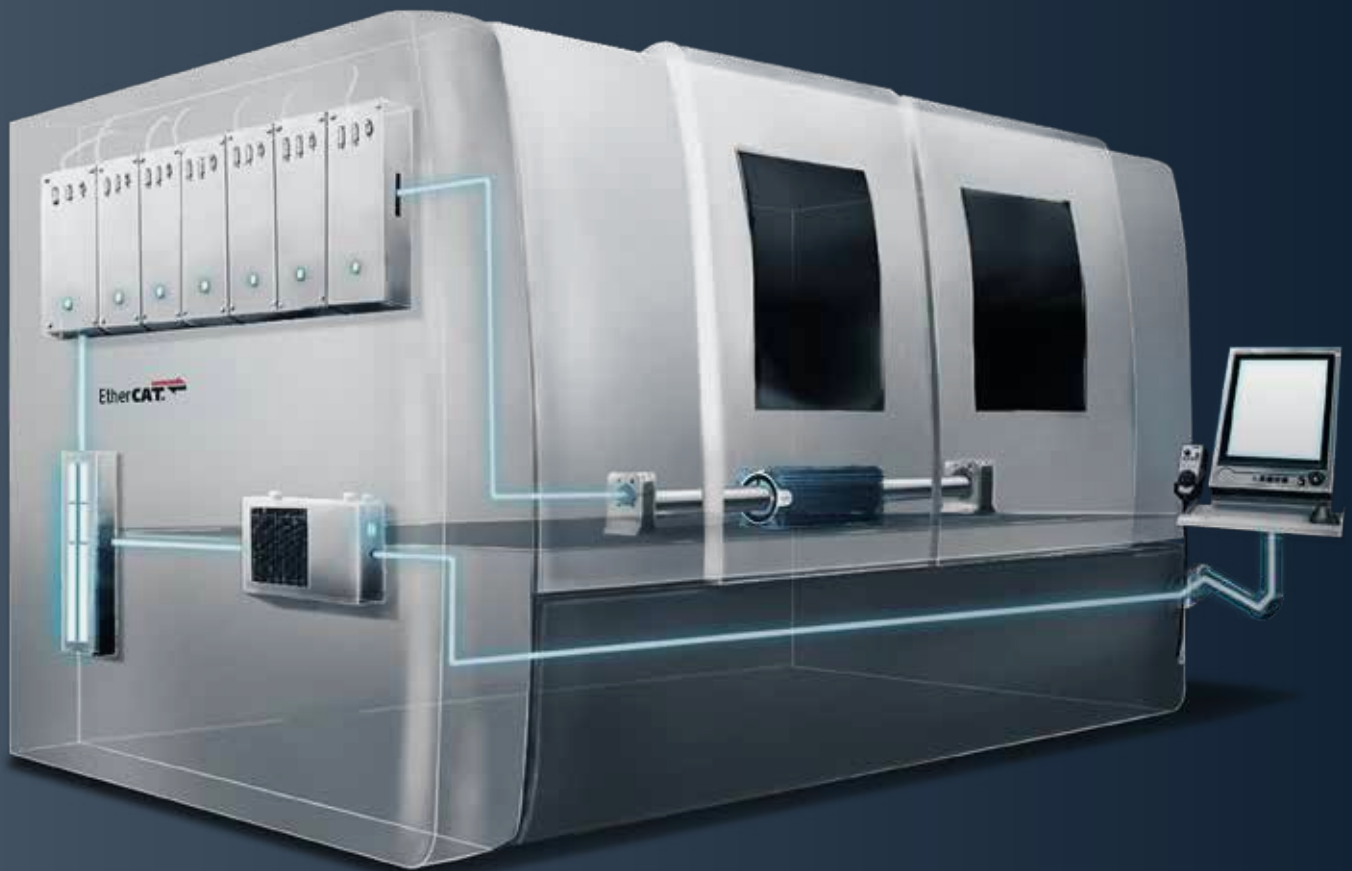
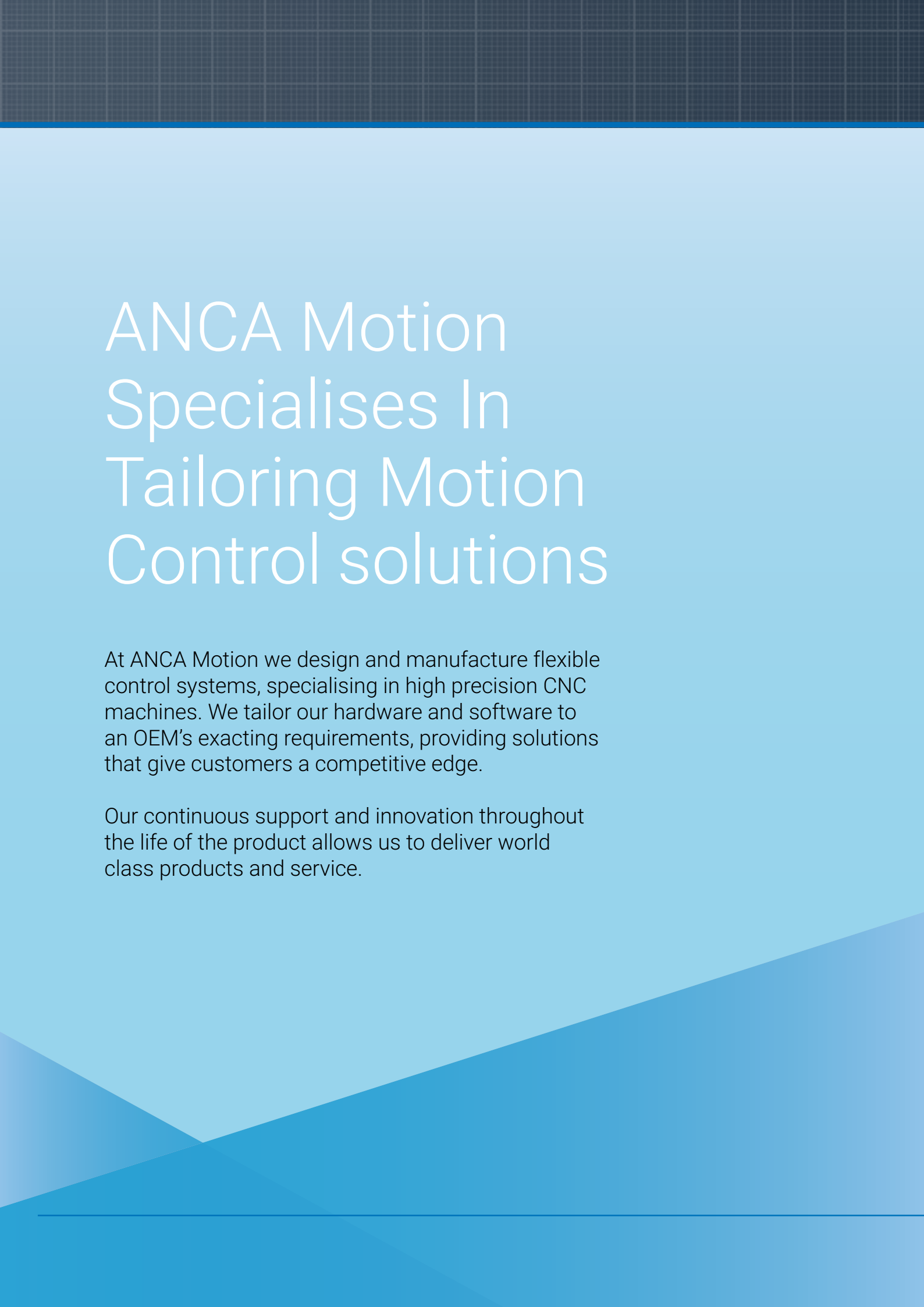


