



# Disktron Bearing System Design Questionnaire



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## ***Project***

*Name & Contract Number:*

*Owner:*

*Consultant:*

### ***Contact Information***

*Name:*

*Phone:*

*Email:*

*Disktron Bearing Quantity:*

*Estimated Project Bid Date:*

## ***Structure***

### ***Superstructure Information***

*Type (Steel or Concrete):*

*Strength (Yield or Compressive (f<sub>c</sub>)):*

*Beam/Girder Flange Dimensions:*

*Span Length(s):*

*Slope at Bearing Locations:*

*Skew Angle between  $\perp$  of Girder &  
Direction of Movement:*

### ***Substructure Information***

*Type (Steel or Concrete):*

*Strength (Yield or Compressive (f<sub>c</sub>)):*

*Bearing Pedestal Dimensions:*

*Bearing Anchorage:*

*Materials:*

*Coating:*

*Embed Depth:*

*Existing Bearing Heights (If Required to  
Match Heights)*



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## ***Design***

*Design Goal (Rehab, Replace, New Design, etc.):*

*Design Method (ASD, LFD, or LRFD):*

***Specifications (including dates/editions)***

*AASHTO, AREMA:*

*State Standard and/or Design Manual:*

***Bearing Materials***

*Type of Steel:*

*Coating (Paint, Galvanize, Metalize):*

*Paint System and Topcoat Color (if applicable):*


## ***Testing***

***Specifications (Including Dates/Editions)***

*AASHTO, AREMA:*

*State Standard:*

*Special Testing Requirements (if applicable):*


**Please fill in design requirement table(s) on next pages.**



# Disktron Bearing System Design Questionnaire



## LRFD Design

Units: Load: Displacement: Rotation:			Location(s)	Location(s)	Location(s)	Location(s)	Location(s)
<b>Quantity:</b>							
<b>Bearing Type (Unidirectional, Multidirectional, or Fixed):</b>							
<b>Service Limit State (Max)</b>	Vertical Load	Dead - Maximum:					
		Dead - Minimum:					
		Live:					
		Total:					
	Net Uplift Load (If Applicable):						
	Horizontal Load	Longitudinal:					
		Transverse:					
Rotation (+/-):							
<b>Strength Limit State (Max)</b>	Vertical Load	Dead:					
		Live:					
		Total:					
	Net Uplift Load (If Applicable):						
	Horizontal Load	Longitudinal:					
		Transverse:					
	Rotation (+/-)	Due to all applicable loads:					
		Due to fab. and const. tolerances:					
		Total:					
	Displacement (+/-)	Longitudinal:					
Transverse:							
<b>Extreme Event Limit State (Max)</b>	Vertical Load	Dead:					
		EQ, IC, CT, CV, BL:					
		Total:					
	Net Uplift Load (If Applicable):						
	Horizontal Load	Longitudinal:					
		Transverse:					
	Displacement (+/-)	Longitudinal:					
Transverse:							
<b>Method of attachment to superstructure :</b>							
<b>Method of attachment to substructure:</b>							

If any of the above information is not known at this time, typical assumptions can be used for an estimate. For example, a typical strength horizontal load is 15% of the service vertical load, and a typical strength design rotation is  $\pm 0.02$  radians.



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## ASD or LFD Design

Units			Location(s)	Location(s)	Location(s)	Location(s)	Location(s)
Load:							
Displacement:							
Rotation:							
Quantity:							
Bearing Type (Unidirectional, Multidirectional, or Fixed):							
Load (Denote: Unfactored or Factored)	Vertical Load	Dead - Maximum:					
		Dead - Minimum:					
		Live:					
		Total:					
	Horizontal Load	Longitudinal:					
		Transverse:					
		Controlling Load Case:					
Net Uplift (If Applicable):							
Rotation (+/-)	Due to all Applicable Loads:						
	Due to fab. & cont. tol.:						
	Total:						
Displacement (+/-)	Longitudinal	Service:					
		Seismic:					
		Const. tol.:					
		Total:					
	Transverse	Service:					
		Seismic:					
		Const. tol.:					
		Total:					
Method of attachment to superstructure :							
Method of attachment to substructure:							

If any of the above information is not known at this time, typical assumptions can be used for an estimate. For example, a typical strength horizontal load is 15% of the service vertical load, and a typical strength design rotation is  $\pm 0.02$  radians.

Please fill out and email this form to [sales@rjwatson.com](mailto:sales@rjwatson.com)