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TOLERANCES UNLESS OTHERWISE STATED HOLE DIAMETERS SIZE TO PLUS. DIMENSIONS IN MM

	Name	Signature	Date
Original Author	Refer to original EDCR		15/07/2002
Last Modified by	Andrew Keal		16/02/2022
Approved by	Andrew Keal		14/06/2011

FOR EFFECTIVITY DATE REFER TO EDCR

17	19598	Axial connector option added
16	19168	Updated for Orbit3
15	VOID	CANCELLED AND REVERTED BACK TO ISSUE 14 (DO NOT USE ISSUE 15)
14	17770	ACXX now ACHT and ACLT for High and Low temperature connector.
13	16679	Axial connector option AC00 was no cable; now option ACXX so that cable can be included.
12	16248	Option added for Yellow wire not available on cable lengths of 5m and above using D.I.N. Plug
11	16248	Option added for Yellow wire not available on cable lengths of 5m and above using 5 Core PFA Cable.
10	16046	Clarification of temperature specification and cable length
9	15919	Optimum Tip 804619 added
8	15694	Addition of "DD " for Digital Displacement
7	15524	OP Range with Armature Assy added
Issue	EDCR	Change Comments - for detailed information refer to EDCR.

Document summary:

Mach 1 & Optimum Series Ordering Guide

Document Types: WI, OP, FORM, PS, TS, ES			
Title		Number	
	Mach 1 & Optimum Series Ordering Guide	502103	



Mach 1 & Optimum Series Ordering Guide

(Denotes Orbit3) **Series Type** 150 °C rated Axial Cable outlet В 150 °C rated Radial Cable outlet (1.5 & 2.5 only) 2.5 kHz 5 kHz С Μ 200 °C rated Axial Cable outlet D Ν 200 °C rated Radial Cable outlet (1.5 & 2.5 only) O Optimum (150°C rated Axial only) Temperature **Nominal Stroke** range is relevant for probe only, In Millimetres and 1/10 mm refer to technical specification for Core / Carrier Type BICM or PIE. Free Core/Carrier - M4 x 0.7 thread Free Core/Carrier - 6-40 UNF thread W Guided Core/Carrier - M4 x 0.7 thread Not G Guided Core/Carrier - 6-40 UNF thread 'O ' R Ø6.35 mm Core M4 x 0.7 thread (no carrier) Т Ø6.35 mm Core 6-40 UNF thread (no carrier) Ε Ø1.9 Core (no carrier) Н Ø2.75 Core M2 Thread (no carrier) Q Ø1.9 Core/Carrier 'O' only Ζ Ø2.75 Core/Carrier M2 Thread J Guided Core/Carrier M2 x 0.4 thread **Electrical Connections** С Η 200 °C rated Axial Connector Mating part supplied (A-N inclusive) С Α Τ 125 °C rated Axial Connector Mating part supplied (A-N inclusive) С L Χ Χ 5 Core PFA Cable - Yellow wire available (A-D + O only)/ (A-D + O only) Mandatory for cable lengths of 5m and above. Χ Χ 5 Core PFA Cable - Yellow wire *not* available L L D D Χ X Digital Displacement (A-D + O only)1 L Ρ Χ Х D.I.N. Plug - Yellow wire available (A-D + O only)Р Р D.I.N. Plug - Yellow wire not available (A-D + O only) Mandatory for cable lengths of 5m and above. Χ Μ S 0 0 0.3 m of 7/0.08 mm PTFE Leads (O only) Т 0 0 0.3 m of 7/0.125 mm PTFE Leads (K-N only) Χ Υ B.I.C.M. fitted (A-D + O only)XX = cable length in metres from transducer (to cable end, plug, electronics etc.) **

**Engineering approval is required for cable length of 10 m and above.

Please order Universal Joints, Springs and Ball Tips separately.

Universal Joint Kit

Form No:

502103

Axial Connector (AC types)

Consisting of two universal joints and mounting adapter (Note: guided carrier to be specified)

6-Pin Connector Kit Mach 1 - 125 °C - Part No. 802577-125 6-Pin Connector Kit Mach 1 - 200 °C - Part No. 802577-200

φ6 mm - Part No. 802967 φ8 mm - Part No. 802578 Optimum Part No. 804352

Ball Tip

3 mm diameter carbide ball and adapter to fit guided carrier - Part No. 803127 (Mach 1)

3 mm diameter carbide ball and adapter to fit guided carrier - Part No. 804619 (Optimum)

Spring Return

Return springs may be fitted to all the B1.5 to B125 guided carrier versions - Part No. 207181/B[stroke] Mach 1 Series Return springs may be fitted to all Optimum guided carrier versions - Part No. 208158/[stroke] Optimum Series

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YY = where applicable cable after Electronics (ie. B.I.C.M.) **