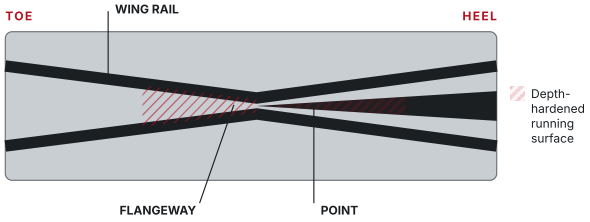
AREMA MANGANESE TRACKWORK CASTINGS

RAILWAY FROGS

Rail-bound manganese frog inserts and trackwork castings in ASTM A128 Grade A to AREMA Plan 100, Section M2. Machined, inspected and depth-hardened before shipment.

PROPERTY	SPECIFICATION
MATERIAL	
Material	Austenitic manganese steel, ASTM A128 Grade A
Chemistry (wt%)	C 1.00–1.30 · Mn 12.0 min. · Si 1.00 max. · P 0.07 max.
Heat treatment	Solution-treated and water-quenched to ASTM A128
STANDARDS	
Casting standard	AREMA Manual for Railway Engineering, Portfolio Plan 100, Section M2 (latest issue)
Casting integrity	High-integrity castings per AREMA Section M2.5.4
Visual acceptance	Per AREMA M2.5: free of hot tears, cracks, cold shuts and other injurious defects; no damage on machined surfaces
Radiography	Radiographic testing (X-ray) to AREMA specification, Level 2 acceptance
MACHINING AND HARDENING	
Machining	Profile-machined to customer drawing and revision in Calgary
Dimensional	Critical features CNC-probed against the drawing; dimensional report per serial number
Surface hardening	Running surfaces explosion depth-hardened after machining
TRACEABILITY AND DOCUMENTATION	
Marking	Unique serial number and Foothills reference on every casting
First article	First complete insert of each design submitted for inspection and approval
Documentation	Inspection & Test Plan, heat chemistry, visual and RT reports, dimensional report, hardening record
Typical products	RBM frog inserts (#9, #11), #15 frog castings for 136 lb rail, other trackwork castings to drawing



Requirements shown are typical. The purchase order, customer drawing and the AREMA issue it references govern each order.

REQUEST A QUOTE

Send the frog drawing, revision and quantity, and we'll confirm price and lead time.

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