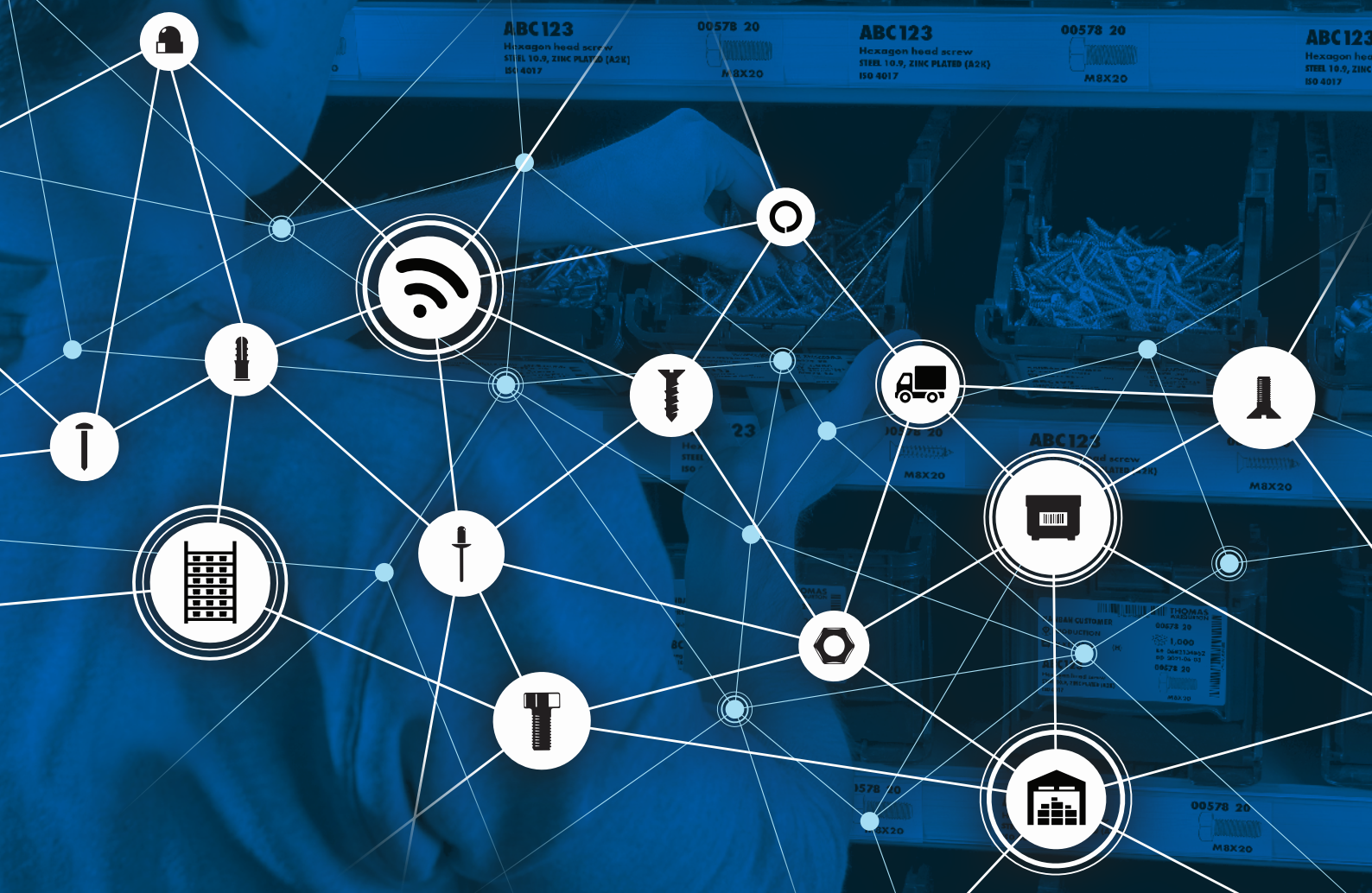
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**Marilena Romano**  
Managing Director

