

ENGINEERED TO MOVE



DIAKONT

DA99 Servo Actuator for Spot Welding

SPECIFICATION

SPOT WELDING

WWW.DIAKONTMOTION.COM



DA99 Technical specifications

Parameters	Units	DA99-W25	DA99-W212
Peak force	N	22 000	10 000
Max. speed	mm/sec	300	750
Stroke	mm	170 (option 240)	
Screw lead	mm/rev	5	12.5
Dynamic load rating	N	56 000	30 000
Basic dimensions	mm	99x99 (cross section), 362 (length)	99x99 (cross section), 362 (length)
Force repeatability	%	±3%	
Base weight	kg	12.2	
Protection level	N	IP65	
Ambience temperature range	°C	0 to +50°C	
Service life	—	25+ million weld cycles	
Maintenance	—	grease adding once in 15 million cycles	
Mounting	—	front flange / trunnions / side mounting	
Feedback sensor	—	depends on robot type: resolver or absolute encoder	
Voltage	—	230V or 400V	

DA99 Brake specifications

Parameters	Units	Value
Power	W	8.7 (for 24V), 8.5 (for 90V)
Holding Torque	N·m	1.5
Voltage	V _{dc}	24/90
Brake holding force	N	2350 (for screw lead 5 mm/rev) 1175 (for screw lead 10 mm/rev)

DA99 Robot Compatibility

Robot type	Robot controller supply voltage	Robot Controller model	Robot Control Software
ABB	400 VAC	IRC 5	Robot Ware, Robot Ware 6 Robot Studio
FANUC	230 VAC (40A or 80A drive)	R-30iA R-30iB R-30iB Plus	Manual tuning is available (<i>contact Diakont</i>) from V8.20P/43 from V9.10P/16
KUKA	400 VAC KSP/KPP 40A (for other voltages contact <i>Diakont</i>)	KR C4	KSS 8.3 and higher <i>Add-ons: Torque Control 4.1 and ServoGunBasic 1.0 / 3.0 / 3.1</i>
Yaskawa	230 VAC	YRC-1000 DX200	from YAS2.71.00A from DN2.08.00A
Kawasaki	230 VAC	E52G-A021, E42 (series E2X, E3X, E4X, E5X)	—
Comau	400 VAC	C5G C5G Plus	Motor file is available (<i>contact Diakont</i>) from 4.11.007
Nachi	230 VAC	FD11 controller with ROX xx2x drive (any ROX drive with third digit = "2")	—
Hyundai	230 VAC	Hi5a-S	—