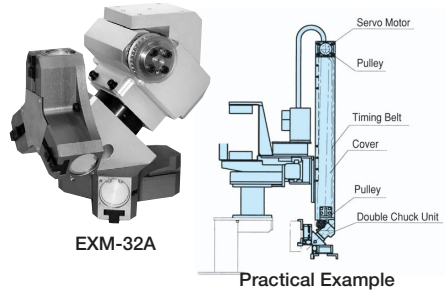


EXM Series Motor Swivel Double Chuck

Swivel Double Gripper Powered By Servo Motor

Key Features

- Swivel time 0.6 sec.**
 Impact and vibration generated during high-speed swivel can be controlled by servo motor. Significant reduction in cycle time.
- Resistant to harsh environment**
 Coolant does not affect the operation of this chuck since motor is mounted on the top of the arm
- Adjustable clearance**
 Easy maintenance via rattle adjustment function of rotation shaft
- Flexible line structure (motor and timing belt are supplied by customer)**
 Pulleys for timing belt come as standard.



How To Order

Standard ----- **EXM-32A** Chuck (3-Jaw Gripper)

Option ----- **EXM - 32 A - ET3 S2 - Z**

Size
Symbol
32

Chuck (3-Jaw Gripper)	
Symbol	Name
A	CKS

Sensor	
Symbol	Name
ET3	Non-Contact 3-Lead
ET3L	Non-Contact 3-Lead
ET2	Non-Contact 2-Lead
ET2L	Non-Contact 2-Lead

Quantity	
Symbol	Name
S1	1 Sensor
S2	2 Sensors
S3	3 Sensors
S4	4 Sensors

Option	
Symbol	Name
Z	Special Type (Custom)

Specification

Model		EXM-32A
Working Pressure	Swivel	Servo Motor (selected and prepared by customer)
	Chuck (3-Jaw Gripper)	Pneumatic: 0.2 to 0.7MPa
Lubrication	Swivel	Extreme Pressure Additive Lubrication Oil (ISOVG150)
	Chuck (3-Jaw Gripper)	Not required or Turbine Oil Class 1 (ISOVG32)
Ambient Temperature (°C)		5 to 60
Swivel Time		0.6 sec. or more / 180°
Applicable Workpiece Mass (kg)		5
Applicable Chuck Model		CKS-32AS
Total Jaw Stroke (mm)		32
Grip Force (P=0.5MPa)		900N
Repeatability	Swivel	±0.05 (Chuck End-Surface)
	Chuck (3-Jaw Gripper)	±0.01
Weight (kg)		8.3

Selection criteria for servo motor

Swivel Shaft Reduction Ratio	40:1									
Kinetic Energy Capacity (J)	2.5									
Rotation Speed of Pulley (rpm)	300	600	900	1200	1500	1800	2100	2400	2700	3000
Swivel Torque Capacity (N·m)	51.4	43.6	38.5	34.9	31.6	30.7	28.4	26.8	25.6	25
Swivel Torque Transmission Rate (%)	46	52	55	59	60.2	61.1	61.9	62.3	63.2	64.7

Example of use

Work Weight 4kg, 50mm External Fingers, 0.6 sec. Swivel Time requires 400W servo motor (Motor Model: MSM042P1 A made by Panasonic)

*Total workpiece weight changes by jaw length.
Please consider to select a chuck based on its grip force

Layout Drawing

For CAD data, please go to **▶518P**

EXM-32A (Optimal Grip Force 400N to 1000N)

EXM-32A Standard

