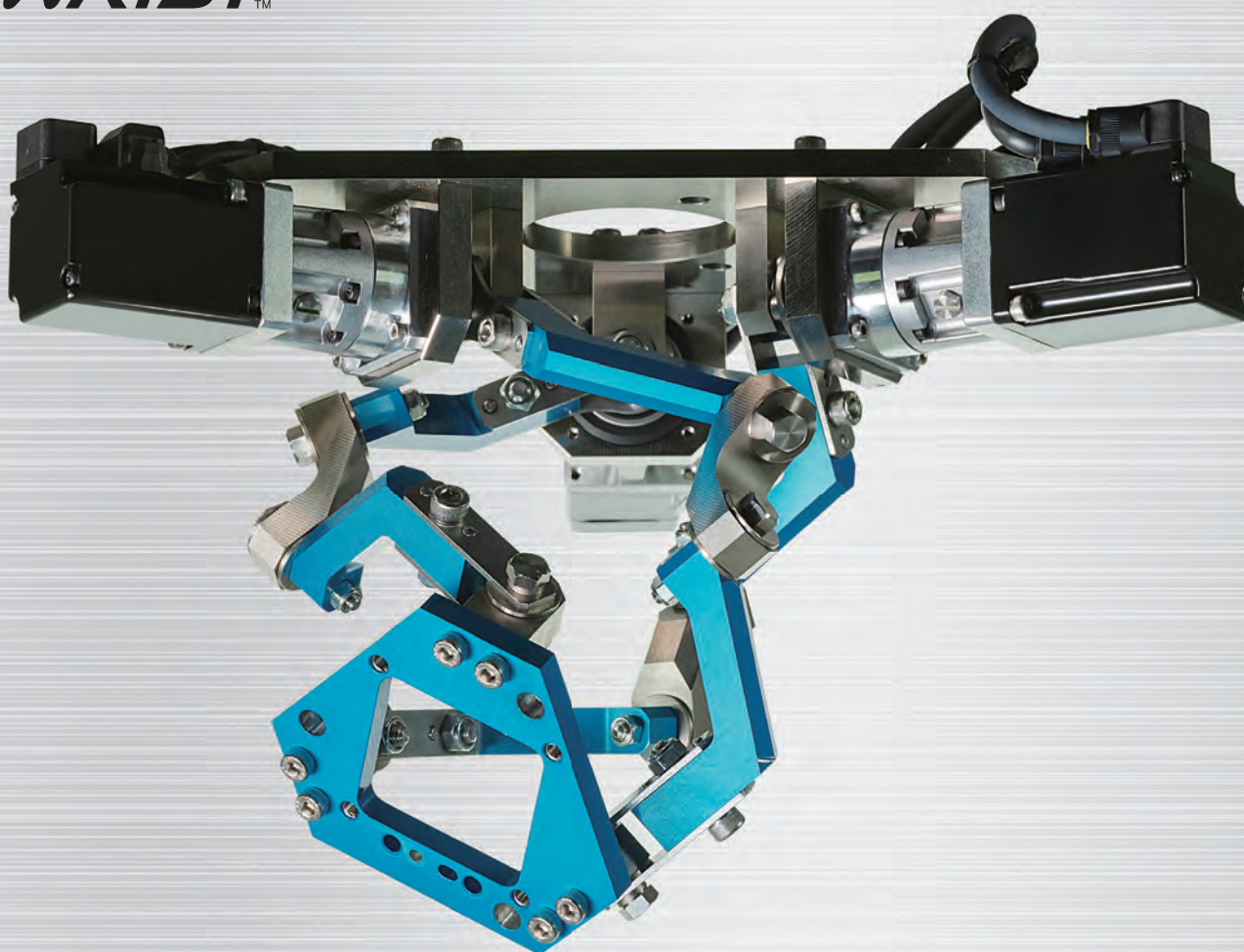


NTN®

Wrist Joint Module

i-WRIST™

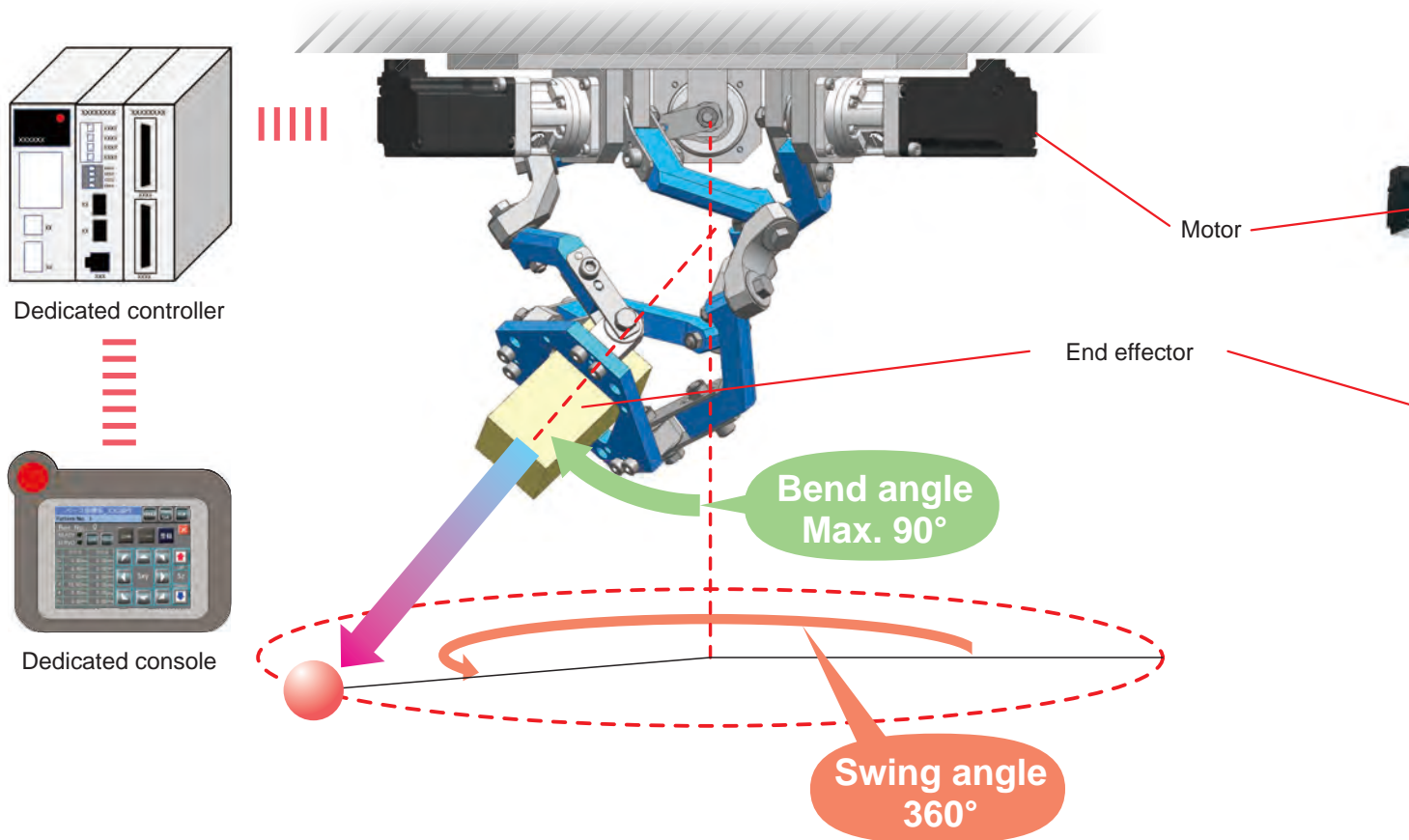
CAT.No.6511/E



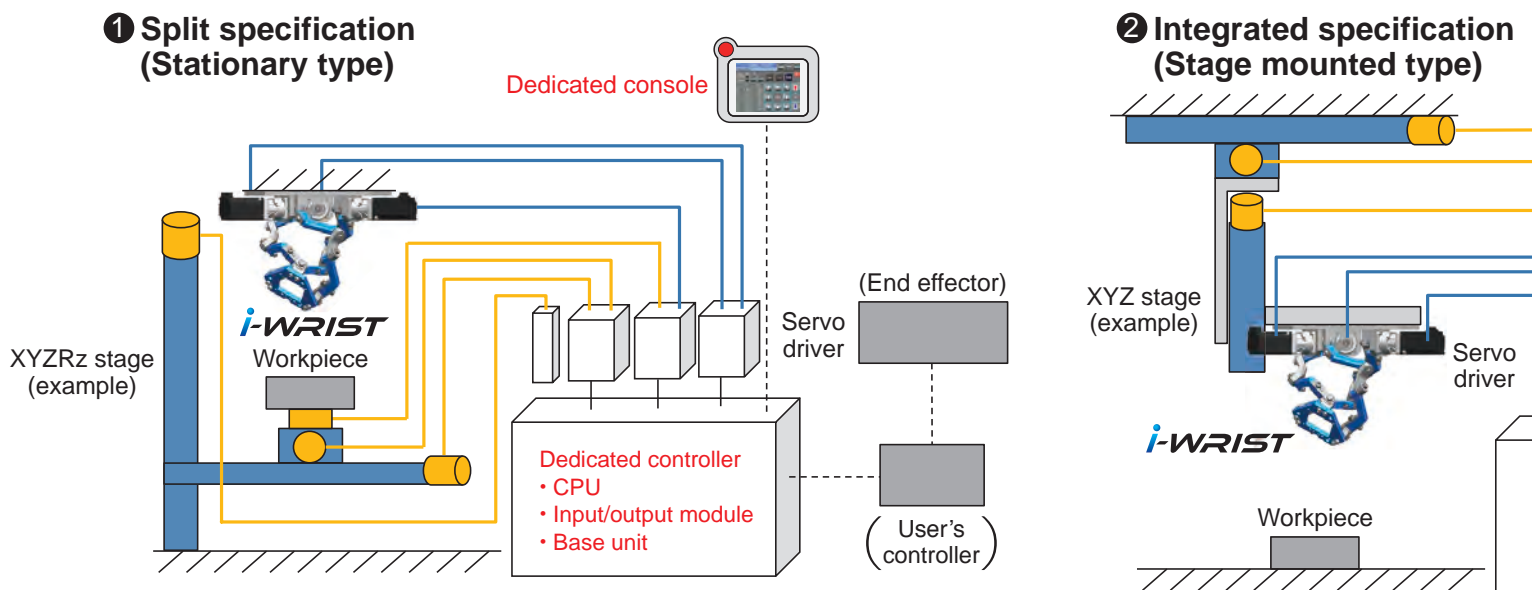
Approach workpieces from various angles!

Wrist Joint Module i-WRIST™

Model diagram of system components

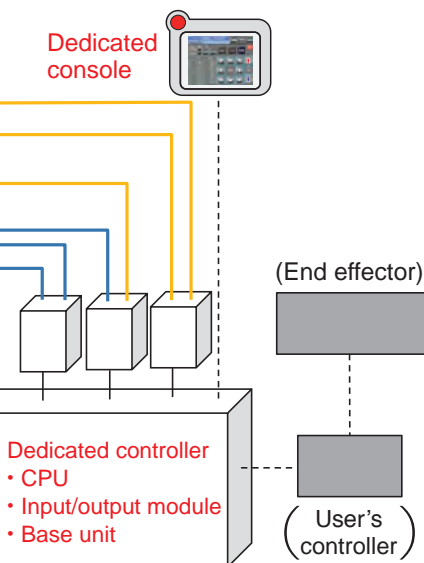
