EDC DISTANCE COUPLING INSTALLATION

MACRON DYNAMICS, INC.

GENERAL

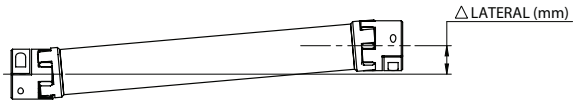
Macron **EDC Series** Distance Couplings is designed with an intermediate tube to span distances up to 6 meters. They can be used without additional intermediate bearings. The split-hub design gives a secure, frictional connection with easy operation. The design allows the coupling to be easily installed. Removal of the coupling can be done without moving the drive or output units (e.g. servo motor or gearboxes)

ALIGNMENT

For best performance, misalignment of the distance coupling should be minimized

Lateral Misalignment

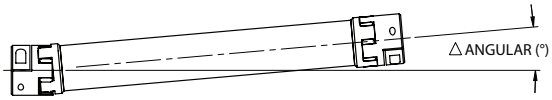
Lateral misalignment occurs when the axes of the couplings are parallel but not in line which each other. For best performance and life, lateral misalignment should not exceed the allowed maximum specified. Exceeding this value can result in a reduced life for coupling and bearings supporting the shafts. Use appropriate tools such as a laser alignment system to ensure lateral alignment.



EDC Maximum Allowable Lateral Misalignment = 5 mm per meter of tubing

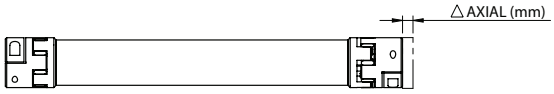
Angular Misalignment

Angular misalignment occurs when the axes of the couplings are at an angle to each other. Angular misaligment should be avoided.

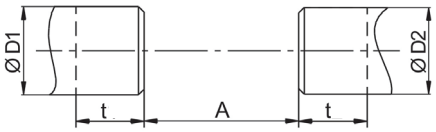


Axial Misalignment

Axial misalignment occurs when the coupling is properly aligned but the shafts being connected are not properly spaced axially.

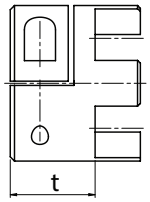


The axial distance between shafts, A, is calculated:



A = L - 2t

A = distance between shafts ±1
L = overall length of coupling
t = plug-in depth (see chart at right)



EDC

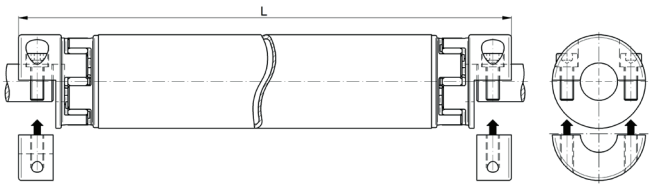
Coupling Plug-in Depth

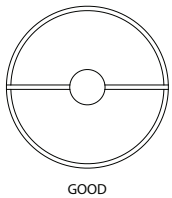
Coupling	t ± 1 mm
EDC-25	25
EDC-35	30
EDC-80	35
EDC-110	45

MOUNTING THE COUPLING

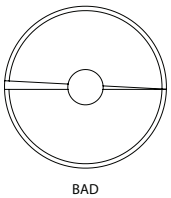
NOTE: Before assembly, be sure the coupling bores are free of grease and debris

- One part of the split hub is connected to the coupling, the other is loose.
- When mounting the loose part of the split hub, tighten the screws evenly and according to the tightening torque listed for the coupling. The gap between the two parts of the split shub should be even.





GOOD



BAD

Coupling Clamping Screw Tightening Torque

Coupling	Clamping Screws - Tightening Torque
EDC-25	2xM6 - 13 Nm
EDC-35	2xM6 - 13 Nm
EDC-80	2xM8 - 32 Nm
EDC-110	2xM8 - 32 Nm

NOTE **Operation temperature range:** -40°C to +200°C (-40°F to 392°F)