External dimensions

加工用ピン穴
FOR MACHINING

27-M16 深さ30
27-M16 DEPTH30

12° 12°
11° 18° 18° 11°
13° 13°

P.C.D.326

120° 120°

P.C.D.274

P.C.D.175

8-M6 深さ15
8-M6 DEPTH15

R135

P.C.D.225

30°

45°

R(PT)1/8プラグ/PULG
(給排脂ポート/FOR LUBRICANT)

22.5°

2-Ø8H8 +0.022 0 深さ10
2-Ø8H8 +0.022 0 DEPTH10

---

(327)
194 133
117.5
97.5
85
8 8
A

2-R(PT)1/8プラグ/PULG
(給排脂ポート/FOR LUBRICANT)

42.5

(Ø545h7 範囲)
(Ø545h7 EXTENT)
(Ø545h7 範囲)
(Ø545h7 EXTENT)

Ø545h7 -0 -0.070
Ø490
Ø390h7 -0 -0.057
Ø195
Ø140
21
306
R5
20
30°
Ø132
Ø540
Ø545h7 -0 -0.070
Ø610
B

2
14.3
22.5
334 (64)
(398)
Ø104H7 +0.035 0

18-M16 深さ28
18-M16 DEPTH 28
(裏表/FRONT AND BACK)

18-Ø17.5 通し
18-Ø17.5 THRU

3-R(PT)1/8プラグ/PULG
(給排脂ポート/FOR LUBRICANT)

8-M6 深さ11
8-M6 DEPTH11

10°
20° 10° 20°

P.C.D.500
P.C.D.580

2-Ø8H8 +0.022 0 深さ10
2-Ø8H8 +0.022 0 DEPTH10

22.5°

R100

45°

P.C.D.175

10° 10° 10° 10° 10°

22-M20 深さ35
22-M20 DEPTH35

180
180
95

A A

4-M12 深さ22
4-M12 DEPTH22

P.C.D.140

(□180)
60° 60°
180 180
215 215
240

矢視B/VIEW B

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MS JAB CM009
ISO 14001 JQA-EM7212
ISO 9001 JQA-1190
ISO 45001 JQA-OH0278

RV®
Precision Reduction Gear RV™

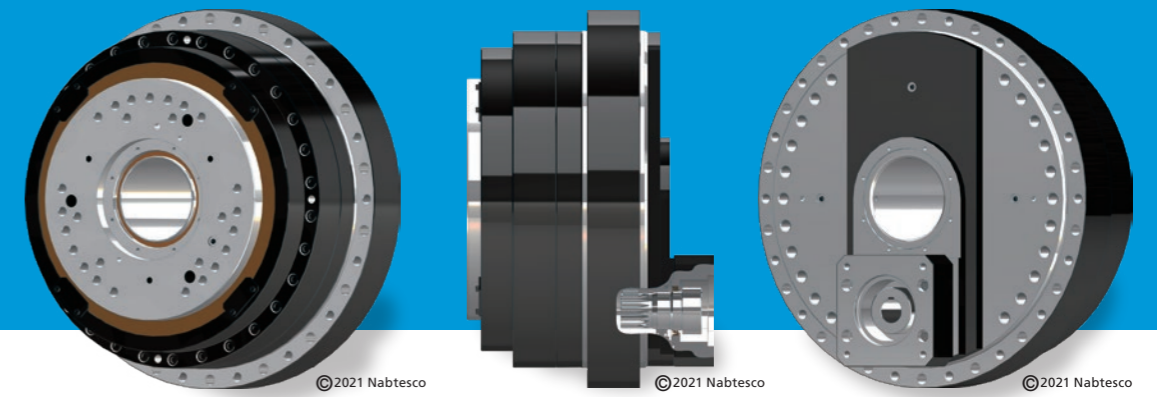### Gearhead

RH-900C

New

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All new large hollow gearhead with high torque and high moment
Suitable for devices supported with one/both hands plus table units
Fits equipment perfectly to create a compact profile

Nabtesco®

RH-900C

Features

- **Delivers high torque from compact body**
  This new gear supports class-maximum loads of up to 12 tons with a profile of just 398 mm, enabling major reductions in equipment widths.

- **High precision, rigidity, reliability**
  A maximum deviation of just 0.29 mm is maintained at a point one meter from the axis of rotation (backlash of 1.0 arc.min.).

- **Preset with three standard types of reduction ratio**
  The gear comes preconfigured with the following three reduction ratios: 186, 258, 330.

