



AUSTRALIAN RAIL TRACK CORPORATION

INFRASTRUCTURE, STRATEGY AND PERFORMANCE

Engineering Standards and Documents

The following recommendation, together with attached supporting documentation, has been considered by the Manager Standards & Systems on 2nd February 2007.

Documents:

Ref No:	08-08-10-052 - Systems & Equipment Approval
Subject:	'ERICO' Rail Drilling and Bonding Tools
Dated:	22 nd January 2007.

Prepared By: Arthur Haberlin, Signal Engineer - Equipment
Endorsed by: Trevor Moore, Signal Standards Engineer

Items Considered for Approval:

Manufacturer:	ERICO Rail Electrical Products
Product:	Track bonding tools.
Item Identification:	See list 09-0611-037a

The items in the form they were presented at the review date were approved for System & Equipment Approval to be used on all ARTC jurisdictions in accordance with the manufacturers published performance criteria and subject to the following.

Relevant ARTC Specifications:

Ref. No.	Title	Status	Date
SCSP 02	Environmental Conditions	Issue 1 Revision 2	May '05
SC 02 01	Installation of Equipment Racks & Termination of Cables and Wiring	Issue 1 Revision 3	October '06

Specific Conditions of Approval:

No conditions of approval.

Certificate Issued to:

ERICO Products Australia
6 Chilvers Road
Thornleigh
New South Wales 2120

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval.

Approved for use in the ARTC.



John Cowie

APPROVAL No: 08-08-10-052

Manager Standards & Systems

Approval Date: **2nd February 2007**



AUSTRALIAN RAIL TRACK CORPORATION LTD

Ref No: 09-0611-037a

Date: 22nd January 2007

System & Equipment Approval

Subject: 'ERICO' Rail drilling & bonding tools

The following lists the individual items (by catalogue number) of Rail drilling & bonding tools manufactured by ERICO which are approved for use in signalling circuits on ARTC infrastructure under System & Equipment Approval Certificate 00-00-10-052 subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual items.

Part No.	System	Description	Conditions of Use
Stud-Weld Mould Tools			
SBC105C	CADWELD	T-21 Rail mould clamp connector frame.	
MFU11032	CADWELD	Magnetic handle clamp.	
SBT320	CADWELD	Flint ignitor	
SBB32130	CADWELD	Flint ignitor with extension handle.	
PLUSCU	CADWELD Plus	Ignition Control Unit	
PLSCULD	CADWELD Plus	Replacement cable 4.6m	
PLSCULD15	CADWELD Plus	Replacement cable 15m	
Mechanical Bonding Tools			
<i>ERICONTACT system</i>			
715345	All SK..	HSKE manual Insertion Tool.	
715218	SK8	Hydraulic head adaptor.	
715216	SK8	Mandrel.	
715215	SK19 / SK22		
716338	SK8	Extraction bush / mandrel.	
716336	SK19 / SK22		
716540	SK8	Test-gauge.	
715645	SK19		
716542	SK22		



AUSTRALIAN RAIL TRACK CORPORATION LTD

Part No.	System	Description	Conditions of Use
Rail Drilling Machine			
715685		SBM-VS Rail drilling machine.	
715360	SBM-VS	BSK-1 Rail clamp.	
715375	SBM-VS	Coolant tank with pump.	Spare parts only, set supplied with SBM-VS machine
715695	SBM-VS	Metal case.	
715395	SBM-VS	Tooling set.	
Rail Drill accessories			
716315	SK 8	SSB 8 drill	Cooling adaptor suitable for all above drill sizes.
716074		ASB 8 mounting adaptor	
716320	Siemens axle counter	SSB 13 drill	
716185	SK19	SSB 19 drill	
715520	SK8 / SK19	ZSP cooling adaptor	
715305	SK22	SBHM 22 drill	For hollow core drill.
715660		83mm Cooling pin	
715075	SBM-VS	LR-1 Coolant	Concentrate to be mixed (7%) with water.
Rail Drill Gauges			
715365	SBM-VS	Rail web neutral axis bonding height template.	Adjustable gauge for various rail sections.
715542	SBM-VS		For AS60 rail section.
715545	SBM-VS		For AS50 & AS53 rail section.
716534	Frauscher	Axle Counter head mounting inter-hole distance gauge.	Drill diameter to suit Axle-Counter manufacturers' installation requirements.
716527	Siemens		Use 13mm diameter drill.
715537	Axle counter systems	Axle Counter head height template.	For UIC60 rail section.
715526			For AS53 rail section
715527			For AS60 rail section