NiVEL®

SMART MACHINERY

EQUIPMENTS FOR POWER TRANSFORMERS

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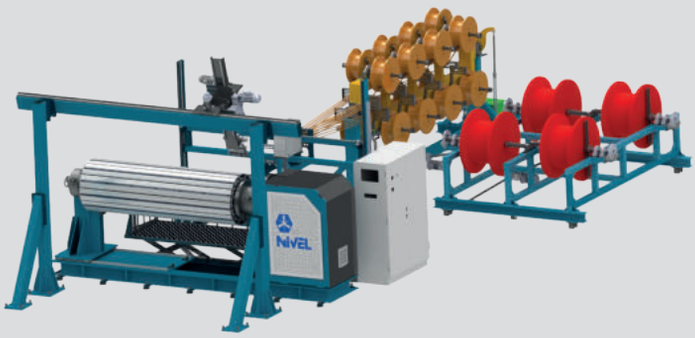
POWER TRANSFORMERS

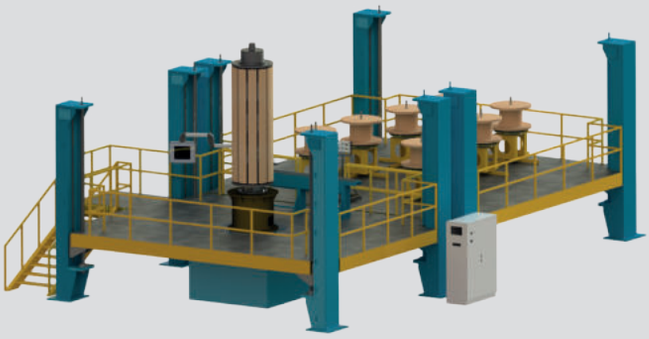
Power



HWM

Horizontal Winding Machine

The horizontal winding machine is designed for coil winding of power transformers. The machine has a rigid structure and it is easy to operate. The machine is controlled by an operating panel with a touch screen and a pedal which allows variable, stepless winding speed. It is suitable for winding all paper insulated flat and CTC wires.



VWM

Vertical Winding Machine Platform Type

The HMI-controlled semi-automatic vertical winding machine provides high-precision winding for flat or CTC conductors, featuring real-time process monitoring and an intuitive touchscreen interface. Its intelligent architecture automatically precalculates all stopping positions, ensuring superior accuracy, optimized cycle times, and consistent repeatability with minimal human error.

The machine is available in two configurations to meet different production requirements:

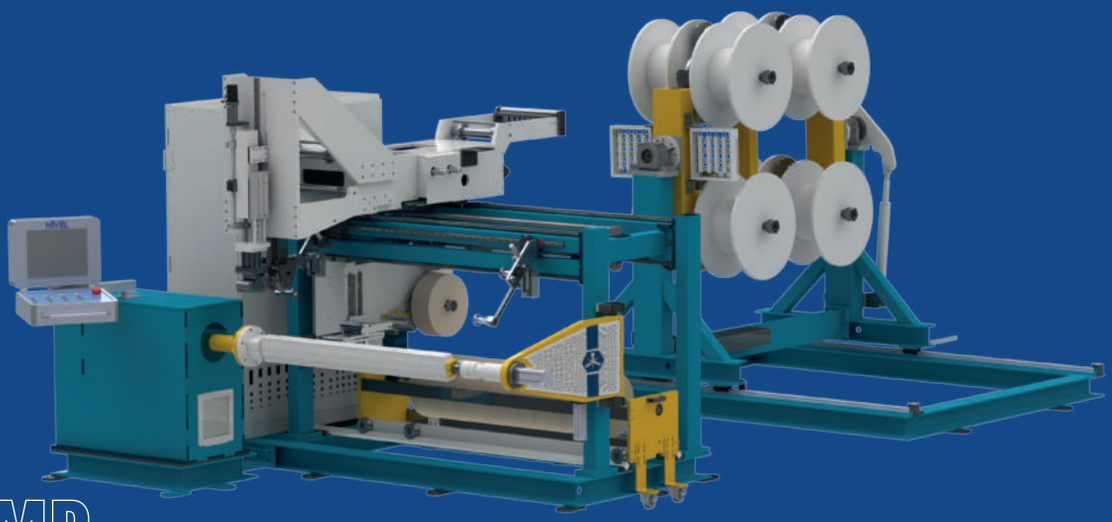
In the platform type version, the working platform height is automatically adjusted according to the coil build-up, ensuring optimal operator positioning at every stage.

