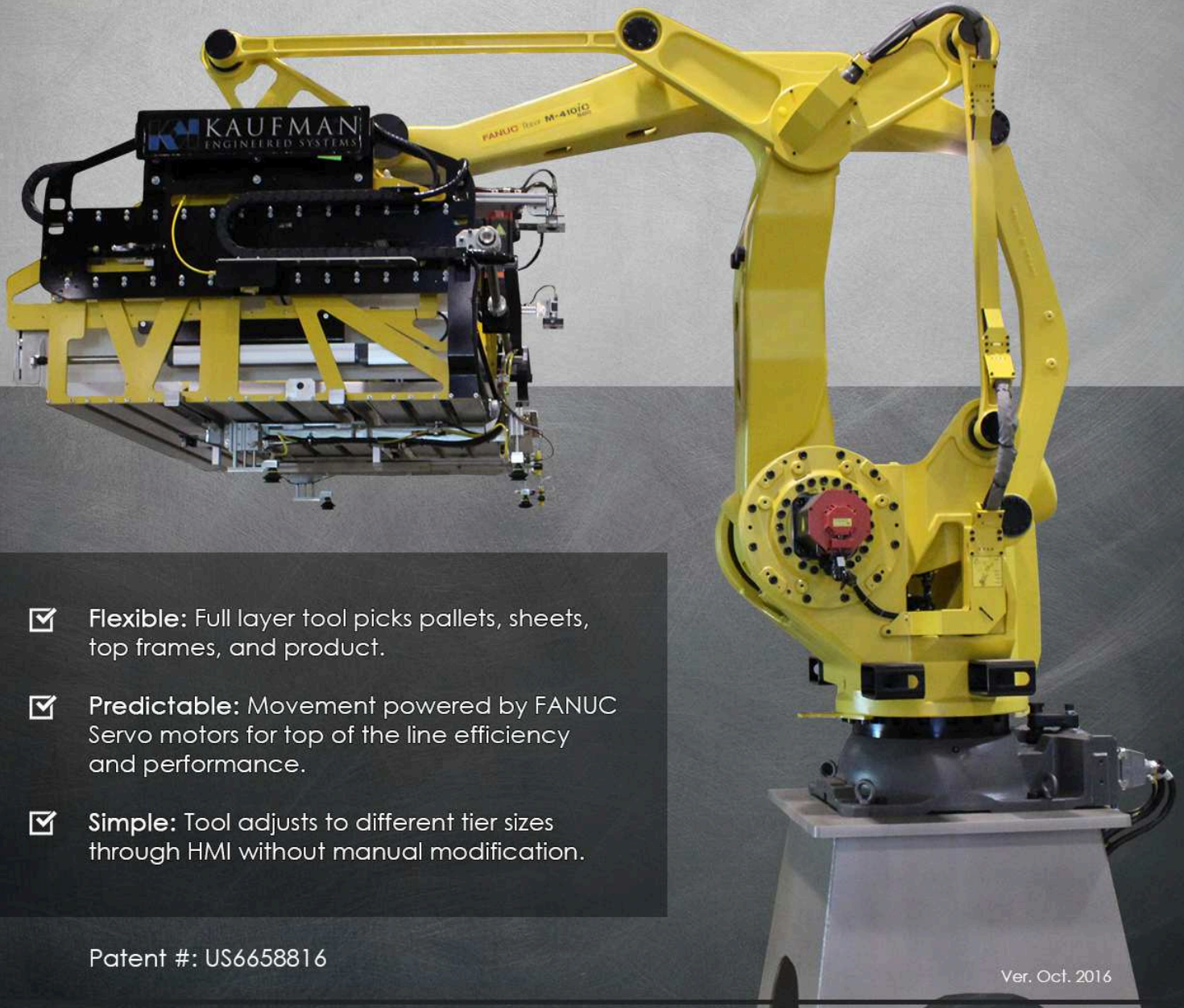




# KAUFMAN

ENGINEERED SYSTEMS

## K5 PALLETIZING & DEPALLETIZING SYSTEM



- ☑ **Flexible:** Full layer tool picks pallets, sheets, top frames, and product.
- ☑ **Predictable:** Movement powered by FANUC Servo motors for top of the line efficiency and performance.
- ☑ **Simple:** Tool adjusts to different tier sizes through HMI without manual modification.

