

# HS890 Tandem Hydraulic Dynamometer

## AVAILABLE FOR SALE

Will Be Factory Reconditioned to LIKE-NEW Condition with a 1-Year Warranty!

IDEAL SOLUTION FOR  
AERODERIVATIVE GAS TURBINE DEVELOPMENT TESTING



## AN AMAZING OPPORTUNITY THAT DOESN'T COME ALONG OFTEN

Shown above is a previously-owned HS890 Tandem Dynamometer System available for sale. Texcel VX200 software and control system is included as well as additional components. Contact Froude at [sales@froudedyno.com](mailto:sales@froudedyno.com) to discuss purchasing this state-of-the-art package at a competitive price. Additional photographs and details available upon request. **NOTE: Any offer made is subject to machine availability and contract.**

Model	Max Speed (RPM)	Torque Nm (lb.ft)	Power kW (BHP)	Curve Ref
HS890 Tandem	6,900	100,000 (73,800)	56,000 (75,100)	M015969

### IMPORTANT NOTE:

OEM manufacturers warranty available.\*  
OEM installation, inspection and commissioning available.\*

\*Subject to conditions.

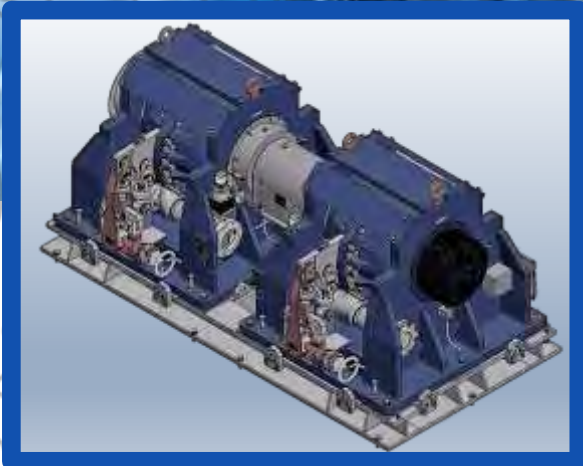
### Further information:

Froude Inc., 41123 Jo Drive, Novi, MI 48375  
USA +1 248.579.4295  
[sales@froudedyno.com](mailto:sales@froudedyno.com)

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*The Ideal Solution for  
Aeroderivative Gas Turbine  
Development & Testing.*

## The HS890 Tandem Hydraulic Dynamometer



**A dynamometer  
that can handle  
some of the world's  
largest turbines**



**The most recognized engine-testing  
brand for over 145 years.**

### **A DYNO RATED FOR TESTING**

**56,000 kW | 6,900 RPM | 100,000 Nm**

APPLICATIONS RANGE FROM TESTING INDUSTRIAL AND MARINE GAS AND STEAM TURBINES AND MODULE TESTING OF AIRCRAFT GAS TURBINES IN MANY APPLICATIONS INCLUDING RESEARCH AND DEVELOPMENT, PRODUCTION, AND REPAIR.

