

THE RIGHT SOLUTION
FOR MODERN RAIL LOGISTIC



WHY ZEPHIR

PORTS



CARGO



WE KNOW THE WAY TO MAKE IT POSSIBLE

EXPERTISE

Over 45 years of experience in the market

VERSATILITY

Custom made solutions for the special needs applications

RELIABILITY

Built to last with longlife design

INNOVATION

The latest technology available on board

SAFETY

Conforms with the highest safety regulations

WIDE RANGE OF PRODUCTS

40 models offered

APPLICATION AREAS

MINES



INDUSTRIAL APPLICATIONS



WORKSHOPS



RAILWAYS



TRANSPORT PASSENGERS





Rubber tire drive

- The rubber tire drive provides a uniform 100% tractive force with a single coupling in forward and reverse direction.
- The rubber tire drive system does not require extra weight to be added in order to provide enough traction.
- Traction tires don't wear the railways like metal wheels. Our equipment is lighter, so there is no added stress on the rail due to the weight, and the rubber last longer.
- The equipment is designed to not transfer extra force to the railcars or locomotives.

Design

Since 1969, Zephir has designed and manufacture bi-modal vehicles "railcar shunting locomotives" to efficiently, economically, and safely move our rail cars in a wide range applications areas.

Bimodal operation

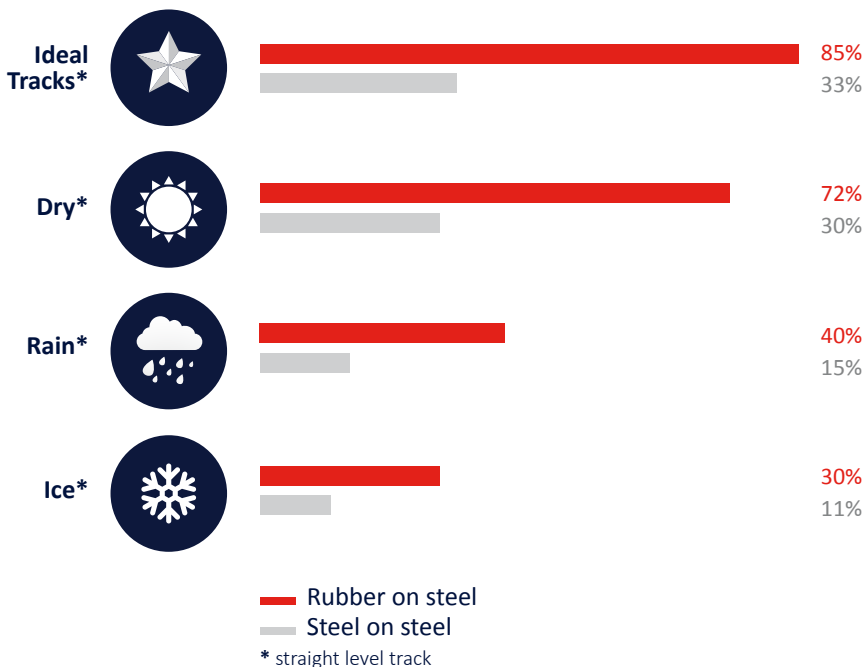
The locotractor can be moved on or off track in most areas and in one quick and easy operation. It can cross paved tracks to move across rail yards quickly and efficiently.

Concept

The Locotractor traction system utilizes Rubber on Steel which produces twice the coefficient of traction compared to conventional Steel on Steel, independent from the rail condition.



Coefficient of friction (Rubber Vs. Steel)



Easy to mantain and to operate

- Our machines are designed to be easily maintained with no special skills or tools needed.
- Anyone capable of operating basic equipment can drive the locotractor.
- Decrease labor costs and increase productivity because just one operator is needed to drive the locotractor.
- With compact dimensions, the locotractor is easy to transport and relocate.
- No need for special infrastructure or tools for service and maintenance Environmentally friendly.