ANCA
motion
Motion Control Solutions



CABLE CATALOGUE

The background of the slide features a dark blue grid pattern at the top, transitioning into a light blue gradient. At the bottom, there are abstract geometric shapes in various shades of blue, including a large triangle and a horizontal line.

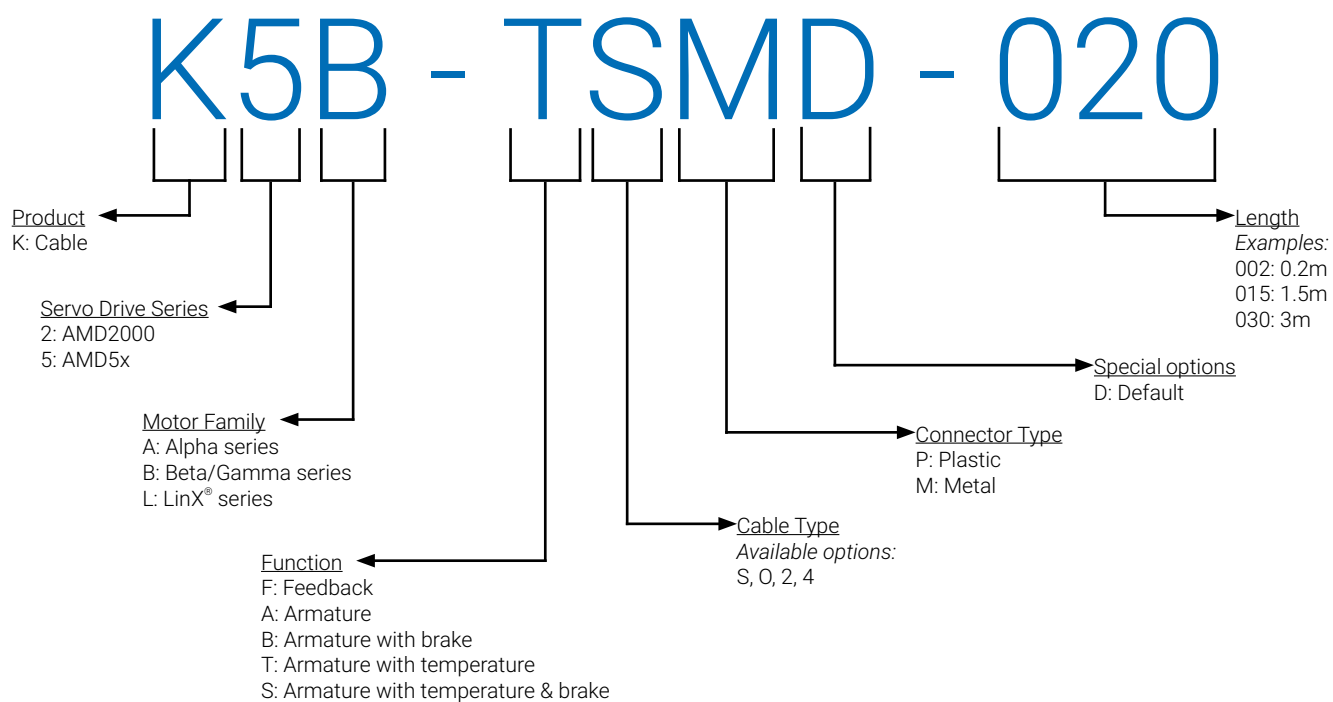
ANCA Motion Specialises In Tailoring Motion Control solutions

At ANCA Motion we design and manufacture flexible control systems, specialising in high precision CNC machines. We tailor our hardware and software to an OEM's exacting requirements, providing solutions that give customers a competitive edge.

Our continuous support and innovation throughout the life of the product allows us to deliver world class products and service.

