

WHEN ONLY THE BEST WILL DO

TWIN DISC®

ROLLA



# CHOOSE ROLLA FOR ULTIMATE PROPELLER PERFORMANCE

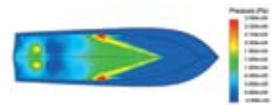
Since 1963 the name Rolla has been synonymous with the highest quality, most efficient propellers in the world. What started with Philip Rolla individually designing and crafting race-winning propellers has grown to become the leader in propeller technology for high-performance pleasure and commercial craft as well as military vessels.

## EXPERIENCE FORTIFIED BY SCIENCE

After winning every major international racing category over the course of two decades, Phillip Rolla officially founded Rolla SP Propellers in 1983 to focus on bringing that race-winning experience and expertise to a wider market.

In 2004 Rolla joined the Twin Disc family of marine products. Twin Disc offers boat designers and builders, engine manufacturers and boat owners and operators one source to satisfy all their propulsion needs.

Today, Rolla offers a wide variety of service for every aspect of propeller design, manufacture and application, from complete hydrodynamic analysis and engineering capabilities to computational fluid dynamic (CFD) hull analysis to sea trials.



Because of its incomparable design and application experience, Rolla has

an extensive proprietary database of propeller performance profiles. This invaluable information eliminates much of the trial and error approach required by other manufacturers, thereby saving you development costs and time yet assuring you of the best propeller performance.

## NOTHING LEFT TO CHANCE

All of our products and services are designed, developed and produced in-house, allowing Rolla to maintain tight control of every process, every step of the way. Our philosophy has always been to retain the most talented people and arm them with the latest technologies and equipment.

For each application, the propeller has a dedicated design and pattern. All the design codes are proprietary and are developed by our staff in-house. Our propellers can be designed to meet any classification register, including Lloyd's Register, ABS, RINA and others.

All Rolla propellers are dynamically balanced and geometrically comply with the "S" Class of ISO 484/2 standards. A full Computerized Measurement Machine (CMM) report can be supplied for each propeller for register purposes.

## ROLLA FULLY-SUBMERGED PROPELLERS

NiBrAl propellers in diameters from 24" up to 75", with power ranges from 500-4000 hp

Rolla-developed proprietary software, based on the panel method, is used to design our fully-submerged propellers. This software analyzes all possible shapes and inputs, including diameter, number of blades, skew, rake and more, to determine the best possible design for the application. A different Rolla designed CFD code is then used to fine tune the propeller load and detect any potential cavitation or flow problems.

## ROLLA SURFACE-PIERCING PROPELLERS

Stainless Steel propellers in diameters from 16" to 32", with power ranges from 250-1400 hp  
NiBrAl propellers in diameters from 28" to 65", with power ranges from 600-5500 hp

Our proprietary CFD software along with countless tunnel tests and thousands of successful applications provide Rolla with an unmatched technology database to use in the design and application of our surface-piercing propellers. We consider the lateral, vertical and horizontal thrusts combined with different diameter and pitch options to determine the optimum propeller for each surface-piercing application.



**AT ROLLA, WE FEEL OUR MAIN PRODUCT IS THE UNCONTESTED LEADERSHIP IN PROPULSION TECHNOLOGY.**

**ROLLA**





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LIKE NO OTHER

For more information, visit [www.twindisc.com](http://www.twindisc.com)



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