

UNIPAL

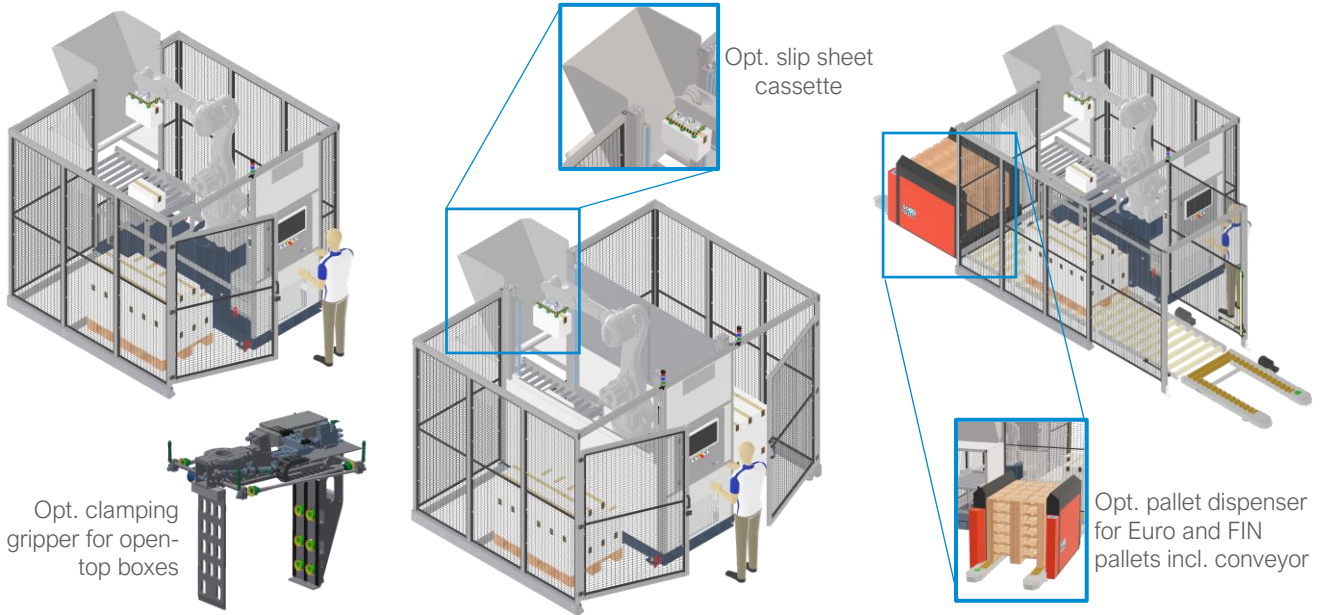
pal·let·ize

/ˈpælɪtaɪz/

verb.

STOP WORKING HARD, START WORKING SMART.

to stack packages (freight) on pallets for efficient shipping and handling



UNIPAL M – QTM's most versatile palletizing solution.

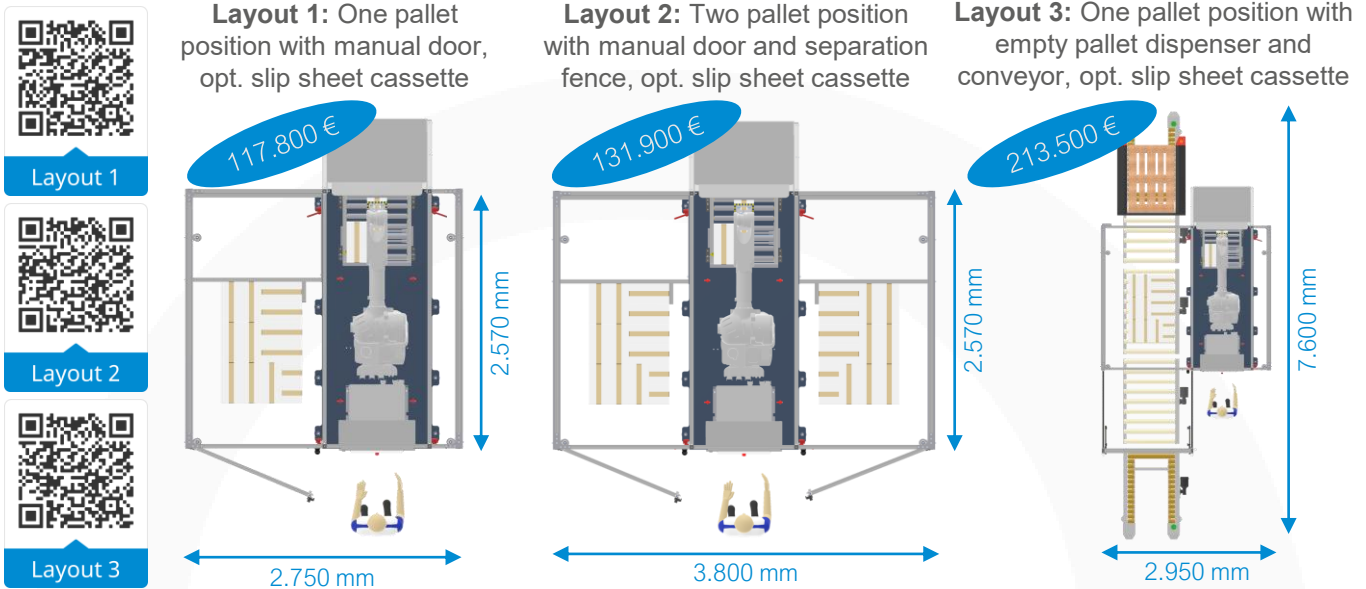
The UniPal M is our most versatile palletizing system. Built on a modular platform, it allows for almost unlimited configuration options, making it possible to realize **customized setups with standardized solutions**. Despite its fully enclosed, stationary fencing and the use of an industrial robot, the **footprint remains remarkably compact** while it delivers outstanding performance with **high cycle rates**, the ability to handle **heavy payloads**, and the capability to reach impressive **stacking heights**. Each **pallet position** can be **configured independently**, providing maximum flexibility for specific requirements. The system supports a wide range of **gripper options**, including solutions for open-top boxes, and can be seamlessly extended with empty pallet dispensers and **AGV connectivity** to achieve a very high level of automation.

