

### 1 INPUT:

Crane capacity  
Or, Weight (Bridge + hoist weight)  
Trolley weight  
Bridge weight  
Max static wheel load (by vendor-SAFE)  
Crane type  
Crane Bridge span (S)  
Left min. track approach  
Right min. track approach  
  
Left runway CL to column CL dist (L)  
Right runway CL to column CL dist (R)  
Crane column C to C distance (Enter the value)  
End Truck Type  
Total No. of wheels  
Wheels per Truck =  
Wheel Spacing

$W_{br}$	15.000	kN	147.15	kN
$W_{tr}$	25.480	kN	24.53	kN
$W_{br}$	2.900	kN	221.53	kN
$W_{br}$	22.99	kN	145.19	kN
$P_{max}$	14.8	kN		
	Top Running		Calculated Operated Trolley	Calculated
$S_L$	32.804	m		
$S_R$	1.000	m		
$S_R$	1.000	m		
$L$	600.0	mm		
$R$	600.0	mm		
$S_L = S_R$	32.804	m		
	2-Wheel truck			
$T_{total}$	4.0	nos		
$T_{max}$	2.0	nos		
$d1$	5000.0	mm		



### CALC: Wheel Loads

Max. Load factor (90%P)	-	0.968	Formula : $90\%P = (S_L + \max(S_L, S_R)) / S$
Min. Load factor (90%P)	-	0.932	Formula : $90\%P = 1 - 90\%P$
Maximum Wheel Load (WL <sub>max</sub> )	-	135.48	kN Formula : $WL_{max} = (W_{br} / T_{total}) + (90\%P * (W_{tr} + W_{br} / T_{total}))$
Minimum Wheel Load (WL <sub>min</sub> )	-	55.15	kN Formula : $WL_{min} = (W_{br} / T_{total}) + (90\%P * (W_{tr} + W_{br} / T_{total}))$
Maximum Wheel Load to be considered		145.2	kN from Max. Wheel Load given by vendor is considered (without Impact)
Crane runway beam span	L	8.0	m

### CALC: Impact Factors

Vertical Impact factor (IF)		1.3	
Maximum Wheel Load to be considered (with Impact)	$W_{L_{max}(w/i)}$	181.5	Formula : $W_{L_{max}(w/i)} = (W_{L_{max}}) * 1.3$
Min Wheel Load to be considered (with Impact)	$W_{L_{min}(w/i)}$	73.9	Formula : $W_{L_{min}(w/i)} = (W_{L_{min}}) * 1.3$
Side Thrust per wheel	$H_w$	5.5	kN Formula : $H_w = (W_{L_{max}} - W_{L_{min}}) / 4.0 / T_{total}$
Traction/Long Load per wheel	$H_{Lw}$	7.3	kN Formula : $H_{Lw} = (W_{L_{max}}) / 2.0$

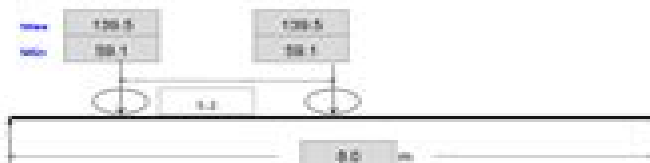
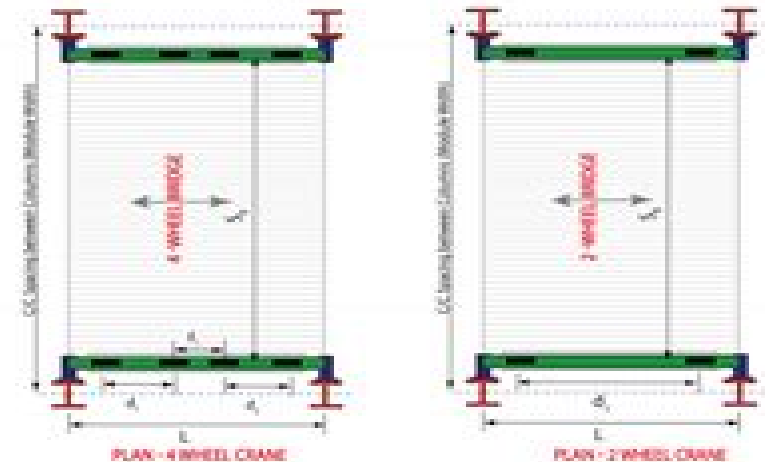


