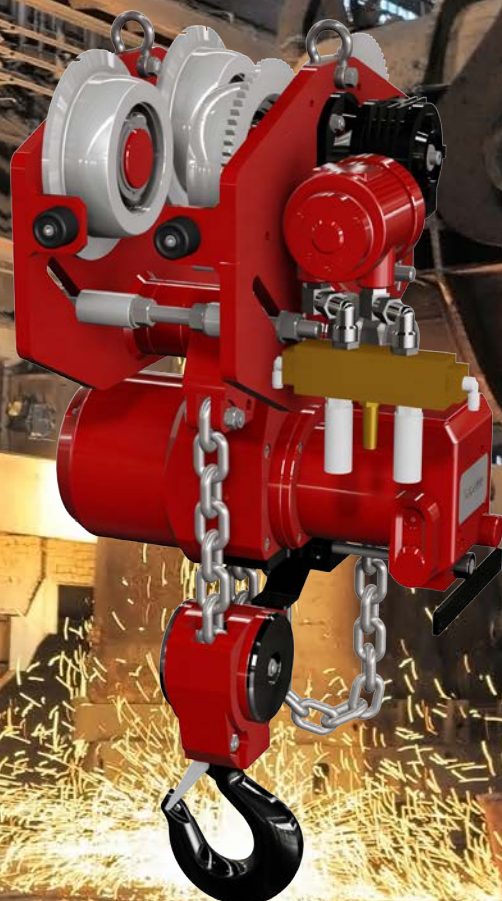




**RED ROOSTER**  
INDUSTRIAL (UK) LTD

# PNEUMATIC HOIST AND HOIST & TROLLEY CATALOGUE



**EDITION 4**

[www.rruk.com](http://www.rruk.com)



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## MODELS AND SPECIFICATION

SWL (TONNE)	MODEL	CHAIN FALLS	AIR FLOW (L/SEC)		FULL LOAD LIFTING SPEED (M/MIN)	MINIMUM HOSE DIA (I/D)
			RAISING	LOWERING		
0.25	TCR-250	1	13	15	9.3	0.5"
0.25 / 0.5	TCR-500	1	25	27	12 / 10.5	0.5"
0.5	TCR-500/2	2	13	15	4.6	0.5"
0.5	TCS-500	1	28	33	17	0.5"
0.98	TCS-980	2	28	33	8.5	0.5"
1.0	TCR-1000/2	2	25	27	5.3	0.5"
1.0	TCR-1000	1	25	28	6.0	0.5"
2.0	TCR-2000/2	2	25	30	3.0	0.5"
3.0	TCR-3000	1	33	43	2.8	0.75"
6.0	TCR-6000/2	2	33	43	1.4	0.75"
9.0	TCR-9000/3	3	33	43	0.9	0.75"
10.0	TNC 10TW LPE	2	90	100	1.5	1"
12.0	TCR-12000/4	4	33	43	0.6	0.75"
15.0	TCR-15000/5	5	33	43	0.5	0.75"
15.0	TNC 15TW/3	3	90	100	1.0	1"
20.0	TNC 20TW/4	4	90	100	0.75	1"
25.0	TNC 25TW LPE	2	90	100	0.6	1"
37.5	TNC 37.5TW/3	3	90	100	0.35	1"
50.0	TNC 50TW/4	4	90	100	0.3	1"



Images for illustration purposes only

## SECTION 1





## INTRODUCTION PNEUMATIC HOISTS

At Red Rooster we specialise in the sale, rental and repair of powered hoists, trolleys and winches. Our pneumatic hoists have safe working loads ranging from 250kg to 50 tonne and conform with the EC Machinery Directive and the European Standard for hoists BS EN 14492-2. All of our hoist parts are manufactured in either Japan or Europe, with all the manufacture controlled under our ISO 9001:2008 Quality control system.

The Red Rooster TCR, TCS and TNC series of pneumatic hoists offers a comprehensive range of hoists suited to all types of industrial and marine environments. For use in areas where there is a risk of explosion due to flammable gases or dust, we can offer a range of ATEX classifications to suit your requirements (see ATEX section on page 16).

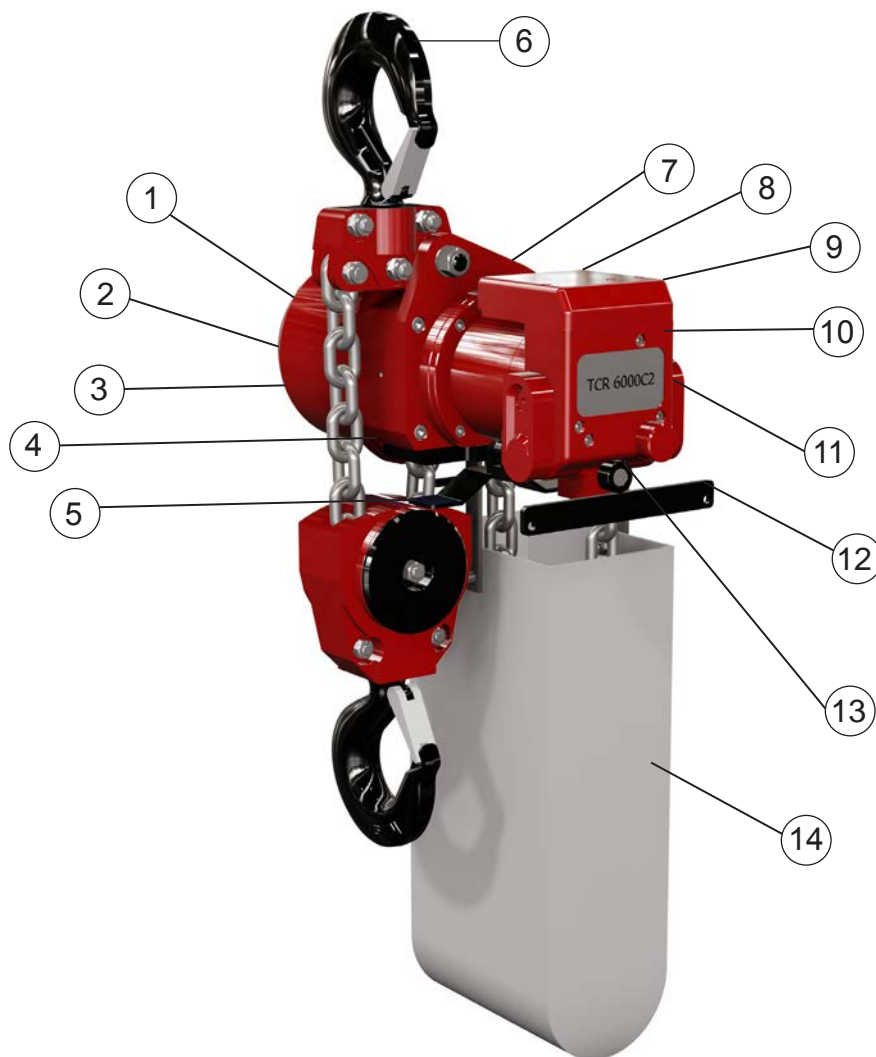
With safety the number one priority, Red Rooster hoists have been tried and tested for the past 25 years. Where engineers and operators require a hoist that is fit for purpose, easily controlled and maintained, with readily available spare parts, you'll find Red Rooster hoists. We have the perfect lifting solution for where the duty is high, or where a robust hoist is required to withstand harsh conditions. As standard, Red Rooster hoists are able to work within a temperature range of -10°C to +70°C, with some slight modifications we can make the hoists suitable to be used at -20°C.

### RED ROOSTER DESIGN FEATURES

- ▷ TOKU high quality vane motor and epicycle gearbox with long life grease
- ▷ Overload protection
- ▷ High strength cast steel housing for durability
- ▷ Compact and lightweight for easy handling
- ▷ Extended duty cycles and frequent reversals
- ▷ Variable speed for raising and lowering accurately
- ▷ Alloy steel hooks with safety catches (Bottom hook fitted with thrust bearing for easy operation)
- ▷ Automatic adjustable load limiter capacities (Not for TMM, TCR Mini or TCS)
- ▷ Failsafe automatic disk brake (fully enclosed) ensures the load cannot fall if power is lost
- ▷ Emergency stop
- ▷ Mechanical upper and lower hoist limits
- ▷ Lifting heights to meet your needs
- ▷ Choice of cord, pendant control or control systems
- ▷ Low noise level down to 80 dB (Silencer and filter easily changed)
- ▷ Low air consumption (TCR model)
- ▷ Air pressure from 4.5 to 6 Bar (7 Bar maximum)
- ▷ Durable in harsh environments
- ▷ Self cooling air motor with the exhaust over the motor
- ▷ Low maintenance
- ▷ Easily available spares at a realistic price
- ▷ Hoist body manufactured in Japan, all other parts in Europe
- ▷ High quality calibrated load chain of European/Japanese manufacture with 5:1 FOS
- ▷ High speed (TCS model)
- ▷ Special designs of hoists and trolleys
- ▷ Ex classification to EC directive 94/9/EC (ATEX models)
- ▷ Various paint specifications and colours

### WHERE YOU WILL FIND OUR HOISTS

Offshore oil industry, assembly lines, power plants, refineries, mechanical engineering, shipyards, explosives, foundries, oil storage and many other industries.



Images for illustration purposes only

1. All steel construction (Alloy body for TCR mini and TCS)
2. Epicycle gear box
3. Failsafe automatic disk brake
4. Sealed pocket wheel bearings
5. Upper and lower limit switches
6. Hook options
7. Various paint options - standard to full offshore specification
8. Low noise emissions and self cooling exhaust
9. Low air consumption
10. Overload protection (Not TCR mini or TCS)
11. Spring loaded vane motor
12. Cord or range of pendant control
13. Built in emergency stop valve on pendant model (Not TCR mini or TCS)
14. Chain bag or bucket

## SECTION 1

# INTRODUCTION

## PNEUMATIC TROLLEYS

The Red Rooster range of trolleys have been designed to match our range of pneumatic hoists with trolley capacities from 250kg to 50 tonne, but are easily adapted to be used with other manufacturers hoists. The trolleys are designed to work on a wide range of beam sizes and beam types with parallel or tapered flanges. The trolley can either have a lifting lug to hook in the hoist or be built in using a link plate. The versatile design and interchangeable parts can be used on a range of geared, low headroom, articulated and overhead crane units.

### RED ROOSTER DESIGN FEATURES

- ▷ Good load to weight ratio
- ▷ Wheel profile for both parallel or tapered flanges
- ▷ Heavy duty sealed wheel bearings
- ▷ Choice of steel or bronze wheels
- ▷ Two or three flange ranges depending on the capacity
- ▷ Flange width up to 305mm as standard
- ▷ Operates on curved beams (see minimum radius)
- ▷ Easily available parts at a realistic price
- ▷ Anti drop plates
- ▷ Optional travel speeds
- ▷ Adjustable anti-tilt rollers
- ▷ Buffers on ATEX units
- ▷ High efficiency motor gearbox
- ▷ All parts manufactured in Europe
- ▷ Available as standard or ATEX units

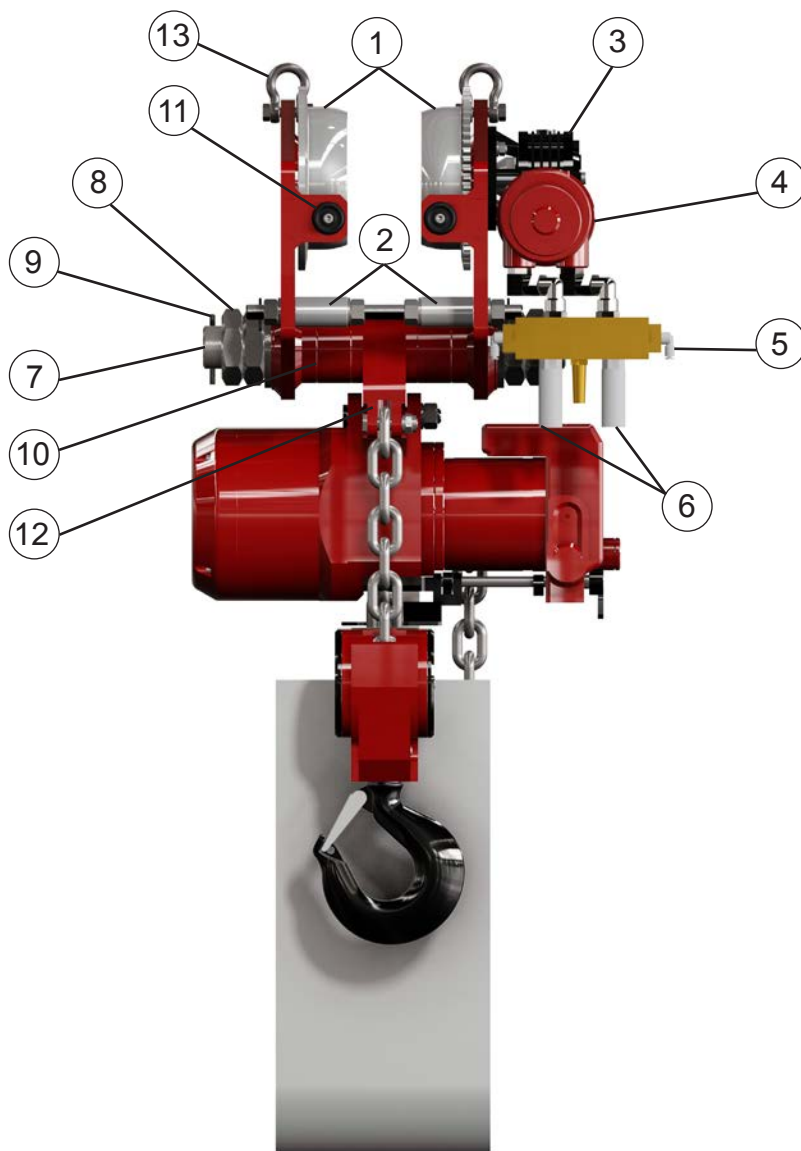
### TROLLEY - MODELS & SPECIFICATION

SWL (tonne)	MODEL	NO. OF WHEELS	NO. OF DRIVEN WHEELS	MIN BEND RADIUS (m)	MIN HOSE DIA (I/D)	AIR CONSUMPTION	SPEED (m/min)		
							A	B	C
Up to 2	AT2S	4	2	1.5	0.5"	25 l/sec	9	6	12
3	AT3S	4	2	2	0.75"	25 l/sec	6		12
6	AT6S	4	2	2.5	0.75"	25 l/sec	6		12
9 /10 /12	AT10S	4	2	2.5	1"	50 l/sec	8		-
15	AT15S	4	2	3	1"	50 l/sec	6		-
20	AT25S	4	2	3	1"	50 l/sec	4		-
25 x 4	AT25S	4	2	3	1"	50 l/sec	4		-
25 x 8	AT25-2S	8	4	Straight	1" / 1.25"	100 l/sec	6		-
35 x 8	AT37.5-2S	8	4	Straight	1" / 1.25"	100 l/sec	4		-
50 x 8	AT50-2S	8	4	Straight	1" / 1.25"	100 l/sec	4		-
STANDARD TROLLEY TEMPERATURE					-10°C to +50°C				
OPTIONAL TROLLEY TEMPERATURE					-20°C to +70°C				
AIR PRESSURE					6 Bar / 90 PSI				
WHEEL MATERIAL					STEEL / BRONZE				
Other trolley speeds available on request									

A= STANDARD, B= ATEX, C= OPTIONAL

TYPE	MODEL
Low Headroom	LHR
Ultra Low Headroom	ULH
Articulated	ART
Rack & Pinion	RP

We can also offer a range of special trolleys that with our vast experience, in house design and manufacturing facilities we can modify existing products or design to produce a custom made solution.



Images for illustration purposes only

1. Trolley wheels with sealed bearings (to suit flat or tapered beams)
2. Anti tilt rollers (can be set to suit flange)
3. Gear box (self locking)
4. Air motor
5. Control valve
6. Silencers (low noise levels)
7. Load bar (wide range to suit beam)
8. Lock nuts
9. Split pin
10. Adjusting spacers / washers (for easy adjustment)
11. Buffers (standard on ATEX units)
12. Link plate (to suit all Red Rooster hoists)
13. Lift points in side plates for shackles

## SECTION 1





## STANDARD PUSH AND GEARED TROLLEYS

SAFE WORKING LOAD -      Manual Trolley - 500 kg to 6 tonne  
   Geared Trolley - 500 kg to 10 tonne

Designed to operate with our range of pneumatic hoists our standard push and geared trolleys are easily adapted to be used with other manufacturers hoists or as part of a travelling system.

The trolleys are designed to work on a wide range of beam sizes and beam types with parallel or tapered flanges. The trolley can either have a lifting lug to hook in the hoist or be built in using a link plate. The versatile design and interchangeable parts can be used on a range of geared, low headroom, articulated and overhead crane units.

### FEATURES

- ▷ Good load to weight ratio
- ▷ Wheels profiled to run on parallel or tapered beams
- ▷ Steel or bronze wheels
- ▷ Sealed heavy duty bearings
- ▷ Anti drop plates
- ▷ Anti tilt rollers
- ▷ Easy to install
- ▷ Operates on curved beams, see specification for minimum radius
- ▷ Easily available spare parts at a realistic price
- ▷ Manufactured in the UK with EU motor gearbox
- ▷ Flange width up to 305mm

### EXTRA FEATURES / SPECIAL DESIGNS

- ▷ Collision bumpers
- ▷ Larger capacities available
- ▷ Rack and Pinion drive (geared)
- ▷ Special paint systems
- ▷ Special design to fit any beam
- ▷ Parking brake



## ATEX PUSH AND GEARED TROLLEYS

SAFE WORKING LOAD -      Manual Trolley - 500 kg to 6 tonne  
   Geared Trolley - 500 kg to 10 tonne

Designed to operate with our range of pneumatic hoists our ATEX push and geared trolleys are easily adapted to be used with other manufacturers hoists or as part of a travelling system.

The trolleys are designed to work on a wide range of beam sizes and beam types with parallel or tapered flanges. The trolley can either have a lifting lug to hook in the hoist or built in using a link plate. The versatile design and interchangeable parts can be used on a range of geared, low headroom, articulated and overhead crane units.