Patent #: US6658816

Ver. Oct. 2016

Contact Kaufman at [Info@KES-USA.com](mailto:Info@KES-USA.com) or 419-878-9727  
to Add The Full Layer Robotic System to Your Packaging Line

[www.KES-USA.com](http://www.KES-USA.com)  
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# KAUFMAN

ENGINEERED SYSTEMS

FANUC Vision guidance provides automatic rotational adjustment for slip sheet, top frame, and pallet placement.

Ultrasonic sensor provides detection of uneven surfaces and reliability for dunnage picking and placing.

FANUC Servo motors power the K5 drawer movement for efficient and reliable full layer product picks.

Crowders secure and align the tier during and after the pick process.

Accommodates tier and pallet sizes 32"x37" through 44"x56".

Diffuse photoeyes provide confirmation of pallet pick.

Vacuum pick tier sheets and top caps.

Capacitive displacement sensor provides confirmation of slip sheet pick and feedback to prevent multiple slip sheet picks.

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# KAUFMAN

## ENGINEERED SYSTEMS

K5 FULL LAYER TOOL				
SPECIFICATIONS	SPEED (TIERS PER MINUTE)		2-6	
	TIER SIZE MAX (L x W)		44" x 56"	
	TIER SIZE MIN (L x W)		32" x 37"	
	MAX TIER HEIGHT		20"	
	MAX PRODUCT PICK WEIGHT		500 LBS	
	INTEGRATED DUNNAGE HANDLING		OPTIONAL	
	STANDARD PRODUCT PICKS		TRAYS	
			CASES	
			FILM WRAPPED BUNDLES	
	STANDARD DUNNAGE PICKS		CONTAINERS	
			PALLETS: CHEP, PECO, GMA, PLASTIC	
			TIER SHEETS	
			TOP FRAMES	
	SAFETY		TOP CAPS	
DRY WEIGHT (SHIPPING WEIGHT, EOAT ONLY)		CATEGORY 3		
625 LBS				
EOAT DESCRIPTION	DRAWER SWEEP		FANUC SERVO MOTOR	
	CROWDER		IAI ROBO CYLINDER	
	PALLET PICK		IAI ROBO CYLINDER	
	VACUUM TIER SHEET/TOP CAP PICK		PIAB	
	ULTRASONIC HEIGHT DETECTION		BANNER	
	FRAME		ALUMINUM	
CONTROLS	ENCLOSURES		HOFFMAN	
	PLC		AB LOGIX FAMILY	
	HMI		AB PANELVIEW PLUS SERIES	
	DISCONNECT		AB FLANGE	
STANDARD COMPONENTS	MECH.	MOTORS		LEESON OR BALDOR
		GEARBOX		WINSMITH OR CONE
		VALVES		NUMATICS
	ROBOT	MODEL		FANUC M410ib - 500
		CONTROL ARCHITECTURE		DUAL CHECK SAFETY
		COMMUNICATION		ETHERNET IO
		VISION		FANUC IR
	ELEC.	PHOTOEYES		EFECTOR
		LIMIT SWITCHES		ALLEN BRADLEY
		SAFETY GATE SWITCHES		SCHMERSAL

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HUNDREDS OF SUCCESSFUL  
COMPANIES HAVE CHOSEN  
KAUFMAN ENGINEERED SYSTEMS  
AS THEIR SINGLE SOURCE  
MANUFACTURER FOR COMPLETE  
END OF LINE AUTOMATION

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