



## ORC Light Clutch Series



The Ogura Racing Clutch Light Series redefines the concept of a reinforced clutch. The series has excellent shift-change and half-clutch control, combining performance with comfort and fun.

The Light Series is ideal for high performance street driving, and can be used for drift and circuit racing as well. It defies the myth that racing clutches are difficult to operate.

With a refined half-clutch feel, this clutch truly enhances driving fun.

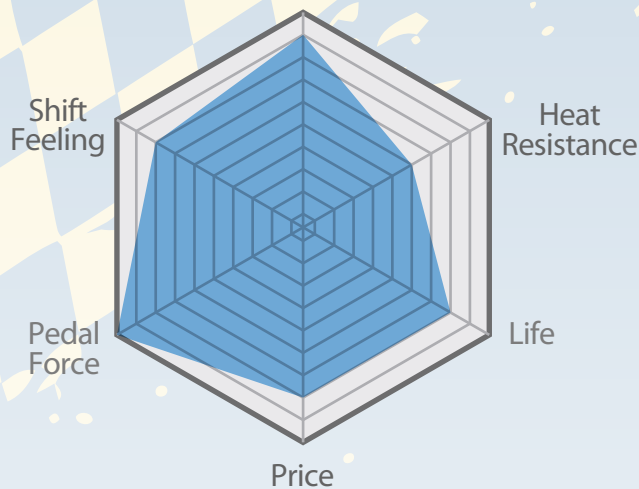
### Recommended Usage:

|         |   |   |   |   |   |
|---------|---|---|---|---|---|
| SPORT   | ★ | ★ | ★ | ★ | ☆ |
| DRIFT   | ★ | ★ | ☆ | ☆ | ☆ |
| CIRCUIT | ★ | ★ | ☆ | ☆ | ☆ |
| DRAG    | ☆ | ☆ | ☆ | ☆ | ☆ |



## Performance Radar Chart

Half-clutch



## Series Lineup

|              |                            |
|--------------|----------------------------|
| ORC 250Light | Light Clutch - Single Disc |
| ORC 400Light | Light Clutch - Single Disc |

CLUTCH COVER: Standard (STD) cover and high pressure bonding (HP) cover are available. You can choose the required torque and pedal force.

## Compatible Torque and Pedal Force

| Model        | Torque lb-ft (Nm) | Pedal Force lbf (kgf) |
|--------------|-------------------|-----------------------|
| 250Light-STD | 181 (245)         | 26.5-33.1 (12-15)     |
| 250Light-HP  | 231 (313)         | 37.5-41.9 (17-19)     |
| 400Light-STD | 288 (390)         | 24.3-33.1 (11-15)     |
| 400Light-HP  | 361 (490)         | 28.7-39.7 (13-18)     |

When using the standard cover, the clutch pedal force is close to that of the stock clutch, reducing fatigue.

The clutch pedal force of the stock clutch is about 26.5 lbf (12 kgf).

When using the high pressure cover, the pedal force is set to about 30% higher than the stock pedal force. On average, the other ORC series clutches are set the same way. Other companies' general reinforced clutches have the same pedal force as when using the high pressure HP cover.

- Quiet design:** Due to the pull-type actuation (strap drive system) method, no sound is generated when the clutch is disengaged.
- Low cost for overhaul and specification changes:** You can replace just the pressure plate to reduce the number of replacement parts during overhaul. \* For replacement, a special jig is required, so please send it to the factory.
- Disc:** The clutch disengages smoothly and the shifting is light and feels good. For nimble shifting, you need a lightweight clutch disc. ORC LIGHT discs were developed with an emphasis on weight reduction.
- Newly designed disc with organic friction material:** We have adopted an organic friction material used in the standard clutch disc. As evidenced by the stock clutch, organic friction materials are characterized by excellent ease of driving.
- Cushioning mechanism:** Cushioning is provided between the friction materials to increase the handling of the half-clutch and achieve a soft feel. The organic friction material and cushioning effect reduce the impact torque during shifting. As a result, it became possible to eliminate the damper part, and the weight of the disc was reduced.
- Lightweight flywheel:** The engine response is quick and the feeling is smooth.
- Easy to drive:** The combination of a lightweight flywheel and a lightweight clutch cover reduces the weight of the entire clutch by about 20%~40% (excluding some parts) compared to stock parts. Further weight reduction is possible, but excessive weight reduction can cause idling to become very unstable or the engine to stop suddenly, so this is suppressed. Since the flywheel will be at high revs, it must have excellent strength and balance. In addition, since it is used under harsh conditions, too much weight reduction carries the risk of bursting. For this reason, ORC has increased the burst strength through highly accurate calculations based on computer analysis and appropriate material selection.
- Optional pull-type operation:** ORC also offers a pull-type operation method for some models. It achieves a light pedal force and high torque transmission similar to that of the stock product, and improves sharpness.

