



Disktron Bearing System Design Questionnaire



For a fillable version online, please visit rjwatson.com, hover over the services tab at the top, and click on design services.

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_c)):

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_c)):

Bearing Pedestal Dimensions:

Bearing Anchorage:

Materials:

Coating:

Embed Depth:

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



Disktron Bearing System Design Questionnaire



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)
Quantity:							
Bearing Type (Unidirectional, Multidirectional, or Fixed):							
Service Limit State (Max)	Vertical Load	Dead - Maximum:					
		Dead - Minimum:					
		Live:					
		Total:					
	Net Uplift Load (If Applicable):						
	Horizontal Load	Longitudinal:					
		Transverse:					
Rotation (+/-):							
Strength Limit State (Max)	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:							
Movement (+/-)	Longitudinal:						
	Transverse:						
Extreme Event Limit State (Max)	Vertical Load	Dead:					
		EQ, IC, CT, CV, BL:					
		Total:					
	Net Uplift Load (If Applicable):						
	Horizontal Load	Longitudinal:					
		Transverse:					
	Movement (+/-)	Longitudinal:					
Transverse:							
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 ± 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:					
Movement (+/-)	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 ± 0.02 radians.

Please fill out and email this form to sales@rjwatson.com