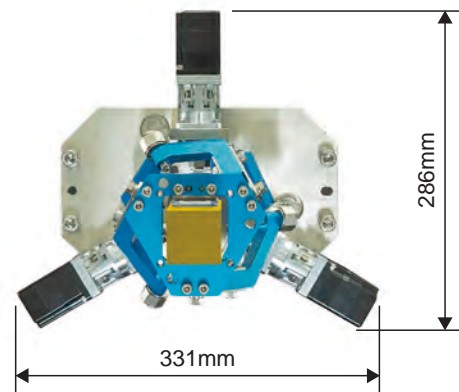
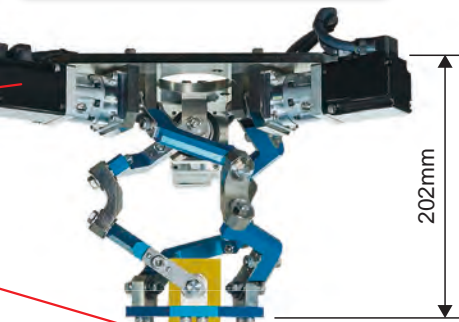


Example configuration



- * Inquire separately for other configurations.
- * Components in red are supplied by NTN. Inquire separately for other components.
- * One dedicated console can control multiple devices.
- * By customer to arrange the end effector, user's controller, XYZRz stage and workpiece.

Compact design



Features

1 Approach target positions from various angles!

- **Wide operating range:** maximum bend angle 90°, swing angle 360° (free)
- Coordinated operation combining the XYZ stage and rotation (Rz) stage.
- **Compact** layout.

