

The Brain behind Smarter Robotics

Programmable Intelligence for Industrial Robotics —
deploy and scale AI robotic solutions without deep
robotics expertise

 ORNA AI Agent



**What would you
like to automate?**

Quick Actions

 Configure Pick task

 Palletizing Task

 Perform Inspection

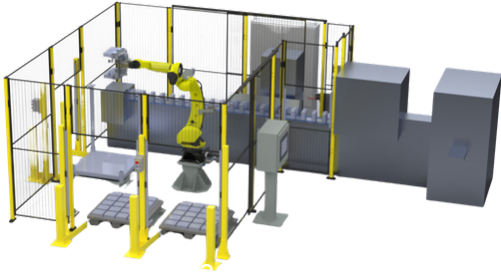
 Robot Status

Ask ORNA Anything...



Current State of Industrial Robotics

01



Hardcoded waypoints.
Rigid fixtures. The moment
your line changes, you start
over

02

 Gemini



ChatGPT

FANUC

SIEMENS

LLMs can't run your
production line. Traditional
automation can't think.
Tomorrow's factory needs
both

03

50

-70%

of total project cost is
integration and
programming

The hardware
is capable —
the software
and integration
layer is not

● ● ● ORNA AI Agent

Pick M8 bolts from the bin

8 bolts detected, 6 DoF estimated. Executing....



UR7e • Connected • Executing

We enable Industrial Robots to see, **think**, and act.

● ● ● IDE

OrnaPy SDK

```
from ornapy import orna_api

orna = orna_api.ORNA()
orna.move_to_named_pose("home")
orna.pick("object", approach_pose="top", speed=0.5)
```

ORNA Vision

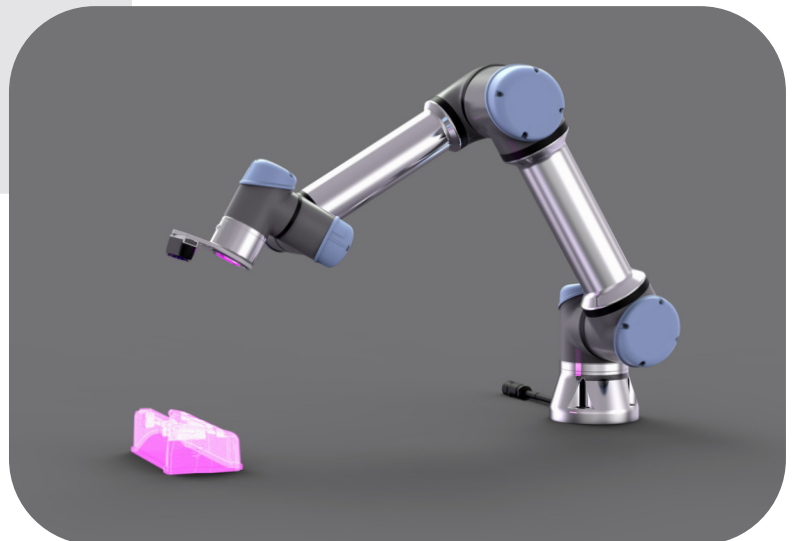
Perception via Foundation Model

Object Detection & Pose

6DoF pose estimation and object detection with or without per-object training.

3D Spatial Awareness

Depth sensing and 3D scene mapping for collision avoidance, bin picking, and precise placement.



What is ORNA

Why ORNA

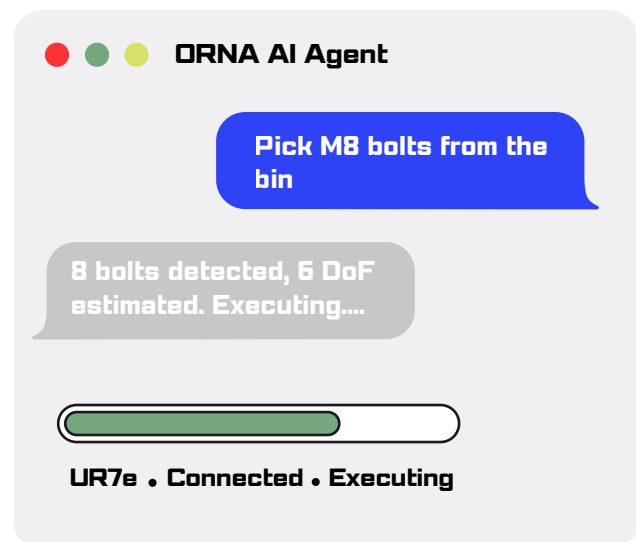
An AI-first Technology Stack for Industrial Robotics

Explainable AI

Every reasoning step is visible.
"Detected object → selected gripper → evaluated approach → feasible