PRODUCT CODE TABLE	<u>4</u>
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PRODUCT CODE TABLE



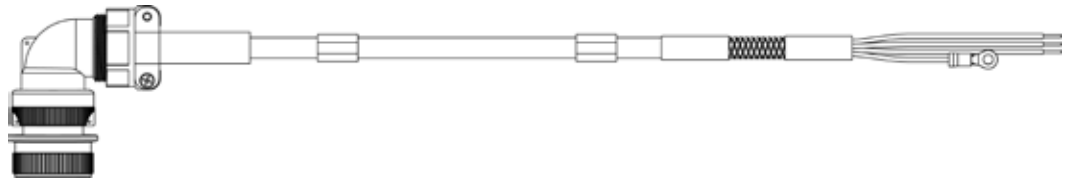
Function	Cable Type	Description
F	S	Feedback cable shielded incremental
A/B/T/S	O	Armature cable shielded 0.75mm ²
A/B/T/S	S	Armature cable shielded 1.5mm ²
A/B/T/S	2	Armature cable shielded 2.5mm ²
A/B/T/S	4	Armature cable shielded 4mm ²

Alpha Armature

AMD2000 drive armature cable with plastic connector (motor end).



AMD2000 drive armature cable with metal connector (motor end).



Alpha Encoder

AMD2000 drive encoder cable with plastic connector (motor end).



AMD2000 drive encoder cable with metal connector (motor end).



Beta/Gamma Armature

AMD5x/AMD2000 drive armature cable with metal connector (motor end).



Beta/Gamma Encoder

AMD5x/AMD2000 drive encoder cable with metal connector (motor end).



LinX Armature

AMD5x/AMD2000 drive armature cable with metal connector (motor end).

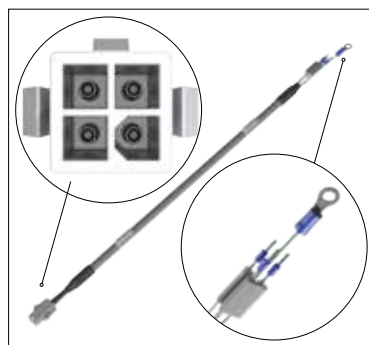


ALPHA MOTOR CABLES

AMD2000 SERVO DRIVE CABLES

	K2A-AOPD-XYZ	K2A-ASMD-XYZ	K2A-FSMD-XYZ	K2A-FSPD-XYZ
Cable Type	Armature	Armature	Encoder	Encoder
Drive	AMD2000	AMD2000	AMD2000	AMD2000
Motor	Alpha	Alpha	Alpha	Alpha
Motor End Connector	4 Pin Armature Plastic	4 Pin Armature Metal	9 Pin Encoder Metal	9 Pin Encoder Plastic
Driver End Connector	Flying Lead	Flying Lead	15 Pin	15 Pin
Conductor Description	[0.75 x (3 + E)] + S	[1.5 x (3 + E)] + S	4x(2x0.25)+ S	4x(2x0.25)+ S
Cable Outer Diameter (mm)	8.4	9.1	7.5	7.5
Voltage Rating (V)*	300/500	600/1,000	49	49
Minimum Bending Radius Static (mm)	33.6	45.6	29.6	29.6
Minimum Bending Radius Flexible (mm)	63	85.5	55.5	55.5
Minimum Number of Bend cycles (Millions)	5	2 to 8	10	10
Drag Chain Suitable	Yes	Yes	Yes	Yes
Max Length Drag Chain (m)	10	100	100	100
Max speed Drag Chain (m/s)	5	5	3	3
Max Accel Drag Chain (m/s ²)	20	50	50	50
Operating Temperature Static (°C)	-40 to 80	-50 to 90	-20 to 70	-20 to 70
Operating Temperature Drag Chain (°C)	0 to 70	-5 to 70	-40 to 80	-40 to 80
Jacket	PUR	PUR	PUR	PUR
Oil Resistance	Yes	Yes	Yes	Yes
Color	Grey	Orange	Grey	Grey

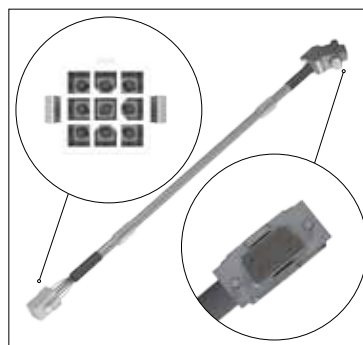
*Dual voltage rating U_0/U is defined where U_0 is the rms voltage between a phase conductor and earth, and U is the rms voltage between two phase conductors.
(Specifications are subject to change without notice).



K2A-AOPD-XYZ



K2A-ASMD-XYZ



K2A-FSPD-XYZ

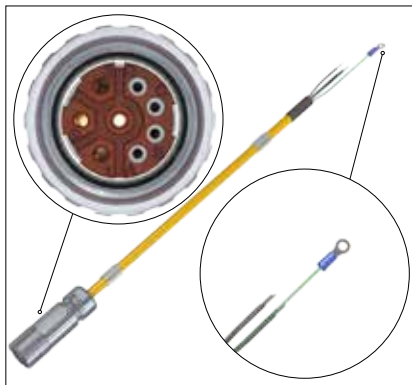


K2A-FSMD-XYZ

BETA/GAMMA MOTOR CABELS AMD2000 SERVO DRIVE CABLES

	K2B-ASMD-XYZ	K2B-BSMD-XYZ	K2B-TSMD-XYZ	K2B-FSMD-XYZ
Cable Type	Armature	Armature + Brake	Armature + Brake	Encoder
Drive	AMD2000	AMD2000	AMD2000	AMD2000
Motor	Beta/Gamma	Beta/Gamma	Beta/Gamma	Beta/Gamma
Motor End Connector	8 Pin Armature - Metal	8 Pin Armature - Metal	8 Pin Armature - Metal	12 Pin Encoder - Metal
Driver End Connector	Flying Lead	Flying Lead	15 Pin	15 Pin
Conductor Description	$[1.5 \times (3 + E) + S]$	$[1.5 \times (3 + E) + (2 \times 0.75) S] + S$	$[1.5 \times (3 + E) + (2 \times 0.75) S] + S$	$3 \times (2 \times 0.14) + 4 \times 0.14 + 2 \times 0.5$
Cable Outer Diameter (mm)	9.1	11.4	11.4	8.8
Voltage Rating (V)*	600/1000	600/1000	600/1000	30/30
Minimum Bending Radius Static (mm)	36.4	45.6	45.6	35.2
Minimum Bending Radius Flexible (mm)	68.3	85.5	85.5	66
Minimun Number of Bend cycles (Millions)	10	2 to 8	2 to 8	10
Drag Chain Suitable	Yes	Yes	Yes	Yes
Max Length Drag Chain (m)	100	100	100	100
Max speed Drag Chain (m/s)	5	5	5	5
Max Accel Drag Chain (m/s ²)	50	50	50	50
Operating Temperature Static (°C)	-50 to 90	-50 to 90	-50 to 90	-50 to 80
Operating Temperature Drag Chain (°C)	-40 to 90	-40 to 70	-40 to 70	-20 to 60
Jacket	PUR	PUR	PUR	PUR
Oil Resistance	Yes	Yes	Yes	Yes
Color	Orange	Orange	Orange	Green

