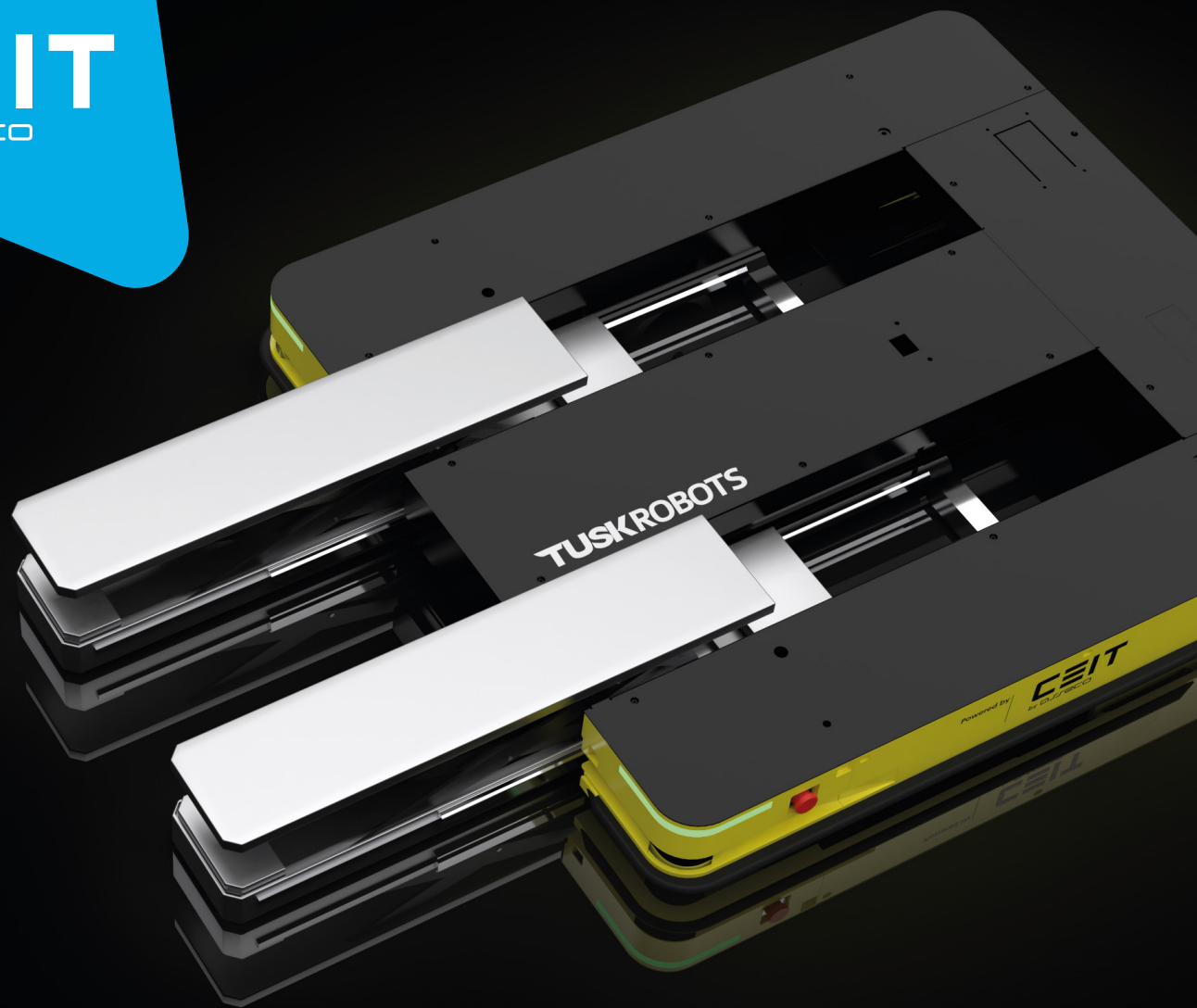


CEIT
by GSECO



NEW **F1000AP**

**Forklift AGV with revolutionary system
of hidden forks**

NEW F1000AP

Asseco CEIT brings to the forklift AGV segment a breakthrough innovation, the **F1000AP**, whose key advantage is in particular the extremely low handling space requirement, which is achieved by a revolutionary invisible fork system. This solution does not need supporting legs or counterbalance. The forks are part of the device itself, are fully extendable and thus allow the transport of material to reach a size that does not significantly exceed the size of the transport pallet itself.

