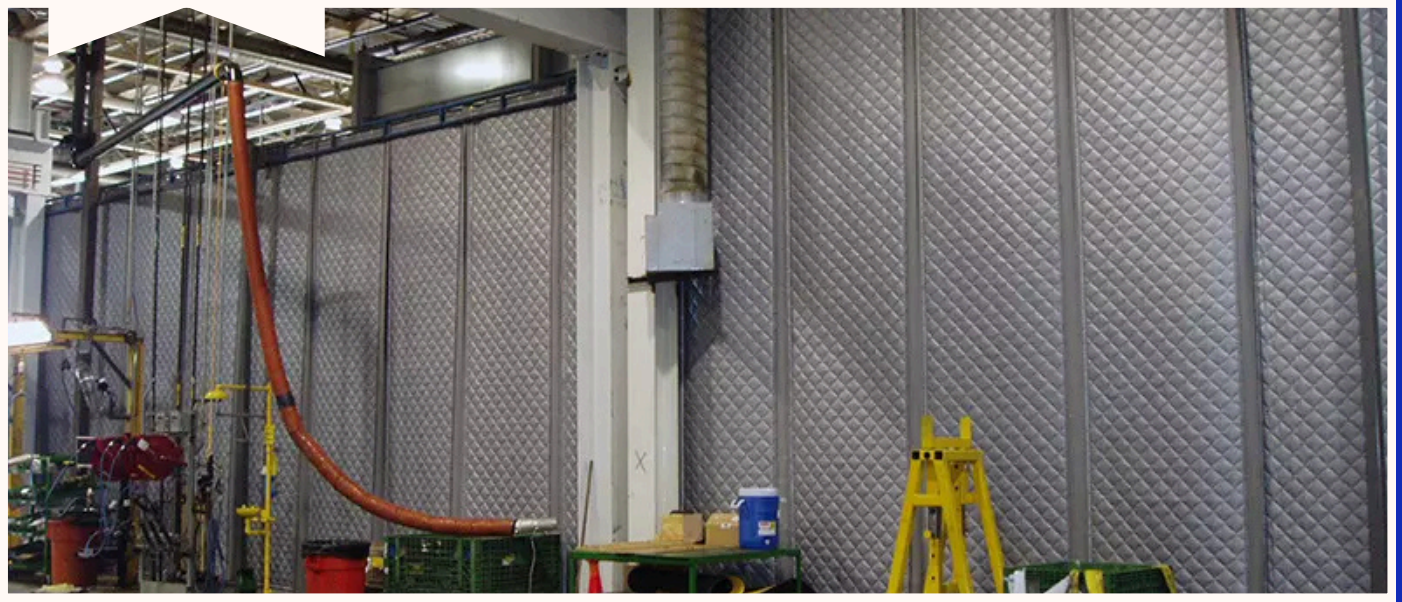




Soundproof ACOUSTIC BLANKETS



Dell Enhances Factory Noise Reduction with Industrial Soundproofing Blankets

Dell Technologies – A global leader in computer manufacturing, operating large-scale production facilities worldwide.

Challenges

Dell's high-tech manufacturing plants rely on automated assembly lines, stamping machines, and heavy-duty robotics to produce computers, laptops, and accessories. However, these machines generate excessive noise, causing several challenges:

- Workplace noise distractions that reduce employee productivity.
- OSHA noise compliance concerns, as sound levels frequently exceeded regulatory limits.
- Employee complaints about fatigue, communication difficulties, and concentration issues due to constant loud noise.
- Potential legal risks from non-compliance with industrial noise regulations and OSHA-approved soundproofing standards.

Without effective noise control, Dell faced significant operational inefficiencies and workplace safety risks.

Solution

To address the issue, Dell partnered with All Noise Control to implement an advanced industrial noise control strategy using high-performance soundproofing materials tailored for factories and large-scale production environments.

The following solutions were installed:

- Industrial soundproofing blankets were wrapped around stamping machines, robotic workstations, and other high-noise production areas to contain noise effectively.
- Removable soundproof panels with Velcro edges allowed maintenance teams to access machinery without compromising noise control.
- Fire-rated sound blankets ensured Class A fire-resistant soundproofing compliance, protecting workers from potential fire hazards.
- Portable soundproof walls were strategically placed to create flexible noise barriers, preventing excessive sound from spreading across the factory.
- Custom-fit acoustic blankets were designed specifically for Dell's equipment, ensuring an efficient and tailored noise control solution.
- Soundproof door coverings and door frames noise-blocking blankets minimized sound transfer between production areas and office spaces.
- Machine enclosure blankets were used to surround high-noise production equipment, effectively containing and absorbing sound.
- Heavy-duty noise-dampening blankets with extra-thick padding improved sound absorption and reduced echoes in large factory spaces.
- Chain link fence sound barriers were installed around exterior noise-generating areas, helping prevent noise from affecting surrounding locations.

Results

The installation of these soundproofing solutions led to significant improvements in workplace conditions and regulatory compliance:

- 40% noise reduction, creating a quieter and more productive workspace.
- Enhanced communication among factory workers, reducing errors in production.
- Full compliance with OSHA noise regulation solutions, eliminating the risk of fines and legal issues.
- Increased employee satisfaction and lower turnover rates, as workers experienced less fatigue and a more comfortable work environment.
- Higher workplace efficiency, with modular noise barrier blankets and removable noise-reducing panels allowing for adaptable soundproofing solutions.
- Improved warehouse soundproofing, ensuring minimal noise interference between different operational zones.
- Optimized factory noise control, helping Dell maintain a safer, regulation-compliant, and worker-friendly manufacturing environment.