BASE SPECIFICATIONS (FOR AVAILABLE OPTIONS SEE OTHER PAGE):

Robot	5-axis-industry-robot with 50 kg payload and up to 2.200 mm ¹ stacking height
Speed	Up to 600 boxes/hour ¹
Power and air supply	400 V power supply, 6 bar compressed air
Pallet position configuration	One pallet position for Euro and FIN pallet with manual door
Pallet check	Integrated sensors for pallet presence detection
Gripper	QTM suction cup vacuum gripper
Palletizing software & Display/HMI	Intuitive palletizing software – no programming or robotics expertise required (22-inch high-resolution touchscreen display)
Box pusher & conveyor	Integrated pusher for box alignment (side alignment) and 1,5 m long driven roller conveyor for boxes

¹ Depending on palletizing layout & box size, not accounting for pallet change and interlayer sheet insertion

THREE EXEMPLARY CONFIGURATIONS AND LAYOUTS:



Option / Upgrade

Pallet position configuration
(can be chosen independently for both sides)

Interlayer sheet cassette

Barcode reader

Gripper options

AGV/AMR connectivity

Warranty extension

Description

- Option 1: Pallet position for Euro and FIN pallets with manual door
- Option 2: Manual door with separation fence for continuous operation during pallet change (only for dual pallet layouts)
- Option 3: Empty pallet dispenser for Euro or FIN pallets incl. pallet conveyors
- Option 4: 2-level pallet conveyor system (lower-level infeed for empty pallets, top level outfeed for finished pallets) (min. two buffer positions)
- Magazine mounted above the conveyor for intermediate layer sheets
- For box identification by code or label verification
- Option 1: Vacuum area gripper for sensitive or rough surfaces (payload up to 35 kg)
- Option 2: Mechanical clamping gripper (e.g. for open packages, reduced palletizing speed)
- Communication with AGV/AMR control systems and presence sensors for loading and unloading
- Extend warranty from 12 to 24 months incl. AR remote support (internet connection required)



Configurator



Videos



Software Demo



ABOUT US - OVER 20 YEARS OF AUTOMATION EXCELLENCE

With over 20 years of automation and robotics expertise in the automotive and related industries and over 210 robots installed, we combine deep technical know-how with a strong understanding of the packaging sector. Our roots in the die-cutting machine business have made us a trusted partner in the folding carton industry for decades – with more than 850 customers in 55 countries worldwide. This unique combination makes us the ideal partner for automation solutions in the packaging industry: Our vision the fully automated folder gluer – from feeding of blanks, to packing and end-of-line palletizing.

Leading companies in the packaging industry already rely on our UniPal for their end-of-line palletizing – benefiting from significant efficiency gains, maximum flexibility, reduced sickness rates, and higher employee satisfaction.



"[...] we now have a lower sickness rate and higher employee satisfaction."
– Robert Gase, Head of Gluing (GPI Aachen)
Read [full article](#) in "Grafische Palette" 03/2025.



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