- **Designed with large hollow diameter for easier routing of pipes and cables**
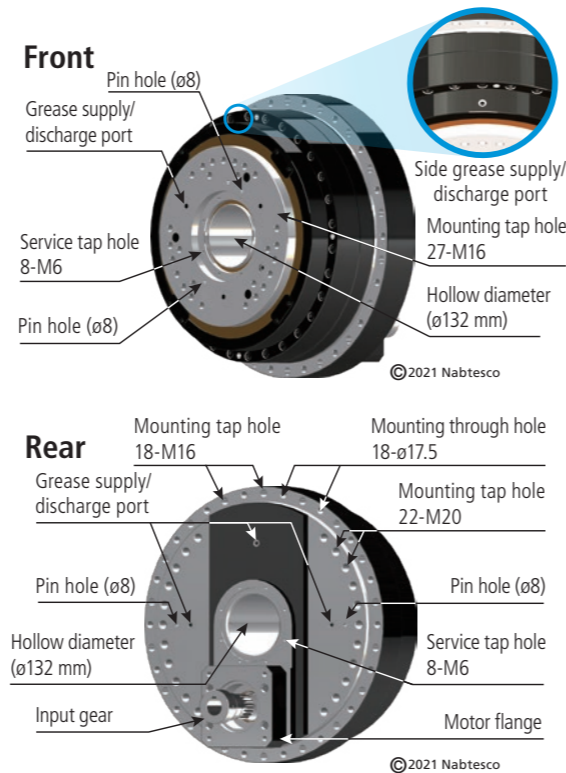 Hollow diameter (ø132 mm)

- **Equipped with various mounting options for simpler system designing**
  Both tap and through holes are available for mounting. Service tap and pin holes are also provided.

- **Comes pre-filled with grease and is designed for easy replacement**
  A grease supply/discharge port is located on each of the side, rear, and front.

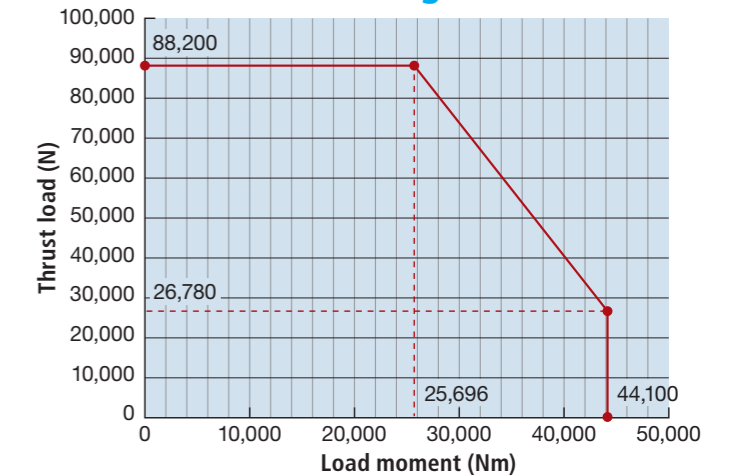- **Can be used with external shaft motors of robots from various manufacturers**

Application

Suitable for long and large BBQ equipment that creates extremely high loads

Suitable for cantilever BBQ equipment for high loads

Suitable for construction of large index tables with ultra-low floors

Suitable for mold reversing equipment

Front

Pin hole (ø8)
Grease supply/discharge port
Service tap hole 8-M6
Pin hole (ø8)
Side grease supply/discharge port
Mounting tap hole 27-M16
Hollow diameter (ø132 mm)

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Rear

Mounting tap hole 18-M16
Mounting through hole 18-ø17.5
Grease supply/discharge port
Mounting tap hole 22-M20
Pin hole (ø8)
Pin hole (ø8)
Hollow diameter (ø132 mm)
Service tap hole 8-M6
Input gear
Motor flange

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Specifications

Model	RH-900C
Speed ratio	186, 258, 330
Rated torque	8,820 Nm
Allowable acceleration/deceleration torque	22,050 Nm
Momentary maximum allowable torque	44,100 Nm
Rated output speed	15 rpm
Allowable output speed*1	15 rpm
Allowable moment	44,100 Nm
Momentary maximum allowable moment	88,200 Nm
Allowable thrust load	88,200 N
Backlash/Lost motion	1.0 arc.min.
Operating range	Endless
Weight*2	410 kg

*1. The allowable output speed may vary depending on the duty ratio, load, and ambient temperature.
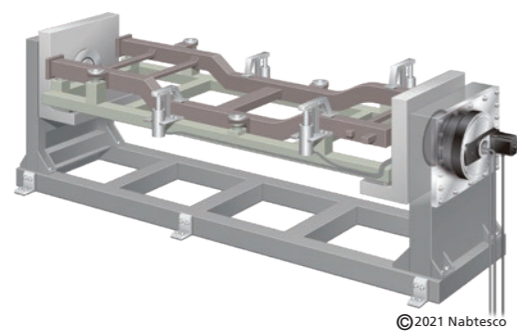
*2. The weight does not include the weights of the motor flange and input gear.
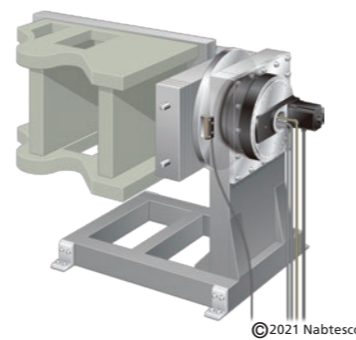
Allowable moment diagram

