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The Venus Motor

TELE **SATELLITE**
AWARD & BROADBAND
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VENUS MOTOR
Sturdy motor for use
with large dishes

Large dishes require a heavy motor – the Venus motor of Subur Semesta from Indonesia tested on a Venus dish

Most large satellite antennas are motorised, because using such a big construction to focus on a single satellite position is not economical enough. Making a large dish a motorised dish thus makes sense to receive signals from a number of other satellites as well. The fact that the C band offering on most positions is rather limited also contributes to that.

For VENUS branded satellite dishes made by Indonesian manufacturer PT. Subur Semesta and presented in TELE-satellite issue 09/2008 the company also offers a dedicated heavy-duty motor. By way of a geared chain the motor rotates the antenna mast. This construction system allows moving dishes with large mounts, which directly translates into much better wind resistance. After all, these motors must resist the frequently violent storms in Indonesia.

The motor is connected with four wires to a receiver with 36-Volt actuator socket, such as the Venus New Millennium II-EP, which was presented in the previous TELE-satellite issue 11/2008. This receiver allows saving up to 60 satellite positions, which is more than sufficient for a large dish.

We particularly appreciated the fact that the Venus motor system allows rotating the dish for a complete 180° angle, which is also more than enough for standard installations.

At our test location in Lyon, in southeast France, we were only able to test a 130° angle in a real life setup, which means we were able to go from INTELSAT 9 at 302° East (58° West) to INTELSAT 4 at 72° East.

Fully mounted motor with a **VENUS** dish, which also produced by PT. Subur Semesta. ■



■ Motor from PT. Subur Semesta with chain transmission from the gearbox to the axis





■ Thanks to a water level with magnetic holder, which is also part of PT. Subur Semesta's product range, the motor can be exactly aligned very easily.

The motor needed 57 second to complete this arc. With a 0.42 A at 230 Volts power consumption is kept at a reasonably low level.

PT. Subur Semesta offers this motor as a suitable alternative for large dishes. It combines great stability with large wind resistance.



■ The Venus motor is able prove its worth close to the equator: shown on the picture is the installation of the Venus motor at the SatcoDX AutoScan station in Pontianak (Kalimantan Barat province) in Indonesia.

Expert opinion

- + Easy assembly and installation
- No user's manual, previous technical knowledge is required for installing dish motors



Sylvain Oscul
TELE-satellite
Test Center
France



■ With the Venus New Millennium II-EP receiver all satellite positions can be saved. A professional measuring device is then used for fine-tuning the antenna alignment.



■ SatcoDX AutoScan manager Vincent Witjhun with his son in front of the fully assembled motorised Venus dish in Indonesia.