

Miniature joints from Belden – high precision, small dimensions

Broadview (Chicago), Illinois, USA, November/December 2005. Universal joint manufacturer Belden Inc. introduces high precision miniature joints. With an outer diameter as small as 8 mm, the new joints are suited specifically for miniature machinery, medical equipment, model making and many applications in which space is restricted.

Originally developed in 303 stainless steel for a manually operated minimal invasive surgical instrument, the miniature joints are also available in various grades of stainless steel and alloy heat-treated steel. The standard version has an operational angle of deflection of up to 35°. On request, Belden can develop modified versions with a higher angle of deflection or double universal joint assemblies.

Company information:

Belden Inc., located in Broadview, Illinois, near Chicago, can be traced back to the year 1939, when three brothers opened a precision machine shop. Through the development of an extensive product line, the company rapidly expanded. In 1968, Belden Inc. was established and began manufacturing high quality, precision universal joints for a variety of applications, creating a primary focus for the company.

Today, Belden focuses on special universal joints and drive shaft assemblies exclusive to a customer's exact application. Unique manufacturing processes give Belden the flexibility to economically produce low volume quantities and made to order custom parts just as cost-effective as high volume standard universal joints. Belden can provide an extensive line of high quality, precision engineered universal joints with drive shaft assemblies as well as couplings for a wide variety of applications. These unique applications include packaging and conveying equipment, food processing equipment, steel roll forming and levelling equipment, machine tools and woodworking equipment for the furniture industry, OEM machine tools, steering, shift linkage assemblies for race cars as well as industrial and off-road vehicles.

Belden's continuing investment in state-of-the-art multiple axis CNC machinery and new engineering systems technology has given the company a manufacturing lead in the worldwide market of power transmission components. Belden's specialty is custom assemblies such as customized hub configuration, length or the complete redesign of joints for specific applications. Materials include alloy, all grades of stainless steels, naval brass as well as extruded aluminium.