ATEX - According to EC directive 94/9/EC

ATEX classification - Group II 2 GD

### FEATURES

- ▷ Good load to weight ratio
- ▷ Wheels profiled to run on parallel or tapered beams
- ▷ Steel or bronze wheels
- ▷ Sealed heavy duty bearings
- ▷ Anti drop plates
- ▷ Anti tilt rollers
- ▷ Easy to install
- ▷ Operates on curved beams, see specification for minimum radius
- ▷ Easily available spare parts at a realistic price
- ▷ Manufactured in the UK with EU motor gearbox
- ▷ Flange width up to 305mm

### EXTRA FEATURES / SPECIAL DESIGNS

- ▷ ATEX ZONE 1
- ▷ Collision bumpers
- ▷ Larger capacities available
- ▷ Rack and Pinion drive (geared)
- ▷ Special paint systems
- ▷ Special design to fit any beam
- ▷ Parking brake



## OPTIONAL FEATURES AND CERTIFICATION

### OPTIONAL FEATURES

- ▷ Marine Specification/Corrosion resistant
- ▷ Paint systems from C2 - Industrial to C5 - Offshore specification (Red finish as standard. Other colours available on request)
- ▷ Choice of pendants
- ▷ Radio control pendant for electro pneumatic controls
- ▷ Control systems
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Various types of hook or clevis available
- ▷ Air supply systems and valves
- ▷ Piped away exhaust air
- ▷ In house design for "specials"

ATEX - According to EC Directive 94/9/EC (Ex Classification)

- ▷ Standard hoists are suitable for use in ZONE 2 areas certified as Group II 3 GD c IIA T4 (135°C)
- ▷ With extra protection can be used in ZONE 1 areas certified as Group II 2 GD c IIB T4 (135°C)
- ▷ Further protection allows the hoist to work in ZONE 1 areas certified as Group II 2 GD c IIC T4 (135°C) (not suitable for TCR Mini or TCS range)

### STANDARD DOCUMENTATION

- ▷ Report of Thorough Examination
- ▷ EC Declaration of Conformity (Machinery Directive)
- ▷ Hoist manual, safety instructions, parts lists

### ADDITIONAL DOCUMENTATION / CERTIFICATION\*

- ▷ Engineers check list
- ▷ Chain certificates
- ▷ Hook certificates
- ▷ Painting certificates
- ▷ ATEX certificate of Conformity or Declaration
- ▷ Certificate of Conformity
- ▷ Certificate of Origin
- ▷ Material certificates
- ▷ Witness tests - Lloyds Register, DNV, BV, etc.
- ▷ Documentation package, quality plan, procedures, factory acceptance tests, etc.

\*Available as part of documentation package. Extra charges will usually apply

Every Red Rooster product is subject to the most rigorous examination and test prior to dispatch. Our testing facilities allow us to carry out dynamic testing up to 65 tonne with static testing up to 400 tonne.

Red Rooster are specialists in the repair of our own and other manufacturer's hoists. After inspection, a report and quotation is issued to enable the customer to decide on the viability of the repair. Once authorized by the customer the repair is dealt with promptly and efficiently to ensure a speedy return.

The company has been certified by BSI to ISO 9001:2008 for quality and OHSAS 18001:2007 for Health & Safety system accreditations.



## CROSS HAULING WITH RED ROOSTER HOISTS

Like all air hoists, the Red Rooster hoist range is designed for vertical lifting.

Under special circumstances, cross hauling can be achieved with single or two-fall hoist models, up to an angle of 20 degrees from the vertical, with 25 degrees on some capacities under special conditions.

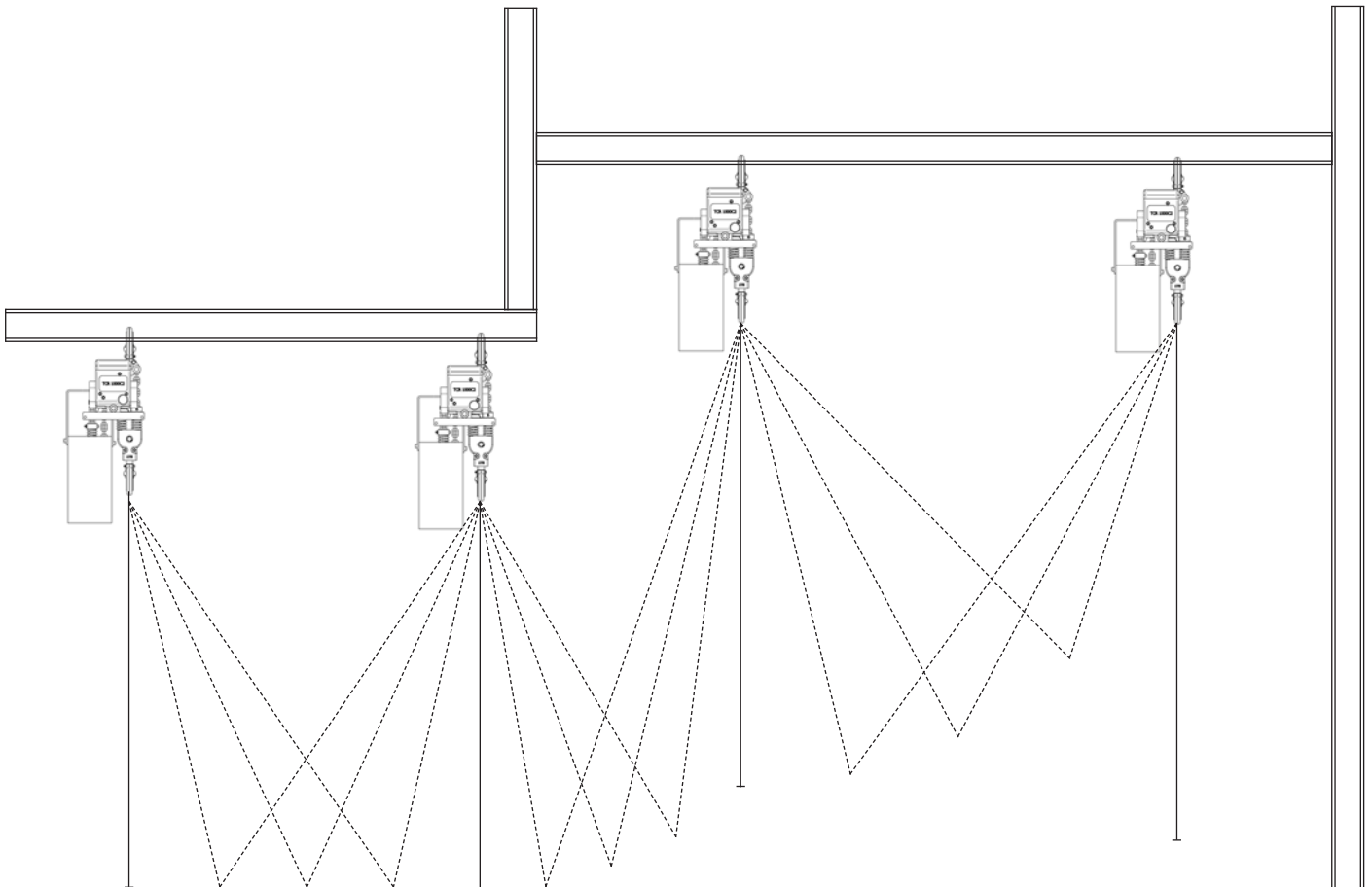
It is imperative that special precautions are in place for cross hauling applications - a lift plan, method statement and a risk assessment should be completed by a competent person and reviewed by the LOLER representative.

A site assessment should be carried out, checking the structure from which the hoists will be suspended, the hoist locations (route of travel), operator position and also the shape size and weight of the item to be cross hauled.

Site conditions should always be taken into account as different problems will be encountered at each site.

Red Rooster recommends tag lines be attached to the hoists and wherever possible, lower the load down to the next hoist at an angle letting it take the load, then raise at a much reduced angle.

For all cross hauling applications, please contact Red Rooster to confirm the suitability of our hoists for the application.



## SECTION 1

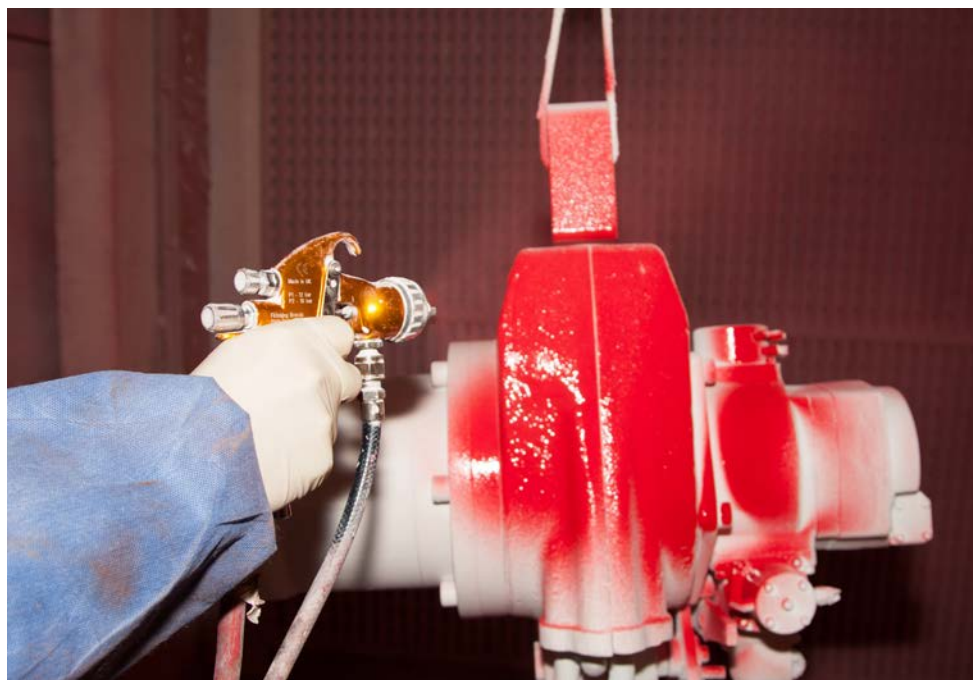
# MARINE AND CORROSIVE PROTECTION PAINT SYSTEMS

Red Rooster has established paint application systems to control the painting of our equipment based on ISO 12944. Our systems can also be used for several parts of NORSOK M501. These systems give good durability with resistance to water, abrasion, chemicals and have good flexibility.

For our C2 and C3 systems we use Jotun paints Penguard FC Epoxy. For the high marine specifications C4 and C5 we use an anti-corrosive primer with a hardtop CA acrylic top coat.

Corrosive category and risk	Examples of typical environments in a temperate climate (info only)	
	Exterior	Interior
C1 very low	-	Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels
C2 low	Atmospheres with low level of pollution. Mostly rural areas	Unheated buildings where condensation may occur, e.g. depots, sports halls
C3 medium	Urban and industrial atmospheres, moderate sulphur dioxide pollution. Coastal area with low salinity	Production rooms with high humidity and some air pollution e.g. food-processing plants, laundries, breweries, dairies
C4 high	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal, ship and boatyards
C5-1 very high (industrial)	Industrial areas with high humidity and aggressive atmosphere	Buildings or areas with almost permanent condensation and high pollution
C5-M very high (marine)	Coastal and offshore areas with high salinity	Buildings or areas with almost permanent condensation and high pollution

A specialist painting contractor is used when other painting specifications are required. Not all painting systems are suitable for use on our air hoist and trolleys due to the shape and size of the equipment.



## SECTION 1



At Red Rooster we aim to offer you, the customer, the equipment you need when you need it.

Our experienced staff will help advise you with your equipment needs and will quickly confirm price and availability. From our stock of over 400 hoists, winches, load cells and other lifting solutions we can offer something to meet your requirements. A large part of our rental hoists and trolleys are 10 tonne to 50 tonne capacity.

Our hire rates reflect the length of hire, the quantity of equipment and specification required. From our head office in Aberdeen, depots in West Bromwich and Krakow Poland and our sister company Red Rooster Norge in Stavanger, we can supply our range of equipment worldwide at the most competitive rates possible.

### SERVICE, QUALITY AND RELIABILITY

By including only Red Rooster products on our rental fleet we have both the in-house expertise and spare parts available to maintain our rental fleet to the highest standard. We carry in excess of £100,000 of spare parts for pneumatic hoists alone.

On completion of every hire the equipment is inspected, dismantled, refurbished and function tested prior to return to store. For every hire, the equipment is prepared as per the customers specification and then tested again before dispatch.

We always endeavour to meet the required delivery 'no matter how challenging'. Technical support is always available. In the unlikely event of a problem, advice, spares, service or a replacement unit is available at short notice.

### BENEFITS

- ▷ Hiring from a company you can trust
- ▷ Fast availability of large quantities and capacities of equipment
- ▷ Delivered to your site on the day agreed ready for use
- ▷ Competitive rates, structured to take into account the hire duration
- ▷ Leave plant maintenance to the specialists (allowing you to concentrate on your business)
- ▷ Avoid capital outlay, pay for only what you use and spread out-goings throughout the hire
- ▷ Technical support: free evaluation of your requirements
- ▷ On-site assistance
- ▷ Equipment can be tailored to solve your specific needs
- ▷ Rental with the purchase option on request
- ▷ Fully certified equipment supplied with the necessary certification and rental manual
- ▷ Operators can be supplied along with the equipment

## PNEUMATIC HOISTS

The full range of Red Rooster standard pneumatic hoists, trolleys and low headroom units found in this catalogue are available for hire from 250 kg to 50 tonne. We have chains available to give up to 100m height of lift on the smaller models and 50m on the 35 tonne and 50 tonne hoists, but we can supply longer heights of lift for special orders. We can supply cord control units or pendant control with a mains emergency stop. At present we have over 400 hoists fitted with the required safety features such as upper and lower limits, emergency stops and load limiters. We also supply chain collectors for most heights of lift, hose support brackets, ATEX units, air pigs and air hoses.

## PNEUMATIC TROLLEYS

Our rental trolleys are to suit capacities from 250 kg to 50 tonne, can fit a wide range of beam sizes, different speeds and can be either standard or ATEX units. We also have a range of low headroom trolleys.

Other items available for hire include:

- ▷ Electric hoists
- ▷ Pneumatic winches
- ▷ Load measuring equipment
- ▷ Large capacity KITO manual chain blocks
- ▷ Ultra low headroom hoists
- ▷ Spooling winches





Explosive atmospheres can be caused by flammable gases, mists or vapours, or by combustible dusts. If there is enough of a substance mixed with air then all it needs is a source of ignition to cause an explosion. Preventing release of dangerous substances and controlling potential sources of ignition are two widely used ways of reducing risk.

### WHY DO WE NEED ATEX CERTIFICATION

- ▷ If you manufacture a product that is to be used in a potentially explosive environment and you want to sell in the European Union, then you will need to apply the CE and Ex mark on it.
- ▷ The ATEX 94/9/EC Directive (ATEX 95) covers both electrical and mechanical equipment which is split into two categories of equipment, Group I mining & Group II above ground.
- ▷ Our lodgment is for mechanical non electrical equipment which are capable of causing their own source of ignition.

All standard Red Rooster pneumatic hoists and trolleys from 250 kg to 50 tonne can be certified for use in ZONE 2 areas and with additional protection built into the hoist they can be certified for ZONE 1 use. The preparation work required to be carried out on our hoists varies on the protection level requested by the customer. With the information on where the hoist will be operating we prepare hoists to be suitable for the zone, gas group and temperature rating.

Red Rooster's lodgement COV0912421/1 filed with Lloyds Register covers the range of ATEX units we manufacture.

The TCR, TNC & TCS ranges of hoists are heavy duty units with a wide range of uses in a variety of industries all over the world. The ATEX range of hoists are built to stand up to different environments making them safe to use in explosive atmospheres.

Depending on the classification we bronze spray hooks, fit stainless steel safety catches, use either zinc plated or stainless steel load chain and fit stainless steel chain collectors.

Red Rooster pneumatic trolleys, geared trolleys and push trolleys are fitted with bronze wheels, bronze anti-tip rollers, rubber buffers and air trolleys have ATEX rated air motors, gearboxes and valves. Our trolleys are suitable for a range of beam sizes and profiles, with rack and pinion, beam brake, low headroom and ultra low headroom units available in most capacities.

We also do a range of ATEX pneumatic wire rope hoists built to suit customer requirements. These hoist units have been fully converted to air powered units from ATEX certified parts covered by our risk assessment for the process and parts used in manufacture.

Our range of ATEX overhead cranes are manufactured to order with capacities from 250 kg to 20 tonne, which can be supplied as push travel, geared travel or pneumatic cranes. The cranes can be supplied complete or in kit form for final assembly on site with various designs of overhead cranes and swing jibs available or designed to order.



## ATEX DIRECTIVE

ATEX comes from the French words “ATmosphères EXplosibles” which is the name commonly given to the two European Directives for controlling explosive atmospheres. The aim of the directive 94/9/EC is to allow free trade of ATEX equipment within the EU. Some other parts of the world do not have regulations on non electrical equipment in explosive areas and have also adopted the ATEX directive.

- ▷ Directive 94/9/EC (ATEX 95) is for the manufacturers of equipment used in explosive atmospheres.
- ▷ Directive 99/92/EC (ATEX 137) is for the health and safety protection of workers and manufacturers of installations within a potentially explosive atmosphere.

In the UK Directive 99/92/EC has been put into effect through regulations 7 and 11 of the Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR). This applies to most workplaces where an explosion may occur, so employers must carry out risk assessments to classify different Zones to ensure that the correct equipment can be selected for that specific area. These risk assessments should be kept on file and the classification for that area passed on to manufacturers or suppliers when selecting the correct equipment. This equipment should be of the same or higher classification.



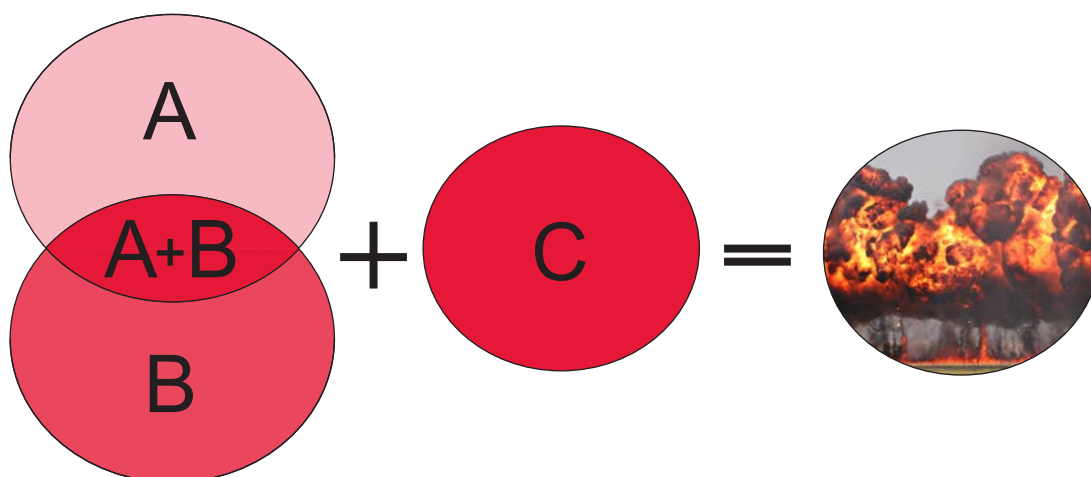
## SECTION 3



An explosive atmosphere is defined as a mixture of dangerous substances with air, under atmospheric conditions, in the form of gases, vapours, mist or dust in which after ignition has occurred, combustion spreads to the entire unburned mixture.

Dangerous gases, dusts, mists and vapours are produced in many workplaces such as agriculture, waste disposal, recycling, wood processing, metal processing, paint shops, food industry, pharmaceuticals, refineries, power generation, chemical industry, mining and in the exploration and production of oil and gas. Even in non hazardous production process gas may leak from cylinders or leaking pipes.

**An explosion can only take place when the following 3 factors coincide**

**A****Combustable Substance**  
gas, dust, vapour, mist**B****Oxidizing Agent**  
oxygen in the air**C****Ignition Source**  
spark, hot surface, flame, static

## SECTION 3





## EXPLOSION PROTECTION



**RED ROOSTER**  
**INDUSTRIAL (UK) LTD**

Explosion protection can mean to generally prevent the occurrence of an explosion mixture. Explosion protection can also be achieved by eliminating potential ignition sources in advance, e.g. high temperatures and sparking by designing components accordingly and by permanent monitoring of operation, or by using a flame-proof enclosure for the source of ignition to protect the surrounding area against possible effects of an internal explosion.

