

SU Series AGV

Modular AGV Subassemblies



Nidec SU Series are designed to provide wheel-drive assemblies for AGV's and mobile service robotics. Nidec has earned a solid reputation with the robotics sector as the leader in high volume, high precision, gearbox and motor technologies. Our deep partnerships and long history within the industry have given us extensive expertise at developing wheel-drive transmission assemblies.

Rated Voltages: 12Vdc – 60Vdc

Power: Standard 200W or 400W
(Higher Power Ratings available upon request)

Ratios: Standard 21:1 or 28:1

Warranty: One year limited warranty



Product Features

- Extremely compact, in-hub planetary design
- Bearing and internal structure ideal for industrial environments
- Absolute encoders and brakes can be added to the motor, per request
- Ancillary items for mounting the wheel drive, housing the control, or cable management are available

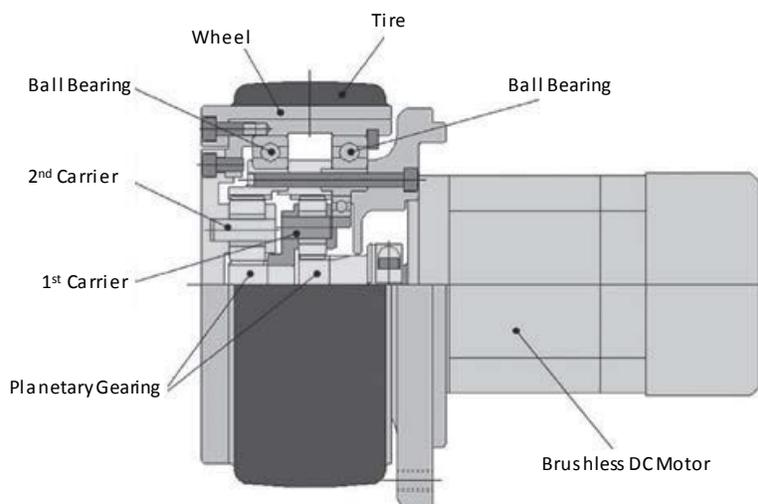
Product Overview and Options

The SU Series is designed to provide:

- Low rotor inertia
- Compact Size, in-hub planetary design
- Fast dynamic response
- High torque
- Options to meet your exact AGV requirements

Typical Applications:

