

TECHNICAL SPECIFICATION

WHITE GILL THRUSTER UNIT 24T3S

UNIT SIZE	24" Nominal Bore
UNIT TYPE	T3S VERTICAL SHAFT
ROTATION	Counter clockwise when viewed from thruster rotor shaft drive connection.
MAIN BODY SHELL	Fabricated mild steel BS4360-43A and BS3100-A1 (BS592-A).
MAIN BODY CASTINGS (Non-Structural)	Meehanite nodular iron Grade SF to BS2789-27 / 18% modified elongation.
ROTOR	24" o/d, 4-blade, .85 p/d nickel-aluminium-bronze to BS1400-AB2.
ROTOR SHAFT	Mild steel to BS 970 Grade 070M20. Fitted with stainless steel sleeves in way of internal bearing and gland and fully protected between sleeves for sea water service with glass fibre & resin bandage.
STEERING SHAFT	Ditto as rotor shaft.
DEFLECTOR STUB AXLE	Steel forging to BS 970 Grade 080M40 Condition "R".
GEAR WHEEL	Phospher-Bronze to bs1400-PB2C.
PINION	Nickel-alum-bronze to BS1400-AB2.

Bearings:

R.S. EXTERNAL	Oil lubricated spherical roller thrust. Oil lubricated spherical roller radial. Pressure feed lubrication system interlocked into drive start sequence, with electric pressure pump, lub. oil tank, filter, switches for low pressure alarm and shutdown, pressure gauge and high temperature alarm.
R.S. INTERNAL	Water lubricated rubber or synthetic Orkot TL/M.
S.S. INTERNAL	Water lubricated synthetic Orkot TL/M.
S.S. EXTERNAL	Grease lubricated spherical roller.
DEFLECTOR	Pre-packed grease lubricated taper roller thrust.
ROTOR SHAFT GLAND	Stuffing box with Beldam Pilot Sternpack 2010 packing.
AIR VENTING	Shipyard supply in sea chest, minimum 25 mm bore, with shut-off valve, piped overboard.
CATHODIC PROTECTION	14 off 230 x 75 x 50 galvalum alloy.

Painting

EXTERNAL (Exposed To Sea Water)	Shot blast preparation then to suit hull paint specification or Tees standard Epilux High Build 218.
INTERNAL (Balance Of Thruster)	Tees standard or to Customer requirements.
INLET GRATINGS	Fabricated mild steel (30 mm bar spacing), supplied by shipyard, free water intake area 0.74 m ² minimum.
MAX. STEERING TORQUE	20.6 Kg.M (149 lbf.ft.)
DRY WEIGHT (approx)	2.25 Tonnes

