SMD GEARBOX

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BRILLIANTLY AGILE!

HIGH PRECISION SERVO GEARBOX

Automated Guided Vehicle Wheels – SWT

Model	Stage	Ratio	SWT118	SWT138	SWT160	SWT190
Rated Output Torque (NM)	1	2	75	100	135	360
		3	87	115	250	440
		4	93	120	230	520
		5	87	114	170	480
		7	69	90	105	400
		8	63	82	100	350
		9	63	82	100	320
	2	14	75	100	135	360
		16	75	100	135	360
		18	75	100	135	360
		20	75	100	135	360
		21	87	115	250	440
		24	87	115	250	440
		27	87	115	250	440
		28	93	120	230	520
		30	87	115	250	440
		32	93	120	230	520
		36	93	120	230	520
		40	93	120	230	520
Emergency Stop Torque (Nm)	1,2	2~40	2 times rated output torque			
Standard Servo Motor (Watt)	1,2	2~40	400~750	400~750	750~1000	1000~1500
Max Radail Force (N)	1,2	2~40	4000	8000	10000	12000
Bearing Weight Capcity (Kg)	1,2	2~40	400	800	1000	1200
Full loading Efficiency (%)	1	2~5	97			
	2	7~40	95			
Service lifetime (hra)	1,2	2~40	20,000			
Running Noise (dB(A))	1,2	2~40	58	60	63	65
Max Input Speed (min-1)	1,2	2~40	6000	6000	6000	6000
Rated input Speed (min-1)	1,2	2~40	3000	3000	3000	3000
Protection class	1,2	2~40	IP65			
Working Temperature ℃	1,2	2~40	(-25℃ TO 90℃)			
Standard Lubrication	1,2	2~40	Lifetime Synthetic Lubrication Grease			
Backlash (arcmin)	1,2	2~40	≤ 15	≤ 12	≤ 12	≤ 12
Unit Gearbox Weight (kg)	1	2~5	3.5	5	8	13
	2	7~40	4.5	6.5	9.5	15
Wheel Diameter Ø (mm)	1,2	2~40	min Ø150	min Ø180	min Ø200	min Ø250

Features:

1. AGV wheel specially designed for amr and material handling types of robot.
2. Nominal wheel torque: 63nm to 320nm
3. Load capacity: upto 1200kg
4. Wheel diameter ranging from: 150 to 250mm
5. Models SWT: 118,138,160 & 190
6. Reduction ratio available: 1:2 to 1:40
7. Suitable servo motor: 400watt to 1500watt

USP: Integrated Motor planetary reducer and rubber wheel, low noise & Vibrations, high efficiency & Precise positioning.