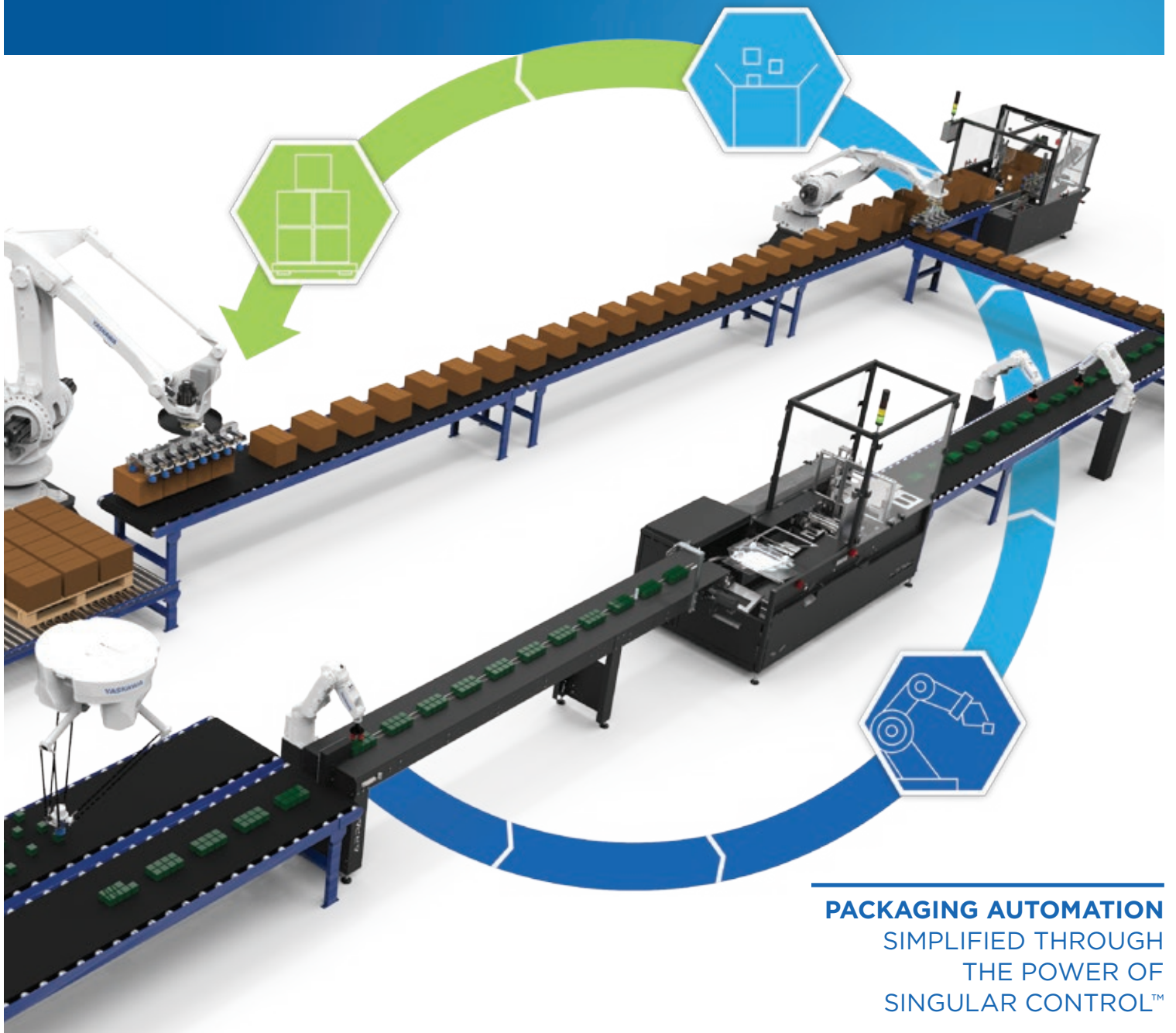


YASKAWA

# SINGULAR SIMPLICITY



**PACKAGING AUTOMATION**  
SIMPLIFIED THROUGH  
THE POWER OF  
SINGULAR CONTROL™



# PICK, PACK, PALLETIZE WITH A SINGLE SOURCE

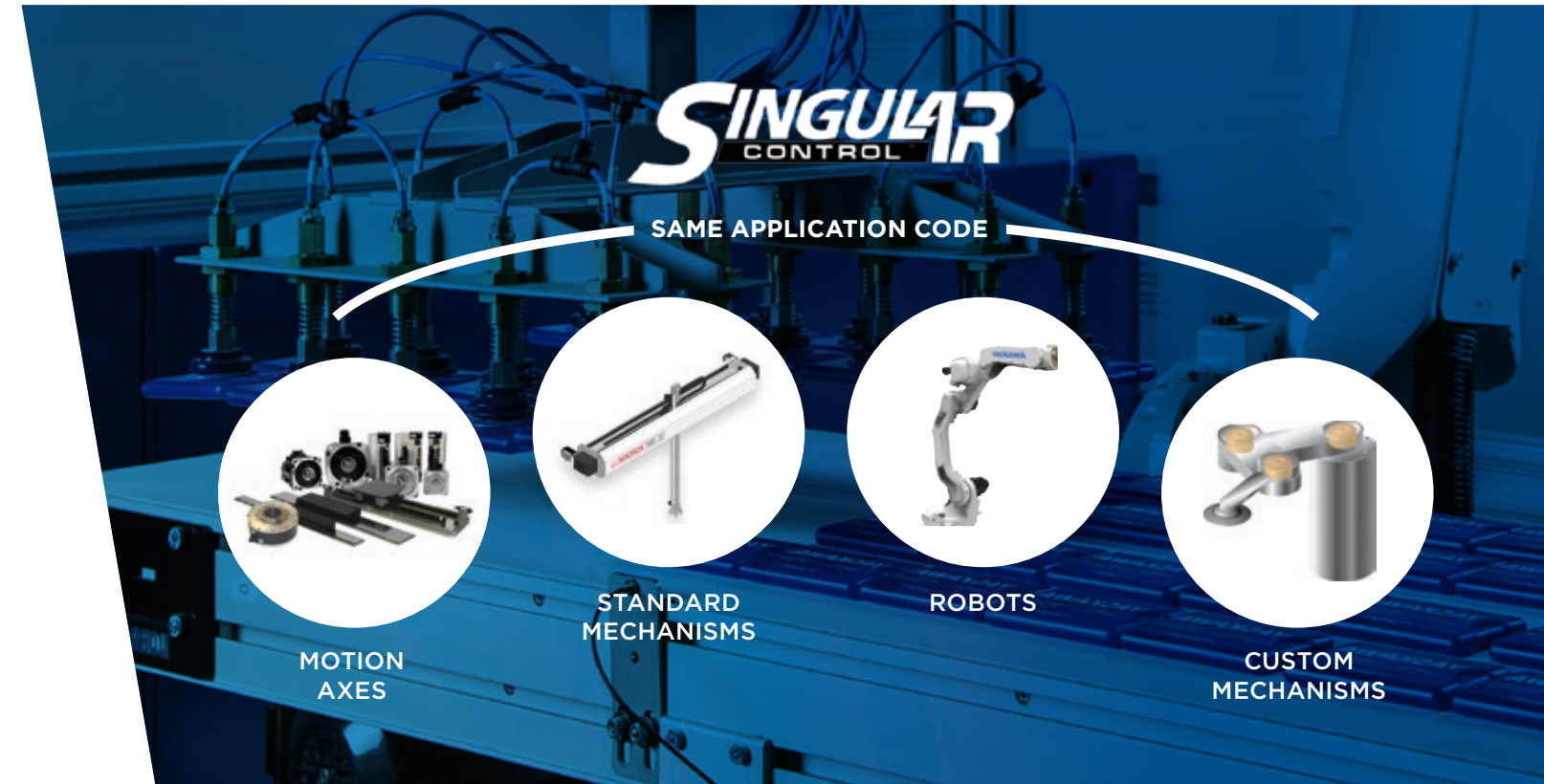
## THREE KEY PACKAGING PROCESSES, ONE CONNECTION TO AUTOMATION SUCCESS

As a packaging industry professional, you judge success by output and outcomes, not parts and processes. Yaskawa sees things the same way. That's why we pioneered Singular Control™, the ability to unify robotic picking, packing and palletizing under a common system architecture.

This results-driven approach is backed by Yaskawa's status as one of the world's top manufacturers in robotics, servo motion and drive technology.

