

# HYDRAULIC BUFFERS



**KORO RIW**

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WE KNOW CRANES

# INTRODUCTION

For over 100 years, KoRo RIW has been at the forefront of crane technology, seamlessly blending premium quality with cutting-edge innovation. Beyond supplying world-class crane components, we offer comprehensive, tailored solutions with a deep understanding of their application, ensuring each system perfectly meets your operational needs.

Our solutions are designed for peak performance and efficiency, combining custom products with the speed and reliability of standard components.

With in-house production and optimized processes, we deliver exactly what your business needs—quickly and reliably.

At KoRo RIW, we're not just a supplier - we're a partner in your success. Our expert consultation, transparent service, and on-time delivery provide long-term, trustworthy results, backed by an above-average warranty for lasting peace of mind.

By choosing KoRo RIW, you're investing in future-focused technologies that keep you ahead of industry trends, always benefiting from the latest advancements.

KoRo RIW is your No.1 Partner for Crane System Solutions, with expertise across all verticals, industries, and applications.

From customized components to superior consultation and guaranteed delivery, we ensure your business moves forward efficiently and safely, with deep insights into every solution.



## 01

### Uncompromising Safety

At KoRo RIW, safety is integral to our products.

Engineered to exceed industry standards, our crane components ensure secure operations even in the toughest environments.

With rigorous testing and strict safety protocols, we enhance security and reduce risks across the board.

## 02

### Maximum Performance

Our products are designed for exceptional performance in demanding industrial environments.

Crafted from premium materials, they deliver consistent reliability and efficiency while minimizing downtime.

With optimized manufacturing processes, we ensure on-time delivery, keeping your operations seamless and productive.

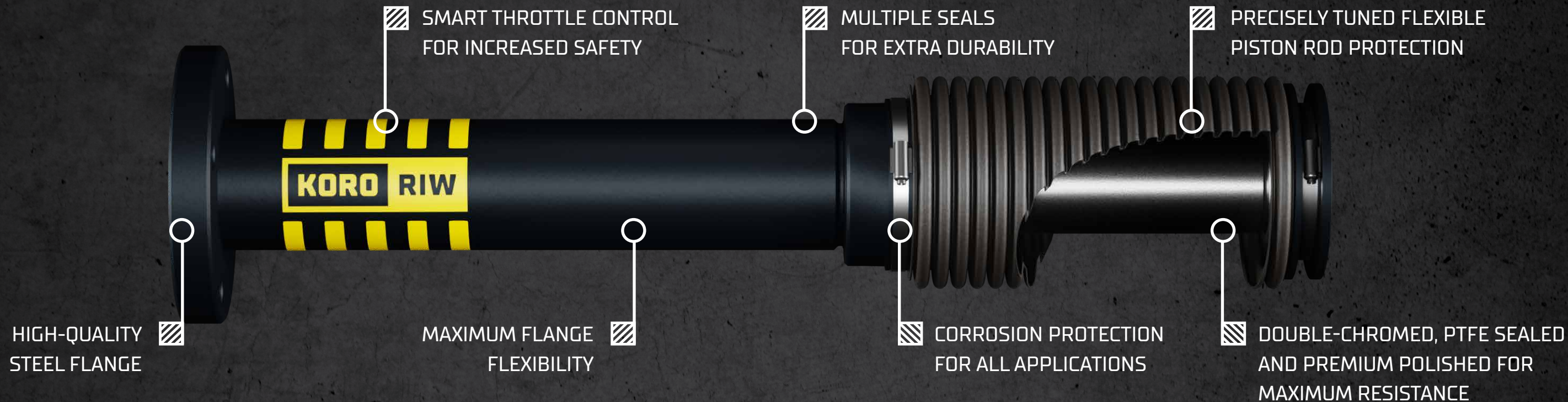
## 03

### Precise Solutions

KoRo RIW provides tailored solutions for each client, offering crane components that are customized to meet specific needs.

Our expert team ensures precision, flexibility, and optimized performance for any project, keeping your operations efficient.





## BUFFER FEATURES

Our hydraulic buffers provide top-tier energy absorption for a variety of industrial applications, including cranes and steel mills. Available in customized sizes and stroke lengths, they are tailored to meet your specific needs.

## AT A GLANCE



30°C - 100°C



UP TO 1.000KN  
FORCE



50MM - 1600MM  
STROKE



EASY  
INSTALLATION



HIGH  
AVAILABILITY



MAX.  
COMPATIBLE

The displayed product includes additional options that are not part of the standard version.

