



**WE DELIVER UNCOMMONLY SMART SOLUTIONS**

**SMARTMOVES-WX<sup>®</sup>**

# TREW® TO YOU

At our core, Trew is an automated material handling solutions provider for integrators and end-users. Our capabilities are built on the 20-year foundation of two innovative and respected companies: Hilmot and Tech King Operations.

We leverage this wealth of experience every day to bring you more than just subject matter experts but teams who serve as consultants, software-, hardware-, service- and support-partners who listen to you, share our know-how, tell you what we can and cannot do, and work with you to deliver uncommonly smart solutions.

Successful business gets done when trusted partners work together to win together.

## WE DELIVER AUTOMATED FULFILLMENT SOLUTIONS TAILORED TO YOUR BUSINESS:

Apparel & Fashion > Ecommerce > Food Supply Chain > General Merchandise > Health & Pharmaceutical Manufacturing > Postal & Parcel > Retail Fulfillment > Third-Party Logistics > Wholesale/B2B



Store



Omnichannel



Direct to Consumer



Hyperlocal



Micro



Returns



# WES

## When should you talk with us about WES?

Our SmartMoves-WX® warehouse execution system (WES) is designed to help you get work done faster and more efficiently with reliable outcomes. Are you ready?



**1.**  
YOUR BUILDING HAS MORE THAN 100 FULL-TIME EMPLOYEES.



**2.**  
YOUR WORK PROCESS IS NON-LINEAR, MORE THAN "GET THIS AND SHIP IT".



**3.**  
YOUR OPERATION HAS OR NEEDS AUTOMATION THAT LEVERAGES KNOWING WHAT'S IN THE BOX.

Still not sure? Our Solutions development team and Blueprinting process can help.

## INTRODUCING SMARTMOVES-WX®

Today's warehousing environments require smart systems. Trew® is on the leading edge with software solutions that organize and manage work to influence outcomes, from storage and picking through sortation and shipping.

Our SmartMoves-WX WES organizes workflow and assignments, coordinating people, process, and automation equipment to influence operational outcomes.

We build from standard modules to create client-specific, tailored solutions that deliver automatic, efficient execution of user tasks and fulfillment operations.

It's all designed to get work done quickly and correctly.

### WE OFFER:

Continuous Order Management > Fulfillment Operations > Automation Systems

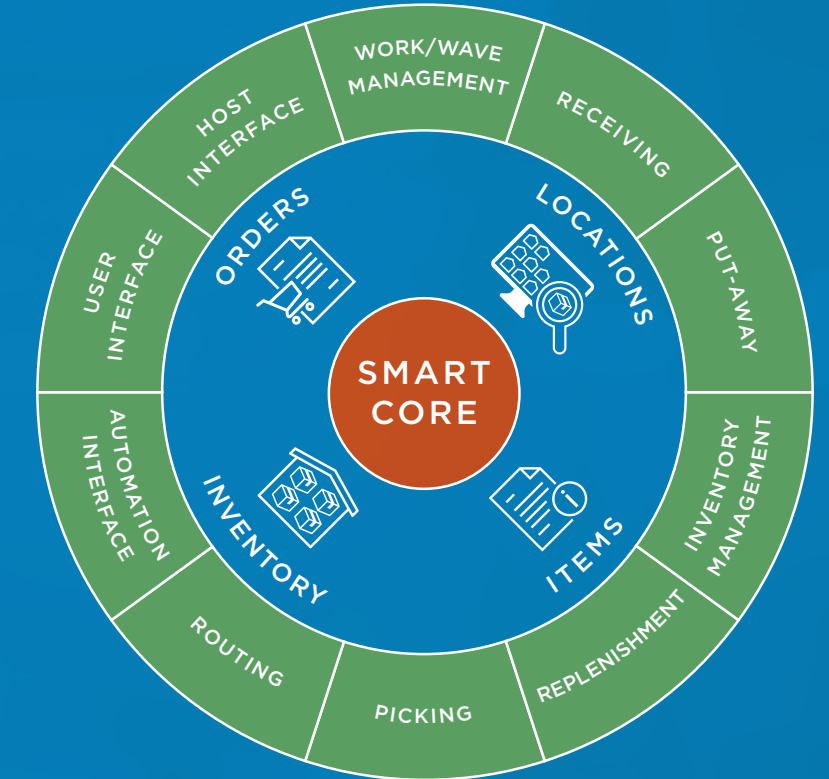
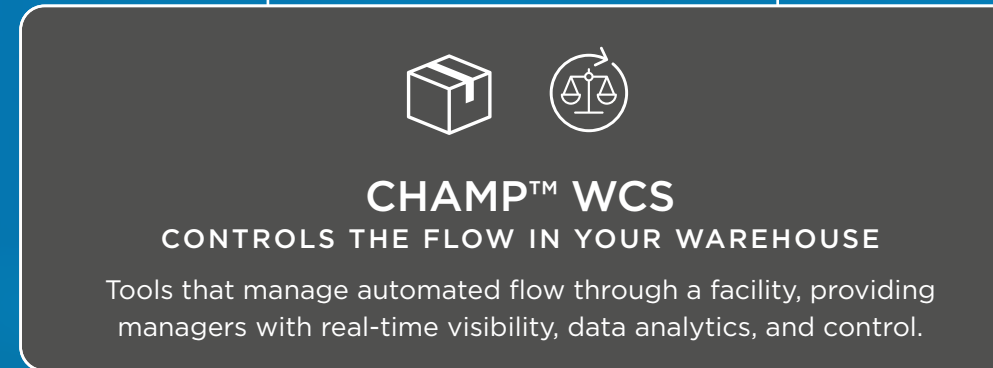
Warehouse Execution Software (WES) > Warehouse Control Software (WCS)

