ISO 11783-11
Mobile Data Element Dictionary
DDE Request Form

DDE Supplement / Attachment

DDE Number	DDEName
306	True Rotation Point X-Offset
307	True Rotation Point Y-Offset

Abbreviations

DRP   Device Reference Point
CRP   Connector Reference Point
ERP   Device Element Reference Point
TRP-X   True Rotation Point X-Offset
TRP-Y   True Rotation Point Y-Offset

Introduction

ISO 11783-10 defines that for a tractor, the DRP is the centre of the rear axle. For a trailed implement, the DRP is the centre of the front axle. In other cases, the DRP can be chosen freely, e.g. DRP=CRP or DRP=ERP. If there are movable or rotating parts within the device geometry between the DRP and the ERP and CRP, then the device control function is responsible for calculating the ERP and CRP locations and sending their offsets as dynamic data to the task controller.

True Rotation Point

For applications like section control it is important to consider the center of the rotation on the ground of a device when driving through a curve. For trailed devices with one axle the DRP is located at this axle and represents the rotation point.

For devices with more than one axle the rotation point can be located at another position within the device than the DRP. In this case, the True Rotation Point X and Y Offset DDIs shall be used to define the location of the rotation point on the device. For trailed devices that have rotation point different than the DRP , the True Rotation Point X and Y Offset DDIs shall be attached to the root device element which is of type "device". In case that only the TRP-X Offset is attached to the device element of type device the assumption is that the TRP-Y Offset is zero. An example of this type of device is provided in figure 1.
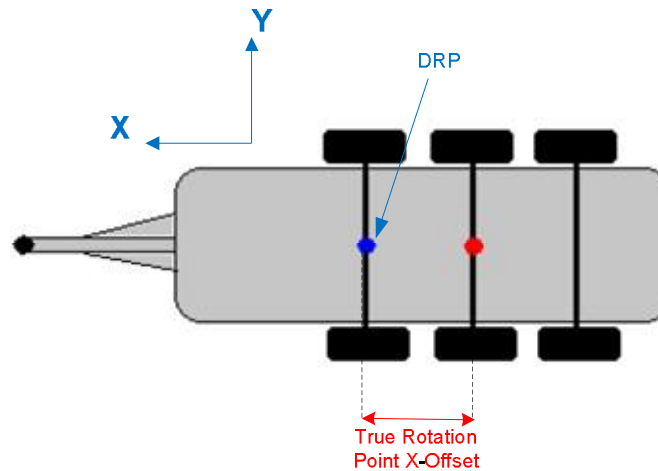
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Figure 1: True Rotation Point X-Offset