2 Outstanding productivity!

- Able to move to a specified point **in the quickest time.**
- Equipped with automatic speed calculation algorithm (vibration suppression when stabilized).
- Layout with end effector mounted within link mechanism.

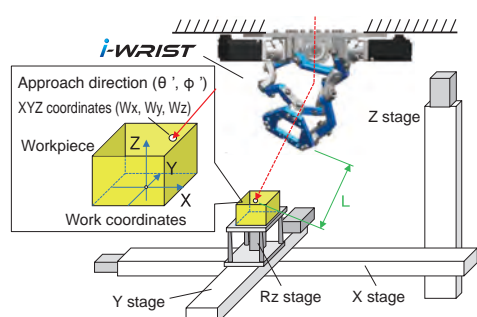
3 Quick changeover time and adjustments!

- Intuitive and easy-to-use dedicated console.
- Cables routed within link mechanism. (prevents cables becoming twisted after repeated swing motions)
- Save multiple operating patterns.

Main operation setting functions


Intuitive teaching process based on XYZ coordinates.

Fine adjustment of the position using jog button.



JOG operation screen

Enter XYZ coordinates and approach direction directly.



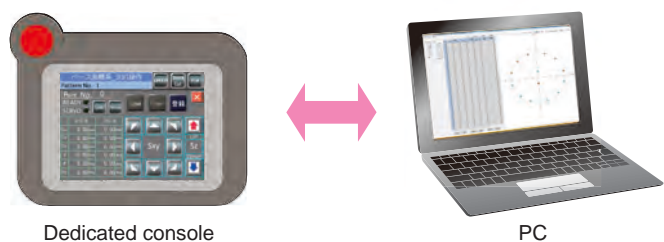
Pattern No.	Wx [mm]	Wy [mm]	Wz [mm]	θ [deg]	φ [deg]	Rz [deg]	Speed [mm/s]
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Coordinates input screen

Operating conditions, motor gain and other settings can be configured.

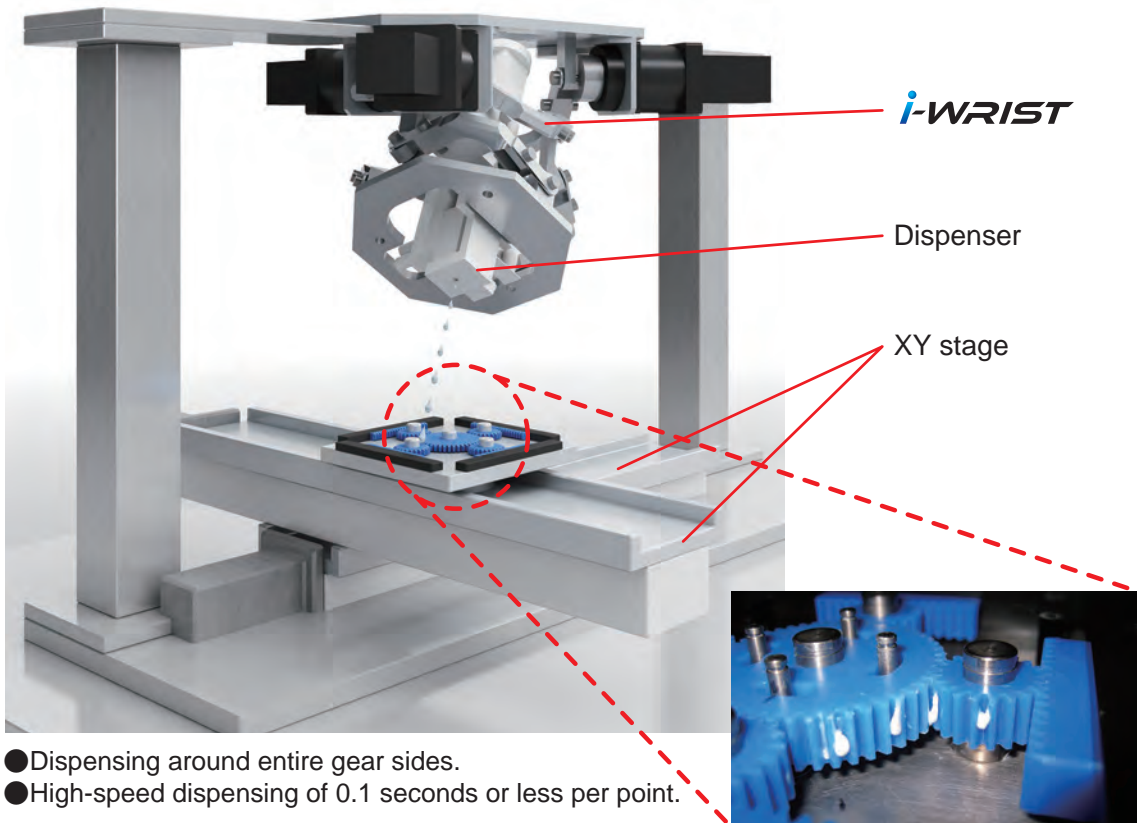
"JOB code" can be output to user's controller for each position, Using this "JOB code" users can set operations for each position with user's controller.