Primary explosion protection	Prevent the formation of explosive atmospheres.
Secondary explosion protection	Prevent the ignition of potentially explosive atmospheres.
Tertiary explosion protection	Restricts the effects of an explosion.

## DUST EXPLOSION PROTECTION

Powder or dust like products are the by product of many farming, mining and industrial processes. This hazardous dust can be produced by grain, wood, paper, metals and coal in industries such as plastic, chemical and many others. Many of these powders and dusts are inflammable but under certain circumstances they can explode.

Dust explosions can be far more dangerous than gas explosions as the initial dust explosion can move more dust into the air creating further explosions and can cause destruction over a large area. A dust layer of less than 1mm is enough, when stirred up and mixed with oxygen, to create an explosion.



### EQUIPMENT GROUPS, CATEGORIES AND ZONE CLASSIFICATION

Group	Category	Level of Protection	Risk Zone
I Mining	M(1)	Mechanical equipment - Energised <b>Very high</b> level of protection - Equipment must continue to operate in an explosive atmosphere.	0, 1, 2 (Gases) 20, 21, 22 (Dust)
I Mining	M(2)	Mechanical equipment - De-energised <b>High</b> level of protection. Equipment must shut down if an explosive atmosphere occurs.	1, 2 (Gases) 21, 22 (Dust)
II Non-mining	1	<b>Very high</b> level of protection, where gas, dust or vapour mixtures are present continuously or for long periods.	0, 1, 2 (Gases) 20, 21, 22 (Dust)
II Non-mining	2	<b>High</b> level of protection, where gas, dust or vapour mixtures are likely to occur occasionally.	1, 2 (Gases) 21, 22 (Dust)
II Non mining	3	<b>Normal</b> protection. Where gas, dust or vapour mixtures are unlikely to occur and only for short periods.	2 (Gases) 22 (Dust)

### EXPLOSION ZONE CLASSIFICATION

<b>ZONE 0 (Gas/vapours)</b>	An area in which an explosive mixture is continuously present or present for long periods.
<b>ZONE 1 (Gas/vapours)</b>	An area in which an explosive mixture is likely to occur in normal operation.
<b>ZONE 2 (Gas/vapours)</b>	An area in which an explosive mixture is not likely to occur in normal operation and if it occurs it will exist only for a short time.
<b>ZONE 20 (Dust)</b>	An area in which an explosive mixture is continuously present or present for long periods
<b>ZONE 21 (Dust)</b>	An area in which an explosive mixture is likely to occur in normal operation.
<b>ZONE 22 (Dust)</b>	An area in which an explosive mixture is not likely to occur in normal operation and if it occurs it will exist only for a short time.

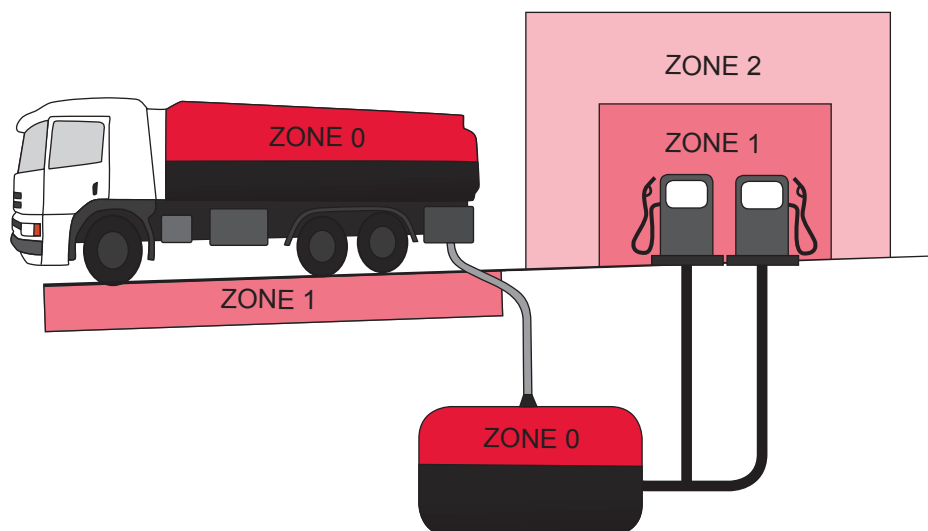


## HAZARDOUS AREAS

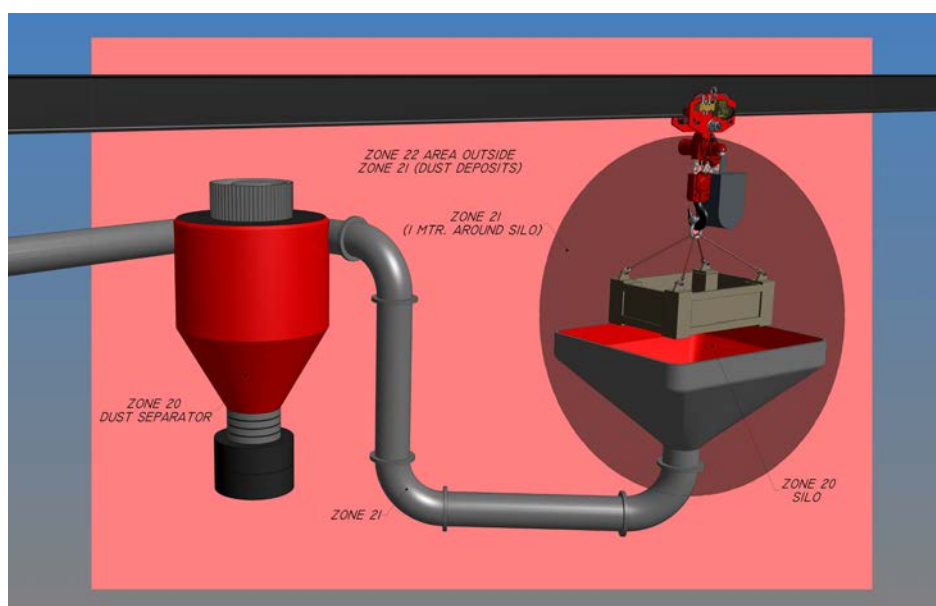


**RED ROOSTER**  
INDUSTRIAL (UK) LTD

### GAS ATMOSPHERES



### DUST ATMOSPHERES



The above diagrams are simple examples of explosive atmospheres within industry. Each site may differ.

## SECTION 3



## TEMPERATURE CLASSES

The auto ignition temperature is the temperature in °C at which a gas will spontaneously ignite without another source of ignition.

Temperature Classes	Max Surface Temperature	Ignition Temperature range of mixture
T1	450°C	> 450°C
T2	300°C	>300 to 450°C
T3	200°C	>200 to 300°C
T4	135°C	>135 to 200°C
T5	100°C	>100 to 135°C
T6	85°C	>85 to 100°C

## GAS GROUPS

Gases are divided into two groups:

Group I - For mines susceptible to Methane.

Group II - For gases in locations other than mines, which are divided into three sub groups:

IIA - For atmospheres containing propane or gases of an equivalent hazard.

IIB - For atmospheres containing ethylene or gases of an equivalent hazard.

IIC - For atmospheres containing hydrogen or gases of an equivalent hazard.

Equipment for Group II used in an explosive area is also classified by the gas group.

Gas group of the explosive atmosphere	Equipment with the same or higher gas group marking can be used in the area
IIA	IIA, IIB, IIC
IIB	IIB, IIC
IIC	IIC



## EXPLOSIVE ATMOSPHERES



**RED ROOSTER**  
INDUSTRIAL (UK) LTD

### CLASSIFICATION OF COMBUSTIBLE GASES, VAPOURS AND MISTS

Explosion groups and temperature classes of a selection of gases and vapours

Ex Group	Temperature Classes					
	T1	T2	T3	T4	T5	T6
	Ignition temperature range of the mixture					
	>450°C	>300 ≤ 450°C	>200 ≤ 300°C	>200 ≤ 135°C	>135 ≤ 100°C	>100 ≤ 85°C
IIA	Permissible max, surface temperature of the equipment					
	450°C	300°C	200°C	135°C	100°C	85°C
	Acetone	Ethanol	Petrol (general)	Acetaldehyde		
	Ammonium	i-Amyl Acetate	Diesel fuels			
IIB	Benzene (pure)	n-Butane	Aircraft fuels			
	Acetic Acid	n-Butanol	Fuel oil DIN 51603			
	Ethane	Cyclohexan	n-Hexane			
	Ethyl Acetate	Acetic Anhydride				
	Ethyl Chloride					
	Carbon Monoxide					
	Methane					
	Methanol					
	Methyl Chloride					
	Napthalene					
	Phenol					
	Propane					
	Toluene					
	City Gas	Ethylene	Ethylene Glycol	Ethyl Ether		
IIC		Ethylene Oxide	Hydrogen			
	Hydrogen	Acetylene				Carbon Disulphide

### ATEX MARKING

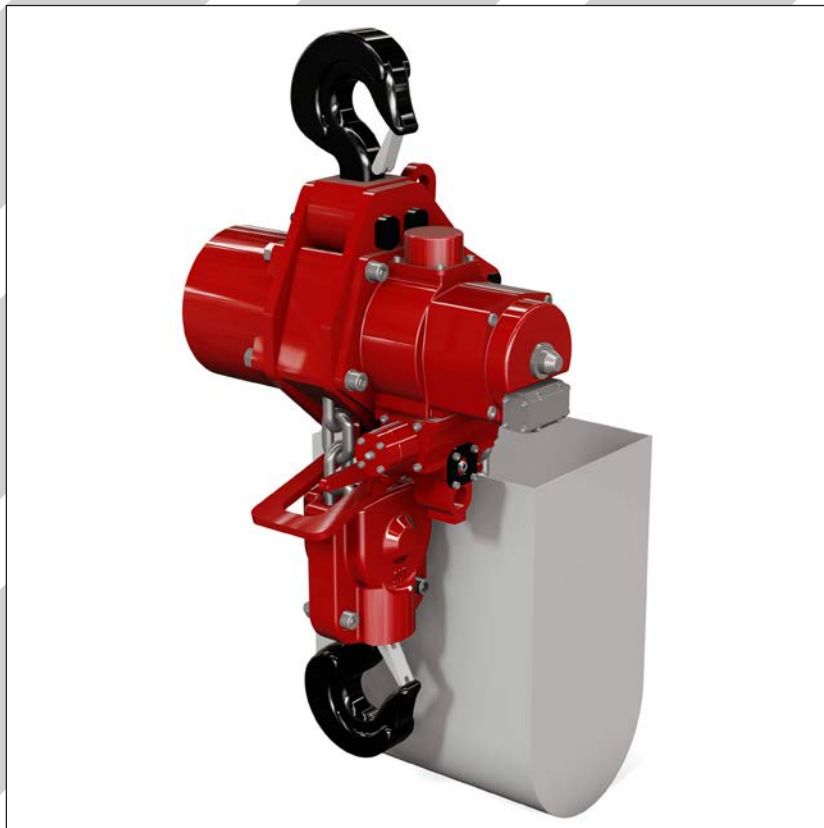
**CE** **Ex** **II 2 GD c T4 (135°C)**

CE - mark permitted by the European Committee for the Electro-technical Standardisation	Identification for protection against explosions	Equipment group I - Mining application II - Non-mining application	Safety Category 1 - Extremely high 2 - High 3 - Normal	Explosive Atmosphere G - Gas D - Dust	Protection Type p = pressurised enclosure d = flame-proof enclosure e = increased safety nA = non-sparking i = intrinsic c = construction safety b = ignition source monitoring k = liquid immersion	Temperature Class Temperature limit T1 - max. 450°C T2 - max. 300°C T3 - max. 200°C T4 - max. 135°C T5 - max. 100°C T6 - max. 85°C
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## SECTION 3



## PNEUMATIC HOISTS



Red Rooster pneumatic hoists comply with the European Machinery Directive and are CE marked.

Our ISO 9001:2008 Quality System is accredited by BSI.

# BENCH HANDLING HOIST

## STANDARD FEATURES

- ▷ Toku rotary vane motor.
- ▷ Handle mounted pendant for one handed operation
- ▷ Failsafe automatic internal disc brake
- ▷ Variable Speed
- ▷ Self-winding galvanised cable
- ▷ Cast aluminium housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks c/w safety catch

## AVAILABLE OPTIONS

- ▷ Special paint systems
- ▷ Air service units
- ▷ Festoon systems
- ▷ Beam trolleys

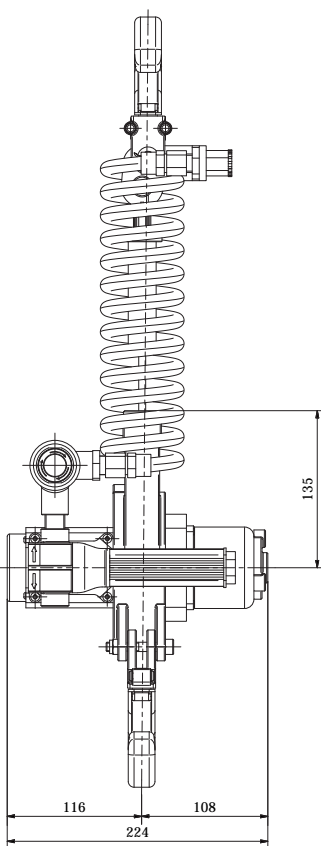
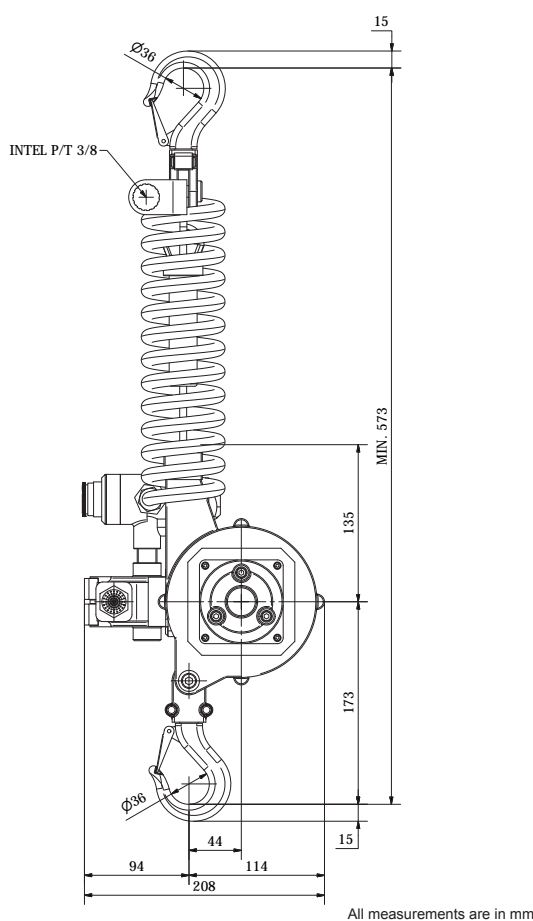


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MODEL	WLL	LIFTING SPEED WITH LOAD	AIR CONNECTION	MIN HOSE DIA.
	140 kg	11.0 m/min	3/8" BSP	1/2" HOSE
TMM-140A	LIFTING SPEED WITHOUT LOAD		AIR CONSUMPTION LIFTING	
	15.0 m/min		8 l/sec	
	WORKING PRESSURE		FALLS	WEIGHT
	6 bar		1 (cable)	9.5 kg

Information subject to change without notice

Ideal work bench hoist  
 Lightweight  
 Portable  
 Weighs less than 10kg  
 Max height of 2 metres  
 Operates at 100% duty cycle

## TMM-140A

## MINI CHAIN HOISTS

### STANDARD FEATURES

- ▷ Compact and lightweight body
- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Aluminium housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 4 x 12mm of European manufacture to EN818-7

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

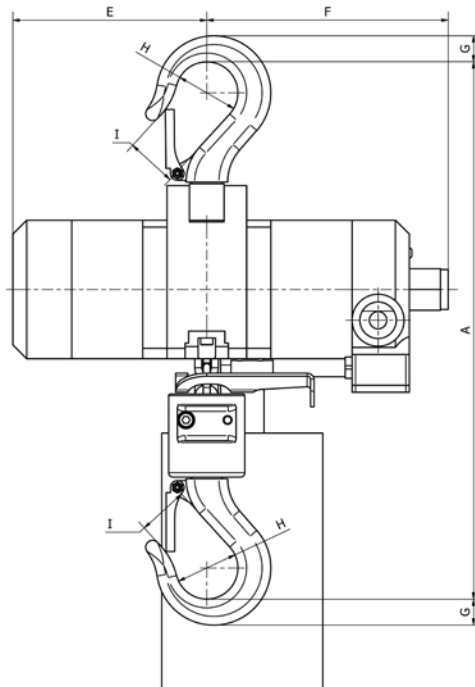
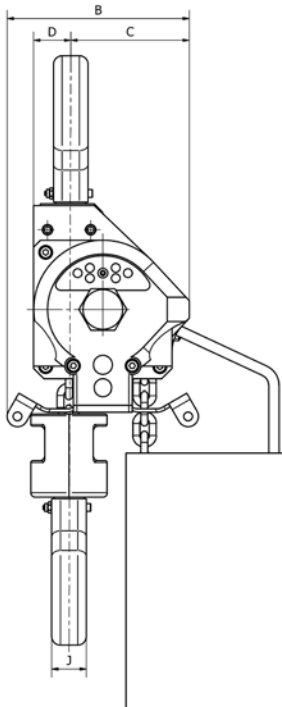
MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TCR-250	250 kg	9.3 m/min	19.0 m/min	17.9 m/min
TCR-500/2	500 kg	4.6 m/min	9.5 m/min	9.0 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TCR-250	13 l/sec	15 l/sec	1/2" BSP	1/2" HOSE
TCR-500/2	13 l/sec	15 l/sec	1/2" BSP	1/2" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TCR-250	1	6 bar	7.0 kg	0.35 kg
TCR-500/2	2	6 bar	9.0 kg	0.7 kg

C = CORD CONTROL

DPE = PENDANT



Image for illustration purposes only



MODEL	A	B	C	D	E	F	G	HØ	I	J
TCR-250	310	105	69	22	112	140	15	35	22	20
TCR-500/2	360	118	83	35	112	140	15	36	22	20

All measurements are in mm  
Information subject to change without notice

**TCR-250**  
**TCR-500/2**

# HIGH SPEED HOISTS



**RED ROOSTER**  
INDUSTRIAL (UK) LTD

## STANDARD FEATURES

- ▷ Lightweight aluminium housing
- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 6.3 x 19mm of European manufacture to EN818-7

## AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TCS-500	500 kg	17.0 m/min	33.0 m/min	34 m/min
TCS-980	980 kg	8.5 m/min	17.0 m/min	17 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TCS-500	28 l/sec	33 l/sec	1/2" BSP	1/2" HOSE
TCS-980	28 l/sec	33 l/sec	1/2" BSP	1/2" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TCS-500	1	6 bar	19.0 kg	0.8 kg
TCS-980	2	6 bar	23.5 kg	1.6 kg

