EFFICIENT PALLETIZING WITH HIGHEST STACKING QUALITY

Our fully-automatic palletizing systems intermesh evenly and reliably:

› Reception and positioning of the pack
› Product feed: optimal alignment with very high cycle output
› Individual composition thanks to modular structure
› Suitable for various pack units and load carriers
› Low and high product inlet possible
› Optimized layer formation thanks to all-side layer shaping
› Gentle handling
› Layer formation, also with intermediate layer
› Flexibility with simultaneous palletizing of packed units with varying measurements
› Packing capacity of up to 70 units per minute
› High availability
› High stacking quality and stability

GENTLE HANDLING AUTOMATIC DEPALLETIZING

Our industrial robots pick the packs gently and securely from all four sides:

› Automatic feed and removal of pallets or other load carriers such as pallet cages, trays or other
› Layer recognition through image processing or sensor technology
› Highest capacity in single-pack handling or by gripping several packs/layers
› Industrial robots accomplish their tasks at maximum speed, and are flexibly employable with various depalletizing patterns
› Single-origin depalletizing and storing

All TRAPO systems impress with the additional integration of:

› Bag equalization
› Empty-pallet magazine with individual sorting and empty-pallet feed
› Load security in several variants
› Sealing with hot or cold glue
› Control functions: weighers/metal detectors
› Product printing/Labeling

Profit from our intelligent total solutions for palletizing and depalletizing your packs. Industrial grippers, designed for certain integrated functions, and precisely functioning robots are manufactured based on the model of the human hand and its capabilities.

Our robotic-, portal- and palletizing systems are inserted perfectly into your workflows:

› Swift
› High availability
› Space saving
› Gentle handling
› Precise
› Unmanned reliability

Our customers profit from comprehensive engineering competence from numerous, successfully completed system projects.

We are at home in these sectors:

Automobile and wheel industry | Food industry | Pharmaceutical and Medicine | Chemical industry
Building materials industry | Packaging industry | Special Machine Building | Furniture industry

We Move Your Success

We supply all sectors worldwide – into a joint, successful future!

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Worldwide Competence in Palletizing and Depalletizing

TRAPO AG
We Move Your Success

INTELLIGENT TOTAL SOLUTIONS PALLETIZING AND DEPALLETIZING

TRAPO | ROBOTIC- | PORTAL- AND PALLETIZING SYSTEMS
OUR ROBOTS OPTIMIZE:
YOUR PALLETIZING - AND DEPALLETIZING PROCEDURES

Our robot applications and systems optimize your palletizing- and depalletizing procedures sustainably and can be fully-automatically matched in the mechanical and technical control domain to the production environment. From various positions they pick individually, in rows or in layers, small-load carriers (KLT), bags, cans, buckets, trays, cartons or barrels.

The tailor-made programming of precise flows in the entire system requires multi-level expert competences. As a special provider for automation of production and logistics, the TRAPO AG integrates hard- and software of various robotic systems of well-known makers.

ROBOTICS SYSTEMS: TRAPO

TAKE THE DIRECT ROUTE:
PORTAL ROBOTS

Our high-capacity portal palletizers act in a gentle material-handling manner on three linear axes within cubic space. We design and manufacture the portal robots in our own production facility in Gosche-Hochmoor.

We also specialize in portal robots made of stainless steel for special applications in fields of special requirements in hygiene and corrosion.

Our knowledge – your benefit:
› Modular construction
› Suited to various pack units and load carriers
› Gentle product handling
› Freely selectable layer patterns
› On request: version suitable for cleanrooms
› Greater weights are realizable on request as a special build
› High availability

PORTAL ROBOTS: TRAPO

AMPLE AND FLEXIBLE:
JOINTED-ARM ROBOTS

4- or 6-axes jointed-arm robots adapt highly-flexibly to various well-known marques. The high-capacity systems palletize, sort, pick and place swiftly and highly-precisely, individual pieces, rows or complete layers.

Our knowledge – your benefit:
› Small space requirement
› On request: version suitable for cleanrooms
› Can be flexibly employed for various applications
› Modular construction: greatest adaptability to product characteristics
› Product- and sector independent: mature gripper technologies transport widest range of goods
› Suited to various pack units and load carriers
› Gentle product handling
› Freely selectable layer patterns
› On request: version suitable for cleanrooms
› Application-oriented, flexible combination of optimally-complemented high-capacity palletizer- and robot technical characteristics
› High availability

JOINTED-ARM ROBOTS: TRAPO

THE PERFECT INTERACTION:
ROBOTS AND GRIPPERS

Tailor-made gripper technology perfects application options, function and performance of a robotic system. Employment of a gripper optimally developed by the TRAPO AG is crucial when it comes to sustainability increasing performance and quality.

Combination gripper
Mechanical grippers prove themselves when bags or other products such as barrels, cansisters or carriers need to be handled and palletized.

Fork grippers
Reversing forks grasp open vessels or larger containers.

Vacuum grippers
Suction technology is the prime application of vacuum grippers.呼唤 weights are increased by the number of suction units and suitable vacuum generation.

Magnetic grippers
Magnetic grippers for ferro-magnetic materials gain their holding strength through permanent or electro magnets. In practice, for example during handling of perforated plates, or to support suction of heavy plates.

Needle grippers
Needle grippers optimize the handling of unstable or air-permeable goods, such as textiles, stone wool, rubber plates or fabrics.