

STEINEMANN UPGRADES



***steinemann***

# Modifications to wide belt sanding machines

**Has your sanding machine seen better days? Bring it up to date with the latest sanding technology! Original Steinemann Retrofits can significantly boost the productivity of your existing sanding machine.**

Our in-house experts will be happy to advise you about the available modernization options for your sanding machine pool.

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# CUS Control Upgrade

**Thanks to a CUS control upgrade and additional retrofit options, stay efficient and safe into the future – with increased competitiveness.**

Modernize your installed base and increase your availability and productivity. With a CUS control upgrade for Satos, Nova-H, and NOVA-RSA machines, you benefit from the latest Siemens technology and innovative diagnostic functions. Various additional options provide greater process reliability and significant cost savings. Please note that the hardware for your installed control solution (operator panel/PLC control) for Satos, Nova-H, and NOVA-RSA machines is either limited or no longer available.

Take this opportunity now for a **hardware and software update!**

## Upgrade advantages

- Increase in machine availability
- User-friendly operation with comfort functions
- Latest Siemens device generation for maximum reliability
- HMI diagnostic pages to assist with fault diagnosis and troubleshooting
- Preparation of the machine for automation and additional options
- Improved remote maintenance and troubleshooting
- Securing service and spare parts supply

## Package contents

- Control software based on TSQ concept
- Siemens CPU S7-1517F
- Siemens Simatic Box IPC with large monitor (approx. 24"), keyboard/mouse and WinCC HMI Runtime Application

## Your additional options

- Integration of TSQ belt tracking: Automatic belt oscillation for faster start-up of the sanding line
- Motorized fine adjustment of contact drum and sanding platen: More comfortable and precise sanding process control leads to better sanding results
- Integration of sanding platen control (Rise-and-Fall platen): Avoidance of edge sanding, especially for thin boards (<6mm)
- Integration of bearing temperature monitoring and/or vibration measurement: Permanent monitoring of the sanding machine condition increases availability
- Modernization of feed components (frequency inverter): Latest device generation increases reliability
- Replacement of input/output modules (Siemens ET-200SP): Latest device generation with Profinet connection and extended diagnostic function
- Safety upgrade/replacement for discontinued PNOZmulti safety controller

**For Satos:**  
All additional options are possible

**For Nova-H, NOVA-RSA:**  
Options must be checked individually

## V-belt upgrade

**This retrofit replaces the flat drive belt on the sanding belt drive with a V-belt.**

### Benefits

Higher availability, since the drive belts no longer slip off even in the presence of sudden excess loads. Replacing the flat drive belt also simplifies resetting work after repairs and maintenance.

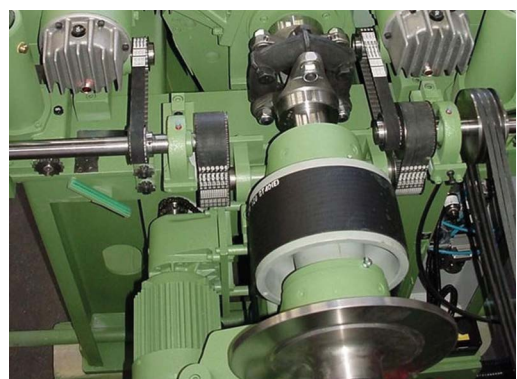
### Suitable for

- Nova
- Nova-S
- Nova-RS
- Nova-RSA

### Package contents

- V-belt pulleys/V-belt
- Taper lock
- New motor attachment
- Layshaft is partially assembled and supplied as follows: shaft, spacers, inner bearing cover, self-aligning roller bearing, V-belt pulley

**Please note:** Bearing housing, outer bearing cover, brake disc and clutch half are reused from the existing layshaft



# Guide roller upgrade

**The existing guide rollers with a diameter of 125 mm are replaced by guide rollers with a diameter of 145 mm.**

## Benefits

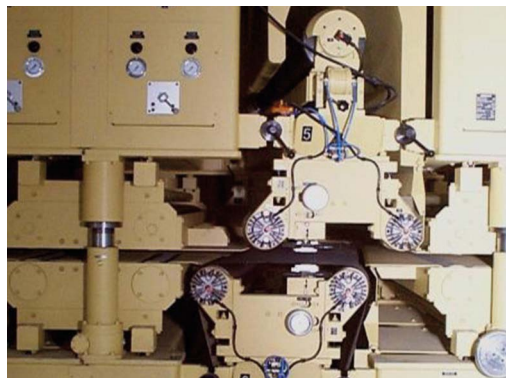
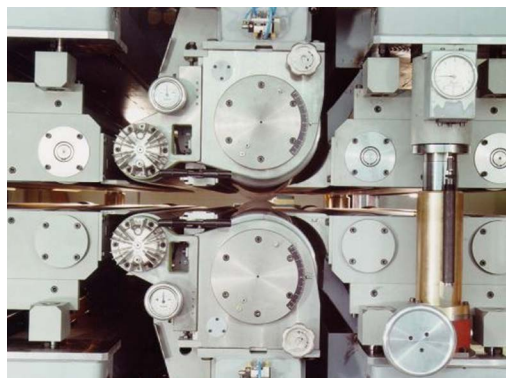
With the new bearing arrangement and the larger roller diameter, rotational speeds are lowered, which resolves mechanical problems. These lower speeds protect the bearings and therefore prolong their service life. Running costs are reduced thanks to the smooth and uniform sanding belt run.

## Suitable for

- Nova - S
- Nova - RS

## Package contents

- Guide roller (diameter 145 mm) with preassembled bearing arrangement
- Bearing housing
- Guide tongue



# Feed roll drive upgrade

**Conversion work involves removing the the countershaft drive and replacing it with a continuous layshaft with a flexible clutch. In addition, the worm gears are mounted at the top with the worm shaft.**

## Benefits

Elimination of the countershaft saves both repair time and replacement parts. Installing the worm gear with the shaft at the top avoids the potential for oil leaks to occur at the shaft seal.

## Suitable for

- Nova
- Nova-S
- Nova-RS
- Nova-RSA

## Package contents

- Layshaft
- Flexible clutches
- Seal kit
- Pillow block
- Sprockets
- Toothed belt (incl. small parts)