● Multi-dimensional protection

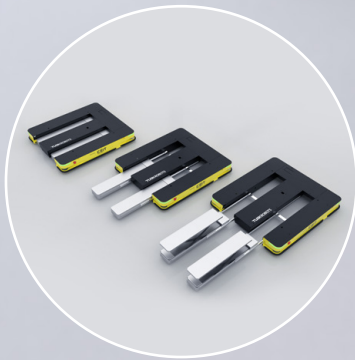
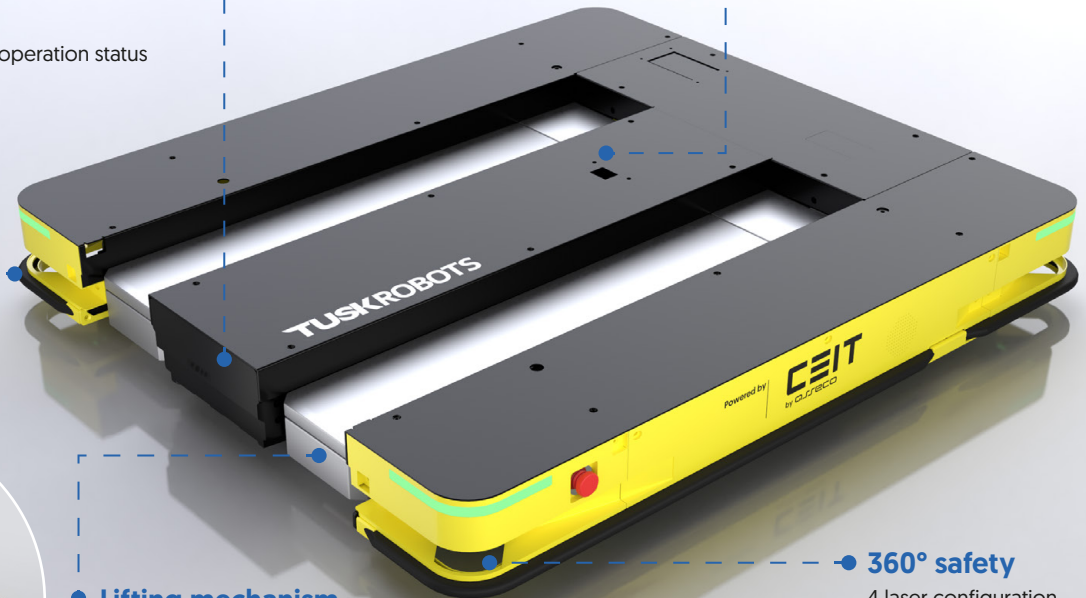
- Safety bumper
- Emergency stop button
- Status indicator lights
- Sound alarm
- Real-time monitoring of AGV operation status

● Visual obstacle avoidance

- Forward - facing stereo camera
- Stereoscopic space protection

● Hybrid navigation

- Hybrid switching between DM Code and SLAM navigation



● Lifting mechanism

- Invisible fork system
- Direct pallet pickup
- Body-backed operation

● 360° safety

- 4 laser configuration
- 360° laser protection

Lifting mechanism

INVISIBLE FORK ARM
LIFTING HEIGHT UP TO 330 MM

Manipulation

FROM THE GROUND

Navigation

HYBRID NAVIGATION

Max speed

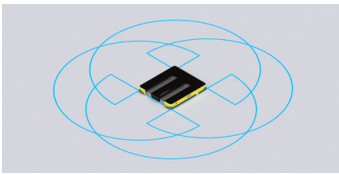
1.5 M/S

Rated load

1,000 KG

Safety

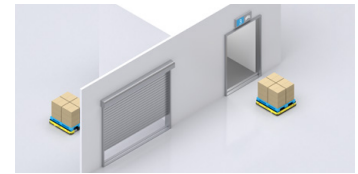
360°, OBSTACLE AVOIDANCE DETECTION



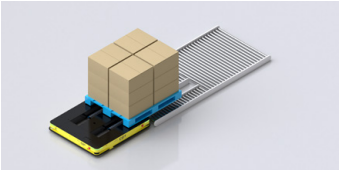
Safety



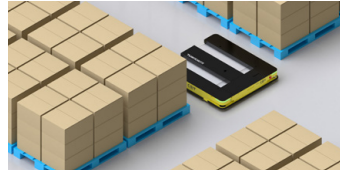
Charging



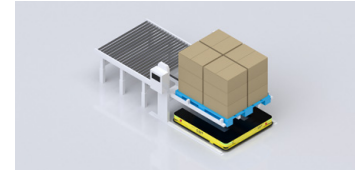
Elevator



Ground roller



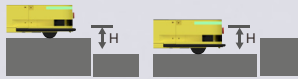
Dense storage



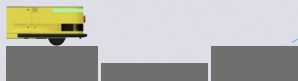
Lift conveyor line

Ground Adaptability

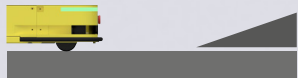
Step $H \leq 15\text{mm}$ within a range of 100mm length



Gap $L \leq 40\text{mm}$



Slope $\alpha \leq 4^\circ$



Surface Roughness
Variation $w \leq 5\text{mm}$ within 1m^2



HONORS



red dot

Red Dot Design Award



2023 RBR50 Robotics Innovation Awards



The iF Design Award

F1000AP

SPECIFICATION

Type	Straddle low lift
Navigation	Hybrid navigation (switching between DM Code and SLAM Navigation), obstacle avoidance detection
Direction of drive	Forward, backward, on the spot rotation
Minimal turning radius [m]	1.9
Max speed [m/s]	1.5
Load capacity [kg]	1,000
Lift	Electric
Max lift [mm]	330
Dimensions [L, W, H in mm]	1,312x1,060x170
Forks	Welded
Pallet lenght [L in mm], pallet width [W1 and W2 in mm]	$\leq 1,400$ $W1 \leq 160, 600 \leq W2 \leq 900$
Manipulation	From the ground
Batteries	Lithium
Charging	Automatic - contact
Control	Universal remote control [URC]
Safety scanners	SICK 360°



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