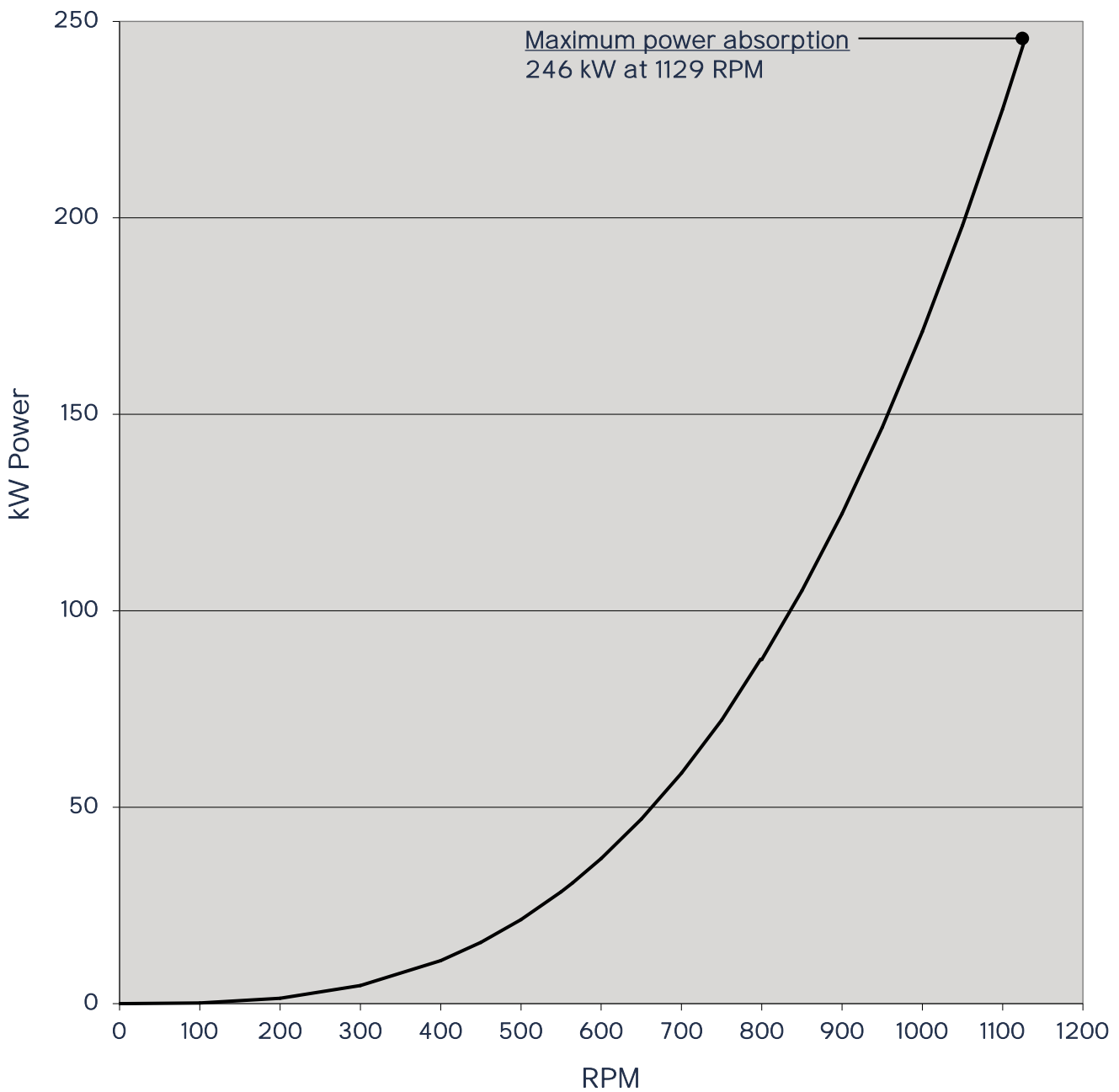
Tees White Gill Thrusters (a product of Tees Components)
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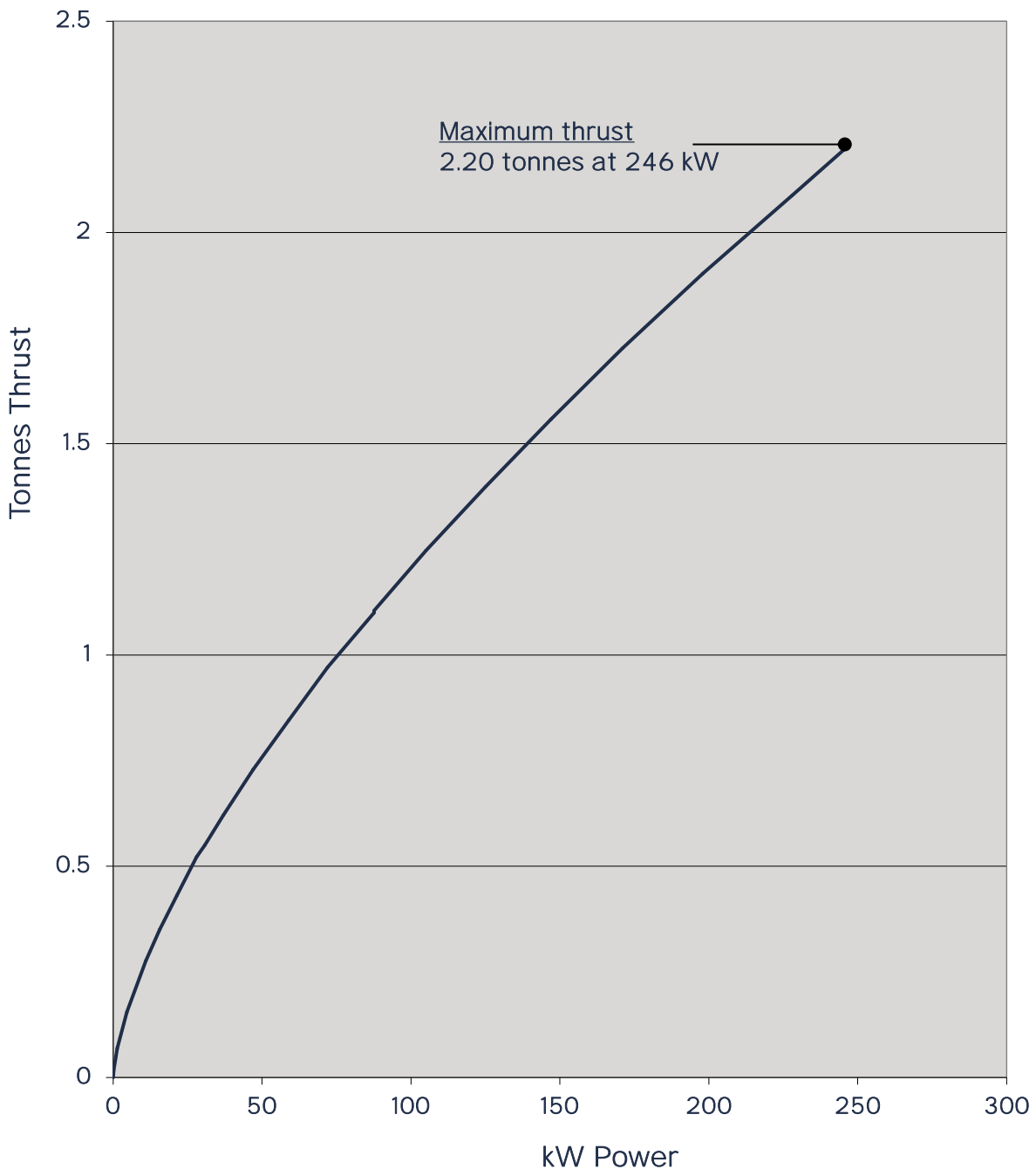
360° PUMP-JET THRUSTERS
SINCE 1922