- A half century of U.S. expertise in motion automation
- A strong global network of integration partners and service providers
- Products ranging from 3 watt micro servos to robots lifting 800 kg
- Long-term technology partnerships with the packaging industry's foremost machinery manufacturers

# SINGULAR CONTROL™: ONE SOFTWARE FOR EVERY TYPE OF MECHATRONIC MOTION



## YASKAWA BY THE NUMBERS

**100 YEARS**  
OF MANUFACTURING EXCELLENCE



**20,000** ROBOTS

PER YEAR

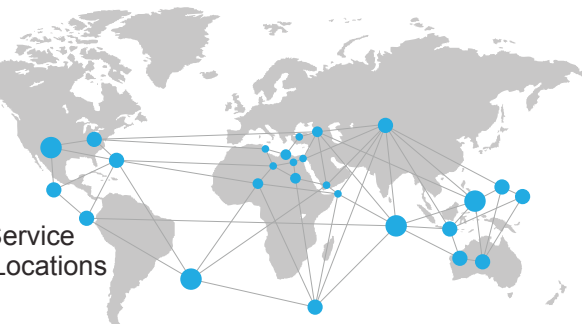
**800,000** SERVO AMPLIFIERS

**1 MILLION** SERVO MOTORS

**1.8 MILLION** AC DRIVES

**25**

Countries with  
Yaskawa Sales, Service  
& Manufacturing Locations



**\$4.0  
BILLION**  
IN GLOBAL SALES

Yaskawa has equally strong expertise in robots, servos and variable frequency drives. This gives us the ability to easily integrate motion control devices from virtually any manufacturer under a single software architecture. It is now possible to achieve a set of unprecedented outcomes:

- **One common software** for motion axes, robots and logic control. This removes the need for a PLC to control motion functions, and no specialized robot programming is required
- **Migrate** from motion axes to a gantry robot, robot arms or special mechanism *without the need to change application code*
- **Familiar tools** ... including ladder logic and function blocks ... can now be used to program both robotic and servo motion

EASY INTEGRATION OF NEW  
MECHANISMS, USING EXISTING  
APPLICATION CODE.

YOUR SPECIALIZED IP  
CARRIES FORWARD AS YOUR  
TECHNOLOGY PROGRESSES.

# END-TO-END AUTOMATION

## PICKING, PACKING, PALLETIZING—PERFECTED

### MOTIONWORKS® IEC AND MP3300iec: THE HEART OF SINGULAR CONTROL™

Singular Control lets you replace multiple existing control devices with a single MP3300iec machine controller.

- Standard ladder logic and PLCopen function block programming
- Program Yaskawa robots, standard or custom mechanisms, logic and variable speed drives with the same application code
- Improve Overall Equipment Effectiveness with a ready-to-use PackML template included in MotionWorksIEC



### PLC-FRIENDLY OPTIONS: MLX AND SIGMALOGIC™

Retain your existing PLC while boosting performance with Yaskawa controllers that use Add On Instructions (AOIs) to control robots or motion axes.

- Ladder logic and function block programming
- EtherCAT networking for easy implementation, high speed
- No need to learn an additional programming language



# ROBOTIC AND MOTION COMPONENTS: A SOLID FOUNDATION

The facts behind Yaskawa robots and motion control products are powerfully impressive. Typical lifespan: 25+ years. The highest mean time between failures in the motion control industry. The industry's largest stock of exchange inventory, and technical support at no charge. Trust us for innovation, and get long-term reliability in the bargain.



#### MPP3S/MPP3H

3 kg payload, 150 cpm, 800 or 1300 mm horizontal reach, 300 or 600 mm z-stroke, IP67-rated body, NSF-H1 certified food-grade lubricants

Picking

#### MYS SERIES

6-20 kg payload, 450-1000 mm horizontal reach, 180-420 mm Z-stroke

Picking

#### MH5/MH5L

35 kg payload, 6-axis, 706 or 895 mm horizontal reach, 1193 or 1560 mm vertical reach

Picking and Packing

#### GP8

8 kg payload, 727 mm horizontal reach, 1312 mm vertical reach, IP67 washdown rating, NSF-H1 certified food-grade lubricants

Picking and Packing

#### MH12/MH24

12-24 kg payload, 6-axis, 1440-1730 mm horizontal reach, 2511-3088 mm vertical reach

Packing

### YASKAWA ROBOT CONTROLLERS POWERFUL, FAST AND COST EFFECTIVE

Robust PC architecture offers system level controls for single robots or work cells of up to 8 robots.