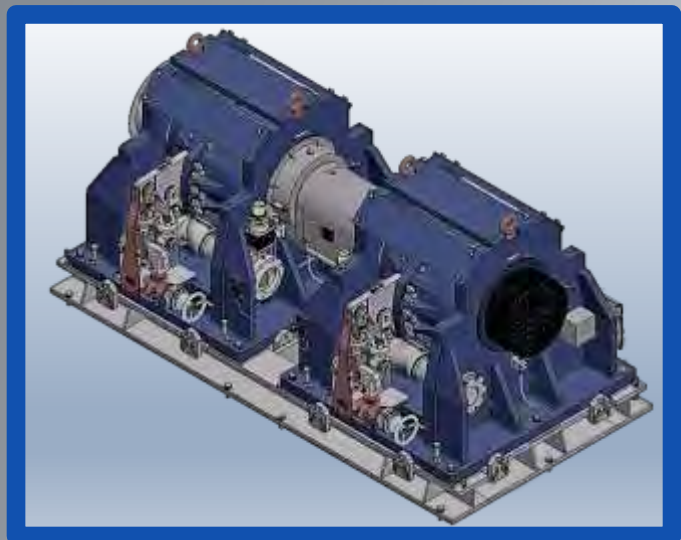
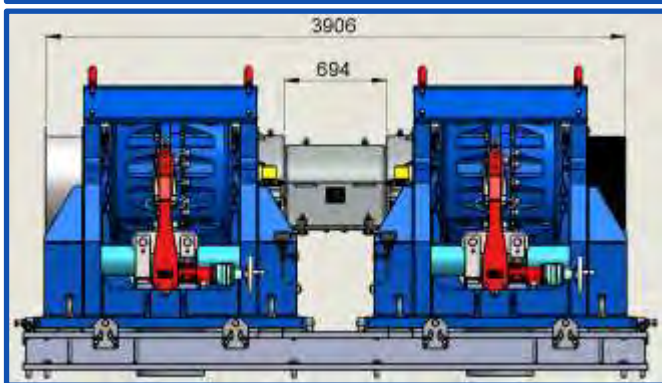
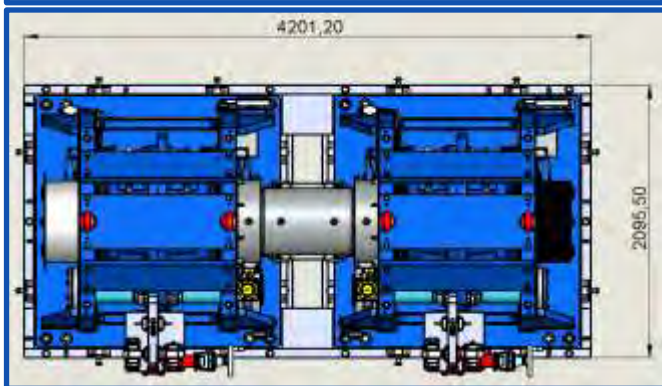
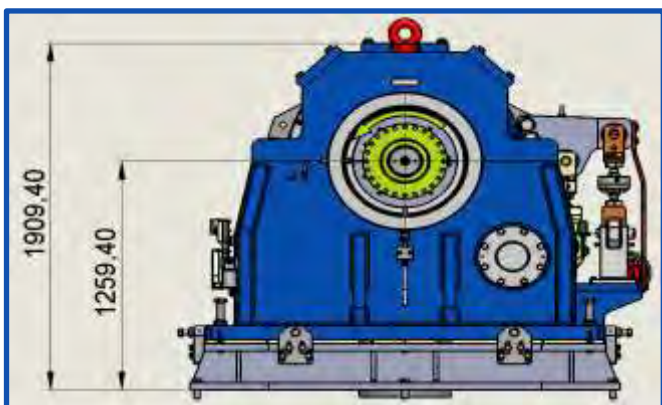
THE SYSTEM IS DESIGNED TO PROVIDE A HIGH QUALITY, EASY-TO-USE TEST SOLUTION AT A COMPETITIVE PRICE.

COUPLED WITH OUR TEXCEL VX200 CONTROL SYSTEM, YOU WILL HAVE A STATE OF THE ART, HIGHLY FLEXIBLE TEST SYSTEM.

# The HS890 Tandem Hydraulic Dynamometer

The Froude HS890 tandem hydraulic dynamometer is rated up to 56,000 kW; 100,000 Nm and has a maximum continuous operating speed of 6,900 rpm. The Tandem system comprises two single HS890 dynamometers, each one rated at 28,000 kW and mounted on a fabricated base frame. The dynamometers are mechanically connected via a drive shaft enclosed within a personnel safety guard.

The Texcel VX200 control system will control the dynamometers as a tandem system only and will balance the load absorbed equally between the dynamometers.



## STANDARD FEATURES

High accuracy strain gauge torque measurement system

Twin electro-magnetic speed sensors

Two half couplings

Low inertia

Servo electro-hydraulic controlled water inlet and outlet valves.