**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

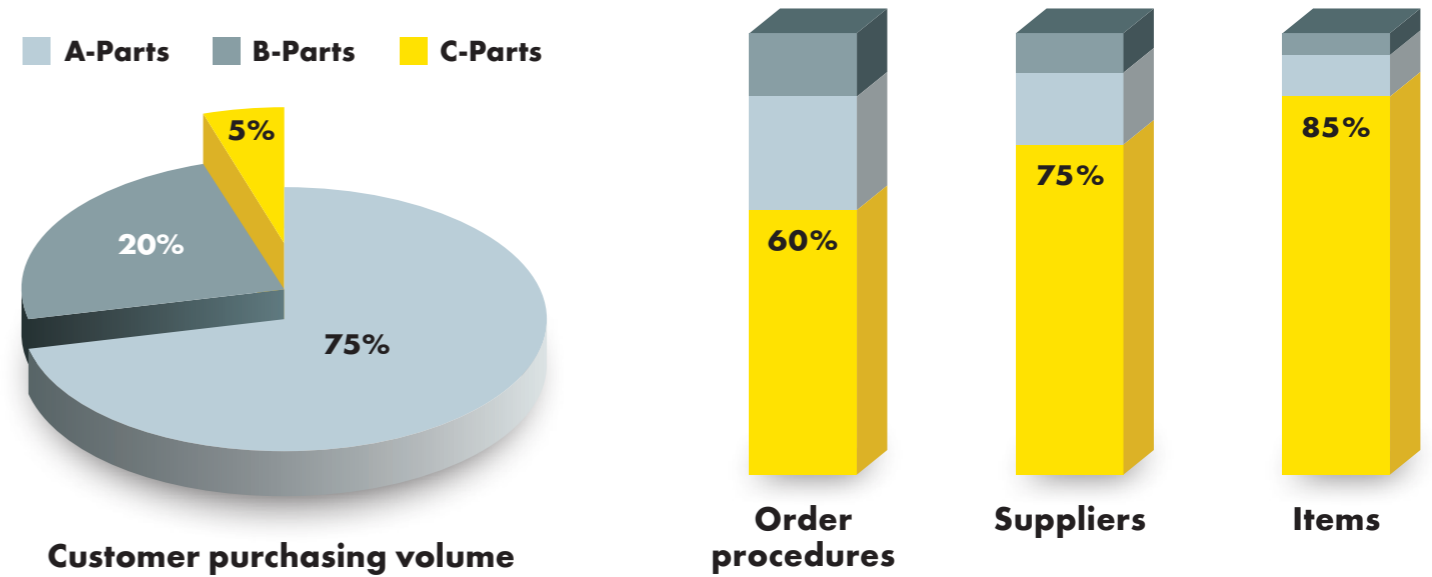
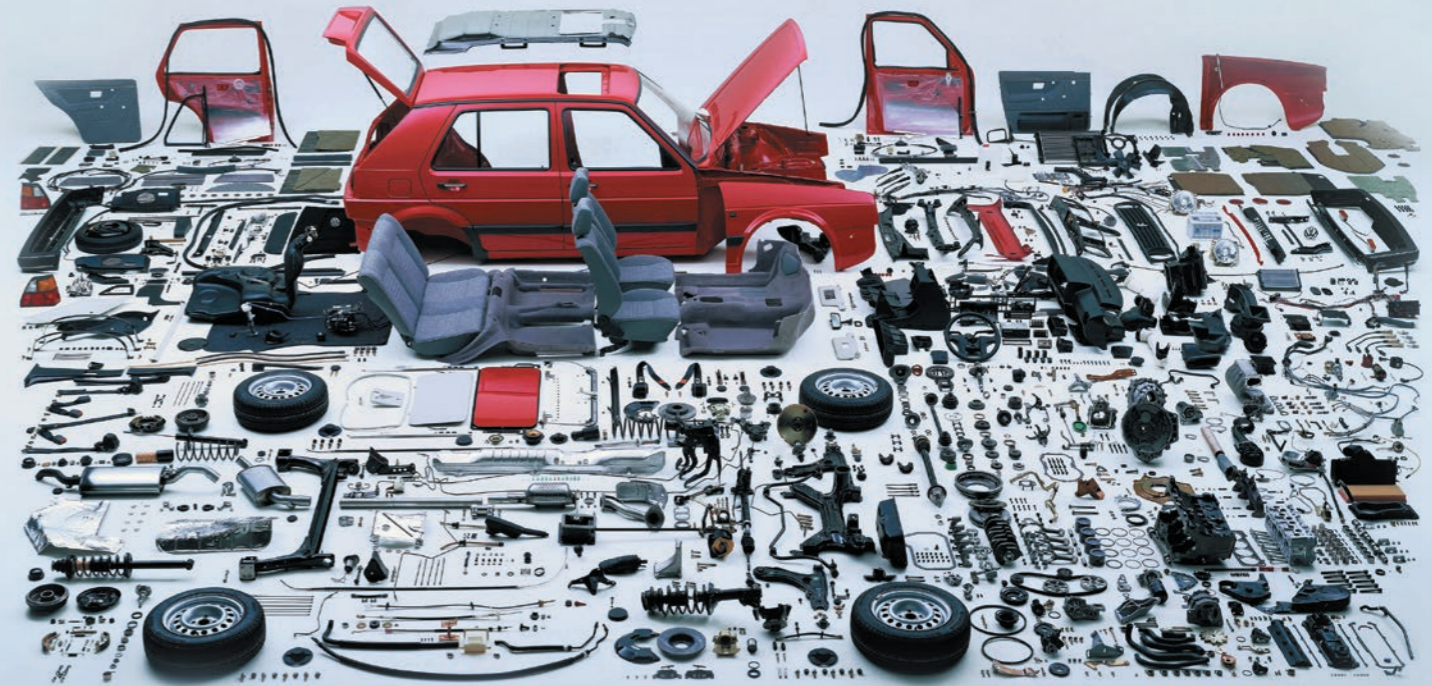
Value 20% ; Vol 20%