C = CORD CONTROL

DP = PENDANT

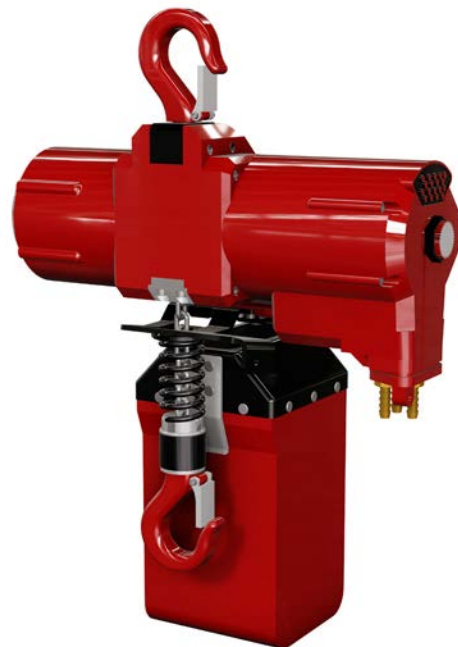
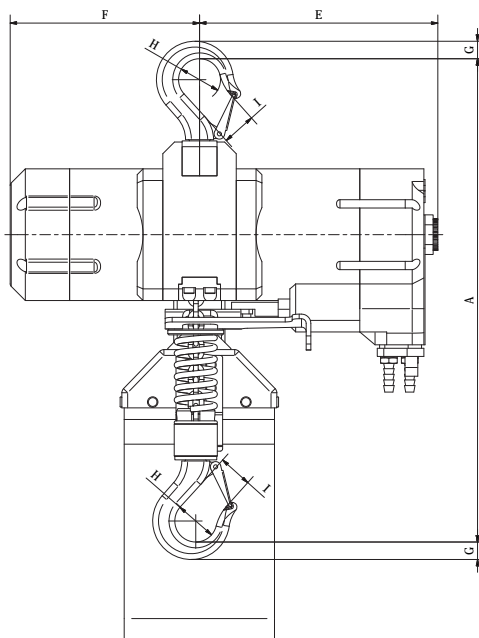
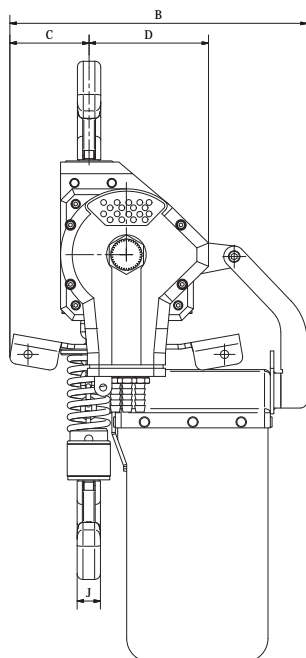


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MODEL	A	B	C	D	E	F	G	HØ	I	J
TCS-500	415	255	103	68	205	163	15	35	22	22
TCS-980	510	205	123	37	163	205	30	40	29	25

All measurements are in mm  
Information subject to change without notice

**TCS-500**  
**TCS-980**

## PNEUMATIC CHAIN HOISTS

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 6.3 x 19mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

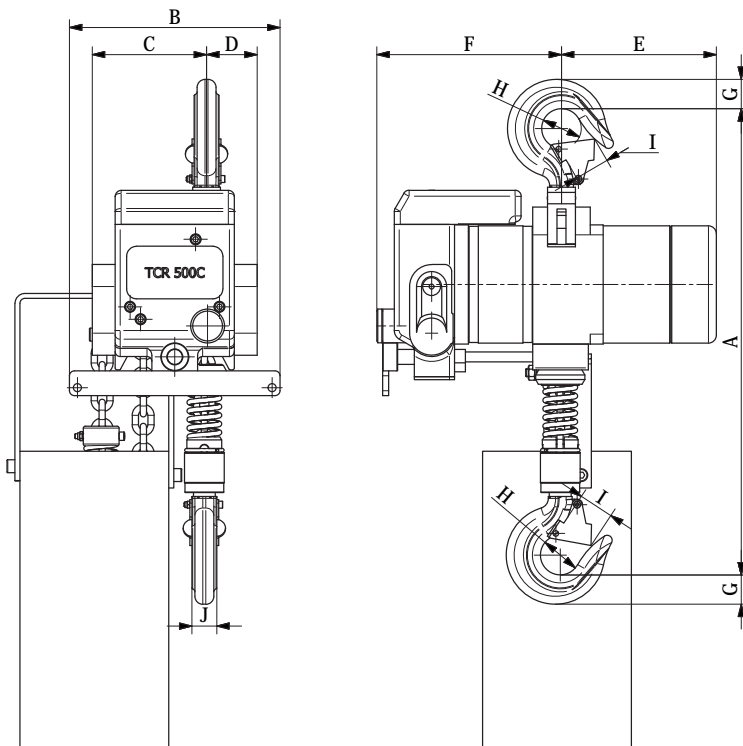
MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TCR-500	250 kg / 500 kg	12 / 10.5 m/min	16.0 m/min	17.9 m/min
TCR-1000/2	1000 kg	5.3 m/min	9.5 m/min	9.0 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TCR-500	25 l/sec	27 l/sec	1/2" BSP	1/2" HOSE
TCR-1000/2	25 l/sec	27 l/sec	1/2" BSP	1/2" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TCR-500	1	6 bar	31.1 kg	0.8 kg
TCR-1000/2	2	6 bar	35.2 kg	1.6 kg

C = CORD CONTROL

PE = PENDANT



Image for illustration purposes only



MODEL	A	B	C	D	E	F	G	HØ	I	J
TCR-500	460	212	115	51	156	186	29	40	29	25
TCR-1000/2	519	212	139	27	156	186	29	40	29	25

All measurements are in mm  
 Information subject to change without notice

**TCR-500**  
**TCR-1000/2**



FULL RANGE OF QUALITY PNEUMATIC HOISTS  
FOR INDUSTRIAL AND MARINE APPLICATIONS

#### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 7 x 21mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

#### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TCR-1000	1000 kg	6.0 m/min	11.3 m/min	10.3 m/min
TCR-2000/2	2000 kg	3.0 m/min	5.7 m/min	5.2 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TCR-1000	25 l/sec	28 l/sec	1/2" BSP	1/2" HOSE
TCR-2000/2	25 l/sec	30 l/sec	1/2" BSP	1/2" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TCR-1000	1	6 bar	34.0 kg	1.1 kg
TCR-2000/2	2	6 bar	39.7 kg	2.2 kg

C = CORD CONTROL PE = PENDANT

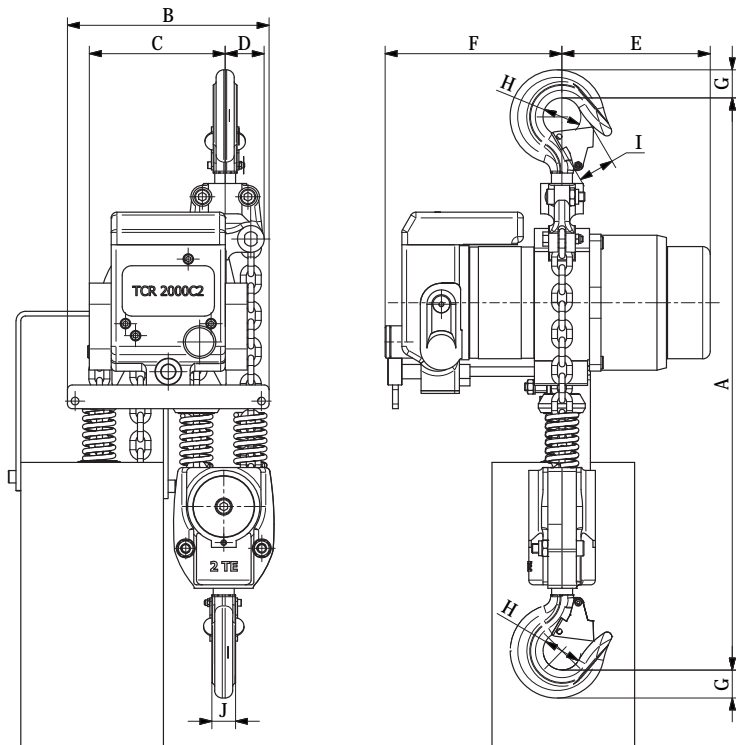


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MODEL	A	B	C	D	E	F	G	HØ	I	J
TCR-1000	485	212	116	40	156	186	29	40	29	25
TCR-2000/2	595	212	143	50	156	186	37	45	29	30

All measurements are in mm  
Information subject to change without notice

**TCR-1000**  
**TCR-2000/2**

## PNEUMATIC CHAIN HOISTS

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 11.2 x 34mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

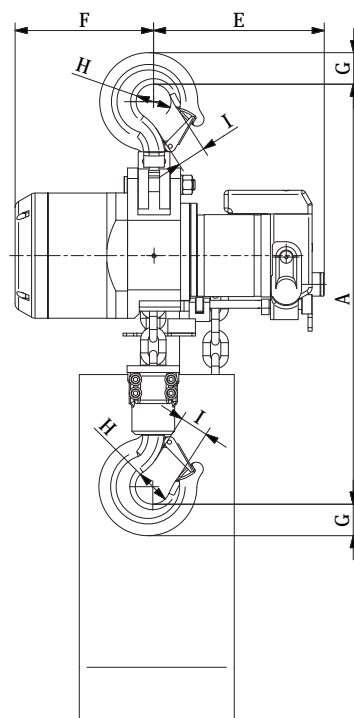
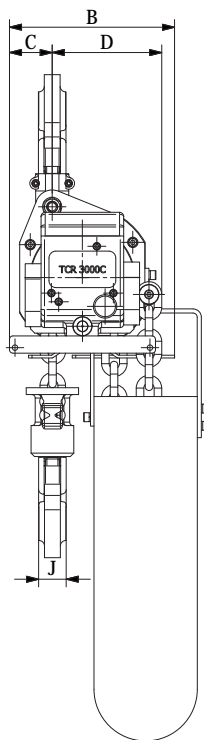
MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TCR-3000	3000 kg	2.8 m/min	5.7 m/min	4.6 m/min
TCR-6000/2	6000 kg	1.4 m/min	2.9 m/min	2.3 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TCR-3000	33 l/sec	43 l/sec	1/2" BSP	3/4" HOSE
TCR-6000/2	33 l/sec	43 l/sec	1/2" BSP	3/4" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TCR-3000	1	6 bar	69 kg	2.7 kg
TCR-6000/2	2	6 bar	91 kg	5.4 kg

C = CORD CONTROL

PE = PENDANT



Image for illustration purposes only



MODEL	A	B	C	D	E	F	G	HØ	I	J
TCR-3000	563	240	62	159	248	201	45	50	34	35
TCR-6000/2	695	270	65	185	247	202	49	65	42	42

All measurements are in mm  
Information subject to change without notice

**TCR-3000**  
**TCR-6000/2**

FULL RANGE OF QUALITY PNEUMATIC HOISTS  
FOR INDUSTRIAL AND MARINE APPLICATIONS

#### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 11.2 x 34mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

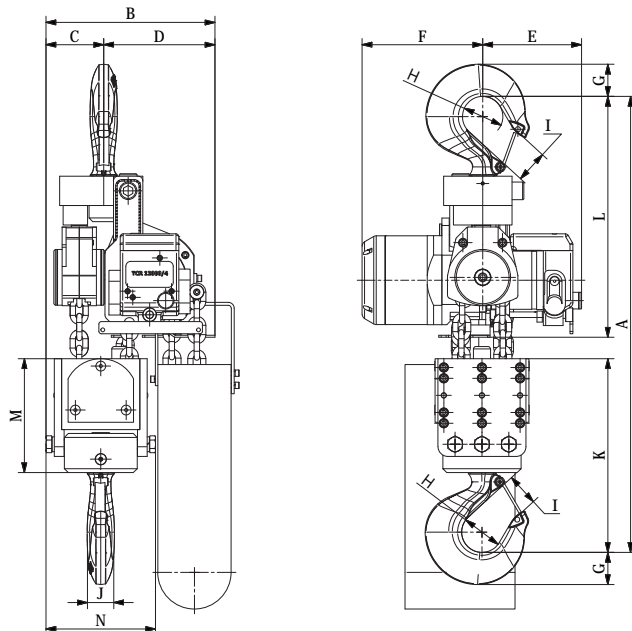
#### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TCR-9000/3	9000 kg	0.9 m/min	1.9 m/min	1.5 m/min
TCR-12000/4	12000 kg	0.6 m/min	1.4 m/min	1.1 m/min
TCR-15000/5	15000 kg	0.5 m/min	1.1 m/min	0.9 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TCR-9000/3	33 l/sec	43 l/sec	1/2" BSP	3/4" HOSE
TCR-12000/4	33 l/sec	43 l/sec	1/2" BSP	3/4" HOSE
TCR-15000/5	33 l/sec	43 l/sec	1/2" BSP	3/4" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TCR-9000/3	3	6 bar	150 kg	8.1 kg
TCR-12000/4	4	6 bar	170 kg	10.8 kg
TCR-15000/5	5	6 bar	210 kg	13.5 kg

C = CORD CONTROL

PE = PENDANT



MODEL	A	B	C	D	E	F	G	HØ	I	J	K	L	M	N
TCR-9000/3	842	378	114	140	247	202	60	75	53	42	370	439	220	240
TCR-12000/4	950	346	118	228	202	247	67	84	58	52	396	493	233	224
TCR-15000/5	950	403	110	293	211	238	67	84	58	52	391	431	230	280

All measurements are in mm  
Information subject to change without notice



Image for illustration purposes only

**TCR-9000/3**  
**TCR-12000/4**  
**TCR-15000/5**

## PNEUMATIC CHAIN HOISTS

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 16 x 45mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

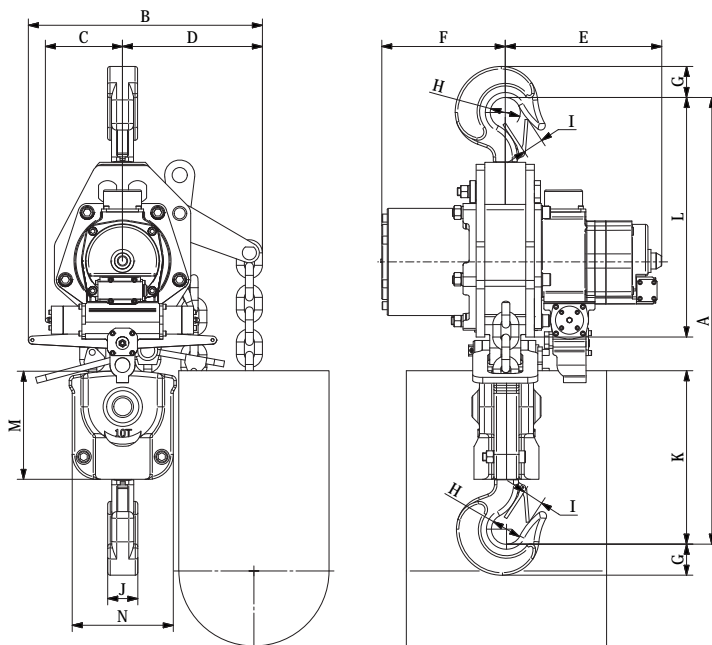
- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TNC-10TWLPE	10000 kg	1.5 m/min	2.5 m/min	2.3 m/min
TNC-15TW/3	15000 kg	1.0 m/min	1.6 m/min	1.5 m/min
TNC-20TW/4	20000 kg	0.75 m/min	1.25 m/min	1.15 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TNC-10TWLPE	90 l/sec	100 l/sec	1" BSP	1" HOSE
TNC-15TW/3	90 l/sec	100 l/sec	1" BSP	1" HOSE
TNC-20TW/4	90 l/sec	100 l/sec	1" BSP	1" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TNC-10TWLPE	2	6 bar	210 kg	11.4 kg
TNC-15TW/3	3	6 bar	320 kg	17.1 kg
TNC-20TW/4	4	6 bar	470 kg	22.8 kg

C = CORD CONTROL PE = PENDANT



Image for illustration purposes only



MODEL	A	B	C	D	E	F	G	HØ	I	J	K	L	M	N
TNC-10TWLPE	890	467	154	279	313	247	62	60	40	55	345	480	217	202
TNC-15TW/3	1100	676	217	459	312	248	67	84	58	52	441	521	275	395
TNC-20TW/4	1220	789	250	539	313	247	80	110	78	64	493	553	285	530

All measurements are in mm  
Information subject to change without notice

**TNC-10TWLPE**  
**TNC-15TW/3**  
**TNC-20TW/4**

## HEAVY DUTY RANGE OF HOISTS FOR THE MOST DEMANDING APPLICATIONS

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 22 x 66mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TNC-25TWLPE	25000 kg	0.6 m/min	1.0 m/min	0.7 m/min
TNC-37.5TW/3	37500 kg	0.35 m/min	0.6 m/min	0.5 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TNC-25TWLPE	90 l/sec	100 l/sec	1" BSP	1" HOSE
TNC-37.5TW/3	90 l/sec	100 l/sec	1" BSP	1" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TNC-25TWLPE	2	6 bar	490 kg	21.8 kg
TNC-37.5TW/3	3	6 bar	870 kg	32.7 kg

C = CORD CONTROL PE = PENDANT

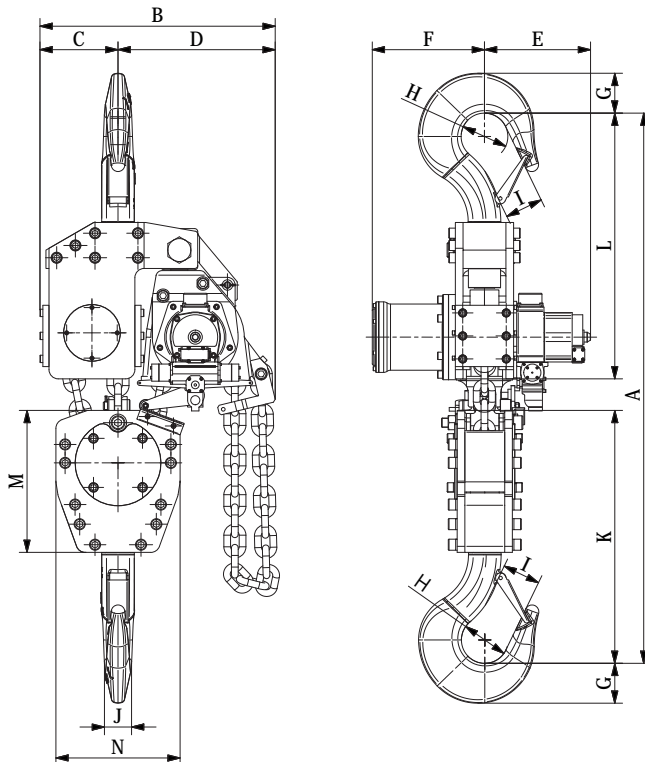


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MODEL	A	B	C	D	E	F	G	HØ	I	J	K	L	M	N
TNC-25TWLPE	1400	478	165	313	346	365	103	125	80	82	655	720	375	320
TNC-37.5TW/3	1765	767	255	513	346	366	118	125	90	95	808	855	463	405

All measurements are in mm  
Information subject to change without notice

**TNC-25TWLPE**  
**TNC-37.5TW/3**



## PNEUMATIC CHAIN HOISTS

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 22 x 66mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