Forced oil lubricated rolling element shaft bearings Grease lubricated rolling element trunion bearings Water inlet pressure switch

Water inlet pressure transducer

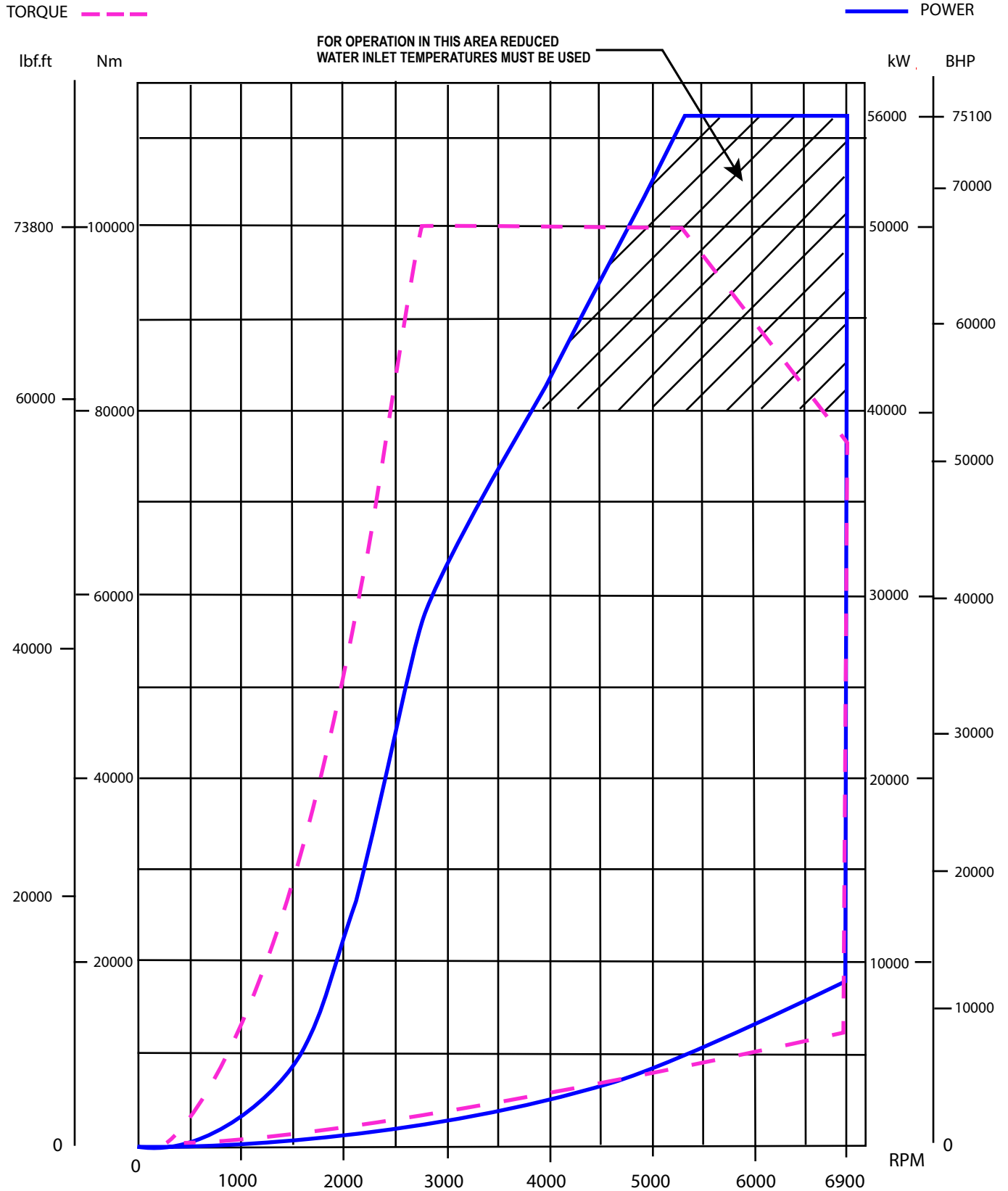
Water inlet and outlet valve failsafe system

Water inlet and outlet thermocouples (Type K)

Shaft bearing thermocouples (1 type K installed in each bearing)

Two hydraulic power packs supplied on a frame designed for floor mounting complete with integral drip tray


# FROUDE TANDEM HS890-2 HYDRAULIC DYNAMOMETER



THIS CURVE SHOWS THE COMBINED DUTY OF BOTH DYNAMOMETERS

MAXIMUM WATER INLET TEMPERATURE 91°F/33°C  
 MAXIMUM WATER OUTLET TEMPERATURE 160°F/71°C

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**HYDRAULIC DYNAMOMETER  
 TANDEM HS890-2  
 POWER AND TORQUE CAPACITY  
 DIAGRAM**

**NOTE:** FOR ILLUSTRATIVE PURPOSES  
 PER DRAWING NO: M015969  
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