- 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)

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



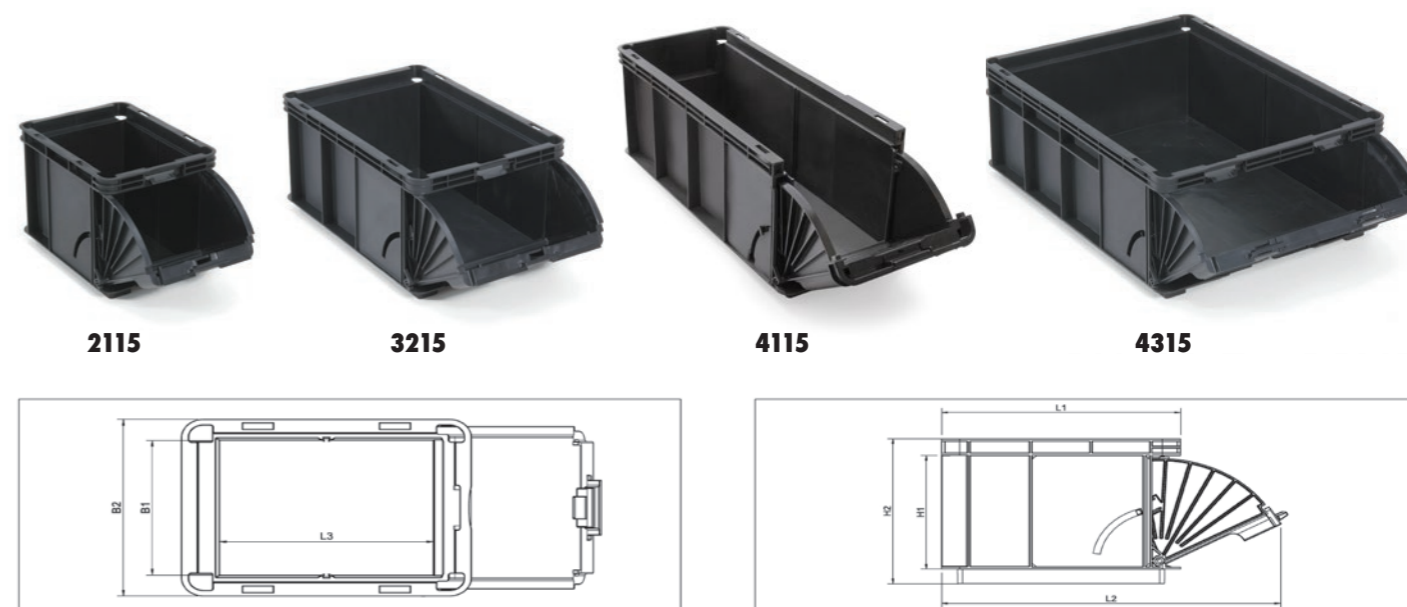
Many different types of bins are used for the storage of C-Parts within industrial Kanban systems. However, overfilled manufacturing facilities, inefficient usage of storage space and disruptions in the process flow are such common problems customers face before implementing CPS® Global Kanban.

