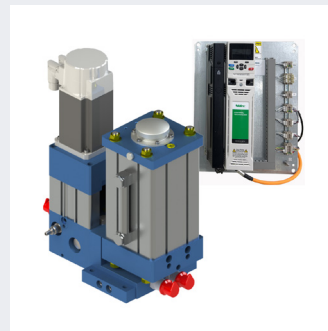


UPGRADE YOUR HPU WITH AN ENERGY EFFICIENT COMPACT SERVO POWER UNIT (SPU) FROM KYNTRONICS.

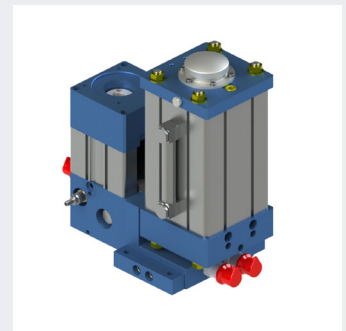
Available as a Total Solution Complete with Power Unit, Motor, Controls, Cables, and Factory Assistance or as an SPU Only Solution that Connects to the Motor and Drive of Your Choice.

KEY ADVANTAGES

- Electric Solution - energy efficient using power-on-demand
- Optional Sealed Design - eliminates fluid changes and reduces maintenance
- Compact and Flexible - can be located close to cylinders or remotely for washdown applications
- Servo Performance - provides precision control of position, force and speed
- Quiet Operation
- Simple Machine Integration - plug-and-play
- Robust Quick-Connect Fittings - reducing the risk of leaks



COMPACT SPU TOTAL SOLUTION



COMPACT SPU ONLY



**Energy
Efficient**



**Shock Load
Tolerant**



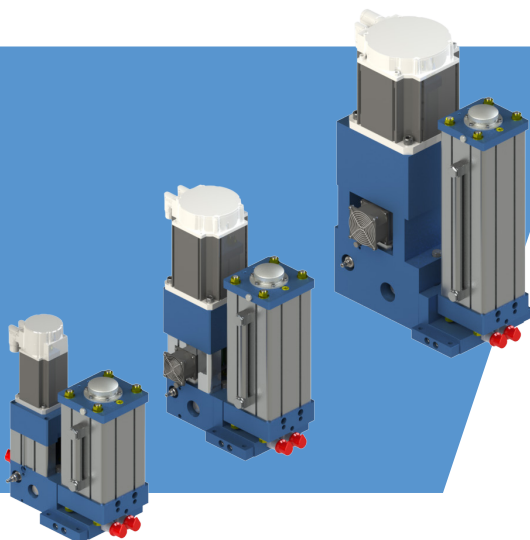
**No Metal-to-
Metal Wear**



**Environmentally
Friendly**



**Minimal
Maintenance**



KEY FEATURES

- Modular Design – Multiple size configurations
- Ideal for industrial and mobile applications

PRODUCT RANGE



Up to 3,000 PSI
(207 Bar)
Pressure



Up to 11.98 GPM
(45.35 LPM)
Flow Rate



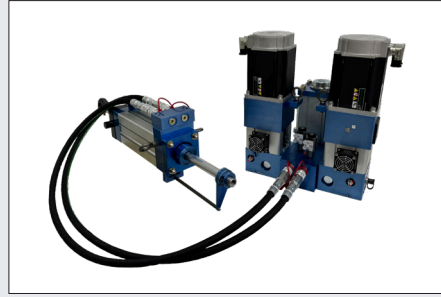
AC or DC
Current

COMPACT SERVO POWER UNIT (SPU) CONFIGURATIONS & APPLICATION EXAMPLES



TYPICAL SPU APPLICATION

Operating a cylinder or rotary actuator.



SPU DUAL UNIT

Higher flow - fast actuation.



SPU 10-AXIS SYSTEM

Fast extension and retraction times, redundancy and synchronization.



SPU - MUTI-CYLINDER OPERATION

Automate positioning of material platform.



MOBILE APPLICATION - BOOM POSITIONER

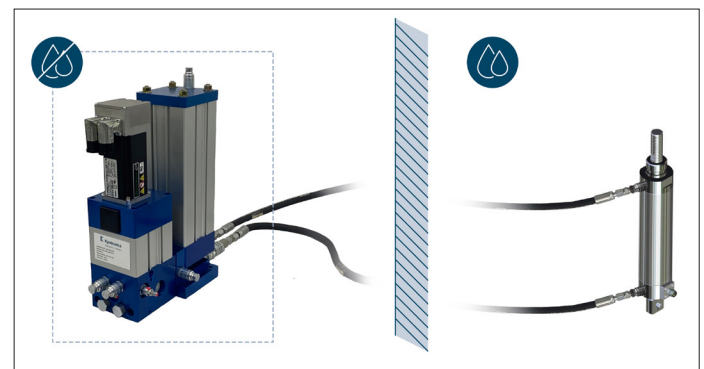
Integrated the existing customer cylinder and position feedback device.

SPU FOR WASHDOWN OR HAZARDOUS ENVIRONMENTS

Servo Power Units (SPU) are an ideal solution for 'washdown' or hazardous applications.

