



Harmonic Drive LLC | 247 Lynnfield St. Peabody, MA 01960 | 800-921-3332
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FB-25-100-2-GR



Series	Size	Ratio	Type
FB	25	100	2-GR

FB component set consists of four elements:

- Wave generator, an elliptical bearing assembly
- Flexspline, a non-rigid ring with external teeth
- Circular Spline, rigid internal gear
- Dynamic Spline, rigid internal gear

How it works

Rotation of the Wave Generator imparts a rotating elliptical shape to the Flexspline causing progressive engagement of its external teeth with the internal teeth of the Circular Spline and the Dynamic Spline. The fixed Circular Spline has two more teeth than the Flexspline, thereby imparting relative rotation to the Flexspline at a reduction ratio corresponding to the difference in the number of teeth. With the same number of teeth, the Dynamic Spline rotates with and at the same speed as the Flexspline.

Gear Model Number	FB-25-100-2-GR
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Gear Performance Data		
Rated Torque L10	39	Nm
Limit for Average Torque	52	Nm
Limit for Repeated Peak Torque	52	Nm
Limit for Momentary Peak Torque	91	Nm

Gear Performance Data

Backdriving Torque		Nm
Ave. Input Speed	2,500	rpm
Gear Backlash	< 3	arc min
Mass	0.5	kg