POWER - SPEED CURVE 24T3S THRUSTER



360° PUMP-JET THRUSTERS
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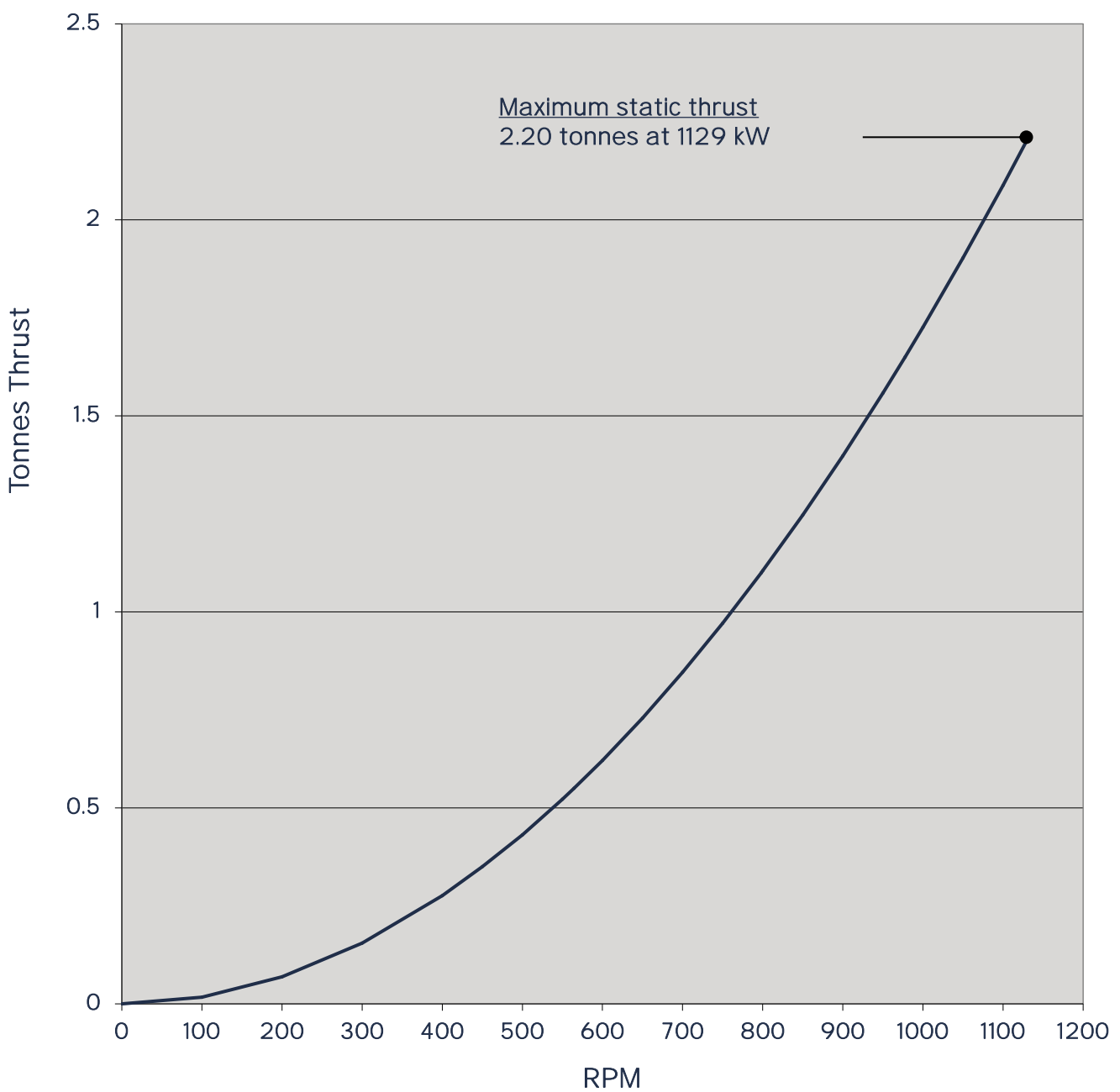
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DYNAMIC THRUST CURVE 24T3S THRUSTER