KYNTRONICS SOLUTION

- The SPU connects to a stainless steel or IP rated cylinder located in the washdown area using short hoses or tubing.
- The SPU is located away from the washdown area or can be contained in a washdown enclosure.
- Electric solution that uses power-on-demand.
- Total solution with drive, motor and power unit.
- Standard fluid, food grade fluid & fire resistant fluid is available.



CUSTOMER BENEFIT

- Washdown - optional IP69k
- Reliable, no metal-to-metal wear
- Precise control
- Simple integration

COMPACT SERVO POWER UNIT TOTAL SOLUTION PACKAGE

DESIGN FEATURES AND OPTIONS

- AC and DC power.
- Power-on-demand.
- Precise servo control of position, force, and speed.
- Dynamic braking for smooth control of over-riding loads.
- Smooth control eliminates abrupt flow changes and stress on hoses and connections.
- Works with most any double-acting linear cylinder or rotary actuator.
- Standard or high-resolution position sensor.
- Pressure sensor for force measurement and control.
- IP67, IP68, IP69k packaging.

TOTAL SOLUTION PACKAGE

COMPLETE WITH SERVO POWER UNIT, MOTOR, CONTROLS, CABLES, AND FACTORY ASSISTANCE

Our 'Total Solution' controls package includes an array of hardware options and comprehensive software capabilities that make it easy to implement various control modes, control processes with "pass/fail" determinations, log data for analysis and interface with common fieldbus options.



Single Drive on Panel / Backplate



Single Drive Enclosure

TOTAL SOLUTION – CONNECTIVITY

Connects with most any PLC / Controller



ETHERNET IP INTERFACE

- Implicit Messages
- Explicit Messages

FIELDBUS OPTIONS

- CANopen
- Ethernet TCP/IP
- Ethernet IP
- EtherCAT
- Modbus TCP
- Modbus RTU
- Profinet
- Analog/Digital
- Other – Consult Factory

POSITION FEEDBACK

- 0-10Vdc or SSI

FORCE FEEDBACK (PSI)

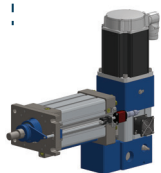
- 0-10Vdc

SOLENOID LOCKING

- 24Vdc

STO

- Single or Dual



HMI PACKAGE



- Diagnostics
- Setup
- Tuning
- Indexing & Sequencing setup (16 indexes)
- Jogging / Start / Stop Operation
- Quality Signature Checks – (go-no go)
- Data Logging to USB

ROCKWELL AUTOMATION CONTROL OPTION



- AOI for easy setup & control
- Simple integration with Kinetix Drives
- Standard AB motor mounting
- Sample programs

PRODUCT SPECIFICATIONS



REMOTE SUPPORT

From project development,
through installation and beyond.

COMPACT SERVO POWER UNITS (SPU)

Model	Manifold Size	Maximum Pressure PSI (bar)	Maximum Flow GPM (LPM)	**Required Torque (Nm)
SPU02	Small	3000 (207)	0.17 (0.64)	1.09
SPU05	Small	3000 (207)	0.40 (1.51)	2.55
SPU07	Small	3000 (207)	0.66 (2.50)	4.19
SPU11	Small	3000 (207)	1.06 (4.01)	6.75
SPU13	Small	2598 (179)	1.63 (6.17)	10.39
SPU21	Medium	3000 (207)	1.85 (7.00)	11.85
SPU23	Medium	3000 (207)	2.23 (8.44)	14.22
SPU27	Medium	3000 (207)	2.97 (11.24)	18.96
SPU31	Medium	3000 (207)	4.17 (15.79)	26.66
SPU34	Medium	3000 (207)	5.38 (20.37)	34.37
SPU36	Medium	2531 (175)	7.05 (26.69)	38.00

NOTES:

- * Not offered as a Total Solution - customer supplied motor & drive configuration only.
- ** Torque Information for customer-supplied motor & drive instances.
- Consult factory as needed for additional models.
- For additional information on the operational performance of Servo Power Units, email sales@kyntronics.com to discuss your application with an engineer.

Servo Power Unit Product Specifications - Requires Customer-Supplied Motor & Drive

*SPU45	Large	3000 (207)	5.99 (22.67)	38.29
*SPU47	Large	3000 (207)	7.70 (29.15)	49.23
*SPU49	Large	3000 (207)	10.27 (38.88)	65.63
*SPU51	Large	3000 (207)	11.98 (45.35)	76.60

CALCULATE YOUR PROJECT ROI

Kyntronics Hybrid Actuators and Compact
Servo Power Units Reduce Cost of Ownership

SCAN TO
LEARN MORE.



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ABOUT KYNTRONICS

Established in 2013, Kyntronics specializes in designing and manufacturing advanced actuators and actuation systems to meet the growing demands of automation, precision, and sustainability. Headquartered in the USA, we are committed to delivering innovative actuation solutions that combine mechanics, electronics and software with world-class support. Ready to transform your motion control system? Contact our team today at sales@kyntronics.com to learn how Kyntronics can help you achieve precision, efficiency, and reliability in your next project!

SCAN TO
LEARN MORE.