PLC Conveyor Controls > Project Management > Installation Services > 24x7 Technical Support



TREW

SmartMoves-WX® modular design delivers solutions for split case, full case, mixed load and full pallet fulfillment operations.



The SmartMoves-WX extensible architecture changes how projects are delivered.

- **SMART CORE** manages locations, inventory, and item and order tables; it also provides framework and common services.
- **SMART MODULES** can be standard plugins and/or tailored to your operations.

# WHAT MAKES SMARTMOVES-WX<sup>®</sup> UNIQUE AS A WAREHOUSE EXECUTION SYSTEM?

It's not hard to make a complex system. It's difficult to make a system that manages complex processing simple to use and reliable in performance. We do that.

We have listened and learned from meeting companies that have been unable to realize expected output and systems that fail to perform. Why? Because building complex systems is easy. It's building systems that are simple to manage, scale, measure, adjust, and train that causes the disruptions. That's where we shine.

We don't over-promise. We assess each situation as unique and deliver our analysis up front. If we're a great fit, we will outline options to optimize every phase of your WES. And we'll show you how you can scale to match your growing needs. Perhaps even more importantly, we will tell you what will not work—even if that means we're not the best fit.



Unfortunately, too many businesses have been impacted by system promises that failed to deliver. But how do you determine the difference between promises and solutions you can count on? For Trew<sup>®</sup>, it starts with our Blueprinting process and how SmartMoves-WX continuous fulfillment engine works to deliver efficient outcomes. Combined, they create uncommonly smart solutions to help you thrive.



## WORK PLAN FOR SUCCESS AND EFFICIENCY

We start with the end in mind, and figure out what work can successfully get completed, and what needs to take priority.



## CONTINUOUS PUSH-PULL PRIORITIZED WORK RELEASE

Working backwards can deliver more results. Our work release methods pull work to fill operational capability and pushes work when it needs to.



## SCALED ARCHITECTURE TRANSACTIONAL AWARENESS

Execution decisions are based on transactional awareness that influences how tasks are performed.



## MULTI-LEVEL LOAD BALANCING

We increase output by assessing volumes and balancing loads across the system.



## UoM AND RESOURCE COORDINATION

Ongoing coordination is based on Units of Measure and resources to make the most efficient move.

## OUR BLUEPRINTING APPROACH

Successful outcomes happen on purpose and through effective planning with experts who've been there before.

### PROVEN APPROACH

Logical, data-driven, and individualized so you get what matches you.

- > Data driven
- > Collaborative and explorative
- > Iterative process
- > ROI and business case focused
- > Concept to post Go-live engagement

### PROVEN PROCESS

Proven over time and yet tailored to your individual needs.

- > Data collection and information gathering
- > Business goal definition
- > Data analysis
- > Technology selection and sizing
- > Workflow and process definition
- > Staffing sizing by functional area
- > ROI for solution(s)

### PROVEN TEAM

Experienced industry experts with extensive knowledge of large- and small-scale operations.