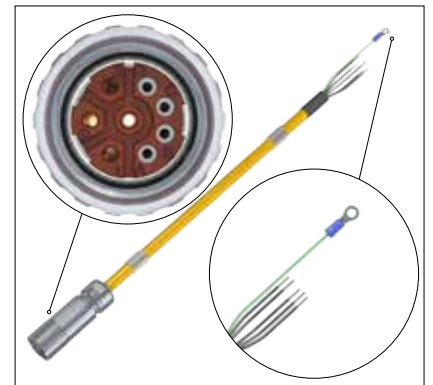
*Dual voltage rating U_0/U is defined where U_0 is the rms voltage between a phase conductor and earth, and U is the rms voltage between two phase conductors.
(Specifications are subject to change without notice).



K2B-ASMD-XYZ



K2B-FSMD-XYZ



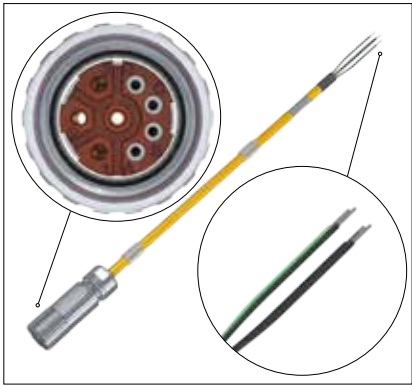
K2B-BSMD-XYZ
K2B-TSMD-XYZ

BETA/GAMMA MOTOR CABELS

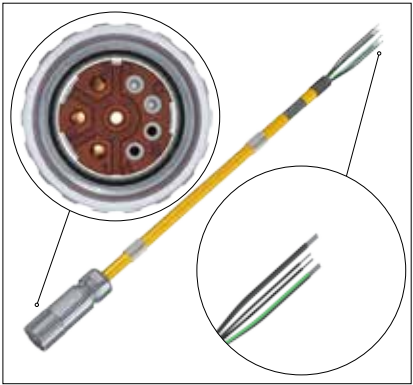
AMD5X SERVO DRIVE CABLES

	K5B-ASMD-XYZ	K5B-BSMD-XYZ	K5B-TSMD-XYZ
Cable Type	Armature	Armature + Brake	Armature + Temp
Drive	AMD5x	AMD5x	AMD5x
Motor	Beta/Gamma	Beta/Gamma	Beta/Gamma
Motor End Connector	8 Pin Armature - Metal	8 Pin Armature - Metal	8 Pin Armature - Metal
Driver End Connector	Flying Lead	Flying Lead	Flying Lead
Conductor Description	[1.5 x (3 + E)] + S	[1.5 x (3 + E) + (2 x 0.75) S] + S	[1.5 x (3 + E) + (2 x 0.75) S] + S
Cable Outer Diameter (mm)	9.1	11.4	11.4
Voltage Rating (V)*	600/1000	600/1000	600/1000
Minimum Bending Radius Static (mm)	36.4	45.6	45.6
Minimum Bending Radius Flexible (mm)	68.3	85.5	85.5
Minimun Number of Bend cycles (Millions)	10	2 to 8	2 to 8
Drag Chain Suitable	Yes	Yes	Yes
Max Length Drag Chain (m)	100	100	100
Max speed Drag Chain (m/s)	5	5	5
Max Accel Drag Chain (m/s^2)	50	50	50
Operating Temperature Static (°C)	-50 to 90	-50 to 90	-50 to 90
Operating Temperature Drag Chain (°C)	-40 to 90	-40 to 90	-40 to 90
Jacket	PUR	PUR	PUR
Oil Resistance	Yes	Yes	Yes
Color	Orange	Orange	Orange

*Dual voltage rating Uo/U is defined where Uo is the rms voltage between a phase conductor and earth, and U is the rms voltage between two phase conductors.
(Specifications are subject to change without notice).