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		
<b>2115</b>	197 (290)	148	147.5	155	117	129	338	2.5
<b>3215</b>	297 (385)	198	147.5	247	166	115	668	5.3
<b>4115</b>	396 (486)	148	147.5	335	117	129	810	5
<b>4315</b>	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** (CPSG1234567890)

**BATCH NUMBER** (7001234567)

**BIN LOCATION** (ASSEMBLY LINE W-KLT 3215 (H))

**YOUR PART NUMBER** (ABC123/M8X20)

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

**PRODUCT PICTURE & DIMENSION** (M8X20)

Other label fields: KANBAN CUSTOMER, ASSEMBLY LINE, W-KLT 3215 (H), 1,000, B# 3682134562, DD 01.10.2021, D# 8358351110, THOMAS WARBURTON, Your Logo Here, KANBAN CUSTOMER, ASSEMBLY LINE, W-KLT 3215 (H), 1,000, B# 3682134562, DD 01.10.2021, D# 8358351110, ABC123/M8X20, Hexagon Head Screw Steel 10.9, Zinc Plated (A2K), ISO 4017, M8X20.

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** (ABC123/M8X20)

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

**PRODUCT PICTURE** (Hexagon Head Screw)

Other label fields: 7001234567, THOMAS WARBURTON, Your Logo Here, KANBAN CUSTOMER, ASSEMBLY LINE, W-KLT 3215 (H), 1,000, B# 3682134562, DD 01.10.2021, D# 8358351110, ABC123/M8X20, Hexagon Head Screw Steel 10.9, Zinc Plated (A2K), ISO 4017, M8X20.

\*For Thomas Warburton CPS® Global customers only



# CPS® GLOBAL KANBAN ADD-ONS

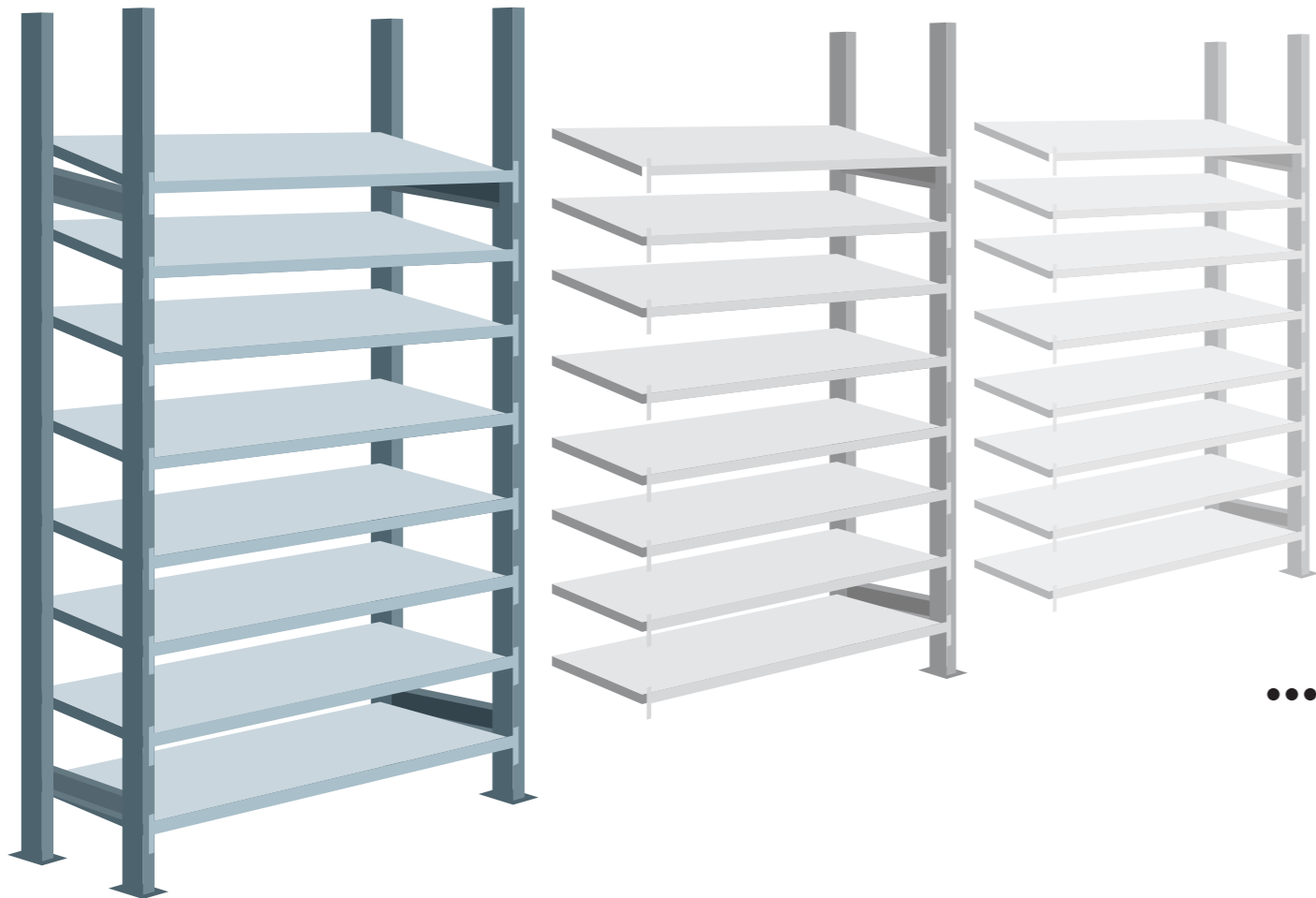
## Extend your CPS® Global Kanban capacity