You own the data and logic

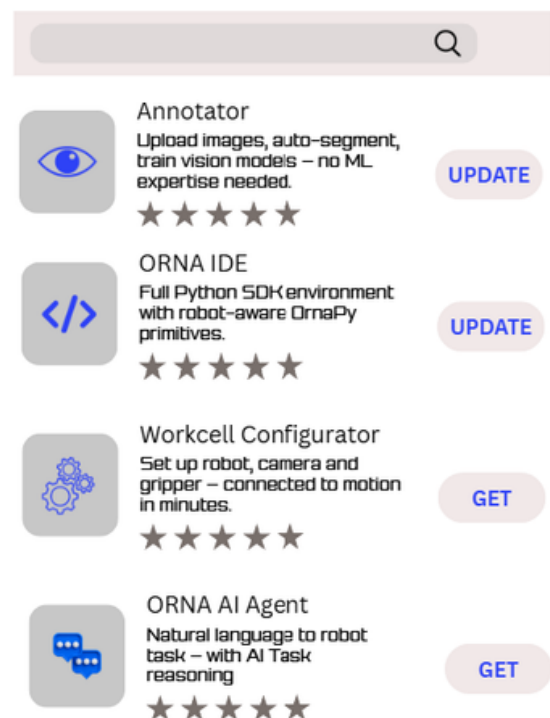
Grasp outcomes, detection logs, cycle data — all on your edge hardware.
Train on it. Build proprietary models from it.



As App Store for Industrial Robotics

Plug-and-play AI apps for every common task. ORNA controls the arm, talks to PLCs, connects any camera or gripper. One platform, any workcell.

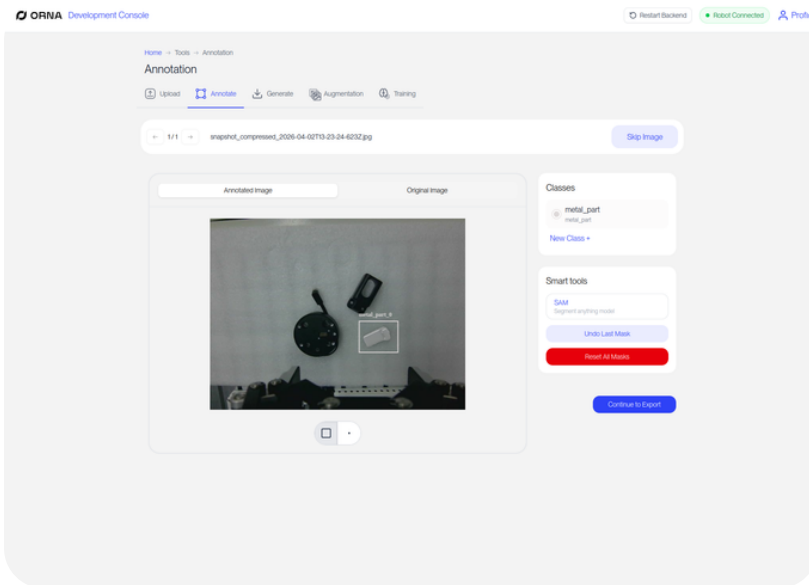
A growing library of supported hardwares



Our Platform

Smart Annotator

Train your object detection model in minutes. Upload a handful of images — ORNA handles annotation and synthetic data generation automatically.



10x your Object Detection

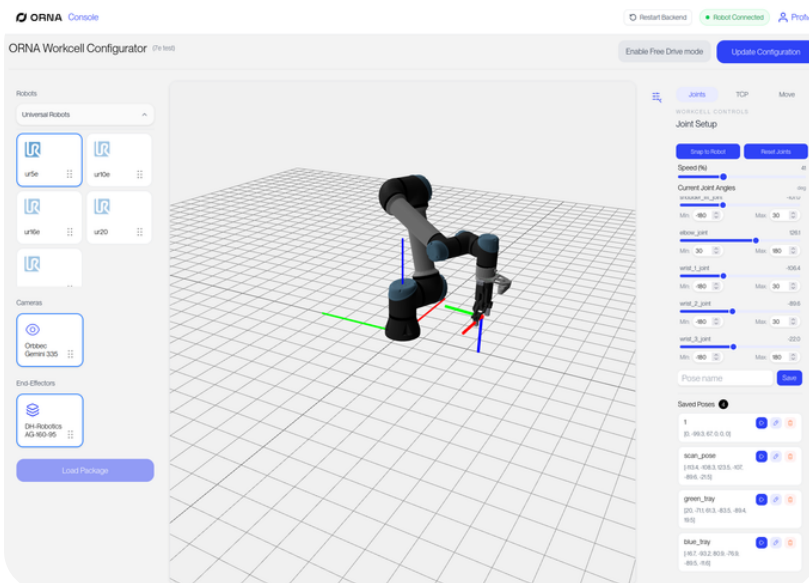
From deep learning model to few-shot detection via foundation model — we accelerate the full training pipeline with 5 images instead of thousands.

Smart Annotation and Synthetic Data Generation

Upload 5 images, annotate with our smart tools and ORNA generate thousands of training images automatically — varied poses, lighting and backgrounds.

Workcell Configurator

A setup utility that gets your workcell running in minutes. Select your robot arm, camera and end-effector — ORNA checks connections and configures everything automatically.