K5B-ASMD-XYZ

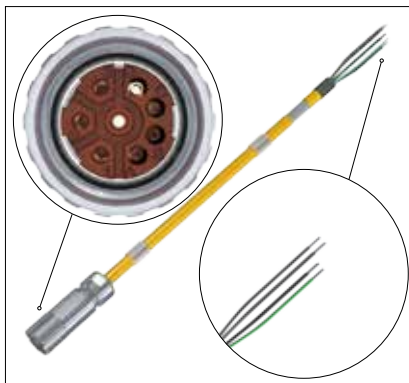


K5B-BSMD-XXX
K5B-T2MD-XYZ
K5B-TSMD-XYZ

BETA/GAMMA MOTOR CABELS AMD5X SERVO DRIVE CABLES

	K5B-SSMD-XYZ	K5B-T2MD-XYZ	K5B-FSMD-XYZ
Cable Type	Armature + Temp. + Brake	Armature + Temp	Encoder
Drive	AMD5x	AMD5x	AMD5x
Motor	Beta/Gamma	Beta/Gamma	Beta/Gamma
Motor End Connector	8 Pin Armature - Metal	8 Pin armature - Metal	12 Pin Encoder - Metal
Driver End Connector	Flying Lead	Flying lead	12 Pin
Conductor Description	$[1.5 \times (3 + E) + 2 \times (2 \times 0.75)S] + S$	$[2.5 \times (3 + E) + (2 \times 1.5)S] + S$	$3 \times (2 \times 0.14)S + 4 \times 0,14 + 2 \times 0,5$
Cable Outer Diameter (mm)	12.2	13.5	8.8
Voltage Rating (V)*	600/1000	600/1000	30/30
Minimum Bending Radius Static (mm)	48.8	54	35.2
Minimum Bending Radius Flexible (mm)	91.5	101.3	66
Minimun Number of Bend cycles (Millions)	10	10	10
Drag Chain Suitable	Yes	yes	Yes
Max Length Drag Chain (m)	100	100	100
Max speed Drag Chain (m/s)	5	5	5
Max Accel Drag Chain (m/s^2)	50	50	50
Operating Temperature Static (°C)	-50 to 90	-50 to 90	-50 to 80
Operating Temperature Drag Chain (°C)	-40 to 90	-40 to 90	-20 to 60
Jacket	PUR	PUR	PUR
Oil Resistance	Yes	Yes	Yes
Color	Orange	Orange	Green

*Dual voltage rating U_0/U is defined where U_0 is the rms voltage between a phase conductor and earth, and U is the rms voltage between two phase conductors.
(Specifications are subject to change without notice).



K5B-SSMD-XYZ



K5B-FSMD-XXX

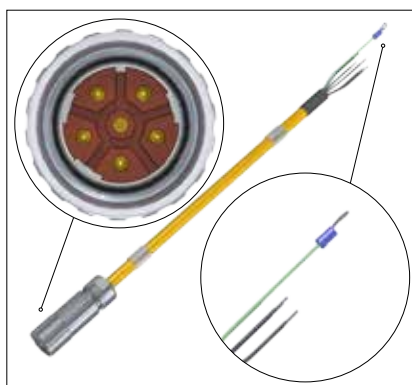
LINX MOTOR CABELS

AMD200 AND AMD5X SERVO DRIVE CABLES

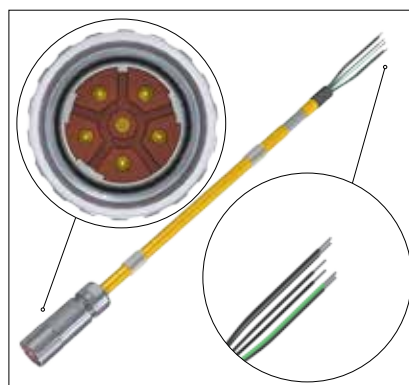


	K2L-TSMD-XYZ	K5L-TSMD-XYZ
Cable Type	Armature + Temp	Armature + Temp
Drive	AMD5x	AMD2000
Motor	LinX®	LinX®
Motor End Connector	6 Pin Armature - Metal	6 Pin Armature - Metal
Driver End Connector	Flying Lead	Flying Lead
Conductor Description	[1.5 x (3 + E) + (2 x 0.75) S] + S	[1.5 x (3 + E) + (2 x 0.75) S] + S
Cable Outer Diameter (mm)	11.4	11.4
Voltage Rating (V)*	600/1000	600/1000
Minimum Bending Radius Static (mm)	45.6	45.6
Minimum Bending Radius Flexible (mm)	85.5	85.5
Minimun Number of Bend cycles (Millions)	2 to 8	2 to 8
Drag Chain Suitable	Yes	Yes
Max Length Drag Chain (m)	100	100
Max speed Drag Chain (m/s)	5	5
Max Accel Drag Chain (m/s^2)	50	50
Operating Temperature Static (°C)	-50 to 90	-50 to 90
Operating Temperature Drag Chain (°C)	-40 to 90	-40 to 90
Jacket	PUR	PUR
Oil Resistance	Yes	Yes
Color	Orange	Orange

*Dual voltage rating U_0/U is defined where U_0 is the rms voltage between a phase conductor and earth, and U is the rms voltage between two phase conductors. (Specifications are subject to change without notice).



K2L-TSMD-XYZ

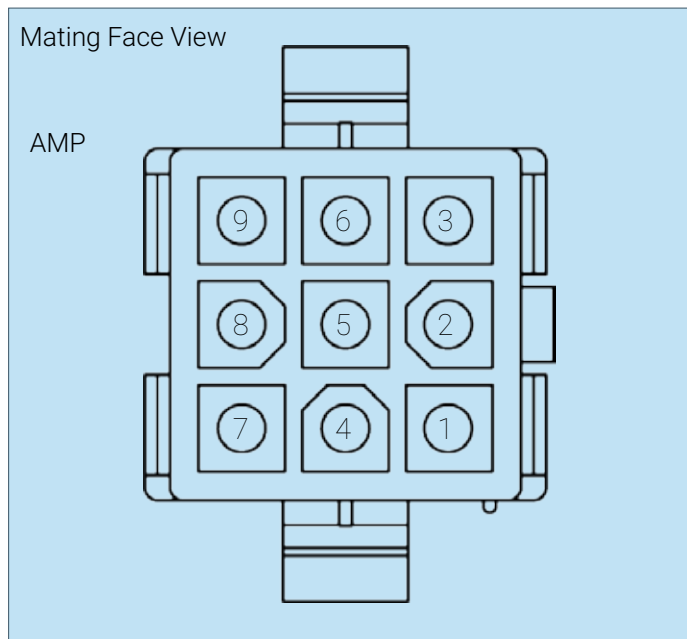


K5L-TSMD-XYZ

CONNECTIONS FOR ALPHA MOTOR CONNECTORS

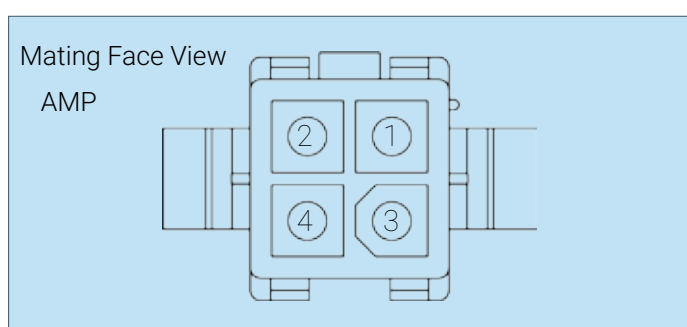
9 Pin Encoder Connection - Plastic

Pin	Designator	Function
1	+5V	POWER
2	0V	GROUND
3	A/U+	SIN+
4	A/U-	SIN-
5	B/V+	COS+
6	B/V-	COS-
7	RF	REF+
8	RF-	REF-
9	FG	SHIELD



