

Abstract

The invention relates to a method for producing a butt welded joint between tube segments of a tube made of a weldable plastic material using
5 a welding machine and to a welding machine (10), two tube segments each being held by a clamping apparatus (11) of a welding device (21) of the welding machine, welding contact surfaces of tube end cross sections of the tube segments being fused by means of a heating element (22) of the welding device and the welding contact surfaces subsequently being
10 pressed against each other by a handling apparatus (18) of the welding device using a joining pressure to form a butt welded seam connecting the tube segments to each other in a joining plane, the welding device being controlled by a control device of the welding machine, a data model of a tube system having at least one tube and a plurality of butt
15 welded joints being stored in the control device of the welding device, the data model comprising at least one object dataset representing the corresponding butt welded joint and each having attributes, the control device detecting at least one weld parameter of the welding device as another attribute for the corresponding butt welded joint and adding this
20 weld parameter to the object dataset.

(Fig. 1)