

## FINE CYCLO<sup>®</sup> High Precision Gearboxes DA Series

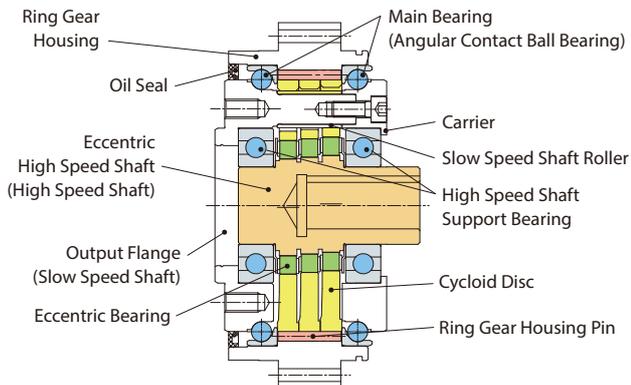


**Small frame size DA10 newly launched!**

Industry-leading torque performance/moment rigidity  
Best for small robots/machining tools

### Structure, Features

Mounting is simple as the high speed shaft is supported with bearings. Shorter total length as the motor shaft is integrated inside the reducer.

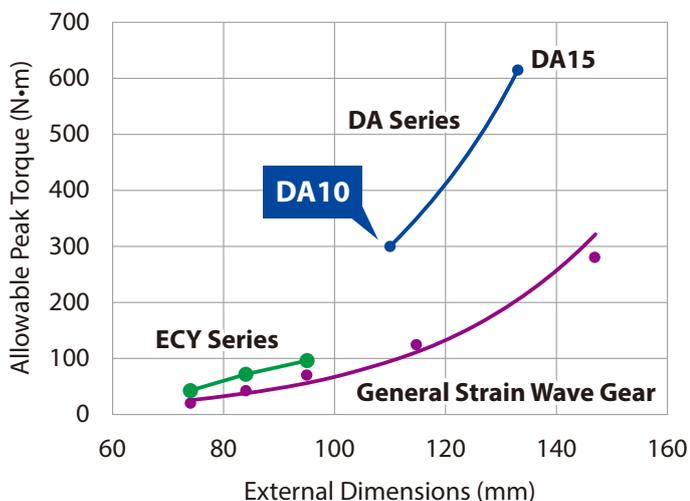


### DA Series Lineup

| Frame Size | Reduction Ratio |    |    |    |     |
|------------|-----------------|----|----|----|-----|
|            | 29              | 41 | 59 | 89 | 119 |
| DA10       |                 | ●  | ●  | ●  |     |
| DA15       |                 | ●  | ●  | ●  | ●   |
| DA25       | ●               | ●  | ●  | ●  | ●   |
| DA35       | ●               | ●  | ●  | ●  | ●   |
| DA40       |                 | ●  | ●  | ●  | ●   |
| DA45       | ●               | ●  | ●  | ●  | ●   |
| DA50       |                 | ●  | ●  | ●  | ●   |

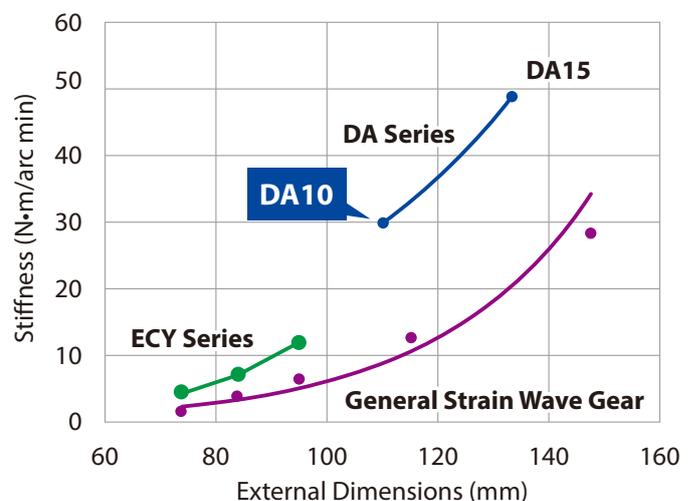
### High Torque

The frame size of DA10 is a new one between frame size DA15 and our E CYCLO High Precision Gearboxes ECY Series. It can correspond to the additional torque range.



It has high torque compared to that of a general wave gear (equivalent size), contributing to make the device more compact.