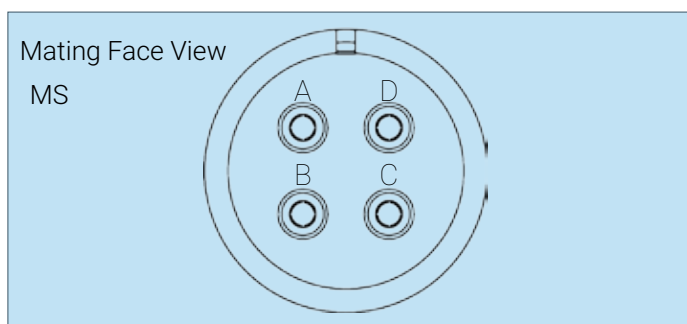
4 Pin Armature Connection - Plastic

Pin	Designator	Function
1	U	POWER
2	V	POWER
3	W	POWER
4	\overline{G}	EARTH



4 Pin Armature Connection - Metal

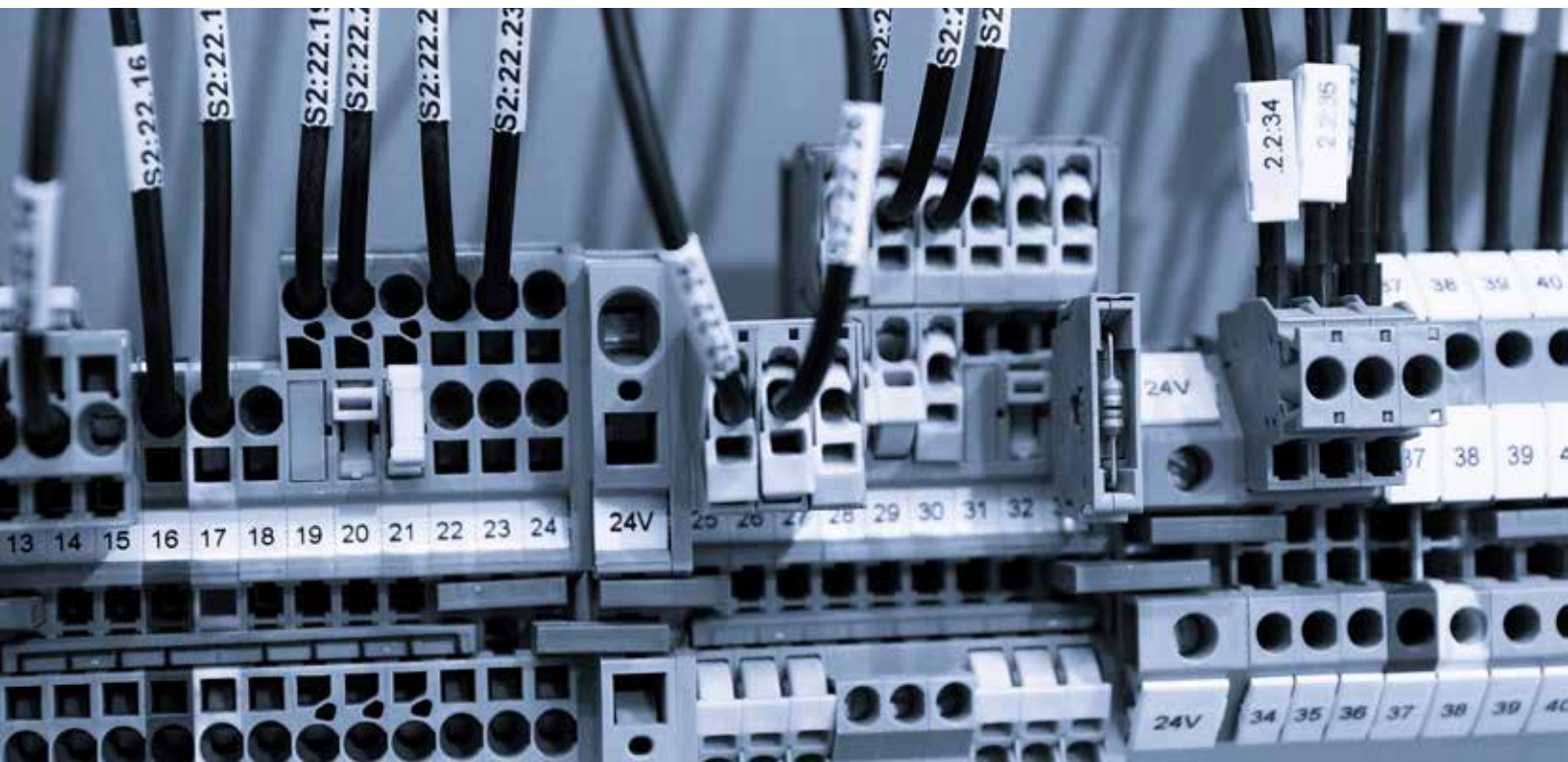
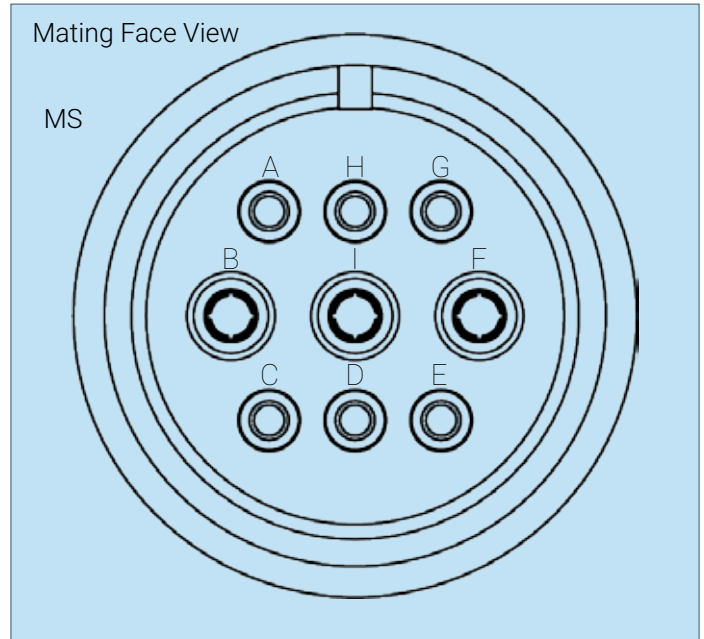
Pin	Designator	Function
A	U	POWER
B	V	POWER
C	W	POWER
D	E	EARTH