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 Kanban storage space, perfect for housing and picking your 'on-the-go' assembly parts right across the various stages of your production line.

### Key features

- Even Level / height adjustable shelves
- Two swivel castors with parking brake and two fixed castors for optimum manoeuvrability and stability
- User-friendly handle for easy pushing and pulling
- Raised length bars (front and rear of shelves) to eliminate W-KLT® bins falling
- Multifunctional frame pre-assembled
- Finished colour: Light Grey (RAL 7035)
- Reinforcement by length bar (7 pairs per trolley)
- Designed specifically for storing Thomas Warburton's range of W-KLT® Kanban Bins
- RFID-ready: The top shelf can integrate a CPS® iSHELF for an automated reordering function



Depth (mm)	Width (mm)	Height (mm)	Max Load per Shelf (kg)	Max Load Top Shelf (kg)	Max Load of Trolley (kg)	Levels
800	1300	1830	250	40	1000	7
	1000					



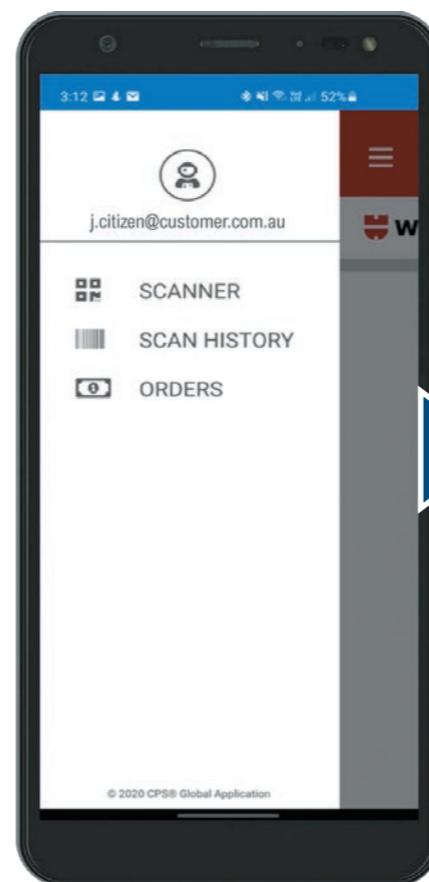
# CPS® MOBILE SCANNER APP



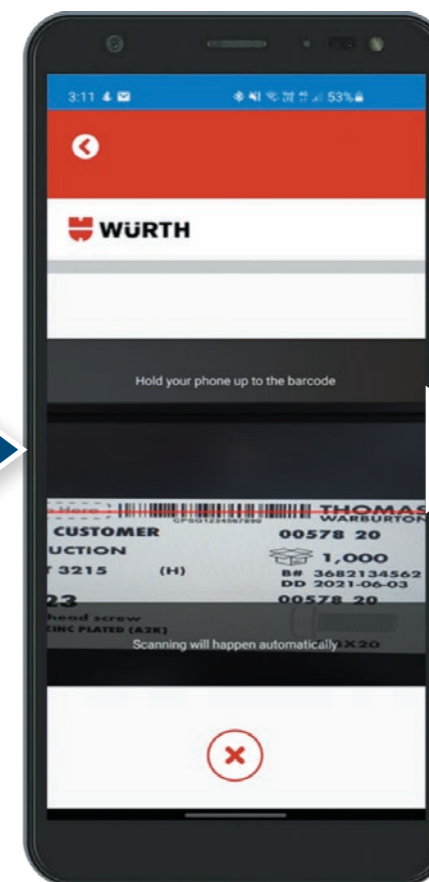
## Your scanning companion for stock replenishment