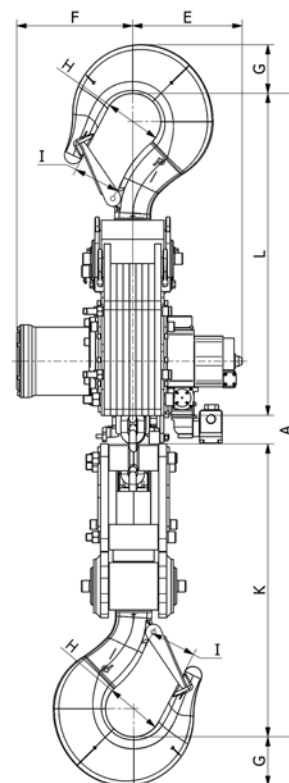
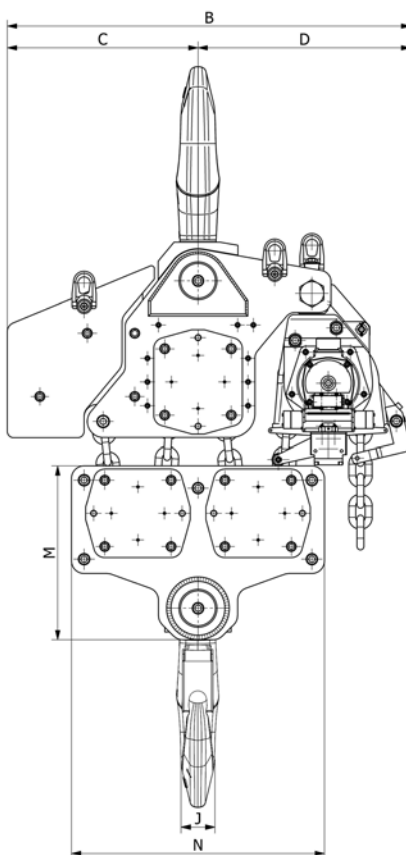
- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TNC-50TW/4(H)	50000 kg	0.3 m/min	0.4 m/min	0.35 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TNC-50TW/4(H)	90 l/sec	100 l/sec	1" BSP	1" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TNC-50TW/4(H)	4	6 bar	1110 kg	43.6 kg

C = CORD CONTROL PE = PENDANT



Image for illustration purposes only



MODEL	A	B	C	D	E	F	G	HØ	I	J	K	L	M	N
TNC-50TW/4(H)	2033	1276	603	673	346	366	132	140	100	106	926	1018	550	800

All measurements are in mm  
Information subject to change without notice

**TNC-50TW/4(H)**  
**WITH HOOKS**



## HEAVY DUTY RANGE OF HOISTS FOR THE MOST DEMANDING APPLICATIONS

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Mechanical upper & lower switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain 22 x 66mm of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Corrosion protection
- ▷ ATEX specification
- ▷ Chain collectors (galvanised or stainless steel)
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control
- ▷ Main air shut off valve

MODEL	WLL	LIFTING SPEED WITH LOAD	LIFTING SPEED WITHOUT LOAD	LOWERING SPEED WITH LOAD
TNC-50TW/4(S)	50000 kg	0.3 m/min	0.4 m/min	0.35 m/min
	AIR CONSUMPTION LIFTING	AIR CONSUMPTION LOWERING	AIR CONNECTION	MINIMUM HOSE DIA.
TNC-50TW/4(S)	90 l/sec	100 l/sec	1" BSP	1" HOSE
	CHAIN FALLS	WORKING PRESSURE	WEIGHT WITH 3M HOL	ADDITIONAL METRE HOL
TNC-50TW/4(S)	4	6 bar	1110 kg	43.6 kg

C = CORD CONTROL PE = PENDANT

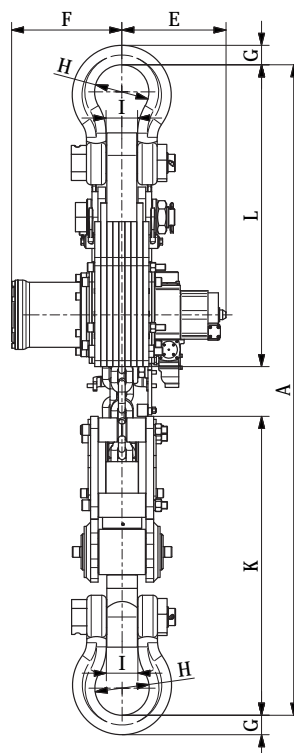
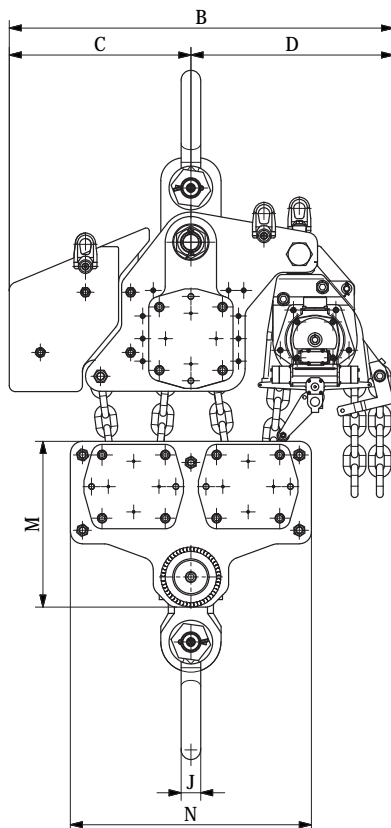


Image for illustration purposes only

MODEL	A	B	C	D	E	F	G	HØ	I	J	K	L	M	N
TNC-50TW/4(S)	2160	1276	603	673	346	366	65	180	105	65	990	1000	550	800

All measurements are in mm  
Information subject to change without notice

**TNC-50TW/4(S)  
WITH SHACKLES**



# **PNEUMATIC HOISTS & TROLLEY RANGE**

Red Rooster pneumatic hoists comply with the  
European Machinery Directive and are CE marked.

Our ISO 9001:2008 Quality System is accredited by BSI.



## PNEUMATIC CHAIN HOIST & TROLLEY

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Choice of pendant controls or control stations
- ▷ Upper & lower limit switches
- ▷ Lightweight aluminium housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture to EN818-7
- ▷ Trolley to suit various flange profiles
- ▷ Anti-tilt & anti-drop plates
- ▷ High efficiency motor gearbox
- ▷ Heavy duty sealed wheel bearings
- ▷ Wheel profile to suit parallel or tapered flanges

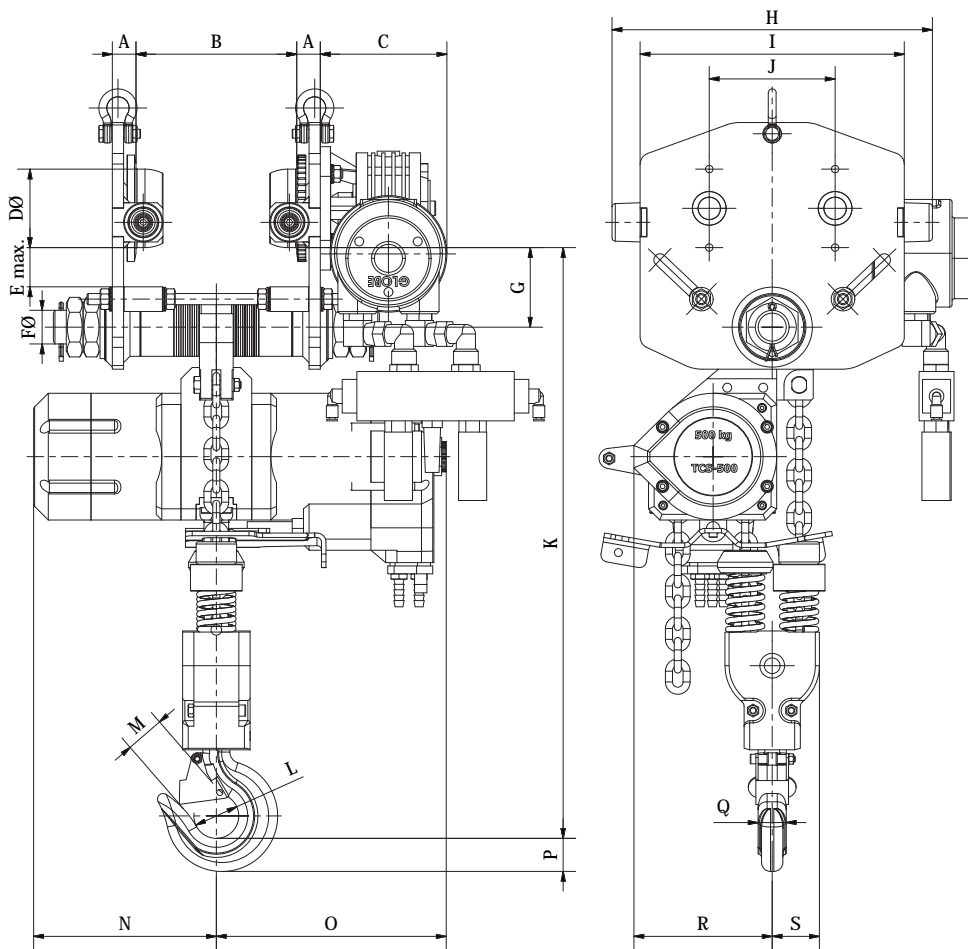
### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Articulated trolley
- ▷ Low headroom units
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Optional travel speeds
- ▷ Beam brake

HOIST MODEL	TCR-250-AT2S	TCR-500/2-AT2S	TCS-500-AT2S	TCS-980-AT2S
WLL	250 kg	500 kg	500 kg	980 kg
CHAIN FALLS	1	2	1	2
LIFTING SPEED FULL LOAD	9.3 m/min	4.6 m/min	17 m/min	8.5 m/min
LIFTING SPEED WITHOUT LOAD	19.0 m/min	9.5 m/min	33.0 m/min	16.0 m/min
AIR CONSUMPTION (L/SEC)	13	13	28	28
WORKING PRESSURE	6 Bar	6 Bar	6 bar	6 bar
AIR CONNECTION	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP
MINIMUM HOSE DIA.	1/2"	1/2"	1/2"	1/2"
WEIGHT 3M HOL & TROLLEY	32 kg	34 kg	41 kg	45 kg
ADDITIONAL METRE HOL	0.35 kg	0.7 kg	0.8 kg	1.6 kg
TROLLEY MODEL	AT2S	AT2S	AT2S	AT2S
G.A. DRAWING	1500-22	1500-35	1500-23	1500-24
FLANGE	55-140	55-140	55-140	55-140
RANGE 1	140-220	140-220	140-220	140-220
RANGE 2	220-300	220-300	220-300	220-300
RANGE 3				
STANDARD TROLLEY TEMP RANGE	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
OPTIONAL TROLLEY TEMP RANGE	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C
STANDARD TRAVEL SPEED	9 m/min	9 m/min	9 m/min	9 m/min
ATEX TRAVEL SPEED	6 m/min	6 m/min	6 m/min	6 m/min
OPTIONAL TRAVEL SPEED	14 m/min	14 m/min	14 m/min	14 m/min
WHEEL MATERIAL	Steel	Steel	Steel	Steel
ATEX WHEEL MATERIAL	Bronze	Bronze	Bronze	Bronze
MINIMUM BEND RADIUS (M)	1.5	1.5	1.5	1.5
NUMBER OF WHEELS	4	4	4	4
DRIVEN WHEELS	2	2	2	2
MAX AIR CONSUMPTION	25 l/sec	25 l/sec	25 l/sec	25 l/sec
HOSE ID TROLLEY	1/2"	1/2"	1/2"	1/2"

AT\_S = STANDARD

AT\_ATX = ATEX



MODEL	TCR-250-AT2S	TCR-500/2-AT2S	TCS-500-AT2S	TCS-980-AT2S
A	21	21	21	21
B	TBC	TBC	TBC	TBC
C	135	135	135	135
DØ	70	70	70	70
E	35	35	35	35
FØ	35	35	35	35
G	71	71	71	71
H	285	285	285	285
I	235	235	235	235
J	112	112	112	112
K	350	390	450	530
LØ	36	35	36	40
M	22	25	22	23
N	112	112	163	163
O	140	140	205	205
P	15	25	15	30
Q	20	18	20	25
R	70	87.5	100	123
S	22	32.5	18.5	42

All measurements are in mm  
Information subject to change without notice



Images for illustration purposes only

**TCR-250-AT2S**  
**TCR-500/2-AT2S**  
**TCS-500-AT2S**  
**TCS-980-AT2S**



## PNEUMATIC CHAIN HOIST & TROLLEY

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Choice of pendant controls or control stations
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter
- ▷ Trolley to suit various flange profiles
- ▷ Anti-tilt & anti-drop plates
- ▷ High efficiency motor gearbox
- ▷ Heavy duty sealed wheel bearings
- ▷ Wheel profile to suit parallel or tapered flanges

### AVAILABLE OPTIONS

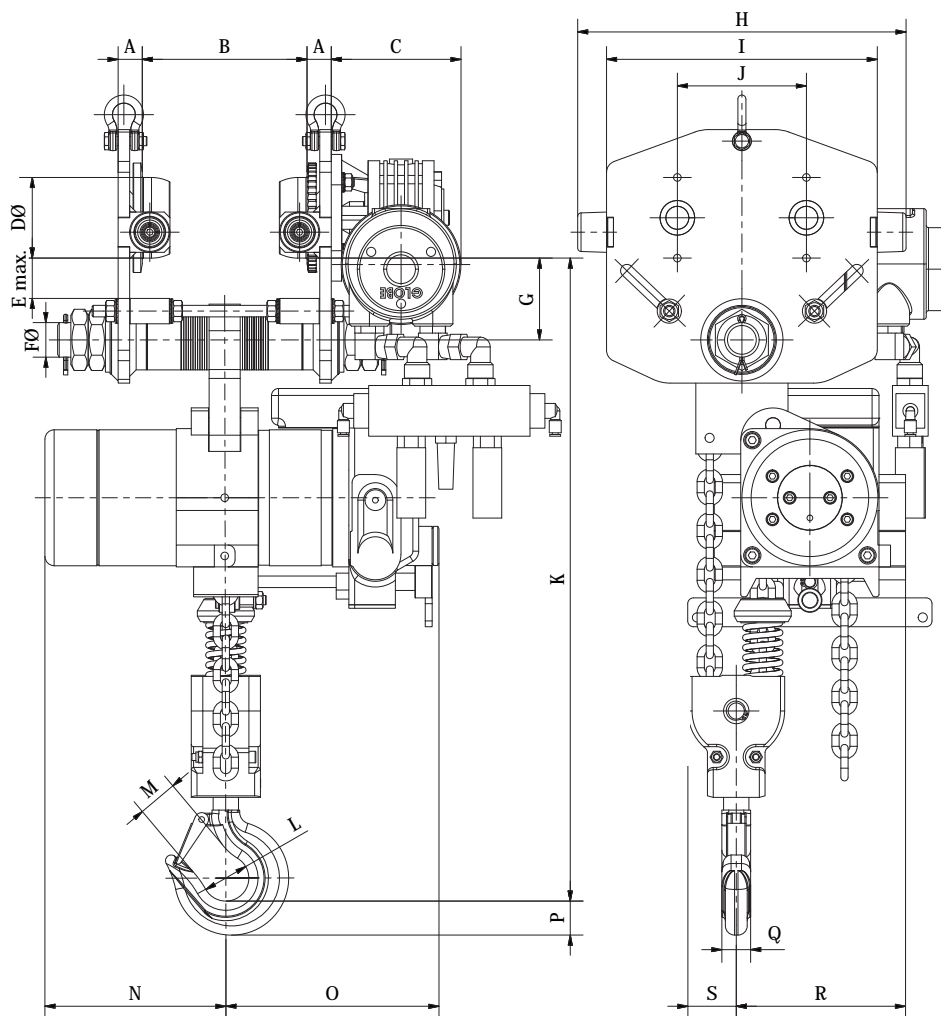
- ▷ Marine specification
- ▷ Special paint systems
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Articulated trolley
- ▷ Low headroom units
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Optional travel speeds
- ▷ Beam brake

HOIST MODEL	TCR-500-AT2S	TCR-1000/2-AT2S	TCR-1000-AT2S	TCR-2000/2-AT2S
WLL	250 kg / 500 kg	1000 kg	1000 kg	2000 kg
CHAIN FALLS	1	2	1	2
LIFTING SPEED FULL LOAD	12 / 10.5 m/min	5.3 m/min	6.0 m/min	3.0 m/min
LIFTING SPEED WITHOUT LOAD	16.0 m/min	9.5 m/min	11.3 m/min	5.7 m/min
AIR CONSUMPTION (L/SEC)	25	25	25	25
WORKING PRESSURE	6 bar	6 bar	6 bar	6 bar
AIR CONNECTION	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP
MINIMUM HOSE DIA.	1/2"	1/2"	1/2"	1/2"
WEIGHT 3M HOL & TROLLEY	59 kg	62 kg	61 kg	67 kg
ADDITIONAL METRE HOL	0.8 kg	1.6 kg	1.1 kg	2.2 kg
TROLLEY MODEL	AT2S	AT2S	AT2S	AT2S
G.A. DRAWING	1500-26	1500-27	1500-28	1500-00
FLANGE RANGE 1 RANGE 2 RANGE 3	55-140	55-140	55-140	55-140
	140-220	140-220	140-220	140-220
	220-300	220-300	220-300	220-300
STANDARD TROLLEY TEMP RANGE	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
OPTIONAL TROLLEY TEMP RANGE	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C
STANDARD TRAVEL SPEED	9 m/min	9 m/min	9 m/min	9 m/min
ATEX TRAVEL SPEED	6 m/min	6 m/min	6 m/min	6 m/min
OPTIONAL TRAVEL SPEED	14 m/min	14 m/min	14 m/min	14 m/min
WHEEL MATERIAL	Steel	Steel	Steel	Steel
ATEX WHEEL MATERIAL	Bronze	Bronze	Bronze	Bronze
MINIMUM BEND RADIUS (M)	1.5	1.5	1.5	1.5
NUMBER OF WHEELS	4	4	4	4
DRIVEN WHEELS	2	2	2	2
MAX AIR CONSUMPTION	25 l/sec	25 l/sec	25 l/sec	25 l/sec
HOSE ID TROLLEY	1/2"	1/2"	1/2"	1/2"

AT\_S = STANDARD

AT\_ATX = ATEX





Images for illustration purposes only

MODEL	TCR-500-AT2S	TCR-1000/2-AT2S	TCR-1000-AT2S	TCR-2000/2-AT2S
A	21	21	21	21
B	TBC	TBC	TBC	TBC
C	135	135	135	135
DØ	70	70	70	70
E	35	35	35	35
FØ	35	35	35	35
G	71	71	71	71
H	285	285	285	285
I	235	235	235	235
J	112	112	112	112
K	525	560	525	645
LØ	40	40	40	45
M	29	29	29	29
N	156	156	156	155
O	186	186	186	185
P	29.5	29.5	29.5	37
Q	25	25	25	30
R	113	147	116	140
S	20	42	23	55

