



# The "Insider"



## SPOTLIGHT ON TIM CLASBY

Tim grew up and currently resides in Orland Park, IL, a southwest Chicago suburb. Tim played high school varsity baseball, and the Rose-Hulman Institute of Technology baseball coach saw him play at a "Showcase" tryout. Afterwards, the coach wrote Tim asking him to consider the school and to play baseball there. Tim did both, later, receiving his BSME.



Tim—"in concert"

Before joining AIM Machinery in June of 2009, Tim worked two years as a summer intern. He prefers working at a smaller company where one feels their contribution is more valued. Tim likes seeing equipment go from the "drawing board" to a manufactured assembly. In the future, Tim wants to have a greater role in both managing projects from start-to-finish and working more closely with customers.



Playing softball in a men's league and playing the piano are currently Tim's main hobbies. (He must be very good as he has played at several of his friend's weddings—see photo.) Tim also enjoys volunteering, and recently he participated in a *Relay for Life* fundraiser in his area. He wants to expand his volunteer work, and is now on a waiting list to help children at a local hospital. Also, if he can find the time, Tim would like to play golf someday.

## Major Considerations for Sizing Couplings

Industrial equipment often needs couplings to transmit power/torque from one rotating component to another. Listed below are some of the major considerations for sizing these couplings:

- Based on the particular application, select the type of coupling required. (A gear coupling is probably the most prevalent type of coupling used today.)
- Choose the appropriate service factor for the application. (Typically, service factors range from 1.5 to 3.0.)
- Utilizing given motor HP and RPM of the rotating component, calculate torque. Factor-up this torque based on the service factor chosen above.
- Select a coupling which is rated at a higher torque than that just calculated.
- Verify that the couplings' hubs can be bored large enough to handle the diameter of the shaft on which they will mount. Upsize couplings if required.

The above items represent some of the considerations when sizing couplings. Once again, we offer our disclaimer: Do not try these steps without one of AIM Machinery's qualified engineers.

## From the Corner Office by Mike Dolder, President

When a business experiences success, it typically results from more than just good decisions and hard work by its own people. In my mind, being successful also stems from having both great customers and supportive, reliable suppliers of purchased components. Today, I want to talk about our suppliers.

First and foremost, a purchased component must perform effectively, reliably, safely, and must be easy to maintain. Cost is irrelevant if a component does not meet these requirements. Once a component meets these needs, we then consider the commercial aspects of cost, delivery lead time, and the supplier's past performance in areas such as order accuracy and reliability.

Establishing a network of suppliers who meet AIM Machinery's needs on a consistent basis took considerable time and effort - it did not happen overnight. Later this summer, we will start our 15<sup>th</sup> year in business and our supplier relationships are now stronger than ever. One of the core beliefs of our company is the high value we place on having long-term relationships with our customers. We apply this same principle to our suppliers. When a piece of equipment is shipped, we need to be highly confident that it will perform as intended. We could not do this without the consistently effective support from our valued suppliers.



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**More AIM Machinery News:**

Paul J. Wojcik, P.E., was named Quality Manager, and is responsible for leading AIM's quality certification process. He also will continue as a Project Manager, splitting time between the two positions.

Nathan Jackson joined AIM in June for a summer internship. Next fall, he will be a senior at Rose-Hulman Institute of Technology, majoring in mechanical engineering. Welcome Nathan!

**Photos from Some Recent Projects**



Here's a Ducking-Dog Style Charge Table. Billets are supplied by mobile equipment.



Discharge End of the Charge Table.



This is the drive end of a Plate Charge Table. Rugged steel mill chain transports plates.



About one-third of the Charge Table pivots down to place a plate onto a roller table.