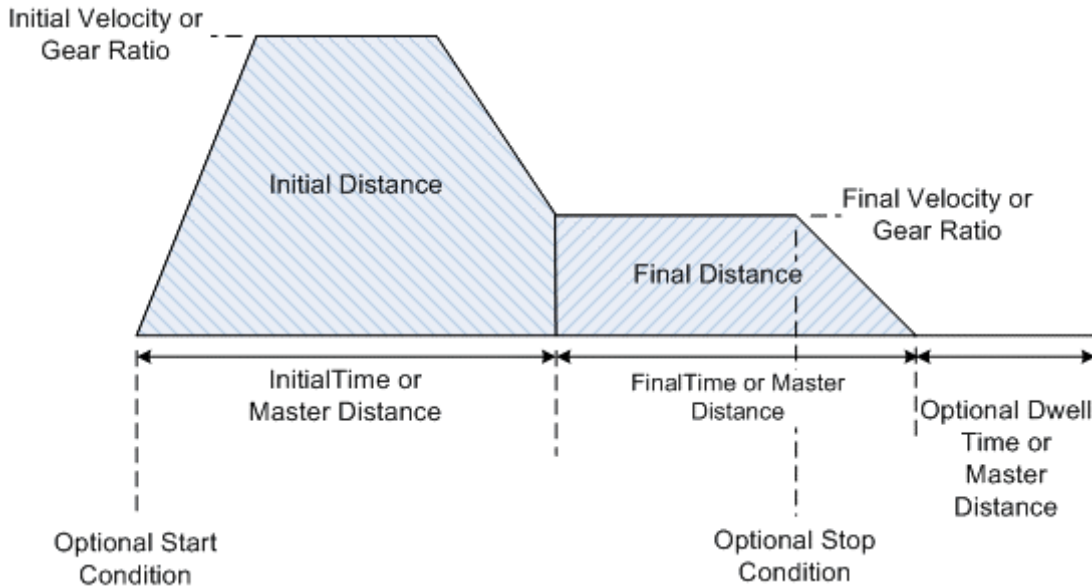




# Feed To Length Application Function Block

Software tools to implement feed to length applications



This function block makes it easy to implement full-featured Feed to Length application with a minimum of programming.

Feed to Length applications typically feed material using a nip-roll at a high initial speed for a certain initial distance. They then slow down to a final speed and continue feeding at the low speed for a set final distance or until an external high-speed sensor input becomes true.

The motion may be either distance vs. time based or slave distance vs. master distance based.

To download this and other Application Specific function blocks, register at [www.ormec.com](http://www.ormec.com) and visit the Products | Software | SMLC Software | Application Specific FBs page.

The library includes five function blocks:

## OrmAppFeedToLen

Feed to length while specifying the motion in terms of velocities, with acceleration and deceleration rates.

## OrmAppFeedToLenAtVel

Feed to length while specifying the motion in terms of velocities, with accelerations and decelerations in terms of rate, time or distance.

## OrmAppFeedToLenInTime

Feed to length while specifying move duration in terms of time with accelerations and decelerations in terms of rate, time or distance.

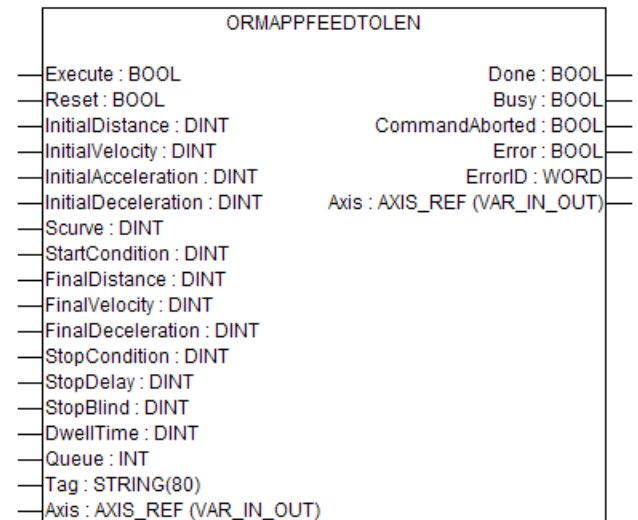
## OrmAppGearToLenAtRatio

Electronically geared feed to length while specifying the velocities in terms of a ratio to a master axis with accelerations and decelerations in terms of master distance or slave distance.

## OrmAppGearToLenInDist

Electronically geared feed to length while specifying the feed duration in terms of the distance traveled by a master axis with accelerations and decelerations in terms of master distance or slave distance.