Note: When the load moment and the axial load are applied concurrently, ensure that the reduction gear is used within the corresponding allowable moment range, which is indicated in the allowable moment diagram.
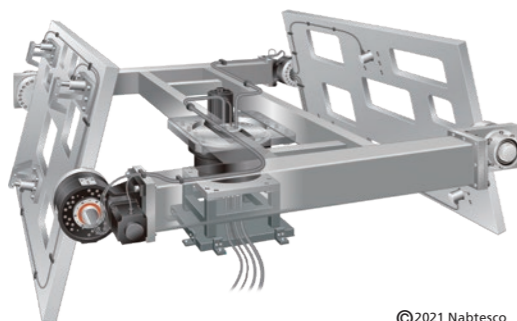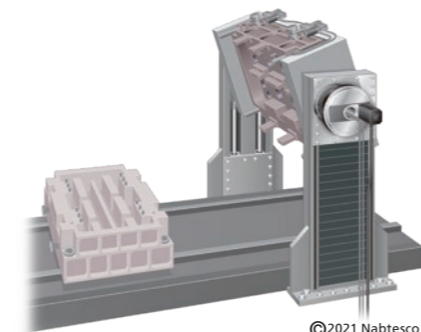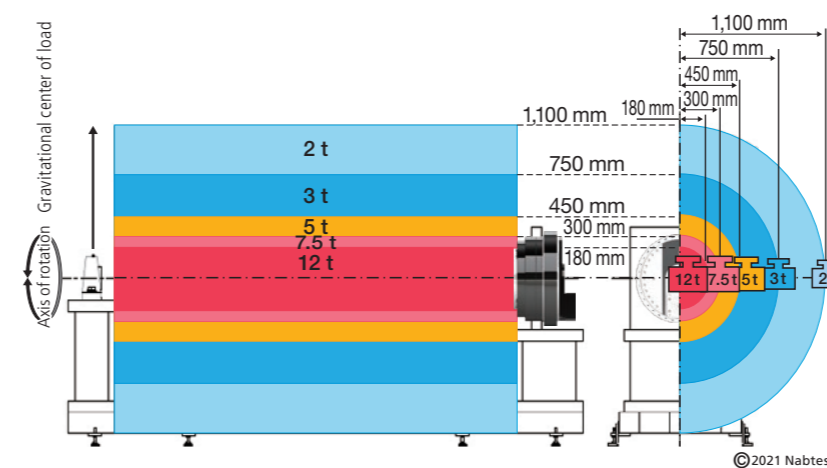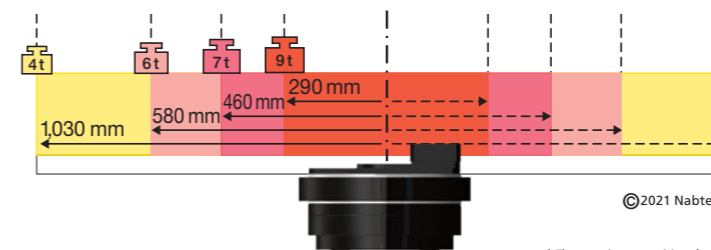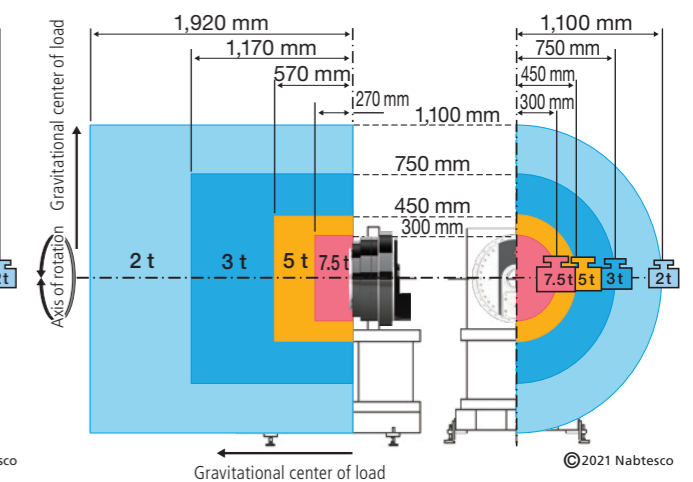
Carrying Capacity Based on Gravitational Center of Each Load

Supported with both hands

Supported with single hand

* The carrying capacities shown in this brochure are reference values only. The performance is not guaranteed.