



INTEGRATED ROBOT JOINT MODULES

APM Series | Medium-Duty Joint Module Specification

PRODUCT PLATFORM	APM Series	SERIES	Medium-Duty Planetary Robot Joint Modules
6 MODELS	63 / 86 mm DIAMETER	50 - 120 Nm PEAK TORQUE	

MODEL COMPARISON

Parameter	APM-063-050-R29	APM-063-060-R35	APM-M063-075-R35	APM-M086-060-R25	APM-M086-090-R36	APM-M086-120-R36
GENERAL SPECIFICATIONS						
Module Outer Diameter (mm)	63	63	63	86	86	86
Module Height (mm)	52	54	58	65	65	67
Reducer Type	Planetary	Planetary	Planetary	Planetary	Planetary	Planetary
Reduction Ratio	29	35	35	25	36	36
Module Weight (g)	430	445	480	670	700	750
PERFORMANCE						
Rated Speed (rpm)	160	120	100	100	130	100
Rated Torque (Nm)	15	20	25	20	30	40
Maximum Speed (rpm)	190	140	120	120	160	120
Maximum Torque (Nm)	50	60	75	60	90	120
Torque Constant (Nm/A)	1.9	2.5	3	2.5	1.2	1.6

Speed Constant (rpm/V)	3.7	2.7	2.1	2.5	2.7	2.5
ELECTRICAL & COMMUNICATION						
Drive Voltage (V)	48	48	48	48	48	48
Communication Protocol	CAN / CANFD	CAN / CANFD	CAN / CANFD	CAN / CANFD	CAN / CANFD	CAN / CANFD
MECHANICAL & ENVIRONMENT						
Protection Rating	IP54	IP54	IP54	IP54 / IP67	IP54	IP54
Backlash	< 12 arcmin	< 12 arcmin	< 12 arcmin	< 12 arcmin	< 12 arcmin	< 12 arcmin

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official@artuscn.com

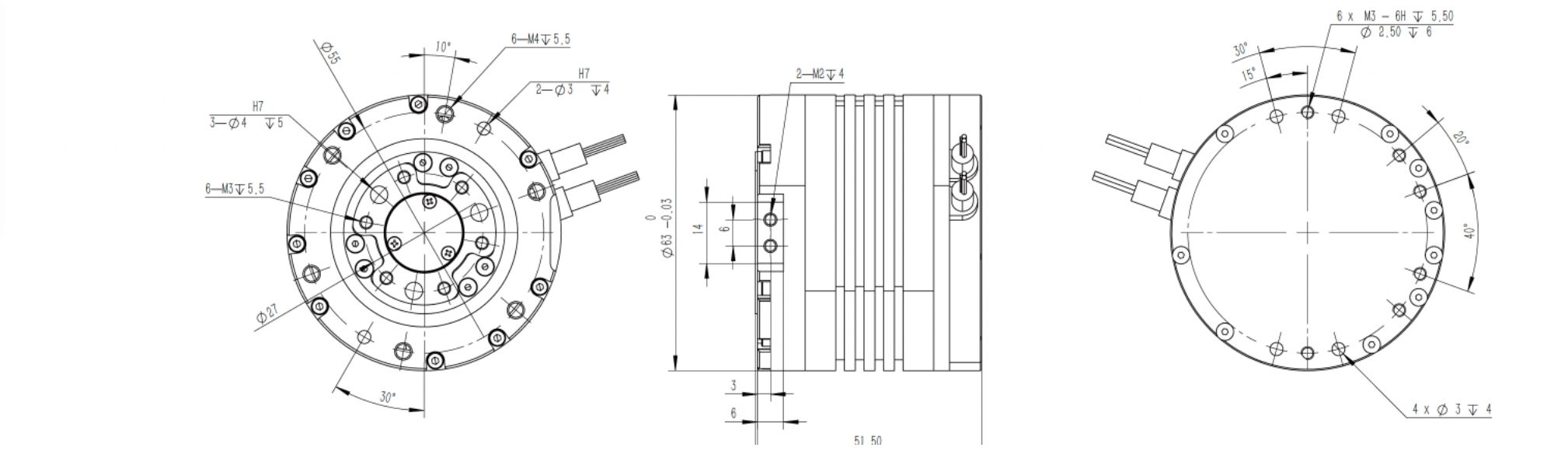
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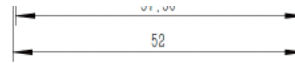
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+86 130 8888 8023 (Phone/ WhatsApp)

DIMENSIONAL DRAWING- 63 mm Platform





DIMENSIONAL DRAWING- 86 mm Platform

