

1. Record Nr.	UNINA9910624371703321
Autore	Oellerich Jan
Titolo	Fundamentals for the Dimensioning and Optimization of Prestressed Segmented Girders for Application in Bridge Crane Systems // Jan Oellerich
Pubbl/distr/stampa	Karlsruhe, : , : KIT Scientific Publishing, , 2022
Descrizione fisica	1 online resource (xviii, 214 pages) : illustrations
Disciplina	621
Soggetti	Mechanical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Bridge cranes are widely used as discontinuous material handling systems in industrial environments. The so-called crane bridge plays a central role in the overall construction. With increasing span widths and load capacities, the dimensions of the crane bridge also increase. The core of this work is the design and optimization of a new type of bridge crane system, which consists of individual segments and is eccentrically pretensioned by a tensile member.