- AGV
- Mobile service robotics

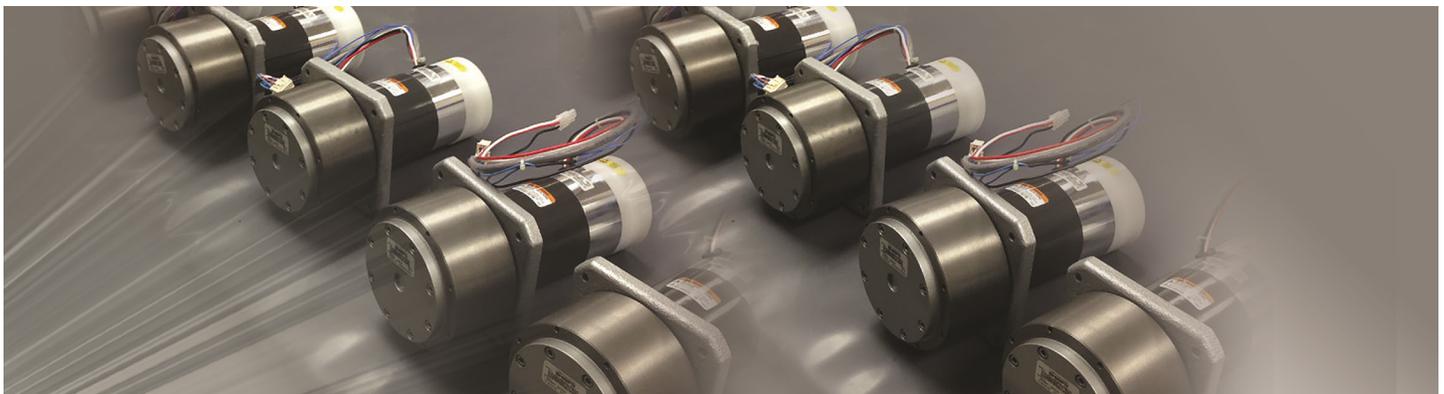
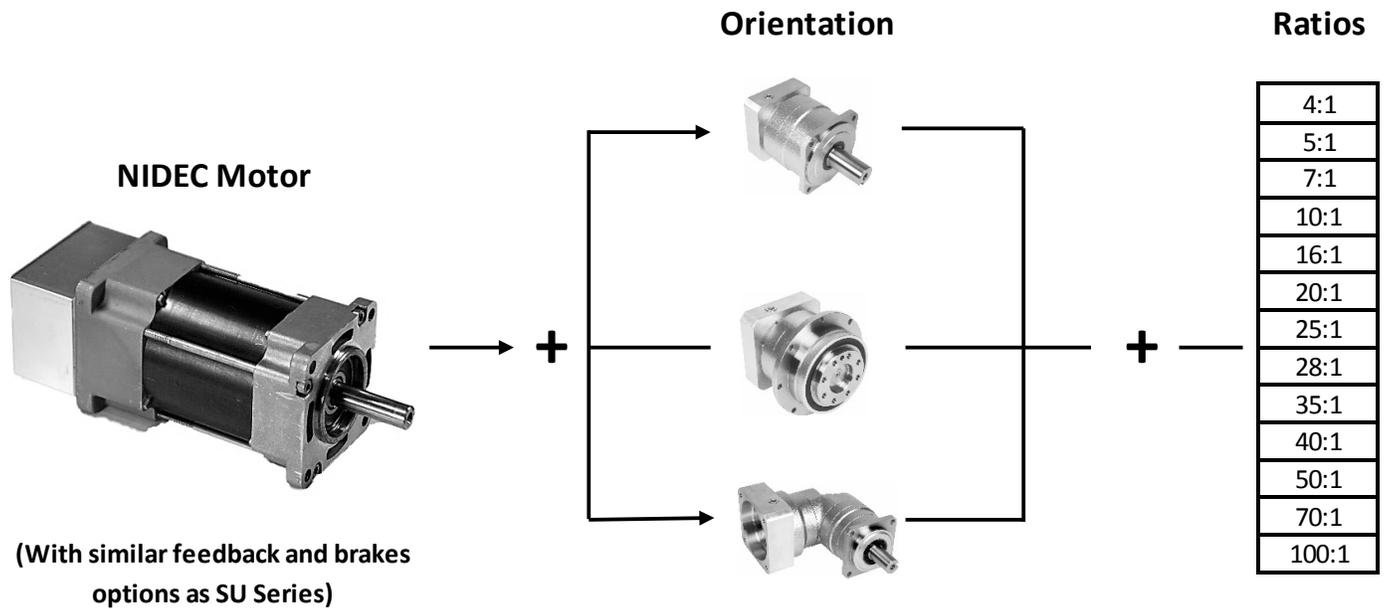


SU Drive Package Offering

SU AGV Drive Package Includes: Gear motor with Integral Wheel, BLDC Motor & Controller, with optional tire and braking mechanism

Series	Control Method	Operating Mode	Encoder	Thermistor	Rated Power	Input Voltage	Gear Ratio	Frame Size	Wheel	Brake								
SU	A	External Feedback	0	Standard	0	None	1	200 Watt	48	48 Volt	21	21:1	C	C-Frame	0	None	0	None
			1	100 ppr			2	400 Watt			28	28:1			1	Wheel	1	Brake (Normally Closed)
			2	250 ppr											2	Wheel 150 mm dia. Tire		
			3	400 ppr											3	Wheel 150 mm dia. Tire		
			4	1000 ppr														
			5	256 ppr / index														

Other Combinations



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