Figure 1: Crane Girder Loads for 2 wheel Truck

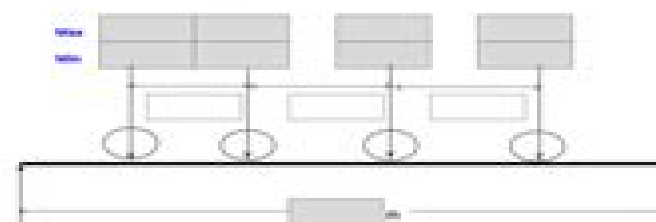


Figure 2: Crane Girder Loads for 4 wheel Truck

# Wheel Load Calculation For Double Girder Crane

**American School of Correspondence at  
Armour Institute of Technology,  
Chicago, Frank Oliver Dufour**

## **Wheel Load Calculation For Double Girder Crane:**

*Design Of Steel Structures (By Limit State Method As Per Is: 800 2007)* S.S. Bhavikatti, 2009 So far working stress method was used for the design of steel structures Nowadays whole world is going for the limit state method which is more rational Indian national code IS 800 for the design of steel structures was revised in the year 2007 incorporating limit state method This book is aimed at training the students in using IS 800 2007 for designing steel structures by limit state method The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems It is hoped that all universities will soon adopt design of steel structures as per IS 2007 and this book will serve as a good textbook A sincere effort has been made to present design procedure using simple language neat sketches and solved problems

The Design of Steel Mill Buildings and the Calculation of Stresses in Framed Structures Milo Smith Ketchum, 1921 *Materials Handling Handbook* Raymond A. Kulweic, 1991-01-16 Sponsored jointly by the American Society of Mechanical Engineers and International Material Management Society this single source reference is designed to meet today's need for updated technical information on planning installing and operating materials handling systems It not only classifies and describes the standard types of materials handling equipment but also analyzes the engineering specifications and compares the operating capabilities of each type Over one hundred professionals in various areas of materials handling present efficient methods procedures and systems that have significantly reduced both manufacturing and distribution costs

**Design Of Steel Structures** L S Jayagopal, First course for the learners of steel structural design at UG level this book is based on limit state design as per the Indian Code of Practice General construction in steel IS 800 2007 It explains theoretical concepts which form the basis of code provisions Emphasis lies on principal axes based compression members peripheral load distribution for base plates limit state design of base plate bearing column with moment unsymmetrically loaded beam design tension field web design in plate girders section and member design for bi axially loaded beam columns which are unique to the book Practical insight provided in chapters of applied design

**Handbook of Port Machinery** Dexin Tao, Yunfu Yan, Dashan Dong, Dewen Zhang, 2024-03-19 The CCMS Handbook of Port Machinery is an extensive reference guide intended to meet the needs of port handling machinery users and port planning and design institutes with regard to equipment selection equipment application and maintenance management It comprehensively and systematically introduces readers to the characteristics classification structure working principles main technical performance parameters corresponding technical standards and matters requiring special attention in equipment selection for typical port handling machinery The handbook supplements relevant handbooks on port machinery product design specifications and provides essential technical guidance to help users fully understand and correctly select port machinery and equipment At the same time it offers a valuable resource for technical personnel university teachers and students who are engaged in port planning and design handling process design port machinery product design port machinery use and maintenance A comprehensive

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Wheel Load Calculation For Double Girder Crane**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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