### High Rigidity



The torsional stiffness is larger than that of a general strain wave gear (equivalent size). Thus it can increase the device's strength and reduce vibration, etc.

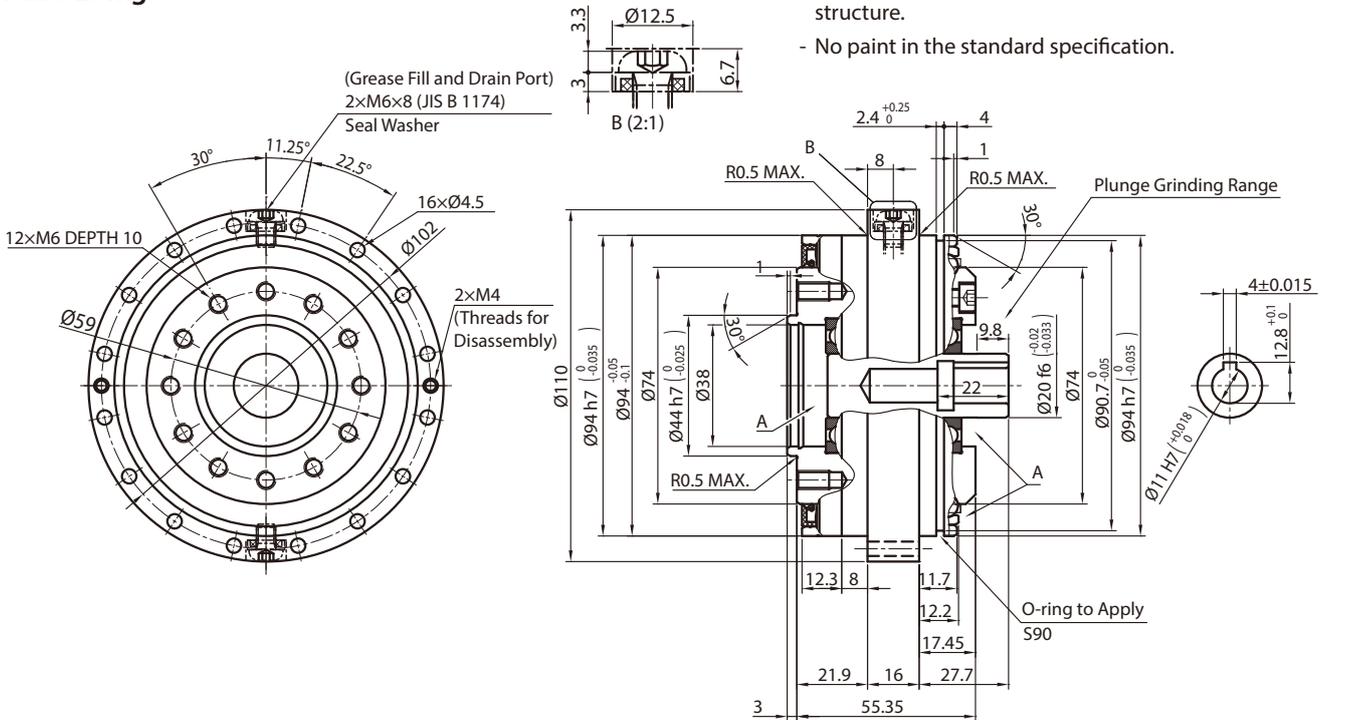
## Rating

| Frame Size | Reduction Ratio | Rated Output Torque <sup>Note: 1</sup> | Allowable Peak Torque <sup>Note: 2</sup><br>at Acceleration<br>and Deceleration | Allowable moment | Lost motion <sup>Note: 3</sup> |
|------------|-----------------|--|---|------------------|--------------------------------|
|            |                 | N·m                                    | N·m   | N·m              | arc min                        |
| DA10       | 41              | 99                                     | 300   | 450              | 1.0                            |
|            | 59              | 99                                     | 300   | 450              | 1.0                            |
|            | 89              | 99                                     | 300   | 450              | 1.0                            |

- Note: 1. The rated torque indicates the allowable output torque at the output ange at an input speed of 2000 r/min.  
 2. This is the peak torque allowed during normal acceleration and deceleration.  
 3. This is torsion angle (representative value) under the load of the rated torque  $\times \pm 3\%$ .  
 4. Please inquire us for specications other than the above.

## Outline Drawing

Mass 2.4kg



Specifications, dimensions, and other items are subject to change without prior notice.