



OBELISK

**Your offline software
for robot bending workcells**

 **EUCLID LABS**



WHAT IS OBELISK

Obelisk offline programming software for robot and press brake workcells enables the user to simulate the whole bending process from drawings definition to program generation. Obelisk increases the efficiency of bending workcell, reducing off time for mechanical setup and robot programming, providing a high level of precision and reliability.

01 MANAGEMENT OF WORKCELL AND PRODUCTS CATALOGUE

Select the workcell and a DXF file to start simulation.



02 DEFINITION OF PRODUCT WORKING CYCLE

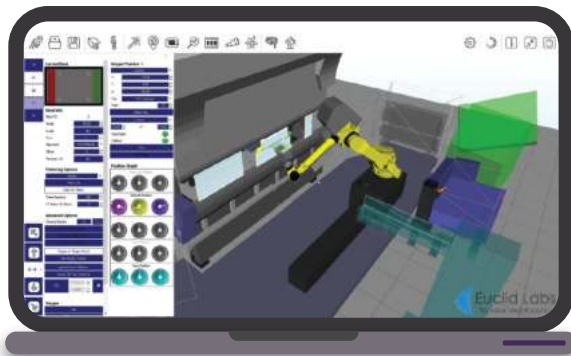
- Choose the final bent shape of a product (angles, directions, sequence).
- Choose gripper, thickness, weight and desired loading and unloading systems.
- Arrange the press brake's tooling stations and multiple gauges positioning.



03

SIMULATION OF PRODUCT WORKING CYCLE

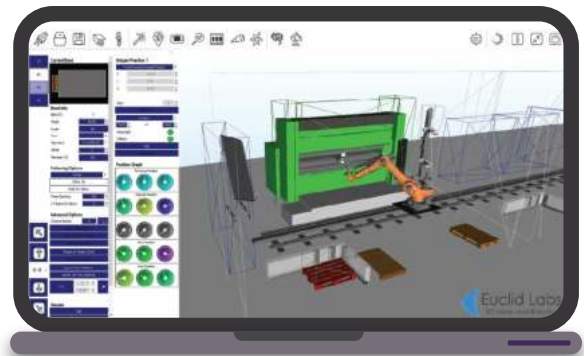
- Fully intuitive 3D environment to simulate robot kinematics and collisions.
- Decide how to manage Product in all designated steps (loaders, bends and pallets).
- Test bends feasibility and fix robot and pressbrake attitude according to the needs.
- Define palletization scheme on pallet, starting from the simple ones to more complex solutions.



04

GENERATION OF TRAJECTORIES AND PROGRAMS

- Once all steps have been defined, compute robot trajectories and complete Product working cycle.
- Last, generate final robot and press brake programs and send them directly to the machines.
- Many press brake and robot brands are fully supported (e.g. Kuka, Fanuc, ABB ...).

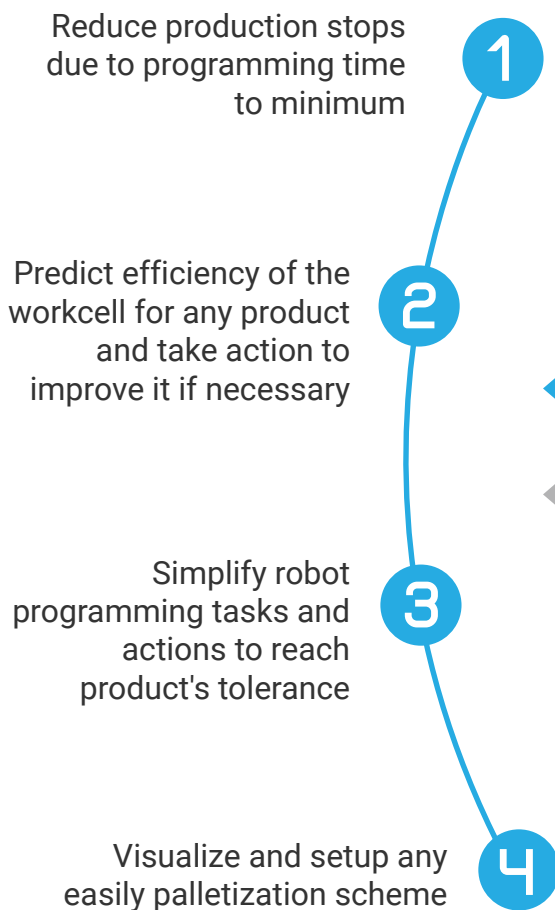




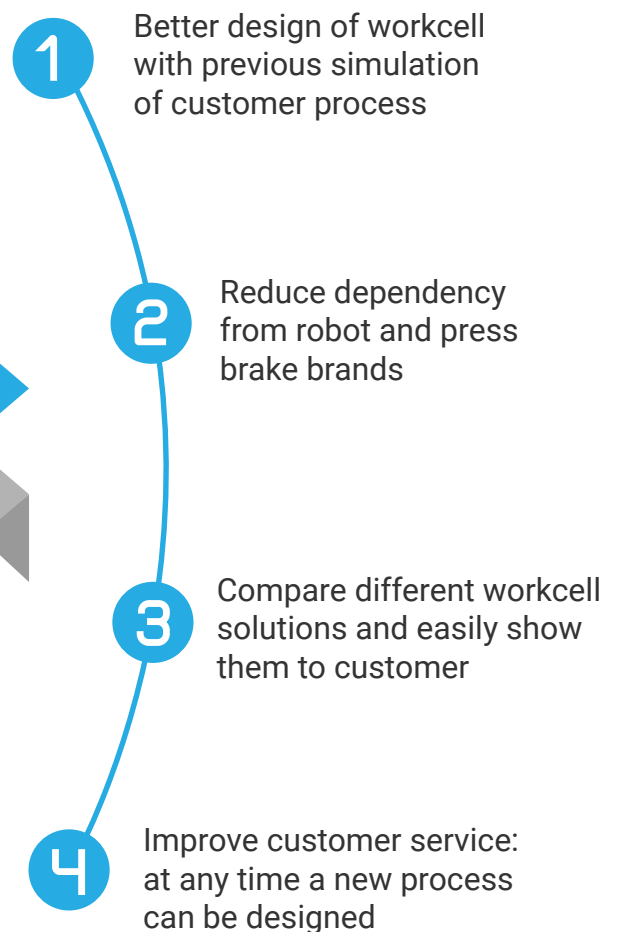
OBELISK

— MAIN BENEFITS —

FOR END USER



FOR SYSTEM INTEGRATOR





OBELISK

— ADVANCED FEATURES —

- + Multi components management (stacks, aligners, pallets).
- + Multi TCP management (gripper, regrip stand, gauge).
- + Interpolation engine to be more cohesive with real workcell.
- + Bend deduction to offer a realistic bending process.
- + Middle points to introduce product additional handling.
- + Quick drag editing of pressbrake tools and gauges.
- + Orthographic view fully supported.
- + Jigs vertical stack management and simulation.
- + Obelisk as palletization software (no bending steps).
- + Change colors of whole software as desired!



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