CONNECTIONS FOR ALPHA MOTOR CONNECTORS

9 Pin Encoder Connection - Metal

Pin	Designator	Function
B	+5V	POWER
I	0V	GROUND
A	A/U	SIN+
C	A/U	SIN-
H	B/V	COS+
D	B/V	COS-
G	Z/W	REF+
E	Z/W	REF-
F	FG	SHIELD



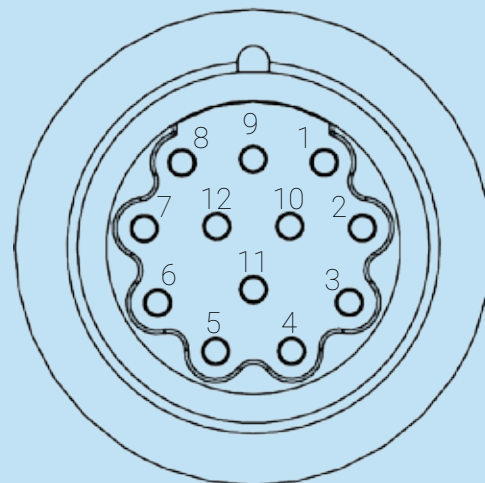
CONNECTIONS FOR BETA/GAMMA MOTOR CONNECTORS

12 Pin Encoder - Metal

Pin	Designator	Function
12	+5V	Supply +5V
10	0V	Supply 0V
6	A-	0° Signal -
5	A+	0° Signal +
1	B-	90° Signal -
8	B+	90° Signal +
2	C-	Comm 90° Signal -
11	C+	Comm 90° Signal +
9	D-	Comm 0° Signal -
7	D+	Comm 0° Signal +
4	R-	Ref Signal -
3	R+	Ref Signal +

Mating Face View

M23

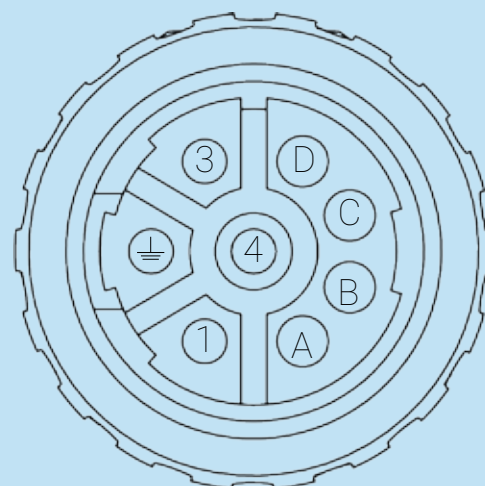


8 Pin Armature - Metal

Pin	Designator	Function
1	U	Motor U
4	V	Motor V
3	W	Motor
⏏	E	Ground/Earth
A	T+	Temperature Sensor +
B	T-	Temperature Sensor -
C	Br+	Brake +
D	Br-	Brake -

Mating Face View

M23

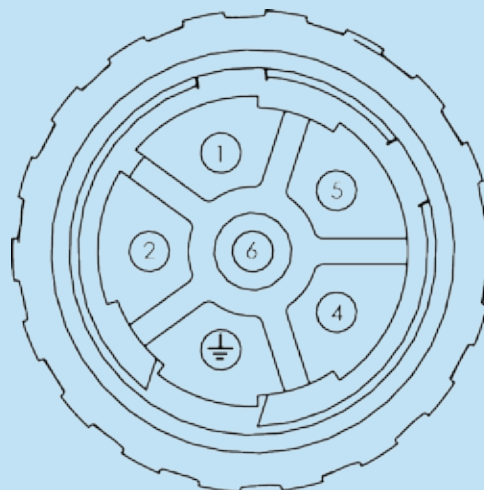


CONNECTIONS FOR LINX MOTOR CONNECTOR

6 Pin Armature - Metal

Pin	Designator	Function
1	U	Motor U
2	V	Motor V
6	W	Motor W
4	T+	Temperature Sensor +
5	T -	Temperature Sensor -
3	E	Ground/Earth

Mating Face View
M23



PRODUCT RANGE



AMI5000
Touch Pad



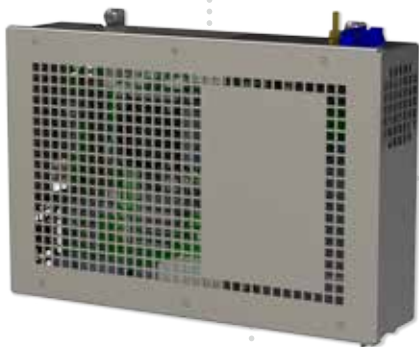
AMI5000
Remote
Pendant

AMI5000
I/O Box



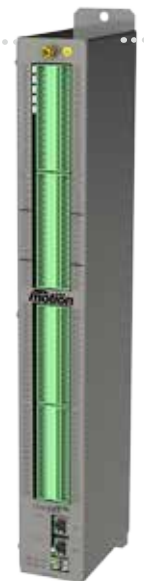
EtherCAT

AMC5 CNC



EtherCAT

AMI5000
Relay Panel



Software



AMCore
Commander
MotionBench

AMD5x
Infeed Unit



AMD5x
Servo Drive



EtherCAT

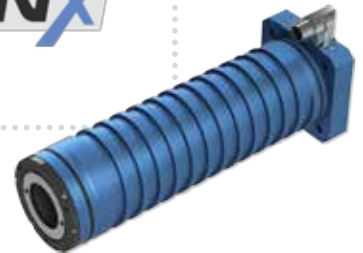
AMD2000
Servo Drive



Linear
Motors



LINX



Alpha
Servo Motors



Beta/Gamma
Servo Motors





Global Network of Service Centres

ANCA Motion have an extensive global network of service channels. Our service technicians are OEM factory trained and are one of the most experienced service teams in the world. We deliver the highest standard of customer service which is maintained throughout the entire life of the product.