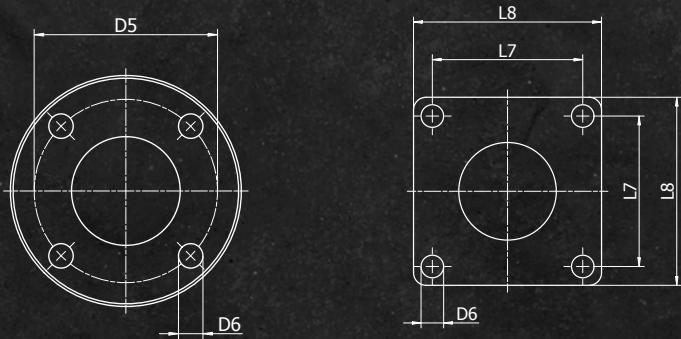


FLEXIBLE FOR EVERY REQUIREMENT

Our flange options and custom buffer solutions are designed to meet the diverse needs of any project. With a wide range of variants and precision-fit alternatives, we ensure seamless integration into your systems.

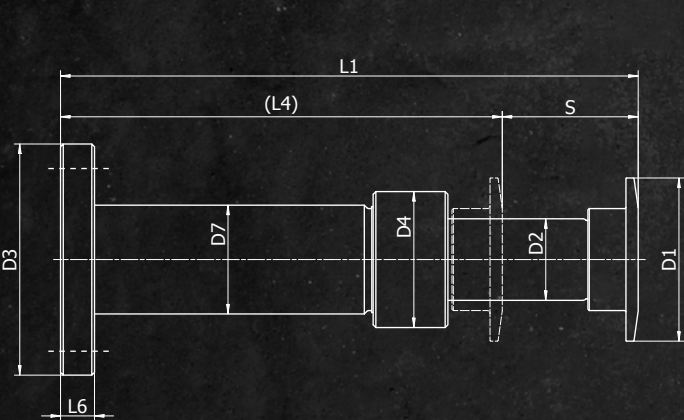
Whether you require upgrades for existing KoRo buffers, first-time hydraulic buffer installations for cranes, or custom buffers for new builds, our solutions offer optimal performance and adaptability with the latest technology to keep your operations running smoothly.

Select from our range of round and square flanges or according to your specific design:



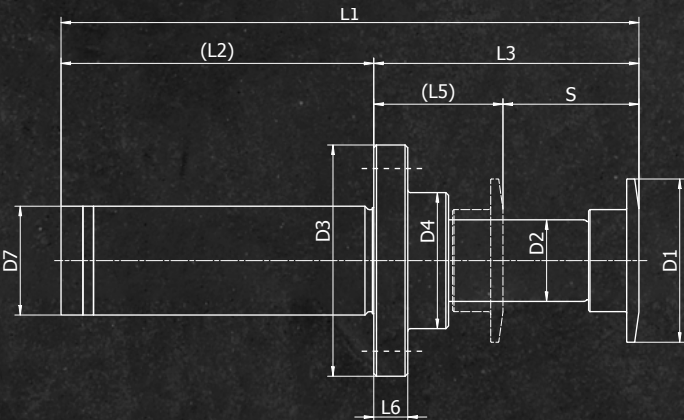
BACK FLANGE

The back flange variant is mounted in front of the structure, with the option to retrofit the flange pattern into existing designs, ensuring compatibility without major modifications.



FRONT FLANGE

Our front flange variant allows the hydraulic buffer to be seamlessly integrated into the structure, optimizing space and preventing buckling risks, especially for longer buffers. Ideal for strokes over 600mm.



