

## HUBBS MACHINE AND MANUFACTURING, INC. ANNOUNCES LATEST PRODUCT SERIES TO SUPPORT LASER SCANNERS

As Hubbs Machine and Manufacturing, Inc. and other innovators have said, it's the customer that drives the market, and this new product line is another fine example born from a customer request.

In the recent past, Hubbs was graciously afforded the opportunity by Michael Raphael of Direct Dimensions Inc. [www.directdimensions.com](http://www.directdimensions.com) to design, create, manufacture and provide a very unique, spherically configured target.

The task was to position a much larger spherically featured target into existing sphere mounts that normally accept various smaller partial spherical type targets.

At first glance, it seemed this would be a hard nut to crack! It's kind of like accurately stuffing 15 pounds of potatoes into a 10 pound bag, it doesn't fit!

Like many projects in the past, it didn't take long for Hubbs Machine & Manufacturing Inc. to take the new product from initial request to prototype to production. As is common at Hubbs, team members often personally handle many aspects of the product development, with, literally, a "hands on" approach.

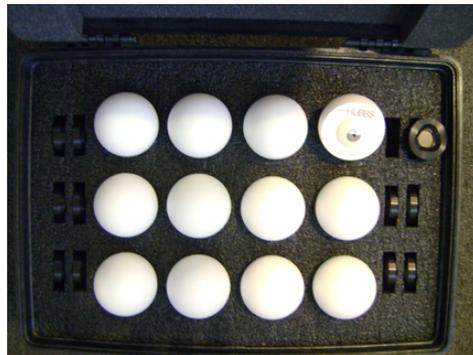
The new "Precision Scan Sphere" is the latest in the Hubbs Machine targeting arsenal.



This new target allows for the same offset and centerline values as other commonly used partial spherical targets in the industry when located within their respective conventional Hubbs "SM®" Series, Sphere Mount Target Holders. [View Ad](#)

Some Laser Scanners require a much larger surface area radius than that of a sphere target that is normally seen in the industry, widely used today. A larger radius, relative to a complete sphere, makes it impossible to locate the sphere accurately within existing supportive Sphere Mounts. Again, Hubbs provides a viable option.

This Patent Pending design employs a much larger initial precision spherical shape, of composite material for weight reduction, along with a ferrous metallic insert in the lower partial hemisphere to allow for normal magnetic attraction into the Sphere Mount.



The upper approximate two-thirds of the target provides the much larger spherical radius for scanning purposes, while the lower portion of the target provides the mechanical spherical radius to locate properly within the Hubbs “SM®” Series Sphere Mount.

The larger scanning radius and the smaller locating radius, although differing greatly in size, share the same center point origin. This shared center point, in turn, continues to allow the customer the option of interchangeability and transparencies from one measurement technology to the next, consistent with the various Hubbs metrology support systems concept.

It’s exciting to see technologies grow and become more widely accepted, along with their respective targeting, as is the case with the Precision Scan Sphere. With good targeting, accessories and service, customer confidence increases and everyone benefits.

In 1985, Hubbs sold its first Theodolite Target to LTV Areospace, (prior to that we were giving them away, obviously no financial genius on my part). Shortly thereafter, sales increased dramatically, a 200% INCREASE in fact! Three days later we sold two more, jokes Bill Hubbs.

You never know where things might go unless you start.

We invite you to start by calling Hubbs.

The new “Precision Scan Sphere” is available directly through Hubbs Machine and Manufacturing, Inc. [www.hubbsmachine.com](http://www.hubbsmachine.com), its authorized distributors and Direct Dimensions, Inc.