Replacement Parts

ANCA Motion are able to provide original equipment replacement parts to ensure the highest quality of operation throughout your control systems lifetime.

Software & Hardware Upgrade Programs

ANCA Motion control systems are known to have a long service life and software and hardware is updated frequently. Our service team can assist you with updates to take advantage of more recent technology.

Technical Queries & Application Support

Our factory trained service team are able to provide technical support and advice to keep your control solution running and in peak performance.

Training

Application training can be made available when a control solution is installed or at a later date. Training is provided on site and in a wide range of topics to encompass every aspect of your company's needs.

Service Contracts/ Maintenance Agreements

To keep your control solution running at the highest level of performance and to minimise any production downtime, an ANCA Motion service contract/maintenance agreement can help you identify potential problems before they occur. This means you have one less thing to worry about. Please contact your local ANCA Motion branch for a customised quote.

THE ANCA GROUP

The ANCA Group of companies consists of ANCA CNC Machines, ANCA Motion and Tinfish. The ANCA Group specialises in design and manufacture of Machine Tools, Motion Control Systems and metal fabrication. The members of the ANCA Group have

achieved market leadership through innovation and a commitment to research and development. The ANCA Group Head Office is in Melbourne, Australia, its member companies have a network of overseas branches and approximately 900+ staff worldwide.



THE **ANCA** GROUP

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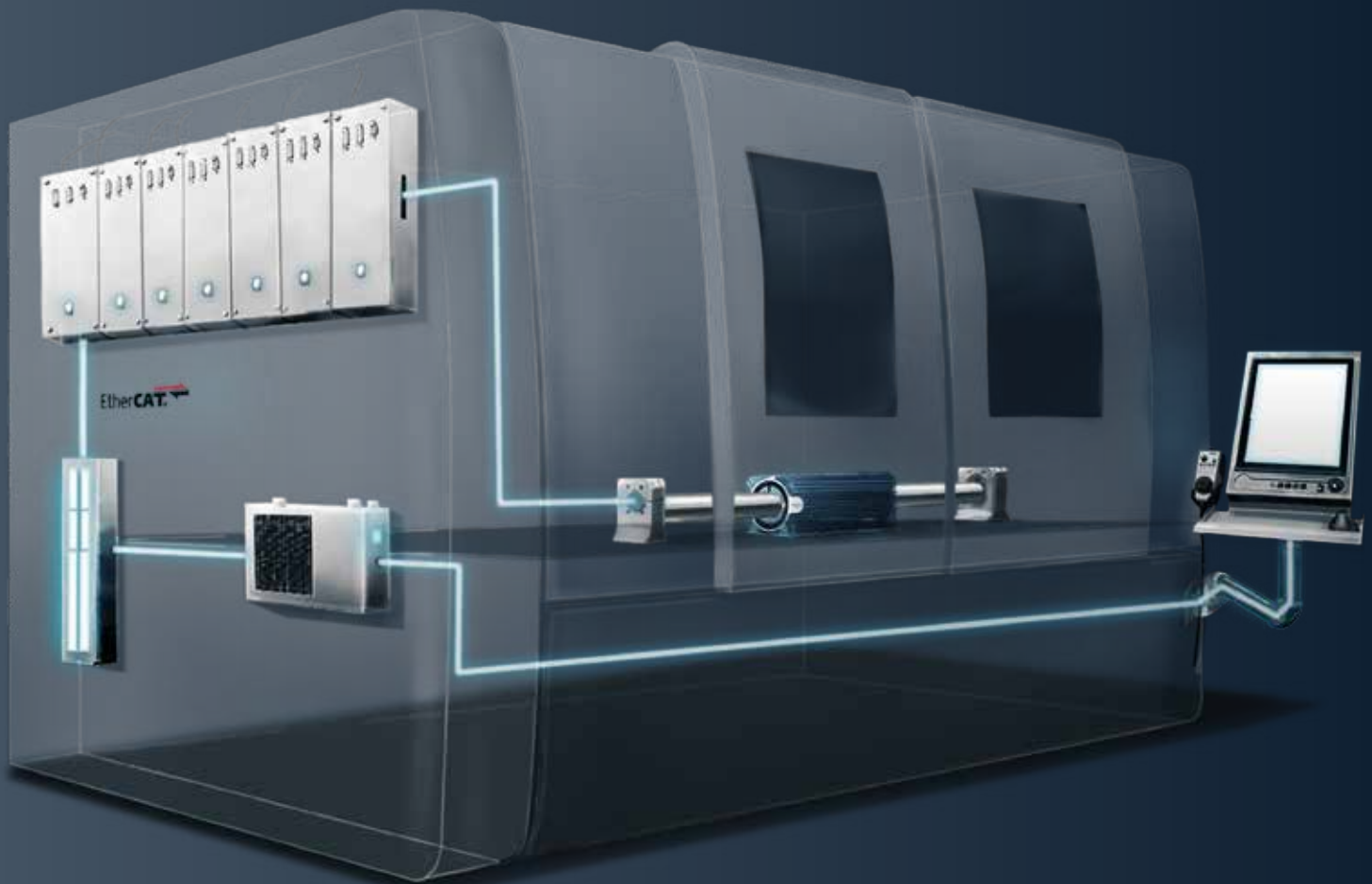
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