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!**

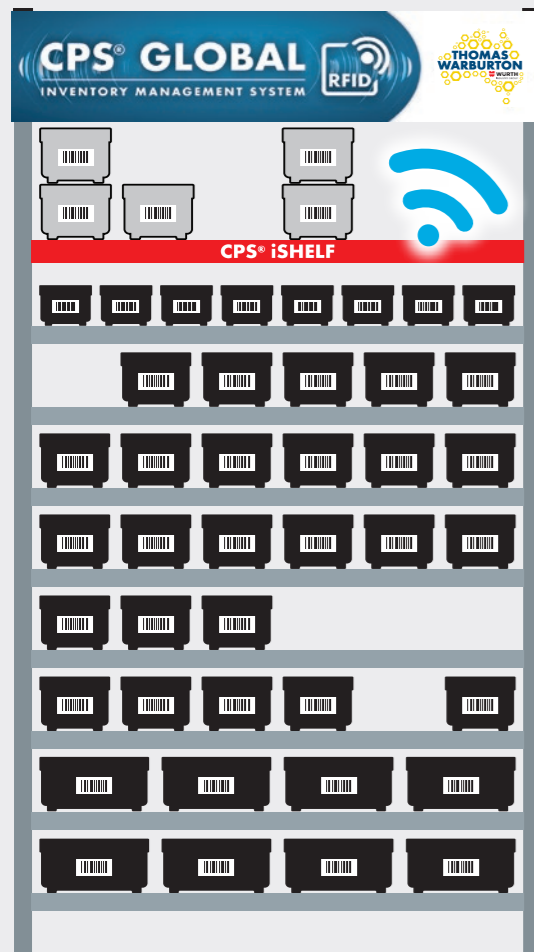
Download on the  
**App Store**



GET IT ON  
**Google Play**



# ADVANTAGES USING RFID KANBAN TECHNOLOGY



CPS® iSHELF



CPS® iPUSH

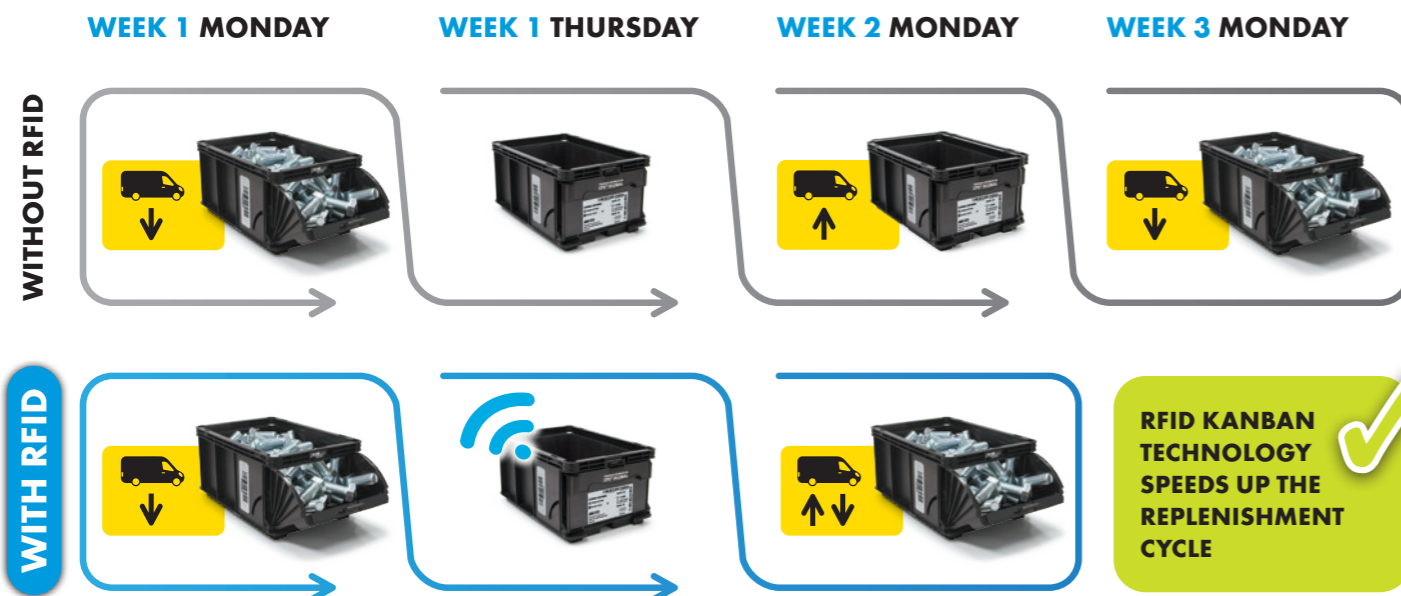


CPS® iBOX

- 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

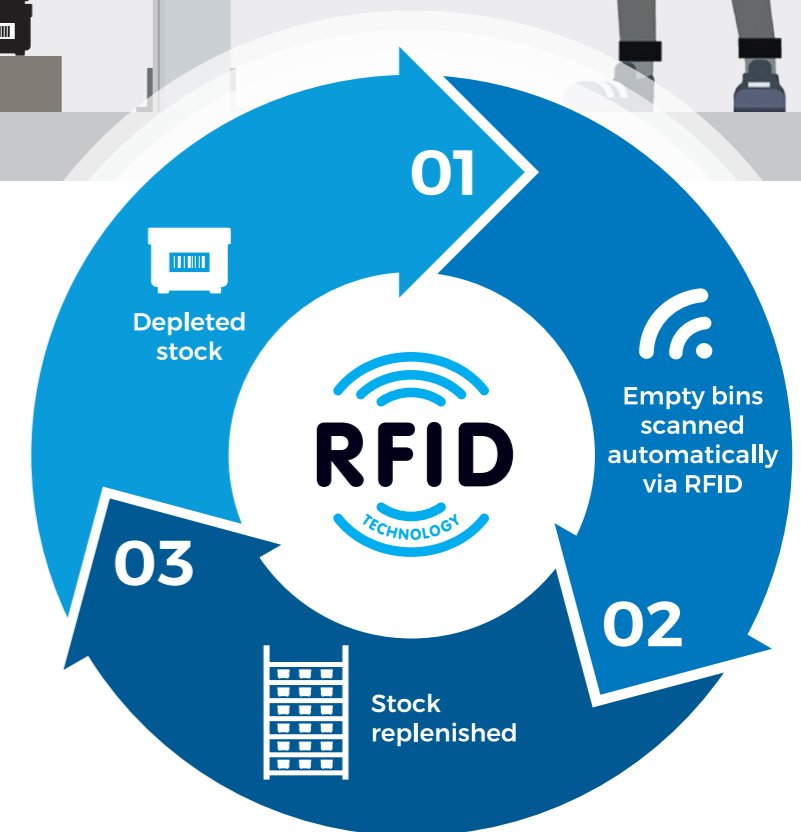


CPS® iGATE



**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)



# ORDERING OF YOUR ITEMS AT YOUR FINGER TIPS

## CPS® iPUSH

**SUITABLE  
FOR KANBAN  
PALLET**

**SUITABLE FOR  
BULKY PARTS**

**EASY TO MOVE  
AROUND YOUR  
FACTORY**

**WIRELESS**

**FLEXIBILITY  
OF USE**

**FAST AND  
EFFICIENT PROCESS**

**CHANGE OF LOCATION  
POSSIBLE AT ANY TIME**

**PUSHED =  
ORDERED**

## CPS® iPUSH

### The bulky parts solution

CPS® iPUSH is the perfect RFID solution for large items which cannot be stored in a W-KLT® Kanban bin, and therefore not being recorded through a standard RFID automated solution.

