

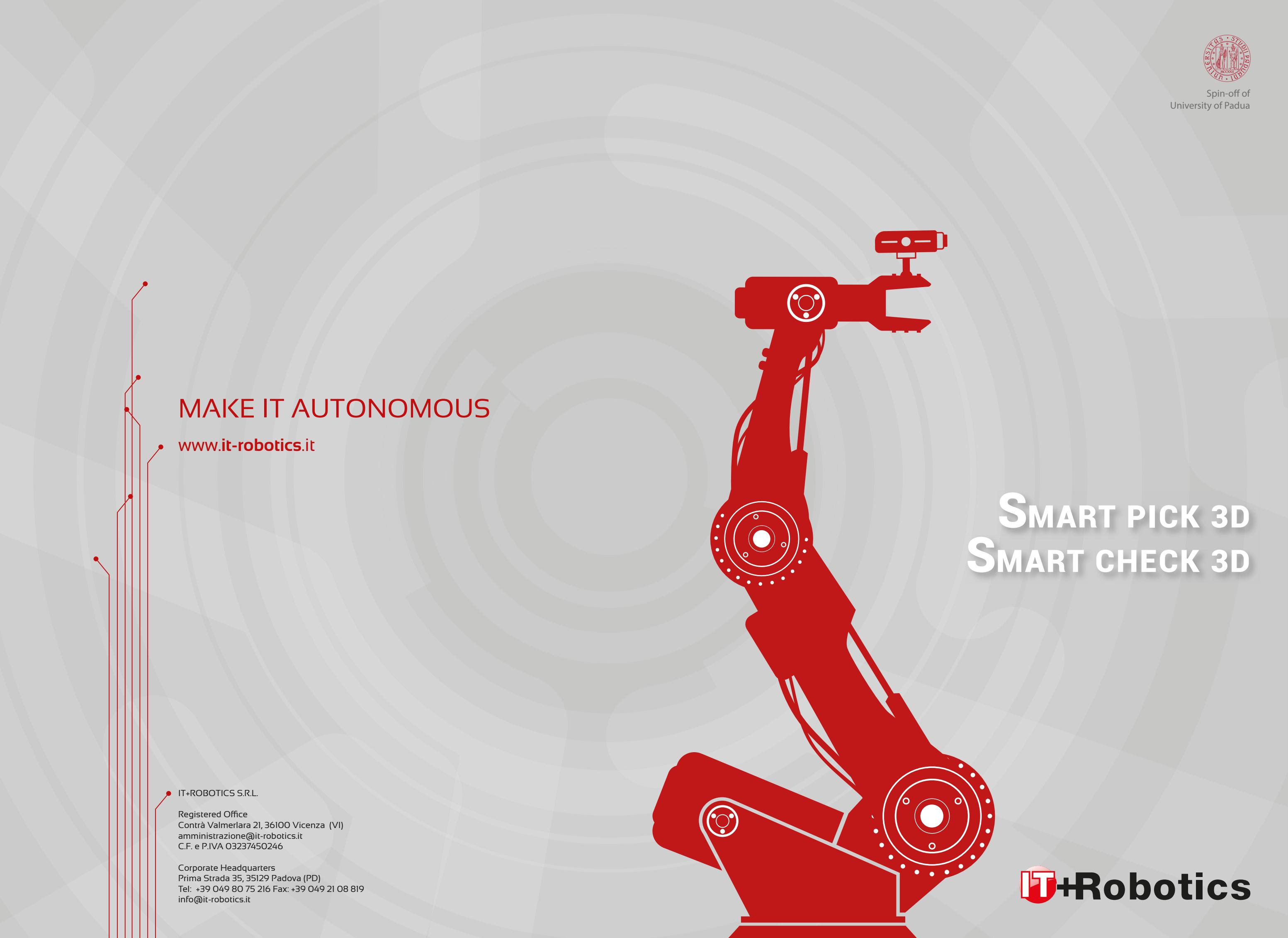
SMART



EASE OF USE
FACILE



ECONOMY
ECONOMICO



MAKE IT AUTONOMOUS
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SMART PICK 3D
SMART CHECK 3D

IT+Robotics



MAKE IT



FLEXIBILITY
FLESSIBILE



RELIABILITY
AFFIDABILE

SMART PICK 3D

Fast and efficient robot guidance for random bin-picking.
Guida robot rapida ed efficiente per random bin-picking.

- ✓ **Robustness:** flat, reflective and complex three-dimensional objects arranged in any manner.
- ✓ **Precision:** possibility of selecting the optics and sensors best suited to the precision requirements.
- ✓ **Scalability:** multiple fixed vision systems mounted on linear axes or robot manipulators.
- ✓ **Flexibility:** possibility of selecting the number of cameras and the positions of the lighting and laser units.
- ✓ **Reliability:** automatic programmable calibration in order to ensure maximum precision.
- ✓ **Economy:** industrial cameras, standard optics and independent laser projectors.
- ✓ **Ease of use:** off-line programming of new products in complete autonomy.
- ✓ **Integration:** compatible with all robots and PLCs in order to ensure maximum adaptability to the production line.
- ✓ **Effectiveness:** decision-making and collision-avoidance heuristics for the complete emptying of the bin.
- ✓ **Customization:** specific algorithms and GUIs for handling particular cases.

- ✓ **Robusto:** oggetti piani, riflettenti e tridimensionali complessi in ogni orientazione.
- ✓ **Preciso:** scelta personalizzata di sensore e ottica adeguati alla precisione richiesta.
- ✓ **Scalabile:** sistemi di visione multipli fissi, montati su assi lineari o robot manipolatori.
- ✓ **Flessibile:** scelta del numero di telecamere e posizione di illuminatori e laser.
- ✓ **Affidabile:** calibrazione automatica pianificabile per mantenere la precisione.
- ✓ **Economico:** telecamere industriali e ottiche standard, proiettori laser indipendenti.
- ✓ **Facile:** programmazione offline di nuovi prodotti in completa autonomia.
- ✓ **Integrato:** compatibile con tutti i robot e PLC per adattarsi alla linea produttiva.
- ✓ **Efficace:** euristiche decisionali e collision-avoidance per svuotare totalmente il cassone.
- ✓ **Personalizzabile:** algoritmi specifici e GUI per gestire casi particolari.

VERSION	CONTEXT	PRODUCTS	TECHNOLOGY	CONFIGURATION
Profile	Belt	All	Cameras	CAD self-learning
VERSIONE	CONTESTO	PRODOTTI	TECNOLOGIA	CONFIGURAZIONE
Shape	Bin	Levels	Cameras	CAD 2D
Solid	Bin	All	3D sensor	CAD self-learning