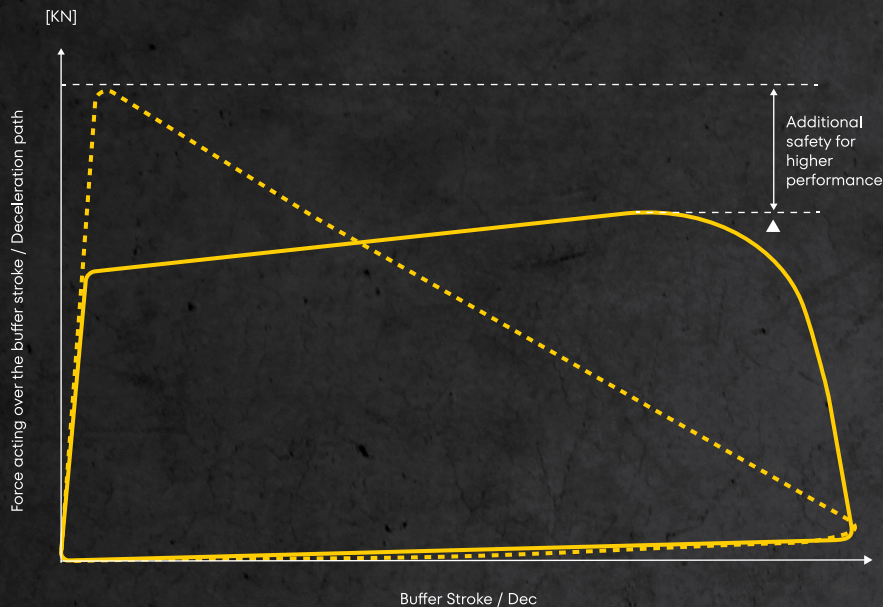
POWERFUL IN EVERY CONFIGURATION

Load Size Spectrum		max. Buffer Force (kN)	max. Energy Absorption / Stroke (kJ)	max. Energy Absorption / Hour (kJ/h)
KHP - Buffer Nominal Ø (mm)	Stroke-S Stepwise (mm)			
75	from 50 to 600	200 - 120	20 - 60	1300 - 4000
95	from 100 to 800	260 - 150	25 - 105	1600 - 9100
115	from 100 to 800	520 - 300	49 - 220	3150 - 17100
135	from 200 to 1200	700 - 400	127 - 436	8000 - 23000
175	from 200 to 1600	1000 - 400	182 - 582	8000 - 32000

Installation Size Spectrum		Dimensions (mm)										
KHP - Buffer Nominal Ø (mm)	Stroke – S Stepwise (mm)	D1	D2	D3	D4	D5	D6 <sup>a)</sup>	D7	L1 Stepwise	L6	L7 <sup>b)</sup>	L8 <sup>a)</sup>
75	from 50 to 600	120	60	170	100	135	18	80	280 - 1840	25	120	150
95	from 100 to 800	120	75	205	119	165	18	100	440 - 2450	25	Ø 120	Ø 150
115	from 100 to 800	140	95	260	148	210	- R 23 - Ø 26	130	460 - 2450	30	Ø 210	Ø 270
135	from 200 to 1200	177	115	300	185	245	27	156	750 - 3590	25		
175	from 200 to 1600	210	150	350	230	265	27	206	860 - 4995	40		

Further details in our technical specification





- Many COMPETITORS provide hydraulic buffers with limited impact mass capacity, which may result in reduced performance and safety in more demanding applications
- KoRo RIW Hydraulic Buffer with Enhanced Performance Characteristics, Providing Additional Safety through Precise Engineering

## WHY CUSTOMIZED BUFFERS MATTER:

Selecting the right buffer is crucial for system safety and performance. Generic buffers can cause uncontrolled forces that may jeopardize both people and equipment. Using known operating parameters ensures optimal protection with clearly defined reaction forces, guaranteeing reliable processes.

Our tests demonstrate that improper buffer selection, especially in varying load cases, can result in dangerously high end reaction forces. Avoiding guesswork is essential to prevent significant safety risks and potential damage.

SIZE YOUR BUFFER

Example of a Suboptimal Configuration

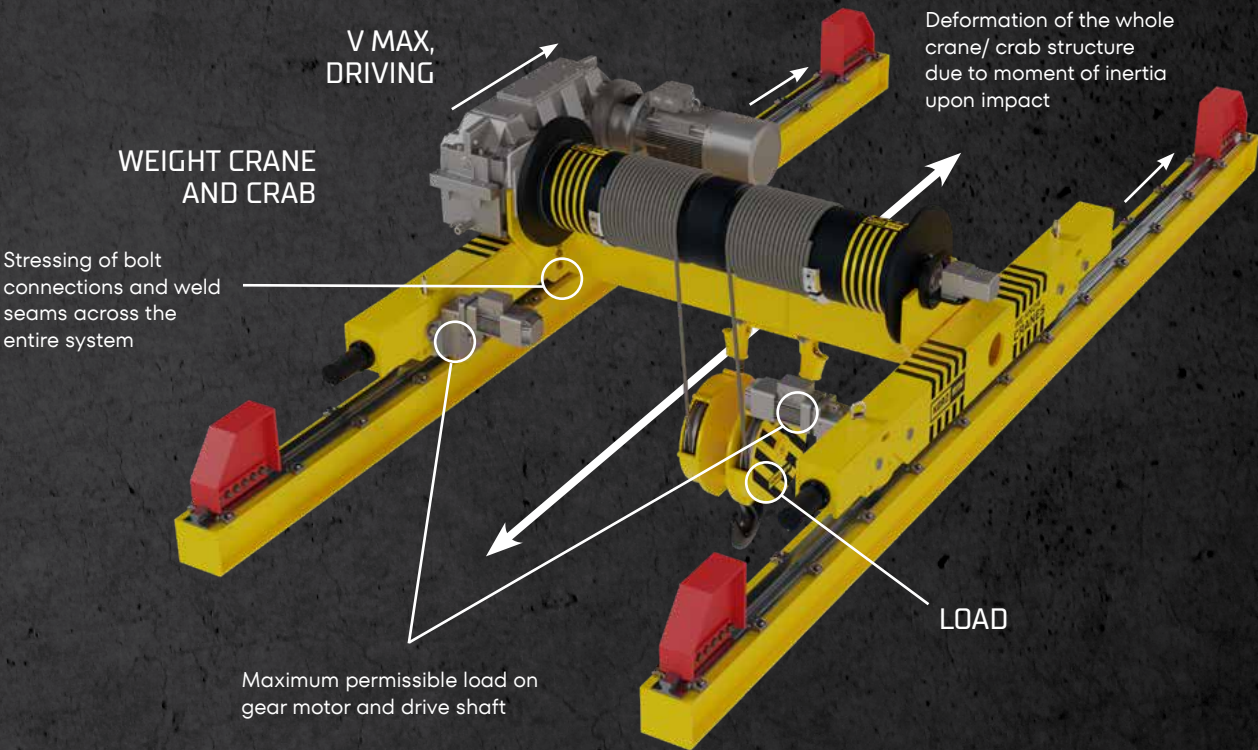
Stroke (mm)	Value - W <sub>e</sub> - according to Buffer Application Sheet				Impact Weight W <sub>e</sub> in t - Mandrel Number					
	to 1.7 t	to 3.5 t	to 7 t	to 13 t	to 25 t	to 50 t	to 100 t	to 200 t	to 400 t	to 800 t
50	51	52	53	54	55	56	57	58	59	
100	101	102	103	104	105	106	107	108	109	