Automated ordering of products is triggered by pressing the button integrated into the CPS® iPUSH RFID label, located with each product storage place e.g. racks, cabinets, shelving or on pallets.

#### Key features

- Wireless and freely placeable with flexible mounting options in production or assembly
- 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





# 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

## Current CPS® RFID developments and future solutions

### 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



### 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®



### 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

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 S<sup>2</sup>PC® (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 S<sup>2</sup>PC® 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 S<sup>2</sup>PC®



## Golden Compound

A cooperation with

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 S<sup>2</sup>PC and Cargill, for the development, production and commercialization of S<sup>2</sup>PC (Sustainable Sunflower Plastic Compound). S<sup>2</sup>PC 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, S<sup>2</sup>PC 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!



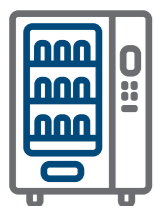
## CPS® Scan App

- 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

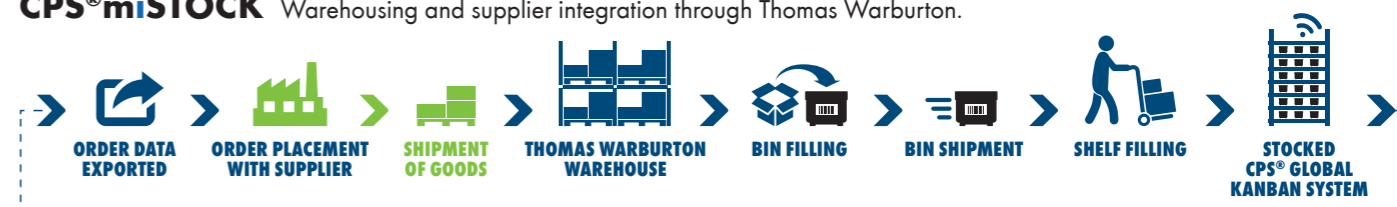


## Holistic supplier integration – your ‘all-in-one’ solution!

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

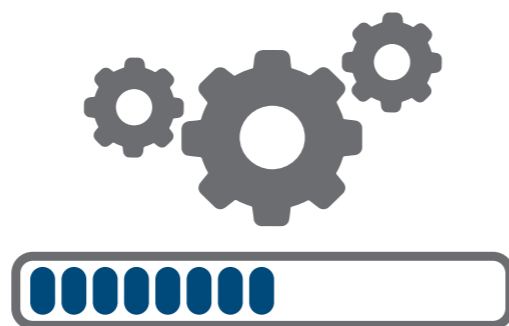


# HOW CPS® GLOBAL KANBAN BENEFITS YOU



## 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

<p><b>Improved assistance</b></p> <p>Improve your company's diagnosis, inspection and technical support processes</p>	<p><b>Optimised resource yield</b></p> <p>Improve junior resource yield and maximize senior time and experience</p>
<p><b>Reduced costs by up to 75%</b></p> <p>Reduce travel and travel costs for operational staff by up to 75% from the first day of use</p>	<p><b>Reduced errors</b></p> <p>Improve the transfer of know how by reducing errors in service procedures</p>
<p><b>Less experts in the field</b></p> <p>Enhance communication between technicians and supporting team by reducing the need of field experts</p>	<p><b>Immediate intervention</b></p> <p>Production blocks reduced by up to 30% thanks to timely problem solving</p>

# ONE PARTNER FOR ALL YOUR C-PARTS

**WE SUPPLY TO OUR CUSTOMERS EVERYDAY...**

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



**...AND LOTS MORE!**





# We are here to Support You

Your experienced Thomas Warburton Field Service Representative will work in collaboration with you and your team to design an integrated inventory management concept, specific to your production and operational requirements. Nationwide, we are here to support you.



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Our Quality ISO 9001 and Environment ISO 14001 Certifications are applicable to our Management Systems for our Dandenong South, Victoria and Coopers Plains, Queensland locations only for "The warehousing, sale and distribution of fasteners and related industrial products including the establishment of just-in-time consumable part inventory management systems for customers."



Quality  
ISO 9001



Environment  
ISO 14001