All measurements are in mm  
Information subject to change without notice

**TCR-500-AT2S**  
**TCR-1000/2-AT2S**  
**TCR-1000-AT2S**  
**TCR-2000/2-AT2S**

## PNEUMATIC CHAIN HOIST & TROLLEY

### STANDARD FEATURES

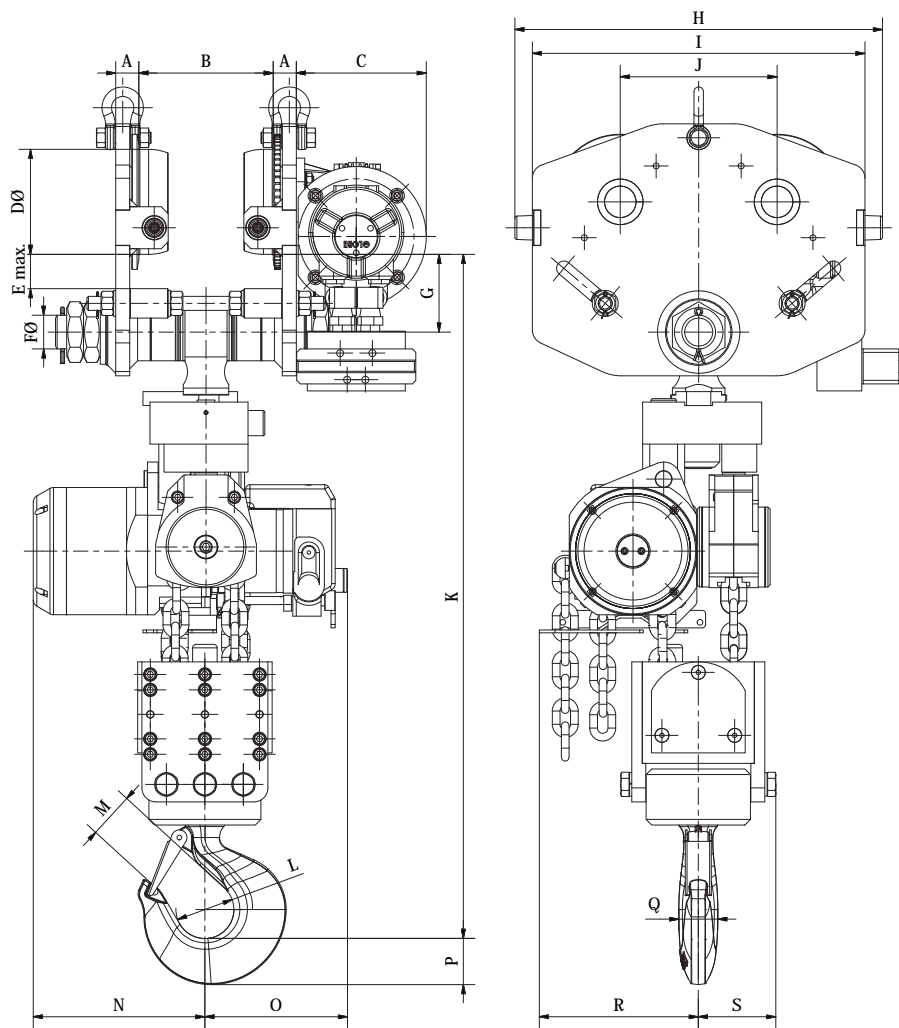
- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Choice of pendant controls or control stations
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter
- ▷ Trolley to suit various flange profiles
- ▷ Anti-tilt & anti-drop plates
- ▷ High efficiency motor gearbox
- ▷ Heavy duty sealed wheel bearings
- ▷ Wheel profile to suit parallel or tapered flanges

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Articulated trolley
- ▷ Low headroom units
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Optional travel speeds
- ▷ Beam brake

HOIST MODEL	TCR-3000-AT3S	TCR-6000/2-AT6S	TCR-9000/3-AT10S	TCR-12000/4-AT10S	TCR-15000/5-AT15S
WLL	3000 kg	6000 kg	9000 kg	12000 kg	15000 kg
CHAIN FALLS	1	2	3	4	5
LIFTING SPEED FULL LOAD	2.8 m/min	1.4 m/min	0.9 m/min	0.6 m/min	0.5 m/min
LIFTING SPEED WITHOUT LOAD	5.7 m/min	2.9 m/min	1.9 m/min	1.4 m/min	1.1 m/min
AIR CONSUMPTION (L/SEC)	33	33	33	33	33
WORKING PRESSURE	6 Bar	6 Bar	6 bar	6 bar	6 bar
AIR CONNECTION	3/4" BSP	3/4" BSP	3/4" BSP	3/4" BSP	3/4" BSP
MINIMUM HOSE DIA.	3/4"	3/4"	3/4"	3/4"	3/4"
WEIGHT 3M HOL & TROLLEY	110 kg	153 kg	290 kg	310 kg	360 kg
ADDITIONAL METRE HOL	2.7 kg	5.4 kg	8.1 kg	10.8 kg	13.5 kg
TROLLEY MODEL	AT3S	AT6S	AT10S	AT10S	AT15S
G.A. DRAWING	1501-00	1502-00	1503-22	1503-21	1504-23
FLANGE RANGE 1 RANGE 2 RANGE 3	80-160	90-160	110-180	110-180	110-180
	160-230	160-230	180-240	180-240	180-240
	230-300	230-300	240-300	240-300	240-300
STANDARD TROLLEY TEMP RANGE	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
OPTIONAL TROLLEY TEMP RANGE	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C
TRAVEL SPEED (M/MIN)	6*	6*	8	8	6
WHEEL MATERIAL	Steel	Steel	Steel	Steel	Steel
ATEX WHEEL MATERIAL	Bronze	Bronze	Bronze	Bronze	Bronze
MINIMUM BEND RADIUS (M)	2.5	2.5	2.5	3.0	3.0
NUMBER OF WHEELS	4	4	4	4	4
DRIVEN WHEELS	2	2	2	2	2
MAX AIR CONSUMPTION	25 l/sec	25 l/sec	40 l/sec	40 l/sec	40 l/sec
HOSE ID TROLLEY	3/4"	3/4"	3/4"	3/4"	1"

AT\_S = STANDARD      AT\_ATX = ATEX  
 \*Optional Travel Speed of 14 m/min



MODEL	TCR-3000-AT3S	TCR-6000/2-AT6S	TCR-9000/3-AT10S	TCR-12000/4-AT10S	TCR-15000/5-AT15S
A	24	28	33	33	40
B	TBC	TBC	TBC	TBC	TBC
C	135	115	185	185	215
DØ	100	150	150	150	180
E	38	45	50	50	50
FØ	40	50	55	55	60
G	85	102	111	111	115
H	390	515	525	525	590
I	340	465	475	475	540
J	160	224	224	224	250
K	625	765	935	985	940
LØ	50	65	75	84	84
M	34	42	53	58	58
N	200	200	205	245	240
O	240	250	245	205	205
P	45	49	60	67	67
Q	35	42	43	52	52
R	135	180	270	230	295
S	31	72	120	110	125

All measurements are in mm  
Information subject to change without notice



Images for illustration purposes only

**TCR-3000-AT3S**  
**TCR-6000/2-AT6S**  
**TCR-9000/3-AT10S**  
**TCR-12000/4-AT10S**  
**TCR-15000/5-AT15S**

## PNEUMATIC CHAIN HOIST & TROLLEY

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Choice of pendant controls or control stations
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter
- ▷ Trolley to suit various flange profiles
- ▷ Anti-tilt & anti-drop plates
- ▷ High efficiency motor gearbox
- ▷ Heavy duty sealed wheel bearings
- ▷ Wheel profile to suit parallel or tapered flanges

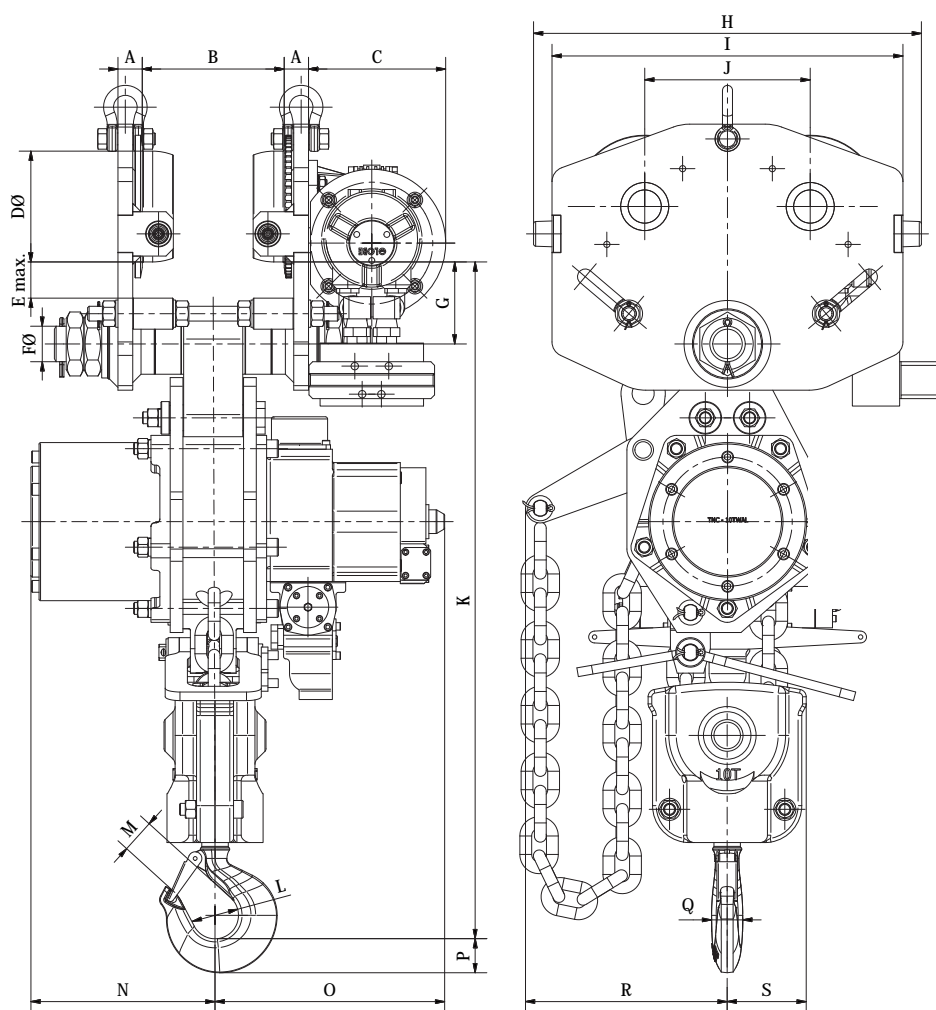
### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Special paint systems
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Articulated trolley
- ▷ Low headroom units
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Optional travel speeds
- ▷ Beam brake

HOIST MODEL	TNC-10TW-AT10S	TNC-15TW/3-AT15S	TNC-20TW/4-AT25S	TNC-25TW-AT25S
WLL	10000 kg	15000 kg	20000 kg	25000 kg
CHAIN FALLS	2	3	4	2
LIFTING SPEED FULL LOAD	1.5 m/min	1.0 m/min	0.85 m/min	0.6 m/min
LIFTING SPEED WITHOUT LOAD	2.5 m/min	1.6 m/min	1.25 m/min	1.0 m/min
AIR CONSUMPTION (L/SEC)	90	90	90	90
WORKING PRESSURE	6 bar	6 bar	6 bar	6 bar
AIR CONNECTION	1" BSP	1" BSP	1" BSP	1" BSP
MINIMUM HOSE DIA.	1"	1"	1"	1"
WEIGHT 3M HOL & TROLLEY	350 kg	470 kg	670 kg	880 kg
ADDITIONAL METRE HOL	11.4 kg	17.1 kg	22.8 kg	21.8 kg
TROLLEY MODEL	AT10S	AT15S	AT25S	AT25S
G.A. DRAWING	1503-00	1504-00	1505-24	1505-00
FLANGE	110-180	110-180	130-200	130-200
RANGE 1	180-240	180-240	200-260	200-260
RANGE 2	240-300	240-300	260-320	260-320
RANGE 3				
STANDARD TROLLEY TEMP RANGE	-10 to +50°C	-10 to +50°C	-10 to +50°C	-10 to +50°C
OPTIONAL TROLLEY TEMP RANGE	-20 to +70°C	-20 to +70°C	-20 to +70°C	-20 to +70°C
TRAVEL SPEED (M/MIN)	8	6	4	4
WHEEL MATERIAL	Steel	Steel	Steel	Steel
ATEX WHEEL MATERIAL	Bronze	Bronze	Bronze	Bronze
MINIMUM BEND RADIUS (M)	2.5	3.0	3.0	3.0
NUMBER OF WHEELS	4	4	4	4
DRIVEN WHEELS	2	2	2	2
MAX AIR CONSUMPTION	40 l/sec	40 l/sec	40 l/sec	40 l/sec
HOSE ID TROLLEY	1"	1"	1"	1"

AT\_S = STANDARD

AT\_ATX = ATEX



MODEL	TNC-10TW-AT10S	TNC-15TW/3-AT15S	TNC-20TW/4-AT25S	TNC-25TW-AT25S
A	33	40	53	53
B	TBC	TBC	TBC	TBC
C	185	215	215	215
DØ	150	180	240	240
E	50	50	55	55
FØ	55	60	80	80
G	111	115	135	135
H	525	590	910	910
I	475	540	860	860
J	224	250	400	401
K	975	1175	1265	1480
LØ	60	84	110	125
M	40	58	78	80
N	250	250	245	365
O	310	310	315	345
P	62	67	80	103
Q	55	52	64	82
R	255	465	535	315
S	107	197	265	165

All measurements are in mm  
Information subject to change without notice



Images for illustration purposes only

**TNC-10TW-AT10S**  
**TNC-15TW/3-AT15S**  
**TNC-20TW/4-AT25S**  
**TNC-25TW-AT25S**





## PNEUMATIC CHAIN HOIST & TROLLEY

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Choice of pendant controls or control stations
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture to EN818-7
- ▷ Automatic, adjustable load limiter
- ▷ Trolley to suit various flange profiles
- ▷ Anti-tilt & anti-drop plates
- ▷ High efficiency motor gearbox
- ▷ Heavy duty sealed wheel bearings
- ▷ Wheel profile to suit parallel or tapered flanges

### AVAILABLE OPTIONS

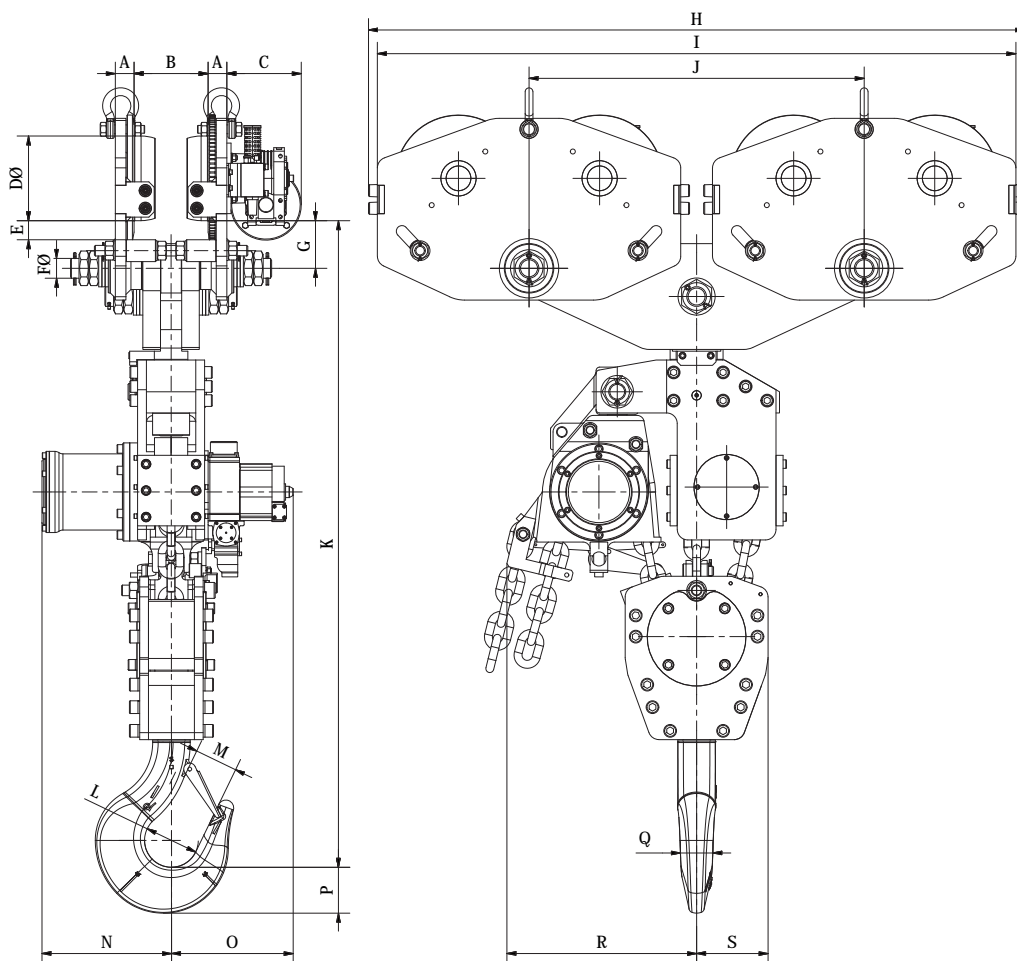
- ▷ Marine specification
- ▷ Special paint systems
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Chain collectors (PVC, galvanised or stainless steel)
- ▷ Articulated trolley
- ▷ Low headroom units
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Optional travel speeds
- ▷ Beam brake

HOIST MODEL	TNC-25TW-AT25-2S	TNC-37.5TW-AT37.5-2S	TNC-50TW/4-AT50-2S
WLL	25000 kg	37500 kg	50000 kg
CHAIN FALLS	2	3	4
LIFTING SPEED FULL LOAD	0.6 m/min	0.4 m/min	0.3 m/min
LIFTING SPEED WITHOUT LOAD	1.0 m/min	0.6 m/min	0.45 m/min
AIR CONSUMPTION (L/SEC)	90	90	90
WORKING PRESSURE	6 bar	6 bar	6 bar
AIR CONNECTION	1" BSP	1" BSP	1" BSP
MINIMUM HOSE DIA.	1"	1"	1"
WEIGHT 3M HOL & TROLLEY	910 kg	1380 kg	1900 kg
ADDITIONAL METRE HOL	21.8 kg	32.7 kg	43.6 kg
TROLLEY MODEL	AT25-2S	AT37.5-2S	AT50-2S
G.A. DRAWING	1524-00	1507-00	1506-00
FLANGE RANGE 1 RANGE 2	200-260	205-260	205-260
	260-320	260-320	260-320
STANDARD TROLLEY TEMP RANGE	-10 to +50°C	-10 to +50°C	-10 to +50°C
OPTIONAL TROLLEY TEMP RANGE	-20 to +70°C	-20 to +70°C	-20 to +70°C
TRAVEL SPEED (M/MIN)	6	4	4
WHEEL MATERIAL	Steel	Steel	Steel
ATEX WHEEL MATERIAL	Bronze	Bronze	Bronze
MINIMUM BEND RADIUS (M)	Straight only	Straight only	Straight only
NUMBER OF WHEELS	8	8	8
DRIVEN WHEELS	4	4	4
MAX AIR CONSUMPTION	80 l/sec	80 l/sec	80 l/sec
HOSE ID TROLLEY	1"	1.25"	1.25"