In the pit-type version, the winding unit moves upward in synchronization with the process, enabling smooth and uninterrupted production flow.

Both solutions are engineered to deliver maximum operator safety, superior ergonomics, and high production efficiency.

MEDIUM POWER TRANSFORMERS

Medium Power



WMMP

Wire Winding Machine

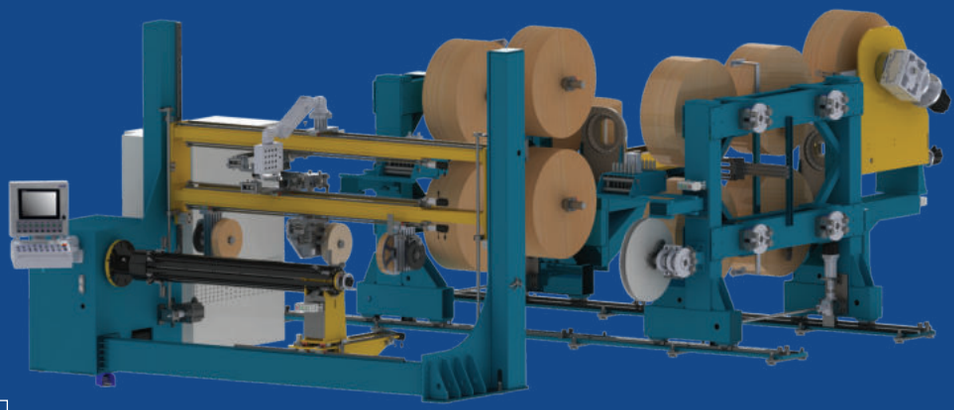
Traditionally, distribution transformers have been defined up to 3,500 kVA. Today, this limit has significantly increased, reaching levels of up to 7,200 kVA. At the same time, there is a rapidly growing demand for power transformers in the 10–20 MVA range.

However, existing production infrastructures are not fully aligned with this shift. In distribution transformer lines, these capacities become oversized and challenging, while in power transformer lines, they remain inefficient and underutilized.

Recognizing this gap, NIVEL has developed a new machine concept.

This innovative solution is specifically designed to optimize the production of large distribution transformers and small power transformers on a single platform. It enables manufacturers to achieve maximum flexibility, optimal capacity utilization, and higher return on investment.

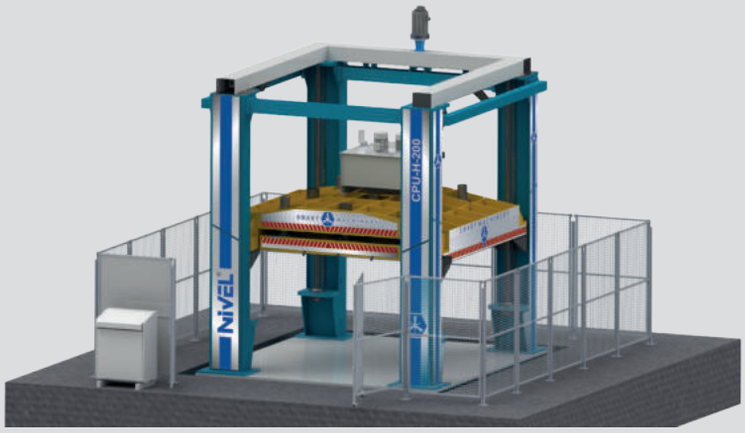
Furthermore, the machine supports next-generation transformer designs, empowering engineers with greater design freedom and enabling the implementation of new winding concepts.



TTWM

Train & Traction Winding Machine

The Train & Traction Winding Machine is designed for production of coils train and traction transformers, as well distribution and medium power transformers. Two wire guiding systems ensure to wind two windings in one coil of train and traction transformers. The system includes two wire-guiding systems, two end-fill strip units, and a strip insulation guiding system, all mounted on a height-adjustable frame. This frame can be locked in its highest position when winding disc coils or other medium-power transformer coils.



