



HS-Group GmbH
Innovative Vacuum Technology

Member of **V** VON ARDENNE Group



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FLEXIBLE WEB COATING PLATFORM
NOVAWEB-SERIES

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HS-GROUP's innovative high vacuum roll-to-roll coating platform, known as NOVAWEB, effectively bridges the gap between productivity and adaptability, addressing the demands of both present and future markets.

The NOVAWEB stands as an ideal choice for both production and research and development (R&D) endeavors. Its remarkable potential lies in its ability to house up to twelve rotatable magnetrons and incorporate a wide range of in-situ measurement sensors. This unique configuration grants the machine exceptional productivity within manufacturing contexts while maintaining remarkable flexibility and versatility when employed for R&D purposes.

This versatility positions the NOVAWEB as the primary option for applications like ITO films, flexible printed circuit boards (FPCB), low-e coatings, and smart glass. Anchored by the proprietary rotatable magnetrons, the machine serves as a solid foundation for achieving high levels of productivity.

Furthermore, the NOVAWEB's optional gas separation capability between adjacent process sections facilitates the deposition of an extensive array of conceivable layer combination involving metals and dielectrics in a single pass.

Beyond its capacity to execute both reactive and non-reactive sputter processes, the NOVAWEB can be equipped with diverse in-situ sensors. These sensors enable continuous and precise monitoring of desired physical layer attributes such as resistivity, reflectance, and transmittance, enhancing the overall control and optimization of the coating process.

SCALABLE FROM
R&D TO PRODUCTION

UP TO 6 DOUBLE
MAGNETRONS FOR HIGH
QUALITY COATING

DEPOSITION OF
METALS AND DIELECTRICS

PLASMA
PRE- / POST-TREATMENT

SPUTTERING AND/OR
PECVD SOURCES

FLEXIBLE SPEED
CONTROL

IR-HEATER FOR
SUBSTRATE DEGASSING

INTERLEAF FEATURE
OPTIONAL