AT\_S = STANDARD

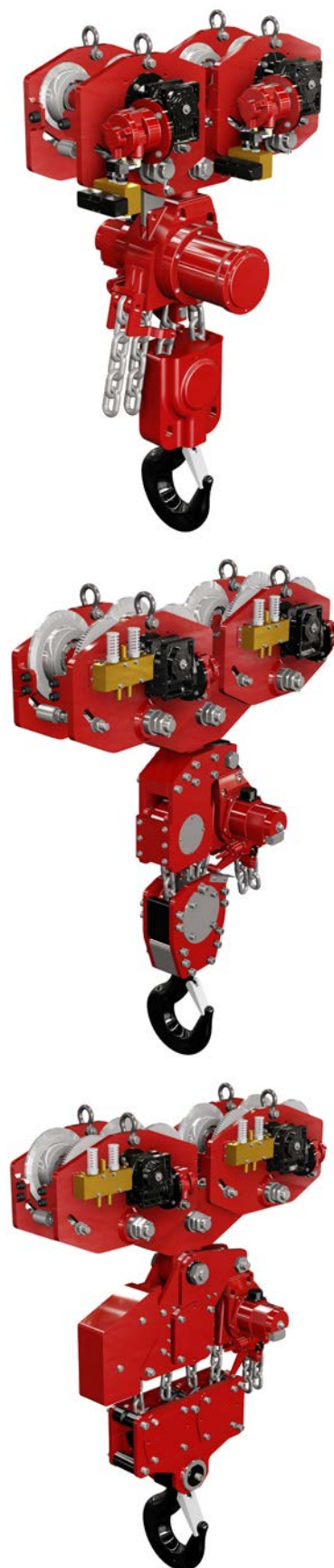
AT\_ATX = ATEX





MODEL	TNC-25TW-AT25-2S	TNC-37.5TW-AT37.5-2S	TNC-50TW/4-AT50-2S
A	40	53	53
B	TBC	TBC	TBC
C	215	211	211
DØ	180	240	240
E	50	55	55
FØ	60	80	80
G	115	135	135
H	1190	1860	1860
I	1140	1810	1810
J	600	950	950
K	1550	1805	2000
LØ	125	125	140
M	80	90	100
N	345	366	366
O	365	346	346
P	103	118	132
Q	82	95	106
R	165	538	673
S	315	202.5	400

All measurements are in mm  
Information subject to change without notice



Images for illustration purposes only

**TNC-25TW-AT25-2S**  
**TNC-37.5TW-AT37.5-2S**  
**TNC-50TW/4-AT50-2S**



# **PNEUMATIC LOW HEADROOM HOISTS & TROLLEY RANGE**

A comprehensive range of quality pneumatic hoists built into low headroom trolley frames suitable for industrial and marine environments. With our in-house design team and manufacturing facilities, we can build special units to meet your requirements – such as bag handling hoists, ultra low headroom units and overhead pneumatic cranes.

Red Rooster pneumatic hoists & trolleys comply with the European Machinery Directive and are CE marked.

Our ISO 9001:2008 Quality System is accredited by BSI.

## PNEUMATIC LOW HEADROOM

### STANDARD FEATURES

- ▷ Toki rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

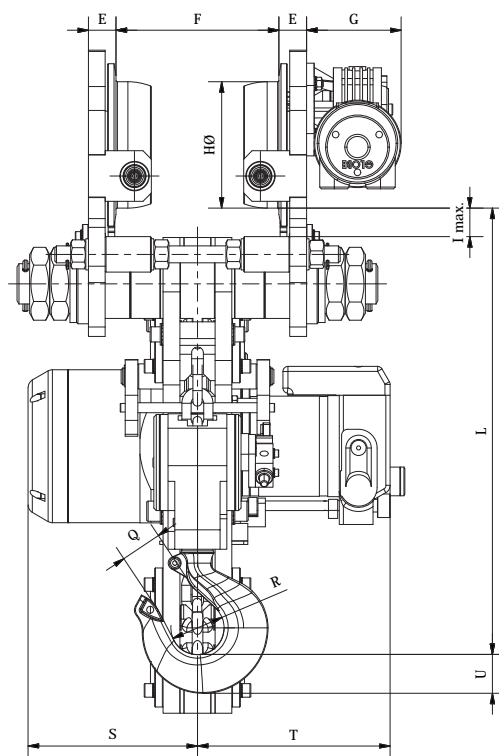
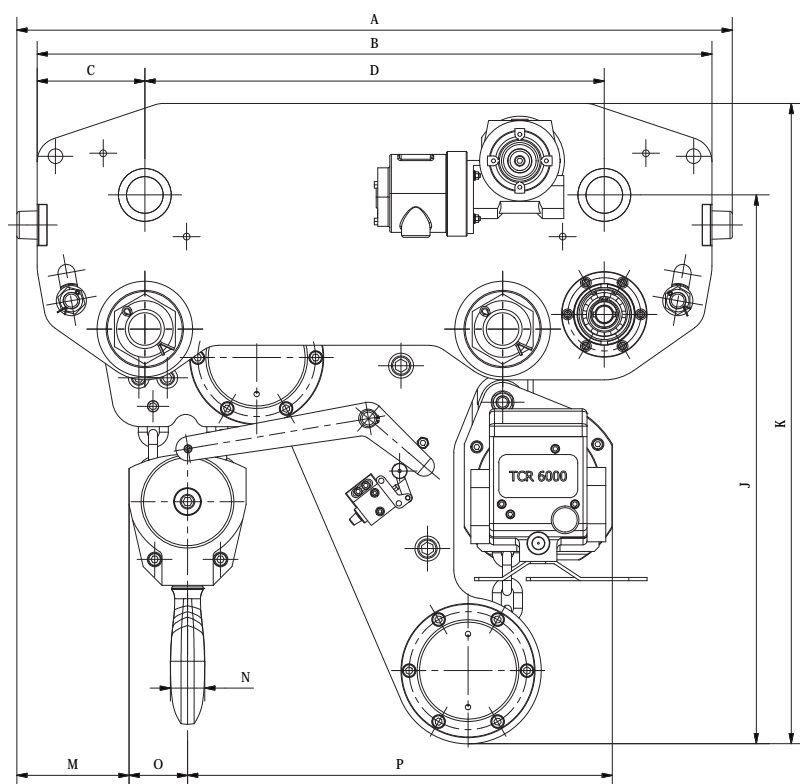
- ▷ Marine specification
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Articulated trolleys
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Main air shut off valve
- ▷ Special paint systems
- ▷ Beam brake
- ▷ Other travel speeds

MODEL	TCR-500-LHR	TCR-1000/2-LHR	TCR-1000-LHR	TCR-2000-LHR	TCR-3000-LHR	TCR-6000-LHR	TCR-12000-LHR
WLL	500 kg	1000 kg	1000 kg	2000 kg	3000 kg	6000 kg	12000 kg
CHAIN FALLS	1	2	1	2	1	2	4
LIFTING SPEED FULL LOAD (M/MIN)	10.5	5.3	6.0	3.0	2.8	1.4	0.6
LIFTING SPEED WITHOUT FULL LOAD (M/MIN)	16.0	9.5	11.3	5.7	5.7	2.9	1.4
LOWERING SPEED FULL LOAD (M/MIN)	17.9	9.0	10.3	5.2	4.6	2.3	1.1
TRAVEL SPEED (M/MIN)	9.0	9.0	9.0	9.0	6.0	6.0	8.0
HOIST AIR CONSUMPTION (L/SEC)	25	25	25	25	33	33	33
TROLLEY AIR CONSUMPTION (L/SEC)	25	25	25	25	25	25	50
INLET CONNECTION	0.5"	0.5"	0.5"	0.5"	0.75"	0.75"	1"
WEIGHT WITH 3M HOL	85 kg	90 kg	90 kg	105 kg	295 kg	310 kg	400 kg
ADDITIONAL METRE HOL	0.8 kg	1.6 kg	1.1 kg	2.2 kg	2.7 kg	5.4 kg	10.8 kg
FLANGE MINIMUM (MM)	60	60	60	60	110	110	110
FLANGE MAXIMUM (MM)	300	300	300	300	300	300	300
G.A. DRAWING	1542-00	1540-00	1553-00	1525-00	1550-00	1551-00	1552-00



Images for illustration purposes only

**TCR-500-LHR**  
**TCR-1000/2-LHR**  
**TCR-1000-LHR**  
**TCR-2000-LHR**  
**TCR-3000-LHR**  
**TCR-6000-LHR**  
**TCR-12000-LHR**



MODEL	A	B	C	D	E	F	G	HØ	I	J	K
TCR-500-LHR	570	520	115	340	21	TBC	135	70	30	480	590
TCR-1000/2-LHR	570	520	115	340	21	TBC	135	70	30	480	590
TCR-1000-LHR	570	520	115	340	21	TBC	135	70	30	480	590
TCR-2000-LHR	570	520	115	340	21	TBC	135	70	30	480	590
TCR-3000-LHR	880	830	132.5	565	33	TBC	115	150	35	675	790
TCR-6000-LHR	880	830	132.5	565	33	TBC	115	150	35	675	790
TCR-12000-LHR	1050	1000	132.5	735	33	TBC	185	150	50	695	810
MODEL	L	M	N	O	P	Q	RØ	S	T	U	
TCR-500-LHR	340	180	25	20	295	30	40	186	156	30	
TCR-1000/2-LHR	375	135	25	42	320	30	40	186	156	30	
TCR-1000-LHR	340	180	25	20	296	29	40	177	157	30	
TCR-2000-LHR	390	125	30	53	320	28	40	175	160	40	
TCR-3000-LHR	400	215	37	38.5	480	37	50	202	230	47	
TCR-6000-LHR	495	138	37	72	525	43	62	202	230	49	
TCR-12000-LHR	600	95	52	200	605	58	84	202	230	67	

All measurements are in mm  
Information subject to change without notice

## PNEUMATIC LOW HEADROOM

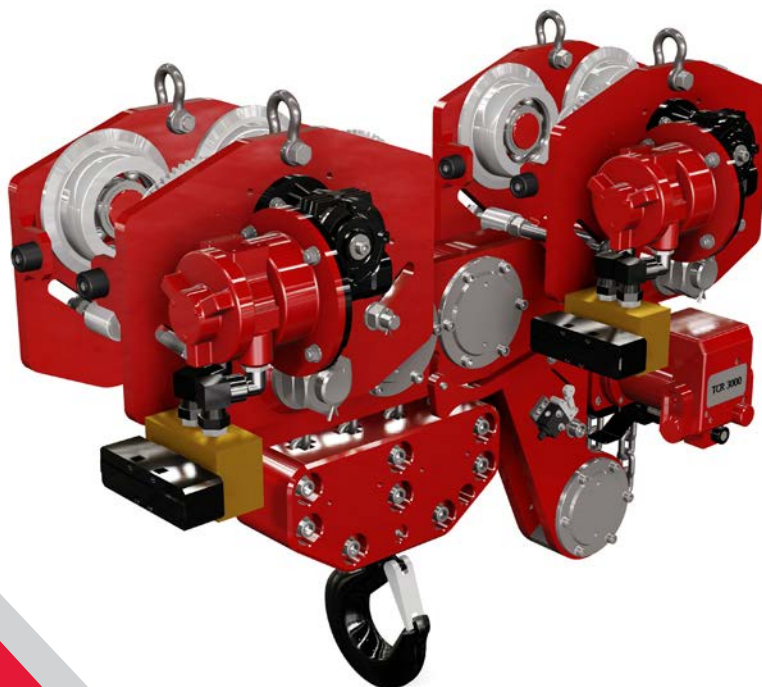
### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Articulated trolleys
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Main air shut off valve
- ▷ Special paint systems
- ▷ Beam brake
- ▷ Other travel speeds

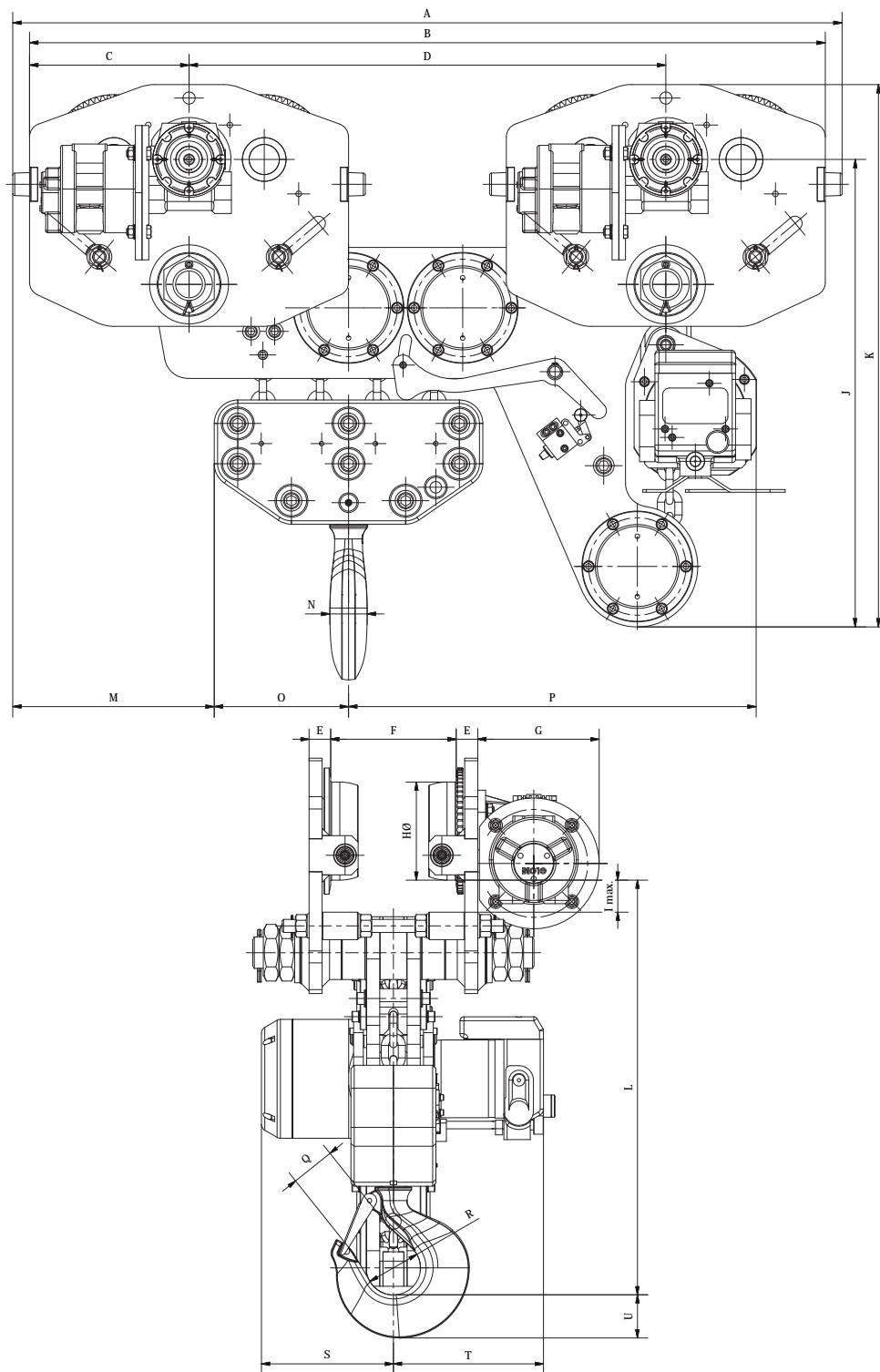
MODEL	TNC-10/2-LHR	TCR-12/4-LHR	TNC-15/3-LHR	TNC-20/4-LHR
WLL	10000 kg	12000 kg	15000 kg	20000 kg
CHAIN FALLS	2	4	3	4
LIFTING SPEED FULL LOAD (M/MIN)	1.3	0.6	1.0	0.75
LIFTING SPEED WITHOUT FULL LOAD (M/MIN)	2.5	1.4	1.6	1.25
LOWERING SPEED FULL LOAD (M/MIN)	2.3	1.1	1.25	1.15
TRAVEL SPEED (M/MIN)	9	9	8	6
HOIST AIR CONSUMPTION (L/SEC)	90	33	90	90
TROLLEY AIR CONSUMPTION (L/SEC)	50	50	100	100
INLET CONNECTION	1"	1"	1"	1"
WEIGHT WITH 3M HOL	550 kg	435 kg	700 kg	890 kg
ADDITIONAL METRE HOL	11.4 kg	10.8 kg	17.1 kg	22.8 kg
FLANGE MINIMUM (MM)	110	110	175	175
FLANGE MAXIMUM (MM)	300	300	300	300
G.A. DRAWING	1539-00	1534-00	1532-00	1535-00



Images for illustration purposes only

**TNC-10/2-LHR**  
**TCR-12/4-LHR**  
**TNC-15/3-LHR**  
**TNC-20/4-LHR**





MODEL	A	B	C	D	E	F	G	HØ	I	J	K
TNC-10/2-LHR	1270	1220	237.5	745	33	TBC	185	150	50	865	980
TCR-12/4-LHR	1235	1185	237.5	710	33	TBC	185	150	50	695	810
TNC-15/3-LHR	1380	1330	237.5	855	33	TBC	185	150	50	865	980
TNC-20/4-LHR	1375	1325	270	785	40	TBC	215	180	50	780	925
MODEL	L	M	N	O	P	Q	RØ	S	T	U	
TNC-10/2-LHR	615	395	55	110	640	40	60	245	315	62	
TCR-12/4-LHR	600	300	52	200	605	58	84	200	230	67	
TCR-15/3-LHR	670	367.5	52	190	700	58	84	245	315	67	
TCR-20/4-LHR	750	315	64	265	800	78	110	245	315	80	

All measurements are in mm  
Information subject to change without notice

## PNEUMATIC ULTRA LOW HEADROOM

### STANDARD FEATURES

- ▷ Toku rotary vane motor
- ▷ Robust epicycle gearbox
- ▷ Failsafe automatic internal disc brake
- ▷ Upper & lower limit switches
- ▷ Cast steel housing
- ▷ Internal silencing down to 80 dB(A)
- ▷ Alloy safety swivel hooks with safety catch
- ▷ Load chain of European manufacture EN818-7
- ▷ Automatic, adjustable load limiter

### AVAILABLE OPTIONS

- ▷ Marine specification
- ▷ Collision bumpers
- ▷ ATEX specification ZONE 1 & 2
- ▷ Articulated trolleys
- ▷ Rack & pinion drive
- ▷ Travel limits
- ▷ Air Service units
- ▷ Festoon systems
- ▷ Radio control remote
- ▷ Main air shut off valve
- ▷ Special paint systems
- ▷ Beam brake
- ▷ Other travel speeds