CPU-H

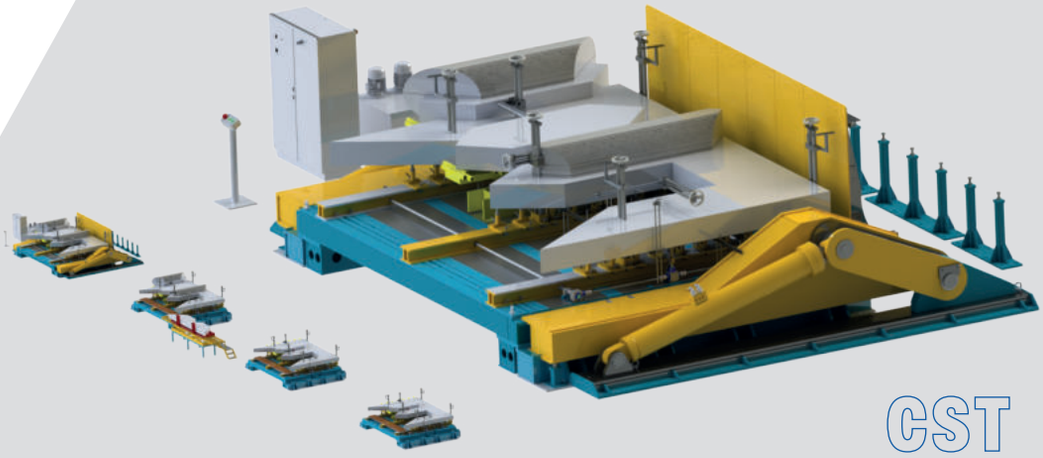
Coil Pressing Unit – Hydraulic

The Coil Press Unit – Hydraulic CPU-H is designed for pressing windings and active parts of transformers to a certain height, depending on the transformer design.

CBHU-V

The Core Bandaging & Heating Unit Vertical

The core bandaging % heating unit vertical is designed for bandaging and heating (baking) of tape on core legs in vertical position. The unit has a rigid structure, and it is easy to operate. The machine is controlled by an operating panel with a touch screen and remote control.



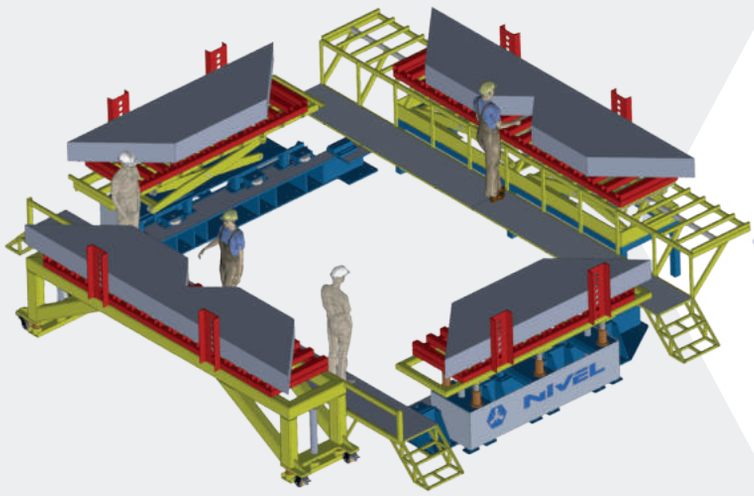
CST

Core Stacking Table 80-100 Tonne

The core stacking tables are designed for 80-100 ton transformer's core stacking with hydraulic upending. It has a rigid structure, and it is easy to operate.

POWER TRANSFORMERS *Technologies*

The system includes two height-adjustable yoke storage tables with integrated working platforms, positioned at the front and rear of the core stacking table. The front unit is side-moveable, allowing it to be retracted from the loading area to facilitate unobstructed transport of the stacking table via the air cushion system. These tables are designed for the organized storage of cut electrical steel laminations at optimal working heights. The integrated platforms ensure ergonomic operator access across the entire stacking area and provide seamless reach to the materials on the storage tables.



CST80-H

HYDRAULIC WORKING PLATFORM

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Nivel Grup Makine
Sanayi ve Ticaret A.S.
T: +90 312 395 49 80
M: info@nivel.com.tr
A: ASO 2. OSB Alcı Osb Mah.
2019 Cad. No:14 Sincan/ANKARA/TURKIYE