Data of registered points can be edited and saved on a PC.

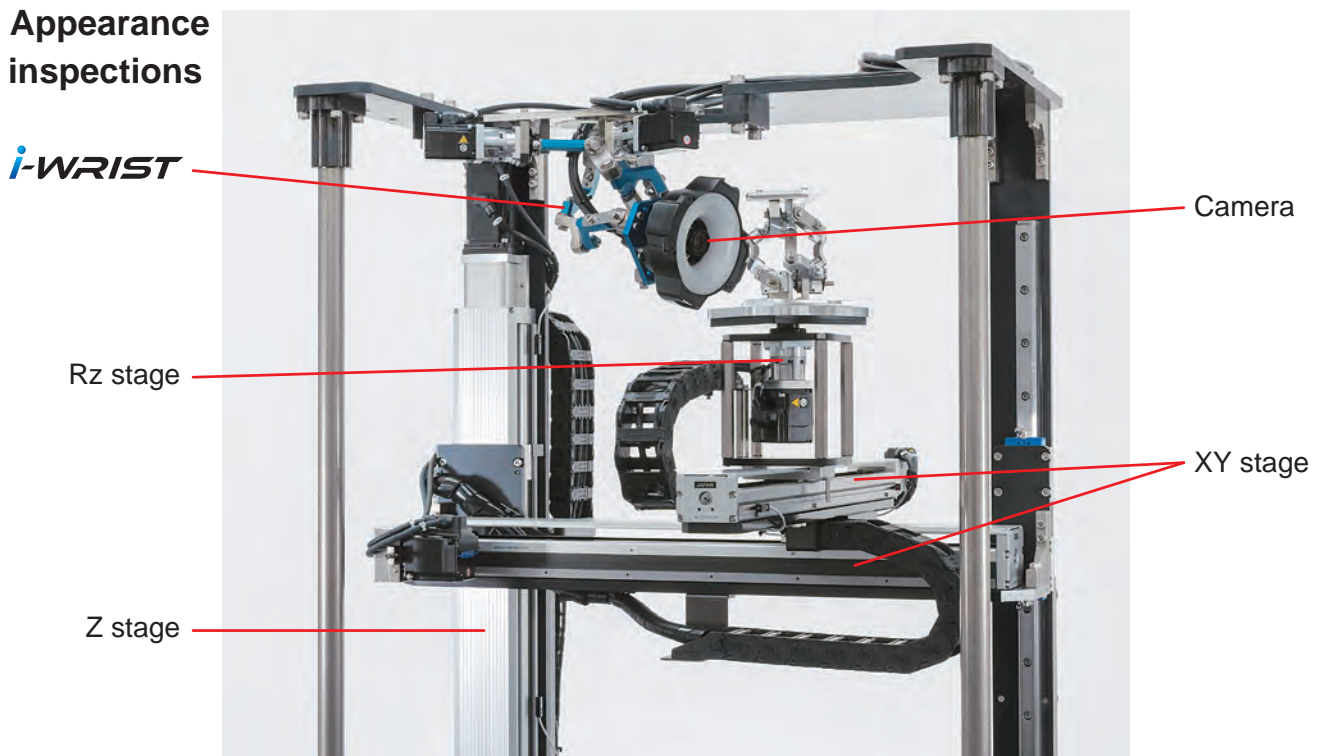


Example of applications

■ Liquid dispensing (grease, adhesive)



■ Appearance inspections



- Appearance inspections at more than 7 points per second is possible (depending on size of workpiece).
- Inspect an entire hemispherical surface with a single camera.
- Cooperative control of compact layout combined with XYZRz stage.

■ Other applications: welding, coating, cleaning, assembly, etc.

