

ARTUS HARMONIC ROBOT JOINT MODULES

AHM Series | Customer Quick Selection Table

56 MODELS | Ø40-170 mm | COMPACT / MID-SIZE / LARGE / EXTRA-LARGE

Compact				Mid-size				Large				Extra-large		
Series	ARTUS Model	Module OD (mm)	Ratio	Start/Stop Peak Torque (N·m)	Max. Average Load Torque (N·m)	Rated Torque ¹ (N·m)	Rated Speed ² (rpm)	Output Peak Speed (rpm)	Rated Power (W)	Length ³ (mm)	Hollow Ø (mm)	Weight ³ (kg)	Encoder (bit)	Communication
Compact	AHM-040-003-R51	40	51	3.3	2.3	1.8	90	118	30	60 / 78.6	6	0.19 / 0.27	16	CAN
Compact	AHM-040-005-R101	40	101	4.8	3.3	2.4	45	59	30	60 / 78.6	6	0.19 / 0.27	16	CAN
Compact	AHM-052-008-R51	52	51	8.3	5.5	3.5	80	118	50	62 / 82	12	0.32 / 0.42	16	CAN
Compact	AHM-052-011-R101	52	101	11	8.9	5	40	59	50	62 / 82	12	0.32 / 0.42	16	CAN
Compact	AHM-060-023-R51	60	51	23	8.6	6.6	75	97	85	63 / 81.5	12	0.45 / 0.58	16	CAN
Compact	AHM-060-029-R81	60	81	29	13.5	9.6	46	61	85	63 / 81.5	12	0.45 / 0.58	16	CAN
Compact	AHM-060-034-R101	60	101	34	13.5	9.6	37	49	85	63 / 81.5	12	0.45 / 0.58	16	CAN
Mid-size	AHM-070-023-R51	70	51	23	8.6	6.6	75	97	85	63 / 81.5	12	0.66 / 0.78	16	CAN
Mid-size	AHM-070-029-R81	70	81	29	13.5	9.6	46	61	85	63 / 81.5	12	0.66 / 0.78	16	CAN
Mid-size	AHM-070-034-R101	70	101	34	13.5	9.6	37	49	85	63 / 81.5	12	0.66 / 0.78	16	CAN
Mid-size	AHM-070-042-R51	70	51	42	32	19.8	68	82	230	72.5 / 93	18	0.73 / 0.88	16	CAN
Mid-size	AHM-070-053-R81	70	81	53	33	27.5	43	51	230	72.5 / 93	18	0.73 / 0.88	16	CAN
Mid-size	AHM-070-066-R101	70	101	66	49	30	34	41	230	72.5 / 93	18	0.73 / 0.88	16	CAN
Mid-size	AHM-070-066-R121	70	121	66	49	30	24	32	230	72.5 / 93	18	0.73 / 0.88	16	CAN
Mid-size	AHM-080-042-R51	80	51	42	32	19.8	68	82	230	72.5 / 91.5	18	1.03 / 1.2	16	CAN
Mid-size	AHM-080-053-R81	80	81	53	33	27.5	43	51	230	72.5 / 91.5	18	1.03 / 1.2	16	CAN
Mid-size	AHM-080-066-R101	80	101	66	49	30	34	41	230	72.5 / 91.5	18	1.03 / 1.2	16	CAN
Mid-size	AHM-080-066-R121	80	121	66	49	30	24	32	230	72.5 / 91.5	18	1.03 / 1.2	16	CAN
Mid-size	AHM-080-069-R51	80	51	69	42	32	61	77	340	73 / 91.5	18	0.9 / 1.11	16	CAN
Mid-size	AHM-080-091-R81	80	81	91	58	42	38	48	340	73 / 91.5	18	0.9 / 1.11	16	CAN
Mid-size	AHM-080-102-R101	80	101	102	61	50	30	40	340	73 / 91.5	18	0.9 / 1.11	16	CAN
Mid-size	AHM-080-108-R121	80	121	108	61	50	25	30	340	73 / 91.5	18	0.9 / 1.11	16	CAN
Mid-size	AHM-090-069-R51	90	51	69	42	32	61	77	340	73.5 / 92	18	1.27 / 1.5	16	CAN
Mid-size	AHM-090-091-R81	90	81	91	58	42	38	48	340	73.5 / 92	18	1.27 / 1.5	16	CAN

¹ Rated torque at motor speed 2000 rpm / reduction ratio (industrial application). Max. average load torque is listed separately for robot applications.

² Rated speed is specified at 1/2 rated torque.

³ Length and weight are shown as No brake / With brake. Length tolerance: ±0.5 mm.

