Crane Duty Class Project Data Sheet

Capture the operating profile needed for structural and mechanism duty-class review.

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Project and Crane Geometry

Project / company	_____	**Destination**	_____
Crane type	_____	**Quantity**	_____
Rated capacity	_____	**Attachment weight**	_____
Span / radius	_____	**Lifting height**	_____
Bridge travel	_____	**Power supply**	_____

Operating Profile

Shifts per day	_____	**Hours per shift**	_____
Lifts per hour	_____	**Starts per hour**	_____
Days per year	_____	**Expected service life**	_____
Average lift	_____	**Average travel**	_____

Load Spectrum Estimate

Load case	% / value	Cycle description	Notes
Near rated load (80-100%) - estimated percentage of lifts	[ ]		
Medium load (40-80%) - estimated percentage of lifts	[ ]		
Light load (0-40%) - estimated percentage of lifts	[ ]		
Empty-hook travel - estimated percentage of cycles	[ ]		
Exceptional, tandem, snagging, or process-specific load cases	[ ]		

Environment and Process Consequence

Review item	Value	Requirement	Notes
Indoor, outdoor, coastal, hot, cold, dusty, corrosive, or high altitude	[ ]		
Hazardous area classification or special process risk	[ ]		
Production consequence if the crane is unavailable	[ ]		
Required positioning accuracy, anti-sway, or automation	[ ]		
Maintenance access restrictions and local service capability	[ ]		
Named design or classification standard in the project specification	[ ]		

Prepared by	_____	**Date**	_____
Engineering review	_____	**Revision**	_____
Assumptions confirmed	Yes / No	**Client approval**	_____

Important: Duty classes from FEM, ISO, CMAA, and national systems should not be converted by name alone. Confirm the governing standard and underlying load spectrum.