- Extra speed to handle high volume packaging environments
- Compact size to fit in a small footprint
- Available Functional Safety Unit (FSU) for tight workspaces and collaborative human-machine interactions



#### MPK50

50 kg payload, 4-axis, 1893 mm horizontal reach, 1668 mm vertical reach, NSF-H1 certified food-grade lubricants

Packing or Palletizing

#### MPL80

80 kg payload, 5-axis, 261 mm horizontal reach, 3291 mm vertical reach, food-grade lubricants. **MPL0011/160/300/500/800** 100-8000 kg payload, 4-axis, 3159/3024 horiz/vert reach, food-grade lubricants.

Palletizing

#### SIGMA-7 SERVO SYSTEMS

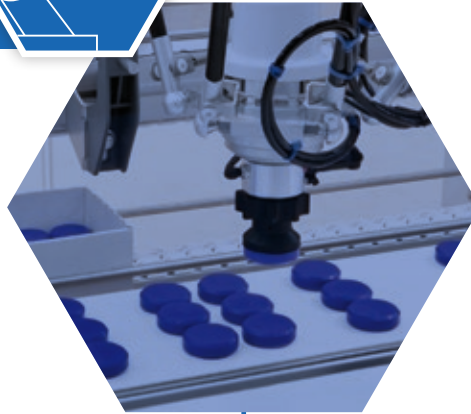
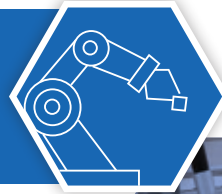
Incredibly fast and precise, with advanced software that makes servo tuning a thing of the past

#### VIPA SLIO I/O

A quick, easy way to add up to 64 I/O points with each single module, plus one-touch configuration and a web interface



# PICKING



## MOTOPICK™

A picking, sorting, transfer, collation, singulation, tray fill software solution linking MotoSight to line tracking and scheduling algorithms, plus integration of multiple robots in synchronized pick and place operations. Use MotoPick in a robot controller, choose the IEC option for Singular Control™ in a Yaskawa MP3300iec machine controller, or choose AOIs for a PLC.

## MOTOSIGHT™

A complete vision system under the Yaskawa name, with Yaskawa cameras, lenses and lighting paired to fast, powerful processors that maximize system throughput.