ELECTRIC RANGE APPLICATIONS

RAIL PASSENGER - USA



METRO - BRAZIL



METRO - KOREA



LOGISTIC - AUSTRALIA



LIGHTRAIL - CANADA



RAIL PASSENGER - POLAND



WORKSHOP - ITALY



CHEMICAL INDUSTRY - SWEDEN



LOGISTIC - SWEDEN



SPECIAL AND CUSTOM MACHINES

KUBO with snowplow



KUBO with diesel engine



KUBO with cabin



The Electric RANGE

* dry straight level track | ** starting peak performance

Line CRAB	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Rail road
	1500 E	 < 15 kN > 	 300 t 	4 t	2180 mm 1830 mm 1550 mm	
	1800 E	 < 20 kN > 	 400 t 	4 t	2180 mm 1830 mm 1550 mm	
	2100 E	 < 26 kN > 	 520 t 	5,2 t	2880 mm 2050 mm 2435 mm	
	3100 E	 < 36 kN > 	 730 t 	6,6 t	3100 mm 2450 mm 2435 mm	
	5000 E	 < 50 kN > 	 1000 t 	9 t	3850 mm 2200 mm 2650 mm	
Line CRAB EVO	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Rail road
	3200 EVO	 < 36 kN > 	 730 t 	6,6 t	2504 mm 2200 mm 2500 mm	
	4200 EVO	 < 36 kN > 	 730 t 	7,5 t	2504 mm 2200 mm 2500 mm	
Line LOK E	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Rail road
	7.90 E	 < 70 kN > 	 1400 t 	16 t	4800 mm 2500 mm 3400 mm	
	10.90 E	 < 100 kN > 	 2000 t 	20 t	4800 mm 2500 mm 3400 mm	
	13.90 E	 < 130 kN > 	 2600 t 	24 t	4800 mm 2500 mm 3400 mm	
	MPV E	 < 30 kN > 	 600 t 	14 t	4800 mm 2500 mm 3375 mm	
Line KUBO	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Rail only
	1.200 E	 < 18 kN > 	 360 t 	5t	2600 mm 2200 mm 1300 mm	
	2.500 E	 < 25 kN > 	 500 t 	5 t	2600 mm 2200 mm 1500 mm	
	3.500 E	 < 35 kN > 	 700 t 	6 t	2600 mm 2200 mm 1500 mm	
	5.500 E	 < 55 kN > 	 1100 t 	11 t	3500 mm 2200 mm 1500 mm	
	10.000 E	 < 100 kN > 	 2000 t 	20 t	4200 mm 2200 mm 2200 mm	

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The Diesel RANGE

* dry straight level track | ** starting peak performance

Line LOK	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Rail road
  	2.60	 < 30 kN > 	 600 t 	10 t	4800 mm 2500 mm 3400 mm	
	4.90	 < 50 kN > 	 1000 t 	14 t	4800 mm 2500 mm 3400 mm	
	6.110	 < 70 kN > 	 1400 t 	16 t	4800 mm 2500 mm 3400 mm	
	8.130	 < 80 kN > 	 1600 t 	18 t	4800 mm 2500 mm 3400 mm	
	10.170	 < 100 kN > 	 2000 t 	20 t	4800 mm 2500 mm 3400 mm	
	13.220	 < 130 kN > 	 2600 t 	24 t	4800 mm 2500 mm 3400 mm	
	16.300	 < 160 kN > 	 3200 t 	29 t	6500 mm 2500 mm 3410 mm	
	20.300	 < 200 kN > 	 4000 t 	35 t	7000 mm 2500 mm 3630 mm	
	20.450	 < 200 kN > 	 4000 t 	35 t	7000 mm 2500 mm 3630 mm	
	22.520	 < 230 kN > 	 4600 t 	40 t	7000 mm 2500 mm 3630 mm	
30.520	 < 280 kN > 	 5600 t 	48 t	7360 mm 2500 mm 3660 mm		
Line LOKOM	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Rail only
	LOKOM	From 70 t to 120 t	From 1400 t to 2400 t	From 18 t to 44 t	upon request	
Line INDUSTRIAL TRACTOR	Model	Draw Bar Pull *	Max Towing Capacity **	Weight	Dimensions LxWxH	Road
 	650 NC	 < 45 kN > 	 129 t 	6,7 t	3500 mm 1900 mm 2190 mm	
	650 NC 4x4	 < 64 kN > 	 183 t 	8 t	3500 mm 1900 mm 2280 mm	
	800 NC	 < 70 kN > 	 200 t 	11 t	3950 mm 2200 mm 2500 mm	
	800 NC 4x4	 < 90 kN > 	 257 t 	11,5 t	3950 mm 2200 mm 2750 mm	

DIESEL RANGE APPLICATIONS

MINING - AUSTRALIA



INTERMODAL - ITALY



CHEMICAL INDUSTRY - SPAIN



PORT - GREECE



METRO - INDIA



RAILWAY - LITHUANIA



RAIL PASSENGER - SAUDI ARABIA



LOGISTIC - FINLAND



CARGO - KAZAKHSTAN



SPECIAL AND CUSTOM MACHINES

LOK 1400 - 2000 - 2500



Military Applications



4 Wheel Steering System





ZEPHIR SpA
Via Salvador Allende, 85
41122 Modena - Italy
Phone: +39 059 252554
Fax +39 059 253759
e-mail: zephir@zephir.eu
www.zephir.eu