Robot configuration — as easy as a few clicks

ORNA checks connections, validates joint limits and sets up the motion profile automatically. No manual driver setup.

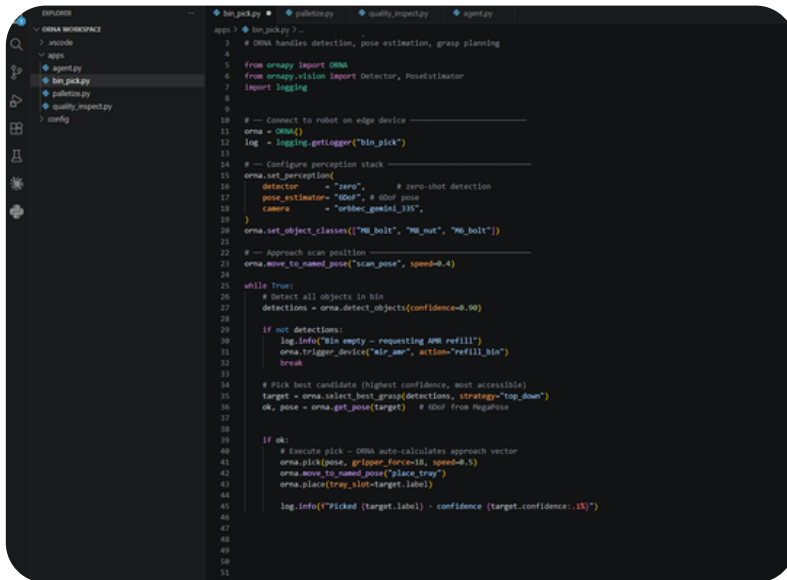
Expanding to full cell layout

Conveyor, fixture and multi-station layout planning is on the roadmap — building on the same configuration foundation.

Our Platform

ORNA IDE + SDK

A purpose-built robotics development environment. Write, test and deploy anything — from traditional motion control and PLC logic to AI-powered vision tasks and LLM-driven autonomy. One SDK, the full stack



10x your Robotics Development

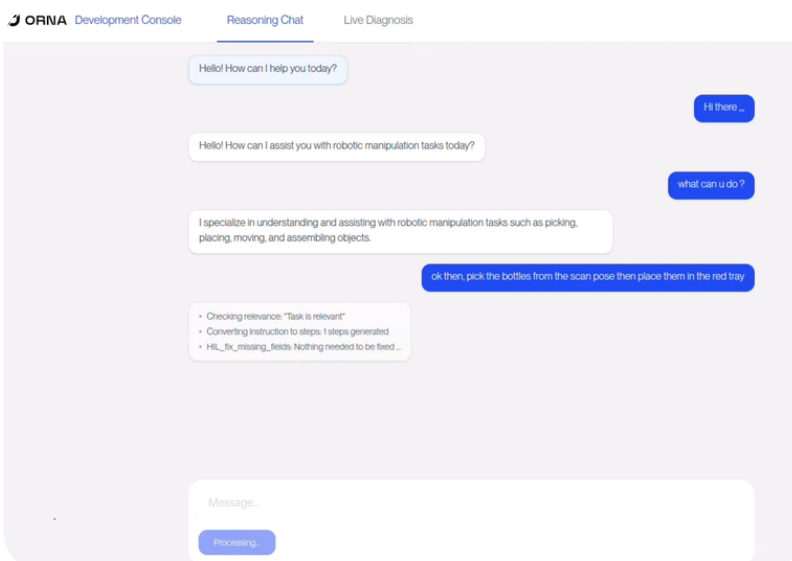
OrnaPy abstracts all motion primitives - We remove the complexity of perception-action integration so you can focus on the application

Build anything you want

Integrate with MES, talk to PLC, build your own workcell logic, or build an AI Agent on top. The same SDK covers traditional automation all the way to autonomous AI tasks.

ORNA AI Agent

Describe what you want in plain language. The AI Agent breaks it into steps, calls the right tools, monitors execution, and recovers from failure — automatically.



Natural language to robot action

Describe the task in plain language. The LLM decomposes it into a structured plan, picks the right tools and executes — no programming, no teach pendant.

Neurosymbolic reasoning

Combines LLM with Deterministic execution. Full reasoning chain — error detection, re-plan, retry — without stopping the line.

Use Case



Traditional palletizing locks you into one box size, one orientation, one program. ORNA replaces that constraint with AI

- Pick from unsorted feed — no fixture needed
- Pallet pattern computed dynamically — not hardcoded

Dynamic Palletizing — without fixtures



Dynamic layout

Mixed Size

No Fixtures

Traditional bin picking requires parts to be sorted, separated, and presented in a structured manner. ORNA replaces that constraint with AI

- Detects and localizes parts in cluttered, overlapping bins
- New part = upload images, train in hours, deploy

Adaptive Grasp

Clutter Detection

3D Vision

High Mix Bin-Picking & Sorting



Industrial Robots that see, **think**, and act.

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sales@orna.tech



www.orna.tech



+852-63325578