TWIN DISC

Arneson Surface Drives

APPLICATION WORKSHEET

OWNER

Name: _____

Company: _____

Address: _____

_____

_____

Telephone: ( ) _____

Fax: ( ) _____

OWNER'S AGENT _____ Architect/Designer

_____ Builder _____

_____ Other _____

Name: _____

Company: _____

Address: _____

_____

_____

Telephone: ( ) _____

Fax: ( ) _____

VESSEL TYPE

Builder: _____

Model: _____

_____ Private

_____ New Construction _____ Commercial

_____ Conversion _____ Government

_____ Fiberglass Composite _____ Aluminum

_____ Other Composite _____ Steel

_____ Wood

_____ Planing Deep V

_____ Planing low deadrise

_____ Planing cathedral

_____ Multi-hull _____ Tunnel

_____ Semi-planing _____ Step(s)

_____ Surface Effect _____ Trim tab(s)

_____ Displacement _____ Rocker Plate(s)

_____ Yacht _____ Ferry

_____ Sportfisher _____ Crewboat

_____ Dayboat/Skiboat _____ Military/Patrol

_____ Raceboat _____ Police

_____ Sail/Motorsailer _____ Fire

_____ Utility _____ Landing Craft

_____ Other _____ Cargo

Rep: _____

Application Worksheet for:

_____ Owner

_____ Owner's Rep

_____ Arneson Marine, Inc.

By: _____ Date: _____

VESSEL DATA

Length waterline		ft/m
Length waterline		ft/m
Beam, max		ft/m
Draft		ft/m
Displacement(light)		lb/tibs/m.tons
Displacement (normal operating)		lb/tibs/m.tons
Longitudinal centre of gravity (forward from transom)		ft/m
Beam, chine max.		ft/m
Deadrise, at max, chine beam		ft/m
Beam, chine at transom		ft/m
Deadrise, at transom		degrees

***For Catamarans Type Hull see page 2**

PROPULSION DATA

No. Engines _____ Engine Type _____ Diesel _____ Gasoline _____ Gas _____ Turbine

Rotation _____ R _____ L

Engine Manufacturer: _____ Model: _____

Engine Ratings:

Maximum Power (per engine) _____ hp/kw/m.hp at _____ rpm

Max. continuous power _____ hp/kw/m.hp at _____ rpm

Gearbox Manufacturer: _____ Model: _____

Reduction Ratio: _____ :1 Ouput reduction _____ R _____ L

Propellor: _____ (diameter) X _____ (pitch) in./mm

No. Blades _____ rotation _____ R _____ outboard _____ L _____ inboard

Manufacturer: _____ Style: _____

DESIGN SPEED

_____ Light Disp. _____ Max. Power

_____ Normal Disp. _____ Cont. Power _____ Kts/mph/kph

_____ Light Disp. _____ Max. Power

_____ Normal Disp. _____ Cont. Power _____ Kts/mph/kph

INSTALLATION DATA

Transom angle		degrees
Transom thickness		in./mm
Transom radius		ft/m
Distance between engine centrelines		in./mm
Transom to gearbox flange		in./mm

Steering: desired turns, lock-to-lock _____

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PERFORMANCE REQUIREMENTS

Condition 1

Percent Operation _____ Speed: ____ kts/mph/kph

Displacement: ____ lb/tons/m.tons

Engine output: LCG: ____

_____ Maximum Rating

_____ Continuous

_____ Reduced power

Condition 2

Percent Operation _____ Speed: ____ kts/mph/kph

Displacement: ____ lb/tons/m.tons

Engine output: LCG: ____

_____ Maximum Rating

_____ Continuous

_____ Reduced power

Condition 3

Percent Operation _____ Speed: ____ kts/mph/kph

Displacement: ____ lb/tons/m.tons

Engine output: LCG: ____

_____ Maximum Rating

_____ Continuous

_____ Reduced power

Displacement and LCG determined by:

_____ Designer's Calculations

_____ Builder's Calculations

_____ Builder's Estimate

_____ Weighting on certified scale

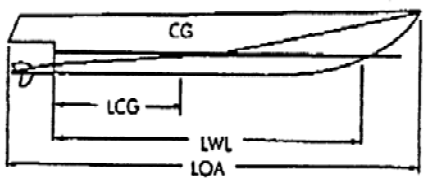
_____ Weighting on uncertified equipment

_____ Freeboard/draft measurements and hydrostatic calculations

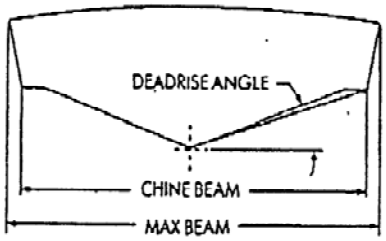
Comments

Notes:

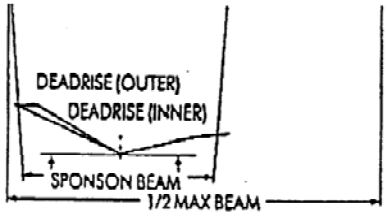
1. LCG is the longitudinal centre of gravity, measured forward from the lowest point of the transom. If there are multiple transom surfaces, use the lowest surface. If centre of gravity data is not available, AMI can calculate LCG and displacement from the lines plan and accurate flotation measurements (freeboards of drafts). Otherwise, AMI will estimate LCG based on date from similar vessels.
2. Right-hand propeller rotation is clockwise viewed from astern. Outboard rotation is starboad side right-hand, port side left-hand.



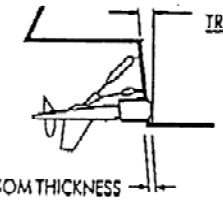
MONO HULL TYPE CONFIGURATION



CATAMARAN TYPE HULL CONFIGURATION



Beam, sponson max.		ft/m
Deadrise, max. sponson beam (INNER)		degrees
(OUTER)		degrees
Beam, sponson at transom		ft/m
Deadrise, sponson at transom (INNER)		degrees
(OUTER)		degrees



ELECTRICAL VOLTAGE: 12V 24V

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