

Case Study

Demag DR Pro Hoists with Simultaneous and Independent Hoists are the Ideal Solution for Handling Long Materials



Handling of long bulky materials has often been a challenge when the hoists and trolleys do not run at the exact same speeds. Typically when two independent hoists are operated in parallel, the differences in starting and stopping times of the hoists causes the hoist lift or trolley travel to not be synchronized.

Then after a short period of time, the operator has to turn one hoist on to move the load back to the level position or reposition the hoist or trolley. This slows the process and if the operator does not manually perform this leveling it can lead to uneven lifting and possibly lead to the load slipping.

The Demag solution takes advantage of encoder feedback on the hoist and trolley and canbus communication between the hoists to insure that when the hoists are in simultaneous operation that the hoist lifting and traveling are always synchronized.

In addition, with other solutions using conventional controls without feedback, one hoist overload may trip, turning the hoist off. But the other hoist can continue to lift.

*Smooth,
precise,
synchronous
lifting of long
materials
provides an
efficient and
safe operation.*

Features/Benefits Provided:

- **Exact synchronous trolley and lifting speeds insure safe lifting of long material.**
- **Communication between hoist overload devices insures that if one hoist is overloaded, the lifting will stop.**
- **Stepless variable speed control insures smooth travel and precise positioning of awkward loads.**

If the operator did not recognize this situation, it could lead to further overloading of the hoists or tipping of the load. **With the Demag Solution**, the internal communication insures that if one hoist is overloaded, then both hoists will stop.

Also, all **Demag DR Pro hoists** come standard with stepless variable speed control. Similar to the accelerator in a car, the harder you push, the faster you go. This feature gives the operator full control and is very helpful when lifting and positioning long materials.

The standard controls on the new Demag DR hoist are ideal for lifting applications that require simultaneous and independent lifting with the two hoists. They provide standard features and benefits that are not available from conventional parallel connection of two hoists. The result is increased throughput and improved operator safety.

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