

**NOVA**

applications

The new NOVA is a heavy-duty X-Ray Tube Overhead Support System characterized by its simple and functional design. With its new light weight design, the NOVA guarantees highly precise positioning for an optimal radiographic result.

Thanks to its vertical and horizontal displacements, the NOVA can cover almost all the volume of the room in which it is installed.

The new NOVA support system can operate on an horizontal or vertical bucky, or be installed with an elevating table.

NOVA**specific features**

- Sound and robust appearance.
- Light weight design.
- Positioning precision and speed. Servo positioning system. Fully electronic self positioning as an option.
- Light weight telescopic column design with 4 independent parts guided by a high precision alignment mechanism for a smooth and quiet operation. This rigid and durable design reduces instability and vibration to the minimum, to facilitate precision in positioning.
- Optimal mechanical balancing system for manual movements with almost no efforts.
- Optional automatic system with full servo electronics for balancing and positioning. Parking feature for user and patient convenience.
- Plug in and modular electrical assemblies to facilitate its installation, calibration & maintenance.
- X-Ray support with 360° for horizontal rotation and 270° for vertical rotation.
- Safety devices including negative locks on horizontal rotation and vertical rotation (or angulation).
- Ergonomic design
- Ease of operation with all controls and switches grouped in a unique control unit.
- Electronic tomography option.
- Two different types of Consoles: standard with SID and Rotation display and touch screen console for the Automatic systems.

NOVA**specifications**

The NOVA consists of:

Ceiling Rail System

It is made up of aluminium fixed rails (assembled in the ceiling) and of a bridge that moves longitudinally along the rails.

Longitudinal rail lengths range from 3358 mm. (132.20") to 6000 mm. (234.0") in steps of 660.4 mm (26").

Transversally, the rails are from 2000 mm. (78.0") to 3000 mm. (135.82") in steps of 250 mm (9.8") and with longer rails of 3490 mm (137.4").

The bridge movement along the rails is controlled by an electric brake (coil and/or motor). In the absence of feeding voltage, the movement is free.

The maximum transversal travel is 2401.1 mm. (95")
The maximum longitudinal travel is 4866 mm. (192")

and the maximum longitudinal travel is 4866 mm. (187.60").

Telescopic Column

The telescopic column allows the tube vertical track (VERT).

Its movement is either motorized for standard suspensions or assisted motorized in automatic configurations.

The vertical travel is 1600 mm. (62.99").

The minimum distance Focus-Ceiling is 715 mm. (28.15") and the maximum distance is 2335 mm. (91.93").

Tube Support and Tube

Tube rotation (Beta): the tube can turn around the vertical column $\pm 180^\circ$ with detents every 45° .

Tube Angulation (Alpha): the tube can turn around the horizontal axis $\pm 135^\circ$ with detents every 45° .

Depending on the model they can be automatic or mechanical detents.

NOVA**suspension models**

The NOVA is available with the following suspension options:

Manual

In this model, the angulation and rotation brakes, or locks, are electromagnetic, and remain ON even when the system is OFF. The electromagnetic longitudinal and transversal locks remain ON only when the system is ON.

The vertical axis operates with a motor that expands or contracts the telescopic column and at the same time, carries out blocking functions.

Autotracking

The same as the manual suspension but it also allows an automatic alignment of the tube with the elevating table or vertical bucky detector.

