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Robotics Solutions by Largoiko

ROBOT MODEL	Co-PaL Pile Palletiser	Mini-PaL Pile Palletiser	PaL Pile Palletiser	PaL F Palletiser in Rows	D-PaL Depalletiser-Feeder
VIDEO	Co-PaL attending the exit of Folding line, Palamides Alpha 500 Stacker https://youtu.be/mDn_79dKsvs	Mini-PaL in production https://youtu.be/89ApO4Ytw_Y	PaL attending the exit of Bolero (Muller Martini) bookbinding line at Lidergraf https://youtu.be/cjIUZ5L-euU	PaL-F Palletizer for high speed bookbinding lines https://youtu.be/ega17_s2IC8	D-PaL feeding Fast Book line, working in Cayfosa´s facilities https://youtu.be/gcrd6QCqJAs
	Co-PaL attending the exit of Folding line, Palamides Alpha 700 https://youtu.be/d6Ddjc5AYDE		PaL attending triple exit of Multiplex Meccanotecnica Sewing line, Estella Print https://youtu.be/wR9xYdxnE3s		D-PaL installation working on Liberduplex https://youtu.be/Qko9aVyEFac
	Co-PaL attending the exit of Sewing line, single exit https://youtu.be/-4HVA6wcaBw		PaL attending the exit of three Ventura Sewing lines in Grafotisak https://youtu.be/sdShxcxbObo		
	Co-PaL attending the exit of Bookbinding line https://youtu.be/Yu8nUSPavNI		PaL + pallet buffer, attending the exit of two Ventura Sewing lines in Grafotisak https://youtu.be/omjqNOpknmM		
			PaL attending the exit of Web press & Banding line https://youtu.be/G-NX7fXQVTs		
PERFORMANCE	1 & 2 x Sewing 1 x Folding 1 x Saddle Stitching 1 x Covers 1 x Bookbinding	1 & 2 x Sewing 1 & 2 x Folding 1 & 2 x Saddle Stitching 1 & 2 x Covers 1 x Bookbinding	2 x Sewing 3 x Sewing 2 x Folding 2 x Saddle Stitching 2 x Covers 1 x Bookbinding	High Speed Soft cover binding lines High Speed Hard cover binding lines	Soft cover binding lines Hard cover binding lines Boxing lines
SPEED	Up to 7.5 kg per stack 14 sec.per cycle limitation **3 – 4 cycles / min**	Up to 7.5 kg per stack **7 - 8 cycles / min**	Palletises a package every 7 seconds	Palletises 1 complete row every 10 seconds	De-Palletises 1 complete row every 12 seconds
SHEET PACKACGE SIZE	30 - 150 mm (H) 160 – 470 mm (L) 120 - 310 mm (W)	30 - 180 mm (H) 110 – 470 mm (L) 120 – 310 mm (W)	30 - 280 mm (H) 160 – 470 mm (L) 120 – 310 mm (W)	50 - 350 mm (H) 160 – 470 mm (L) 120 – 310 mm (W)	50 - 200 mm (H) 160 – 470 mm (L) 120 – 310 mm (W)
PALLET HEIGHT (pallet + production)	Up to 1,200 mm / 1,500 mm*	Up to 1,200 mm	Up to 1,500 mm	Up to 1,800 mm	Up to 1,500 mm
LAYOUT	**Without perimeter security fence**, can **easily move** from one post-press exit to the other whithin printhouse	**With perimeter security fence, fixed in one place**			
DIMENSIONS (incl. pallet area, fence)	1820 x 2260 mm	Customized layouts			
POSSIBILITY OF PALLETISING	Automatic palletising at **0°, 90°** or **180°** between packs of sheets			Automatic palletising at **0°, 90°** or **180°** between rows & layers	Automatically depalletises complete rows at **0°** or **180°** between layers
FEATURES & ADVANTAGES	**NO** slip-sheet inserting	**Automatic slip-sheet inserting**			Works with rigid slip-sheet that protrudes from the mosaic on 2 long sides
	NO signatures alignment before gripper approach	**Pneumatic alignment system to line up stack of production before gripper approach**			N / A
	N / A	**OPTIONALLY:** roller conveyor and pallet dispenser can be installed to automate the change of pallets		**INCLUDED:** roller conveyor and pallet dispenser to automate the change of pallets	**OPTIONALLY:** roller conveyor and pallet dispenser can be installed to automate the change of pallets

*possible on request
Due to improvements, specifications are subjected to change without prior notice