

D-02 System Solution

Curved surface grinding system that utilizes a pose tracking sensor to capture human movement

- The "Mimic" pose tracking sensor works with the "NAC" pressure control tool, allowing the robot to do the grinding work of a skilled worker without any cables
- Fine force control allows the system to automate previously difficult work, such as grinding, sanding, burring, and coating, across a wide range of applications



The "Mimic" pose tracking sensor makes teaching intuitive

Mimic captures the organic hand movements of the worker, and then stores the position of each axis of the robot in sequential order, allowing the robot to mimic the movement of the worker. This makes it possible to easily and intuitively teach the robot complicated trajectories taken by the human hand.

The robot can mimic human movement, eliminating the need to teach many waypoints along a path and write complicated programs to connect these points, significantly reducing adjustment work (reduced 70 to 80% compared with the conventional method).



The "NAC" pressure control tool provides precise pressing force control

The stroke is adjusted to instantly follow changes to the dimensional tolerance and shape of the object, allowing it to always maintain a consistent force when making contact with the object.

NAC adjusts the weight of the tool no matter the orientation, allowing it to always maintain the proper contact force and eliminating the need to teach the robot the complicated positions and paths of the shape, for much quicker startup.

IP67-compliant for use even in harsh environments.



Nordbo Active Compensation unit (NAC)

System configuration