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Compact				Mid-size				Large				Extra-large		
Series	ARTUS Model	Module OD (mm)	Ratio	Start/Stop Peak Torque (N·m)	Max. Average Load Torque (N·m)	Rated Torque¹ (N·m)	Rated Speed² (rpm)	Output Peak Speed (rpm)	Rated Power (W)	Length³ (mm)	Hollow Ø (mm)	Weight³ (kg)	Encoder (bit)	Communication
Mid-size	AHM-090-102-R101	90	101	102	61	50	30	40	340	73.5 / 92	18	1.27 / 1.5	16	CAN
Mid-size	AHM-090-108-R121	90	121	108	61	50	25	30	340	73.5 / 92	18	1.27 / 1.5	16	CAN
Large	AHM-097-121-R51	97	51	121	68.5	48	54	65	450	85.5 / 105.5	27	1.5 / 1.63	16	CAN
Large	AHM-097-169-R81	97	81	169	107	78	35	43	450	85.5 / 105.5	27	1.5 / 1.63	16	CAN
Large	AHM-097-194-R101	97	101	194	133	84	27	36	450	85.5 / 105.5	27	1.5 / 1.63	16	CAN
Large	AHM-097-207-R121	97	121	207	133	84	23	30	450	85.5 / 105.5	27	1.5 / 1.63	16	CAN
Large	AHM-097-217-R161	97	161	217	133	84	17	22	450	85.5 / 105.5	27	1.5 / 1.63	16	CAN
Large	AHM-110-121-R51	110	51	121	68.5	48	54	65	450	85.5 / 105.5	27	2.06 / 2.26	16	CAN
Large	AHM-110-169-R81	110	81	169	107	78	35	43	450	85.5 / 105.5	27	2.06 / 2.26	16	CAN
Large	AHM-110-194-R101	110	101	194	133	84	27	36	450	85.5 / 105.5	27	2.06 / 2.26	16	CAN
Large	AHM-110-207-R121	110	121	207	133	84	23	30	450	85.5 / 105.5	27	2.06 / 2.26	16	CAN
Large	AHM-110-217-R161	110	161	217	133	84	17	22	450	85.5 / 105.5	27	2.06 / 2.26	16	CAN
Large	AHM-120-267-R51	120	51	267	133	94	44	55	720	100.5 / 121.5	32	2.52 / 3.21	16	CAN
Large	AHM-120-376-R81	120	81	376	206	146	29	37	720	100.5 / 121.5	32	2.52 / 3.21	16	CAN
Large	AHM-120-411-R101	120	101	411	267	169	22	29	720	100.5 / 121.5	32	2.52 / 3.21	16	CAN
Large	AHM-120-436-R121	120	121	436	267	169	18	24	720	100.5 / 121.5	32	2.52 / 3.21	16	CAN
Large	AHM-120-459-R161	120	161	459	267	169	12	18	720	100.5 / 121.5	32	2.52 / 3.21	16	CAN
Large	AHM-142-267-R51	142	51	267	133	94	44	55	720	100.5 / 121.5	32	3.96 / 4.38	16	CAN
Large	AHM-142-376-R81	142	81	376	206	146	29	37	720	100.5 / 121.5	32	3.96 / 4.38	16	CAN
Large	AHM-142-411-R101	142	101	411	267	169	22	29	720	100.5 / 121.5	32	3.96 / 4.38	16	CAN
Large	AHM-142-436-R121	142	121	436	267	169	18	24	720	100.5 / 121.5	32	3.96 / 4.38	16	CAN
Large	AHM-142-459-R161	142	161	459	267	169	12	18	720	100.5 / 121.5	32	3.96 / 4.38	16	CAN
Extra-large	AHM-170-497-R51	170	51	497	242	169	22	33	650	121.7 / 147.7	40	6.84 / 7.52	16	CAN
Extra-large	AHM-170-641-R81	170	81	641	351	255	15	21	650	121.7 / 147.7	40	6.84 / 7.52	16	CAN

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Extra-large	AHM-170-702-R101	170	101	702	460	328	12	16	650	121.7 / 147.7	40	6.84 / 7.52	16	CAN	
Extra-large	AHM-170-762-R121	170	121	762	557	363	10	14	650	121.7 / 147.7	40	6.84 / 7.52	16	CAN	
Extra-large	AHM-170-800-R161	170	161	800	557	363	7	10	650	121.7 / 147.7	40	6.84 / 7.52	16	CAN	
Extra-large	AHM-170-497-R51-M110	170	51	497	242	169	22	33	650	124.5 / 156.5	32	6.87 / 7.61	16/18	CAN/EtherCAT	
Extra-large	AHM-170-497-R81-M110	170	81	641	351	255	15	21	650	124.5 / 156.5	32	6.87 / 7.61	16/18	CAN/EtherCAT	
Extra-large	AHM-170-497-R101-M110	170	101	702	460	328	12	16	650	124.5 / 156.5	32	6.87 / 7.61	16/18	CAN/EtherCAT	
Extra-large	AHM-170-497-R121-M110	170	121	762	557	363	10	14	650	124.5 / 156.5	32	6.87 / 7.61	16/18	CAN/EtherCAT	
Extra-large	AHM-170-497-R161-M110	170	161	800	557	363	7	10	650	124.5 / 156.5	32	6.87 / 7.61	16/18	CAN/EtherCAT	

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Standard models: 16-bit single encoder, CAN.

Confirm the exact version and dimensions when ordering. M110 data is 16/18-bit dual encoder, CAN/EtherCAT.