- > Former supply chain executives and operations
- > Data analysts and experts from the supply chain industry
- > Engineers and designers with in-depth integration and software knowledge
- > Experts in shop floor operations and lean principles

## THE TREW® BLUEPRINTING PROJECT SUCCESS

Like you, we do not like project surprises. Our collaborative Blueprinting process eliminates surprises and creates a plan for success. We work with your team to collect, validate, and map requirements to product, organizational and operational goals.



PHASE 1:

### DISCOVERY

We collaborate with your stakeholders in a series of activities to identify and create a plan for success.



PHASE 2:

### RESULTS

We help align your IT, Operations, and Trew® on implementation that creates business value while applying more standard product.

#### WE DEFINE THE PROJECT:

- > Align operations, IT, and Trew with the requirements
- > Create a plan to connect automation with business value
- > Identify gaps and their resolution
- > Create clarity and define strategies to lower risk

#### WE DEFINE THE FLOW & INTERFACES:

- > Process Flow
- > Software Flow
- > Integration Interfaces
- > User Interface

#### THE TREW BLUEPRINT:

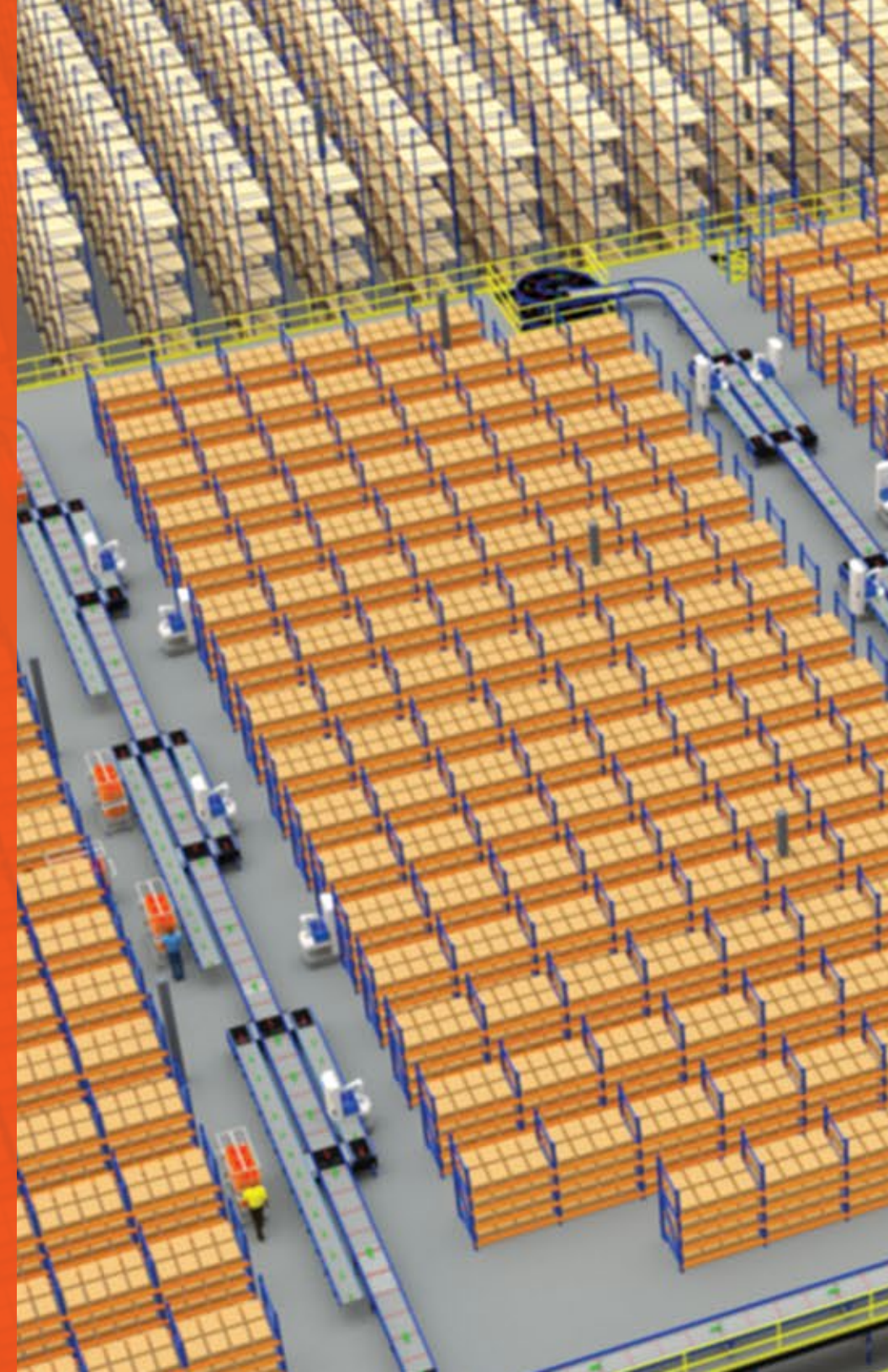
- > **Functional Specification Document**  
Describes the software application and process flows
- > **Interface Specifications Document**  
Defines protocols and interactions with WMS, MHE, etc.
- > **User Interface Specification Documents**  
Maps out navigation and wire-frames, plus provides samples screens and reports
- > **Test Plan and Test Cases**  
Creates a measuring stick for your system
- > **The Plan**  
Aligns implementation scope and schedule

