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News Release

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Nabtesco receives order for Rack & Panel (high voltage power unit) for Boeing 787

Nabtesco Corporation (headquarters: Minato-ku, Tokyo; President & CEO: Kazuyuki Matsumoto) is pleased to announce that it has received an order from major US aircraft equipment maker Hamilton Sundstrand for a high voltage power unit (hereinafter referred to as "Rack & Panel") for the next-generation passenger aircraft Boeing 787, set to be put into service in 2008. The sales volume is expected to reach approximately 20 to 30 billion yen over the span of 20 years starting from 2007 when the first delivery will be initiated.

While Nabtesco's aircraft equipment business has established a track record as one of the world's leading suppliers of flight control systems, this represents a new foray into the field of electrical systems.

The 787 came out of the "more electric" design concept being promoted by Boeing, in which parts that had conventionally been driven by hydraulic, pneumatic, or mechanical means are powered electrically in order to reduce aircraft weight and increase efficiency, as well as further enhancing reliability. The new aircraft requires approximately four times the electrical power of Boeing's flagship midsize passenger aircraft, the 777, making a high output power system a necessity. The challenge, however, was to make the power system more compact and lightweight.

The Rack & Panel, developed in collaboration with Hamilton Sundstrand, acts as a power distribution and a unit for cooling equipment, compactly consolidating the auto-transformer rectifier units (ATRU) and the motor controllers for devices like the motor starting generators for the main engine and auxiliary power unit (APU), which had been arranged separately in conventional power systems. The consolidation of these devices also reduces the amount of necessary wiring, making the aircraft more lightweight and contributing to ease of maintenance.

The following is an overview of the product.

[Name] 787 High Voltage DC Rack & Panel

[Features]

- Consolidates the ATRU (2), large motor controllers (4), and small motor controllers (2) into the unit
- Uses the included ATRUs to convert AC 230V to DC $\pm 270V$, distributing the power to the motor controllers
- Uses liquid cooling to cool each of the ATRUs and motor controllers

- Connects the included devices without wires

[Specifications]

- Dimensions: 120×165×47(cm)
- Weight: 140kg (approx. 600kg with the installation of ATRU and motor controller)
- Power Output: up to 300kVA/unit

[Comments]

- Two Rack & Panel units will be equipped on each aircraft.

■ Overview of Hamilton Sundstrand

[President] Dave Hess

[Headquarters] Windsor Locks, Connecticut (USA)

[Revenue] US\$ 3.9 Billion

[Employees] 16,092 (as of the end of 2004)

[Business Description]

One of the world's leading aircraft equipment makers, designing power generating systems, air conditioning systems, flight systems, and other systems, as well as engaging in product development and manufacturing.

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