A standard buffer selection from a table will never truly meet your specific safety requirements. It's either too soft or too hard — both scenarios result in higher impact forces on your structure, crane, or product. Don't compromise. Choose a buffer that truly fits your application.

## LIMITING THE IMPACT

With buffers designed specifically to your requirements, you reduce impact on your systems, enhancing safety and extending the lifespan of your equipment.

KoRo RIW OEM winch with SMART hydraulic buffer with front flange for increased safety and lifetime.



## YOUR SAFETY IS OUR PRIORITY

At KoRo RIW, we design your buffer that perfectly fits your unique requirements. Our team combines advanced engineering with your specific data to create a solution that optimizes safety, performance, and durability.

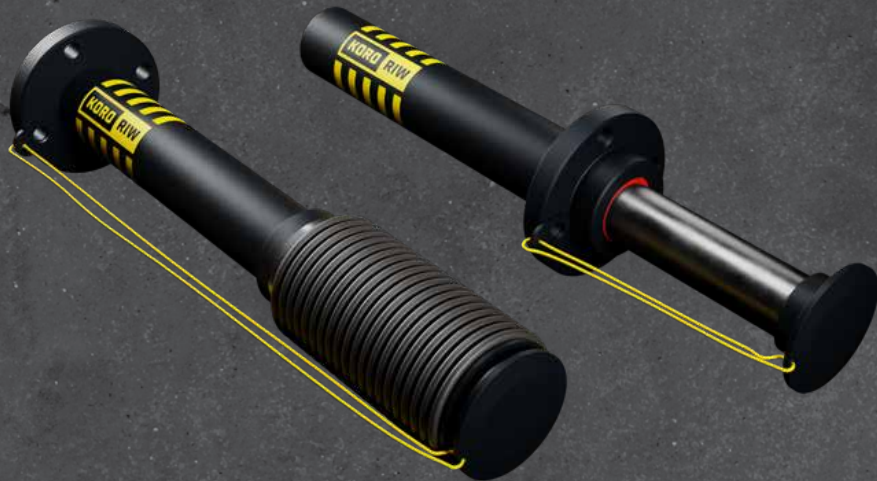
With our expertise, you can trust that your system will perform reliably, reducing downtime and minimizing maintenance costs, giving you peace of mind.



# PREMIUM ACCESSORIES

## SAFETY CABLES

Our premium safety cables provide an extra layer of protection, ensuring that critical components remain securely in place even under the most challenging conditions. These durable cables enhance operational safety and reduce the risk of accidental detachment, offering peace of mind for your high-demand applications.



## DUST PROTECTION BELLOWS

Designed to protect against dirt, debris, and moisture, premium dust protection bellows safeguard critical crane components. These durable bellows ensure that moving parts stay clean and fully operational, even in the harshest environments.

By reducing wear and tear, they extend the lifespan of your equipment, improving both safety and operational efficiency.

## CORROSION PROTECTION

Advanced corrosion protection shields crane components from rust and environmental wear. With coatings specifically engineered to resist moisture, chemicals, and salt, our solution enhances the durability of your equipment.

By proactively preventing damage, it reduces maintenance costs and ensures long-term reliability, keeping your operations secure and running smoothly.

## EXPLORE OUR KORO RIW BUFFER FAMILY



### RUBBER BUFFERS

Rubber buffer with plate and grab screw or on mounting plate.



### CELLULAR PLASTIC BUFFERS

Cellular plastic buffers with plate and grab screw or on mounting plate.



### BUFFER STOPS

According to safety regulations, crane and trolley rails must be provided with strong limit stops.



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