## OrmAppFeedToLen Function Block



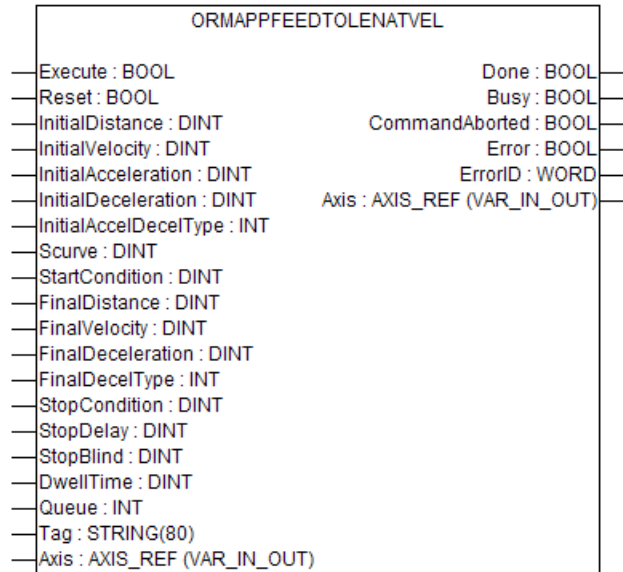
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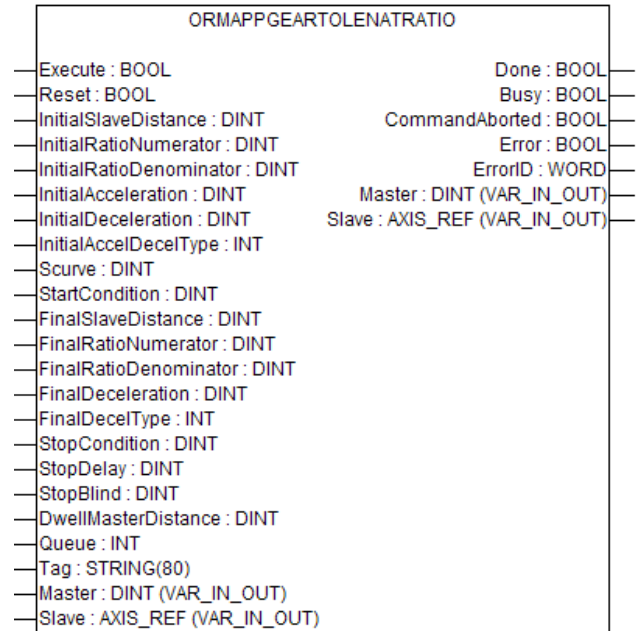
# Feed To Length Application Function Block

Software tools to implement feed to length applications

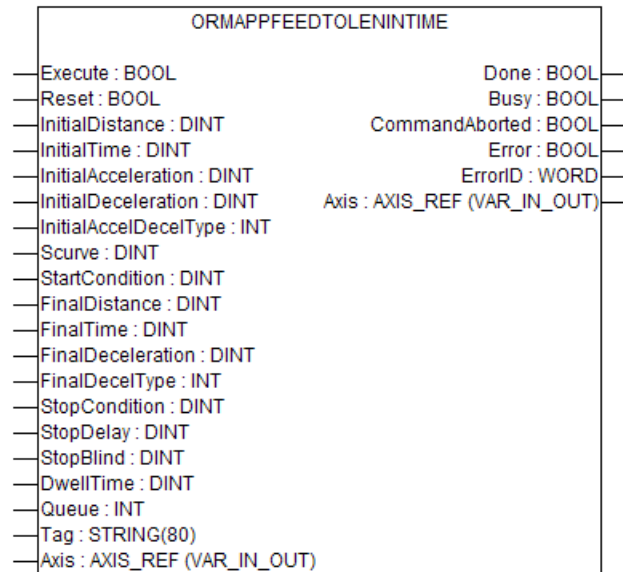
## OrmAppFeedToLenAtVel Function Block



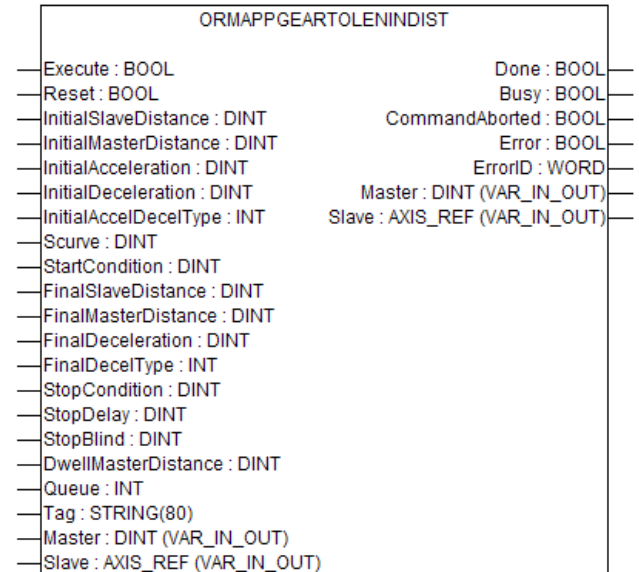
## OrmAppFeedToLenAtRatio Function Block



## OrmAppFeedToLenInTime Function Block



## OrmAppGearToLenInDist Function Block



### Application Specific Function Blocks for similar applications include:

- AFB-RECIPSHEAR For reciprocating flying shear applications.
- AFB-ROTARYKNIFE For rotary knife applications.