# IS IT TIME TO IMPLEMENT SMARTMOVES-WX®?

We're successful when your products have made it as efficiently as possible on to your dock ready for delivery.

Not every company is ready for SmartMoves-WX implementation, and that's fine with us! Key to our approach is making sure the time is right for each organization we work with. If that's you, let's talk.

Our proven track record of successful and scalable systems simply means that organizations that trust Trew® to deliver tend to thrive with our solutions. Helping you thrive is our goal. If the time is right for you to consider SmartMoves-WX, we want to be the automation company to deliver for you.



## Trew® WCS / WES / WMS feature alignment

What is the right fit for you? Use this checklist to break down the elements critical for your success, desires for future needs, and goals for long-term progress.

KEY MODULES		PLC	WCS	WES	WMS	KEY MODULES		PLC	WCS	WES	WMS	
Ecosystem Management	External (Store) Replenishment					Planning	Slotting Optimization					
	Global View of Inventory						Dynamic Slotting					
	Multi-channel Fulfillment						Mixed Item Slotting					
	External (Store) Replenishment						Cartonization Optimization					
Receiving	Advanced Shipping Notification					Order Waving						
	Receiving					Hot task prioritization						
	Cross-Docking					Waveless Picking Workflow Management						
	Inspection/Quality Control					Order Routing						
	Value-Added Services (Receipt)					Inventory Management						
	Put-away					Labor Tracking						
Receiving & Put-away	Multi-location Inventory Control					Automation Integration & Control	Pick-to-light					
	Location Replenishments						Carousel Picking					
	Cycle Counting						Robotic depalletization/palletization					
	Location Management						Automated Material Storage/Retrieval					
Shipping & Dock Management	Yard Management						Goods to Worker Stations					
	Dock/Appointment Scheduling						Machine Control Systems					
	Document Management/Manifesting						Conveyor Sortation Control					
	Order Staging						Automatic Label Print and Apply PANDA					
	Shipment Preparation & Execution						Peripheral Control					
Order Fulfillment	Bulk/Case Picking						Miscellaneous	Value-Added Services (Order)				
	Forward-Picking Replenishment					Task Interleaving						
	Order Picking (Case, Pallet)					Labeling						
	Each Picking					Third Party Billing						
	Pick & Pass					Cartonization						
User Interface	Mobile/RF Solutions					Packing & Palletization						
	Voice Solutions					Parcel Integration						
	Mobile Tablet Supervisory Use					Shipping & Manifesting						
	Back-Office Desktop					BI and Visibility		Reporting, Monitoring and Analysis				

FEATURE ALIGNMENT: ● CHAMP PLC ● CHAMP WCS ○ SMARTMOVES-WX WES® ● WMS

## > Support

We know choosing a material handling partner with robust support capabilities is critical to the success of your operation. Uptime and productivity allow you to deliver on your customer promises. Our in-house parts specialist and 24x7 technical support team are ready to help.

### Technical Support or Field Service:

**CALL:**  
+1-800-571-TREW (8739)

**EMAIL:**  
support@trewautomation.com

### Parts:

**CALL:**  
+1-800-571-TREW (8739)

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