

A

B

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A

B

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E

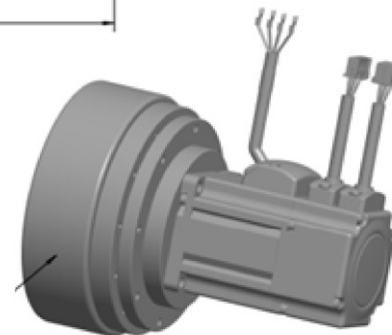
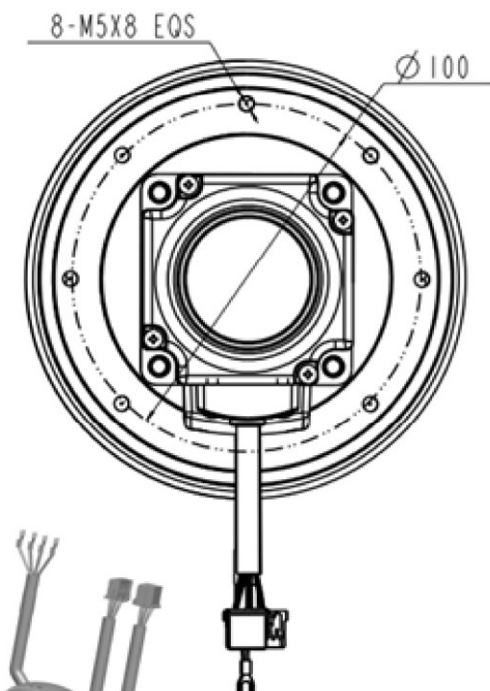
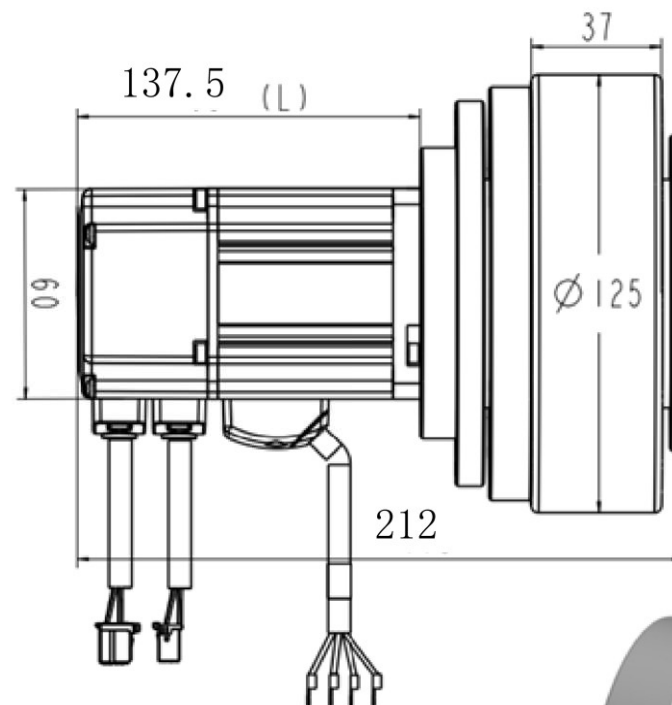
F

Driving Wheel: MSD125-□□-020-30G□L-□
① ② ③

Main parameter	MSD125-□□-020-30G□L-□ ① ② ③		
Gear ratio①	16	20	32
Rated speed (m/s)	1.2	1.0	0.6
Max. speed (m/s)	1.8	1.5	0.9
Final rated torque (N·m)	9.6	12.0	19.1
Motor rated voltage (VDC)	48		
Motor power (W)	200		
Motor rated speed (rpm)	3000		
Gearbox radial load (N)	5000		
Gearbox efficiency	94%		
Protection level (motor/gearbox)	IP54		

Option/Customization

Dual Encoder (Option) ②	L (SL/N) =78mm
Single: SL Dual: EL	L (SL/B) =117.5mm
Brake (Option) ③	L (EL/N) =98mm
Without: N With: B	L (EL/B) =137.5mm
Brakeect	Can be deep customization
High protection level (Motor/Gearbox)	Can be customization
Tire (Tread)	Can be customization



Tire is a replaceable part,
recommending users to prioritize self-supply

Unit:mm

※Note: Motor in this driving wheel has UL certification.

Complementary products	Part number
Drive	MBDV-2X-520AC-F02
Jacking Module	
Rotation Module	

※Note: MBDV series drive has CE/UL/STO certifications

			Unit:mm 第一角画法 First angle method		批准 Approve			MOONS' <i>moving in better ways</i> This document is released for information only. Its reproduction in whole or in part or its dissemination to third parties is prohibited. All trademarks and registered trademarks appearing on this document are the property of their respective owners.			
			未注线性与角度尺寸公差 Tolerances for linear and angular dimensions without individual tolerance indications GB/T 1804-m eqv ISO 2768-1:m		标准化 Standardize						
			未注形状与位置尺寸公差 Geometrical tolerance for features without individual tolerance indications GB/T 1184-K eqv ISO 2768-2:K		工艺 Process Review						
					审核 Check						
A0	原始版本	Original revision			设计 Design	AGV	2025				
REV.	版本记录 REVISION RECORD		DATE	UNLESS OTHERWISE SPECIFIED	NAMES	SIGNATURE	DATE	Drawing No: preliminary	Rev. Pr.	SCALE: 1:1	Sheet 1 of 1
1		2		3		4		5		6	
7		8									