

Product

PR2:



PDU2:



PSM2:



No. 1 Position

Modular electric rotary module/ drive with integrated electronics with a high compact performance.

Product Features

Unique Selling Points:

- ✓ Unique concept: Modular robotics (axes, rotary units, grippers)
- ✓ High compact performance
- ✓ Harmonic Drive gear with three gear reduction stages per module size (PR2/PDU2)

Further product features:

- ✓ Parameterization and setup software MTS
- ✓ Standard connection elements and universal control concept
- ✓ Fieldbus: Profibus or CAN-Bus, 2 digital inputs
- ✓ Service interface: USB host, USB device
- ✓ Status indication via 4 LEDs
- ✓ Brushless DC servo motor
- ✓ Complete electronic system is integrated
=> adjustability of position, speed, and torque
- ✓ Incremental encoder
- ✓ Integrated holding brake

Cost Effectiveness/ Customer Benefits

- ✓ Integration of the control and power electronics saves additional external controller and additional cabling
- ✓ Industrial plug-in technology for user-friendly installation
- ✓ Standard components for the implementation of any application
- ✓ Comfortable firmware updates via USB stick
- ✓ Rotary encoding switch for easy and manual address setting directly at the module
- ✓ Instead of stopping in difficult adjustable hydraulic dampers, which also have an intensive maintenance effort, the position is actively controlled.
- ✓ Swivel angle > 360° for different applications
- ✓ High torques for heavy payloads
- ✓ Due to the integration of the control and power electronics, no additional, external controllers and cabling effort is necessary
- ✓ Industrial plug-in technology for a user-friendly assembly

Technical Data/ Functions

Technical Data: PR2

Sizes:	70 / 90 / 110
Peak torque:	16 - 184 Nm
Angular velocity:	150 – 468 °/s
Max. admissible mass moment of inertia:	0,14 - 9,5 kgm ²
Repeat accuracy:	0,03- 0,08 mm
Dead weight:	2,0 - 5,9 kg
Protection class:	IP40
Operating voltage:	24 V DC

Complementary products:

- ✓ Standard connection element PAM
- ✓ Servo electric 2-finger gripper PG

Questions about the product? Your contact person for Gripping Systems is S. Höpfl (+49-7133-103-2426)

K:\DATEN\TV-GREIF\VERKAUFSLEITUNG\DATEN\PRODUKTSPEZIFISCH\KOMponenten\EGA\07_VERTRIEB_MARKETING\KIB_Kerninfoblatt_EGA_15062012.docx 1.Seit

Technical Data/Functions

Technical Data: PDU 2

Sizes:	70 / 90 / 110
Gear ratio:	51 / 101 / 161
Peak torque:	16 - 184 Nm
Max. speed:	25 - 78 min ⁻¹
Repeat accuracy:	0,03- 0,08 °
Dead weight:	1,9 - 5,8 kg
Protection class:	IP40
Operating voltage:	24 V DC

Complementary Products:

- ✓ Standard connection elements PAM
- ✓ Linear axes (Alpha, Beta, etc.)

Industries and Application

PR 2 / PDU 2 / PSM 2 particularly convince in the following industries

Cross-industry, for demanding automation solutions, where the highest degree of position flexibility, and high torques (PR2/PDU2), or speeds (PSM2) and low cycle times are required.

- ✓ Medical technology
- ✓ Biotechnology
- ✓ Electronic industry
- ✓ Handhabung & Montagetechnik
- ✓ Pharmaceutical industry
- ✓ Machine & plant building
- ✓ Automation

Applications:

- ✓ Gripping/ rotary units for loading and unloading of different, sensitive workpieces (PR2)
- ✓ Gantry systems combined with linear axes (PDU2/PSM2)

Additional Information

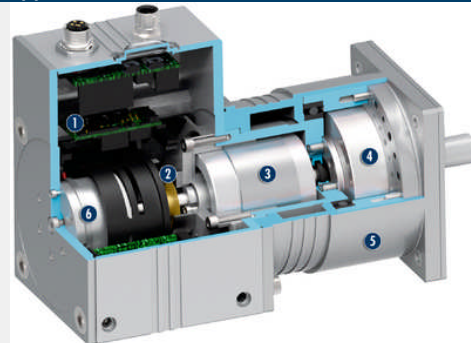
Technical Data: PSM 2

Sizes:	70 / 90 / 110
Peak torque:	0,45 - 1,8 Nm
Max. speed:	1.570 - 4.320 min ⁻¹
Repeat accuracy:	0,2 °
Dead weight:	1,8 - 4,2 kg
Protection class:	IP40
Operating voltage:	24 V DC

Complementary Products:

- ✓ Standard connection elements PAM
- ✓ Linear axes (Alpha, Beta, etc.)

Applications



PR 2 – Cross sectional view:

1. Elektronik
2. Encoder
3. Brushless DC Motor
4. HarmonicDrive-transmission
5. Holding brake



Questions about the produkt? Your contact person for Gripping Systems is S. Höpfl (+49-7133-103-2426)

K:\DATEN\TV-GREIF\VERKAUFSLEITUNG\DATEN\PRODUKTSPEZIFISCH\KOMPONENTEN\EGA\07_VERTRIEB_MARKETING\KIB_Kerninfoblatt_EGA_15062012.docx 2.Seit