

Plug & Produce with the Smart Press Kit

With the Smart Press Kit, Bosch Rexroth delivers a ready-to-use system of proven Rexroth components for joining processes, including an easy, web-based software solution.



Electromechanical Cylinder - EMC

Configurable strokes
up to 400 mm

Parallel or in-line
motor attachment

Force Sensor

Integrated force
measurement

Servo Motor MS2N

Latest generation of
motors with absolute
encoder and brake

Servo Drive IndraDrive HCS01

Integrated PLC,
IndraMotion MLD,
and safety function STO

Industrial PC PR21

With integrated
web server and
data collection

The Smart Press Kit
consists of perfectly
matching hardware and
software components.
It can be used either as
a standalone solution or
integrated in higher level
systems via fieldbus.

I4.0 Ready

Connection via OPC-UA

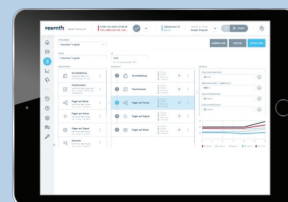
Data access via ReST
programming interface

Fieldbus Connection

To higher level
control system

Software

Web-based HMI,
intuitive, drag and
drop programming,
create analytics



*The screen is an optional add-on
and not included in the kit*



Technical Information

Size	SPK 002	SPK 004	SPK 007	SPK 012	SPK 019	SPK 030
Stroke [mm]	35...400	40...400	65...400	80...400	70...400	90...400
Nominal force [lbs]	450	900	1580	2700	4270	6745
Max. force [lbs]	675	1350	2250	3370	4500	8990
Max. velocity [m/s]	0.38	0.32	0.55	0.5	0.37	0.5
Force sensor/measurement						
Measurement technology	Strain Gauge					
Measuring range [kN]	-0.3...+3	-0.6...+6	-1...+10	-1...+15	-1...+20	-1...+40
Sampling rate [Hz]	1000					
Resolution [bit]	14					
Accuracy (linearity) [% FS]	+/- 0.3					
Servo drive (with integrated motion control)						
Power supply [V]	1 x AC 110...230 3 x AC 110...230	1 x AC 110...230 3 x AC 110...230	3 x AC 200...500	3 x AC 200...500	3 x AC 200...500	3 x AC 200...500
Safety function acc. to EN 61800-5-2	Safe Torque Off (STO) ¹⁾					
Fieldbus interface	Profinet, Ethernet/IP, EtherCAT, Sercos III					
Software functions						
Max. numbers of programs	99					
Number of program steps per program	500					
Number of digital inputs/outputs	6 inputs + 1 output or 7 inputs					
Force measurements	Unlimited without resolution reduction					
Evaluation elements	Windows, envelopes, thresholds					
Ambient conditions						
Ambient temperature (operation) [°C]	0–50 °C (loss of performance at temperatures exceeding 40°C)					
IP protection class	Mechanics: Standard IP54 (up to IP65 possible) Control cabinet hardware: IP20					

¹⁾ Category 4, Performance Level e according to EN ISO 13849-1 and SIL 3 according to EN 62061