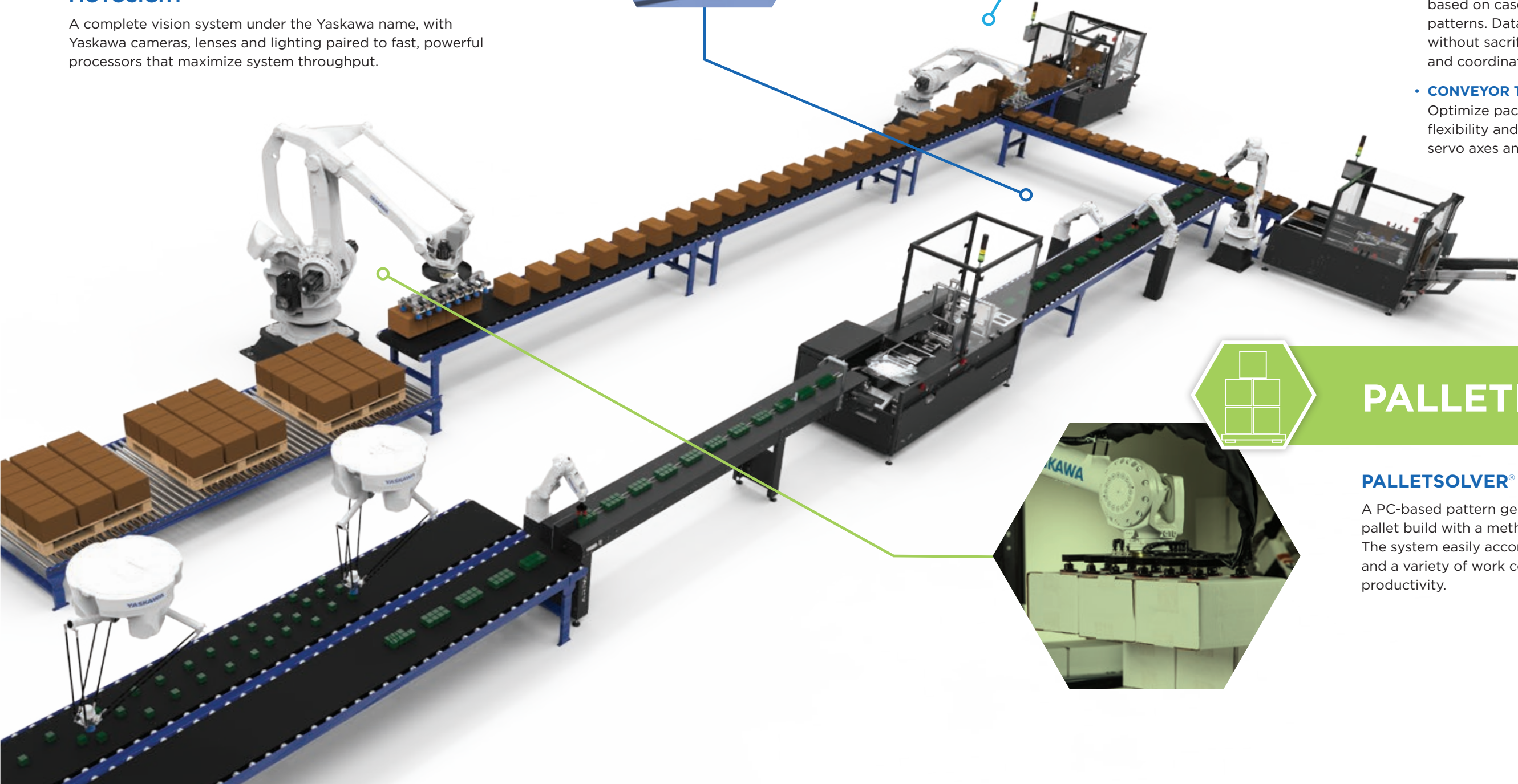
# PACKING



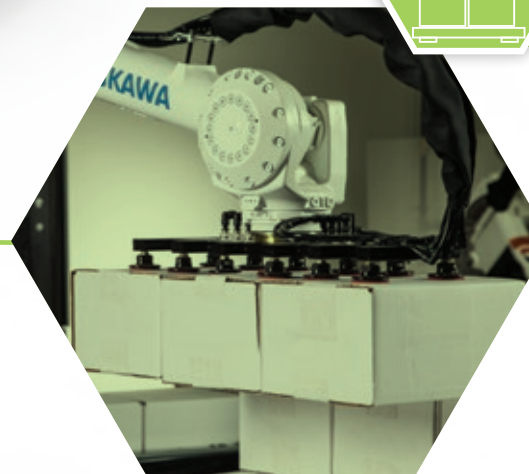
## MOTOPACK IEC™

Case packing made easier with IEC control of key functions.

- **TEACH PENDANT TOOLBOX**  
Use a teach pendant to perform all manual teaching functions for robots or other motion axes.
- **CASE PACKING TOOLBOX**  
Path Generator function block generates robot paths based on case size, product dimensions, and pack patterns. Data-driven structure delivers ease of use without sacrificing flexibility. Path Processor executes and coordinates motion sequencing and error recovery.
- **CONVEYOR TRACKING**  
Optimize packing speed with more queuing flexibility and placement precision, utilizing servo axes and VFDs as well as robots.



# PALLETIZING



## PALLETSOLVER®

A PC-based pattern generation tool increases the efficiency of a pallet build with a methodology that allows offline programming. The system easily accommodates multiple pallet configurations and a variety of work cell layouts, optimizing your operation's productivity.

TO LEARN MORE ABOUT YASKAWA'S LEGENDARY  
RELIABILITY, UNBEATABLE PERFORMANCE AND  
EXCEPTIONAL VALUE, CONTACT YOUR YASKAWA  
SALES REPRESENTATIVE OR VISIT [YASKAWA.COM](http://YASKAWA.COM).



Yaskawa is the leading global manufacturer of inverter drives, servo drives, machine controllers, medium voltage inverters and industrial robots. Our standard products, as well as tailor-made solutions, are well known and have a high reputation for outstanding quality and reliability.

# YASKAWA