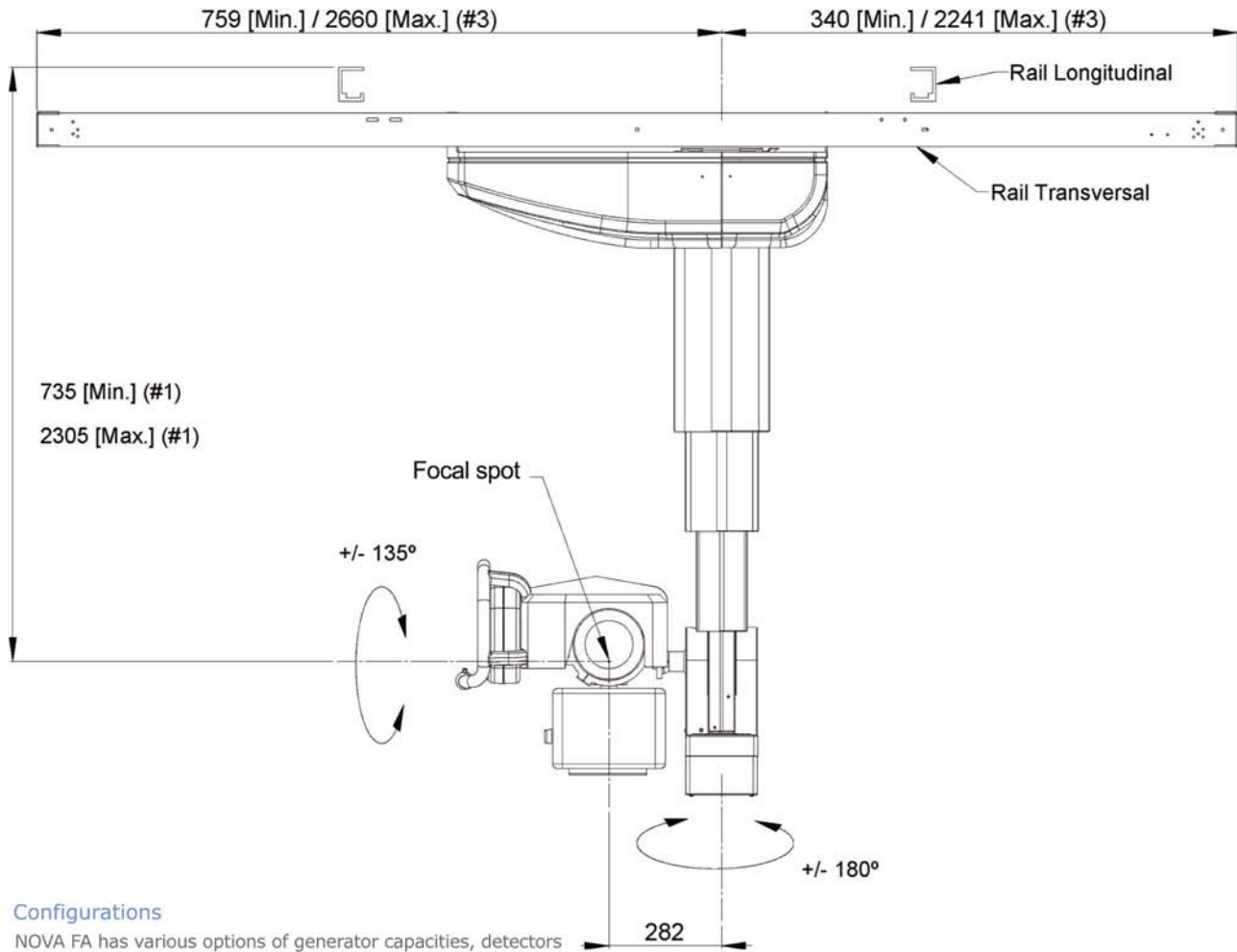
Automatic

In this model, the suspension can be used either in automatic or manual mode. In the automatic mode it has the following features:

- Autocentering with vertical bucky or table at a configurable SID.
- Dynamic autotracking in all the degrees of freedom (DOF).
- Autopositioning with vertical bucky or table, including oblique positions.
- Remote control from other device (ex. Generator)

X-Ray tube overhead support system





Configurations

NOVA FA has various options of generator capacities, detectors and set ups. Please write to us for specific requirements.

Power requirements

Power Supply Voltage (phase/neutral) 110 - 240 Vac + 10% + Ground.

Line Input Frequency 50/60Hz.

Maximum power: 600VA.

Weight

Its weight is 162 Kg (357.15 lbs) for manual and autotracking models and 172 Kg (379.19 lbs) for automatic model.

In all models, the weight of the tube & collimator assembly is 40-60 Kg (88-132 lbs), depending on the tube-collimator in use.

Warranty

The published company warranty in effect on the date of shipment shall apply. Right reserved to make changes.

Standards

This equipment has been designed to comply with CE marking, CSA, and UL.

Data subject to change without notice.

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