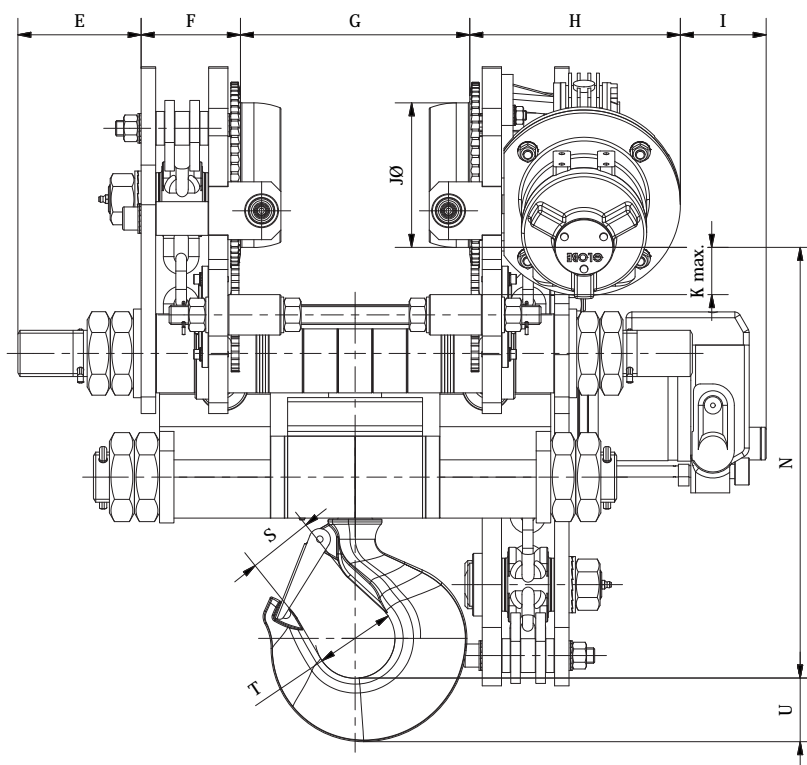
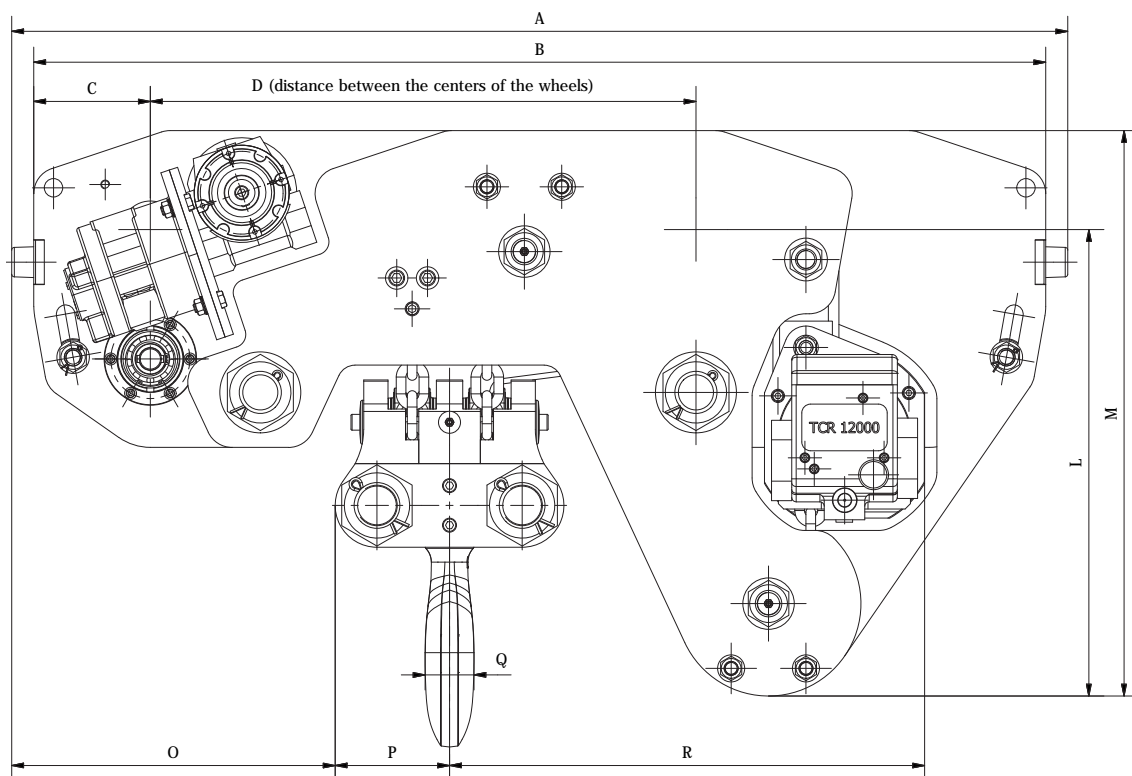
MODEL	TCR-6000-ULHR	TCR-12000-ULHR	TCR-20000-ULHR
WLL	6000 kg	12000 kg	20000 kg
CHAIN FALLS	2	4	4
LIFTING SPEED FULL LOAD (M/MIN)	1.4	0.6	0.75
LIFTING SPEED WITHOUT FULL LOAD (M/MIN)	2.9	1.4	1.25
LOWERING SPEED FULL LOAD (M/MIN)	2.3	1.1	1.15
TRAVEL SPEED (M/MIN)	9	6	6
HOIST AIR CONSUMPTION (L/SEC)	33	33	90
TROLLEY AIR CONSUMPTION (L/SEC)	25	50	50
INLET CONNECTION	0.75"	1"	1"
WEIGHT WITH 3M HOL	380 kg	480 kg	1440 kg
ADDITIONAL METRE HOL	5.4 kg	10.8 kg	22.8 kg
FLANGE MINIMUM (MM)	170*	215*	220*
FLANGE MAXIMUM (MM)	300	300	305
G.A. DRAWING	1536-00	1537-00	1538-00

\*Design can be modified to suit smaller flange sizes



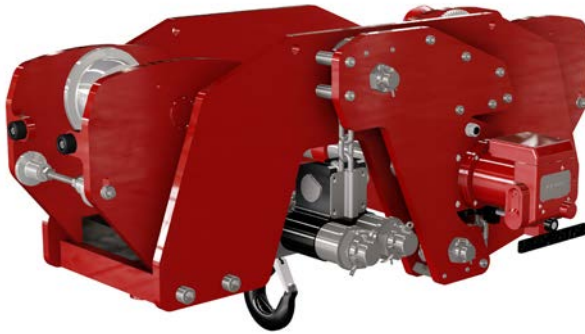
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**TCR-6000-ULHR**  
**TCR-12000-ULHR**  
**TCR-20000-ULHR**



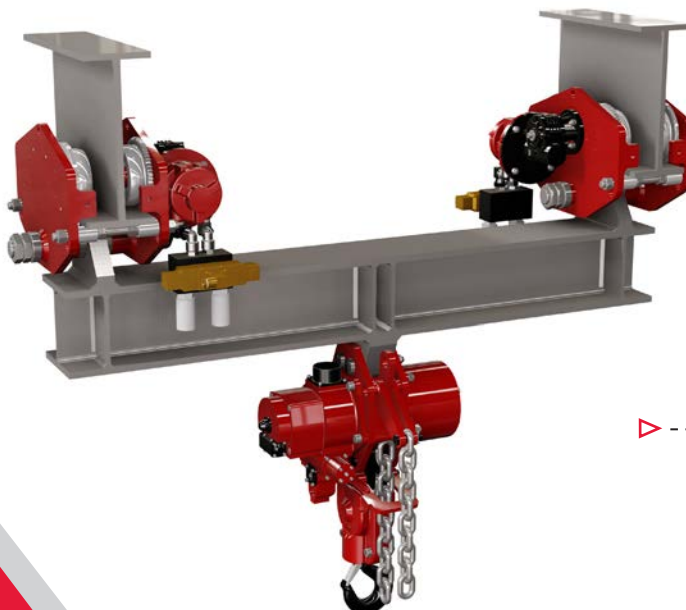
MODEL	A	B	C	D	E	F	G	H	I	JØ	K
TCR-6000-ULHR	1115	1065	132.5	535	128	103	TBC	150	160	150	50
TCR-12000-ULHR	1200	1150	132.5	620	128	103	TBC	220	90	150	50
TCR-20000-ULHR	1620	1570	200	890	185	158	TBC	265	145	225	50
MODEL	L	M	N	O	P	Q	R	S	TØ	U	
TCR-6000-ULHR	530	645	355	347.5	107.5	37	500	43	62	49	
TCR-12000-ULHR	530	645	400	367.5	130	52	540	58	84	67	
TCR-20000-ULHR	780	950	500	550	165	64	915	78	110	80	

All measurements are in mm  
Information subject to change without notice



▷ ----- Ultra low headroom  
articulated hoist and trolley

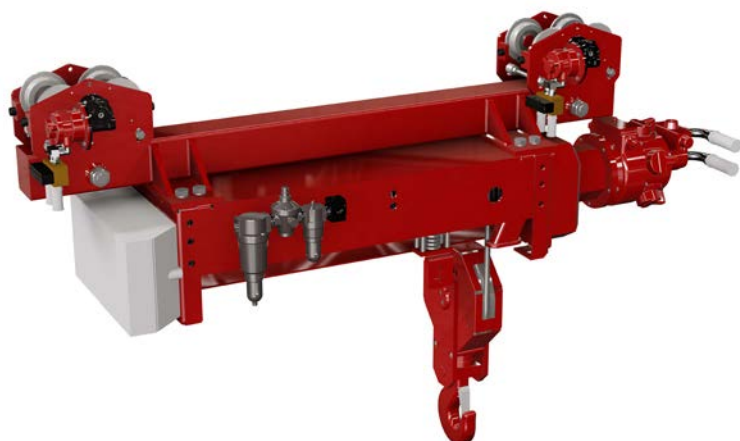
Combined 2 tonne air hoist and  
trolley with beam brake ----- ▷



▷ ----- Travelling 10 tonne hoist  
with twin trolley beam

VARIOUS DESIGNS OF HOISTS ARE  
AVAILABLE WE CAN DESIGN HOISTS  
SPECIFICALLY TO SUIT YOUR NEEDS

Wire rope hoist on  
articulated trolley



Wire rope hoist and trolley  
SWL 13 tonne

Low headroom extended  
frame



## SECTION 7

SAFE WORKING LOAD - 500 kg to 25 tonne

Red Rooster articulated trolleys are available as manual, geared and air driven units designed to operate with our range of manual, pneumatic chain hoists, pneumatic wire rope hoists and can be easily adapted to work with other manufacturers hoists.

These trolleys are used on a curved beam or tight radius that standard trolleys could not travel around. The design of these units varies on the SWL, flange size, the application and the type of hoist fitted.

We can supply our articulated trolleys as ATEX ZONE 1 or 2 units, low headroom and even ultra low headroom. These versions can also be fitted with beam brakes, to suit various beam types or sizes and all other options you expect from Red Rooster trolleys.

With our articulated trolley design having been based on our standard trolleys most parts are readily available and are designed to be largely maintenance free, with low wear and a long service life.

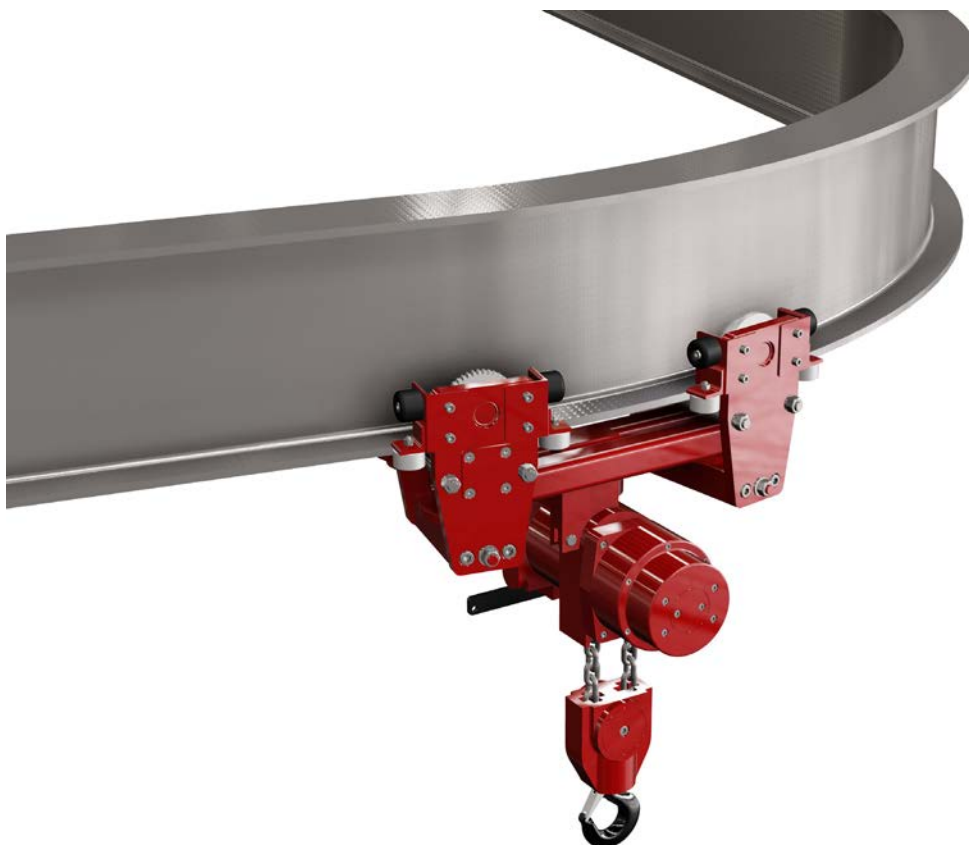


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Due to the variation in the designs it is not practical to give all the sizes and specification for the range of trolleys available. Individual drawings and specifications are available on request.



# TROLLEY AND PARKING BRAKES

Red Rooster pneumatic trolleys can have several types of brake fitted depending on the model, capacity and trolley speed.

Standard air trolleys, low headroom, ultra-low headroom and articulated are fitted with a self-locking gearbox which will hold the trolley in position when it stops travelling.

A separate air operated motor disc brake can also be fitted between the air motor and the gearbox to hold the trolley in position. This brake is automatically engaged when the travel stops. On a rack and pinion drive this brake also locks the trolley in position when not in use. This brake can be used on rack and pinion trolleys, standard and low headroom.

Parking brakes can be fitted to all types of trolleys and are applied by winding a hand chain wheel to tighten blocks on to the beam flange to lock the trolley in place. This brake is normally used to lock a trolley in position when not in use.

Parking brakes can also be fitted to manual and geared trolleys to hold them in position when not in use.

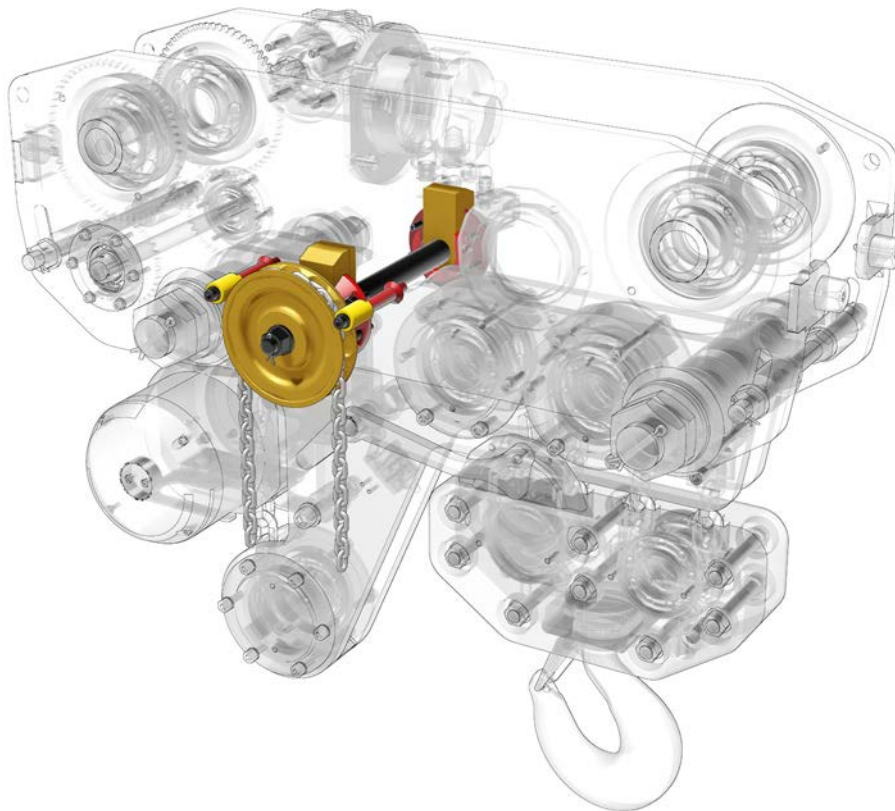


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SAFE WORKING LOAD - 0.5 tonne to 25 tonne

Red Rooster pneumatic rack and pinion trolleys have been developed with high efficiency gearboxes with a rack and pinion drive mechanism to drive the trolley and hold in the required position for use on vessels or floating installations. We can supply trolleys with capacities from 500 kg to 25 tonne to suit various beam and rack modules for monorail trolley hoists and overhead travelling cranes.

The trolleys can either be geared or air driven with operating speeds to match our standard trolleys and can be fitted on to our low headroom, ultra-low headroom or BOP trolleys.

## OPTIONS

- ▷ Various speeds available
- ▷ Offshore version with corrosion protection
- ▷ Special paint systems
- ▷ Available on low headroom and ultra-low headroom trolleys
- ▷ Special designs
- ▷ Travel limits
- ▷ Explosion proof ATEX ZONE 1 or 2
- ▷ Temperature range -20°C to +70°C (-10°C to +70°C as standard)

MODEL	CAPACITY	TRAVEL SPEED	AIR FLOW	AIR PRESSURE	FLANGE RANGE	HOSE I/D TROLLEY
AT2S-RP	0.5 + 1 tonne	6 m/min	25 l/sec	6 bar	80-300	0.5"
AT2S-RP	2 tonne	6 m/min	25 l/sec	6 bar	80-300	0.5"
AT3S-RP	3 tonne	6 m/min	25 l/sec	6 bar	120-300	0.5"
AT6S-RP	6 tonne	6 m/min	25 l/sec	6 bar	130-300	0.5"
AT10S-RP	10 tonne	6 m/min	40 l/sec	6 bar	150-300	0.75"
AT15S-RP	15 tonne	6 m/min	40 l/sec	6 bar	150-300	0.75"
AT20S-RP	20 tonne	4 m/min	80 l/sec	6 bar	150-300	0.75"
AT25S-RP	25 tonne	4 m/min	80 l/sec	6 bar	150-300	0.75"

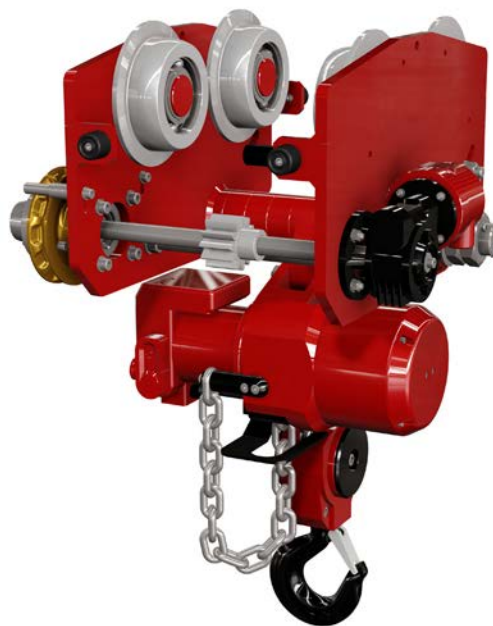
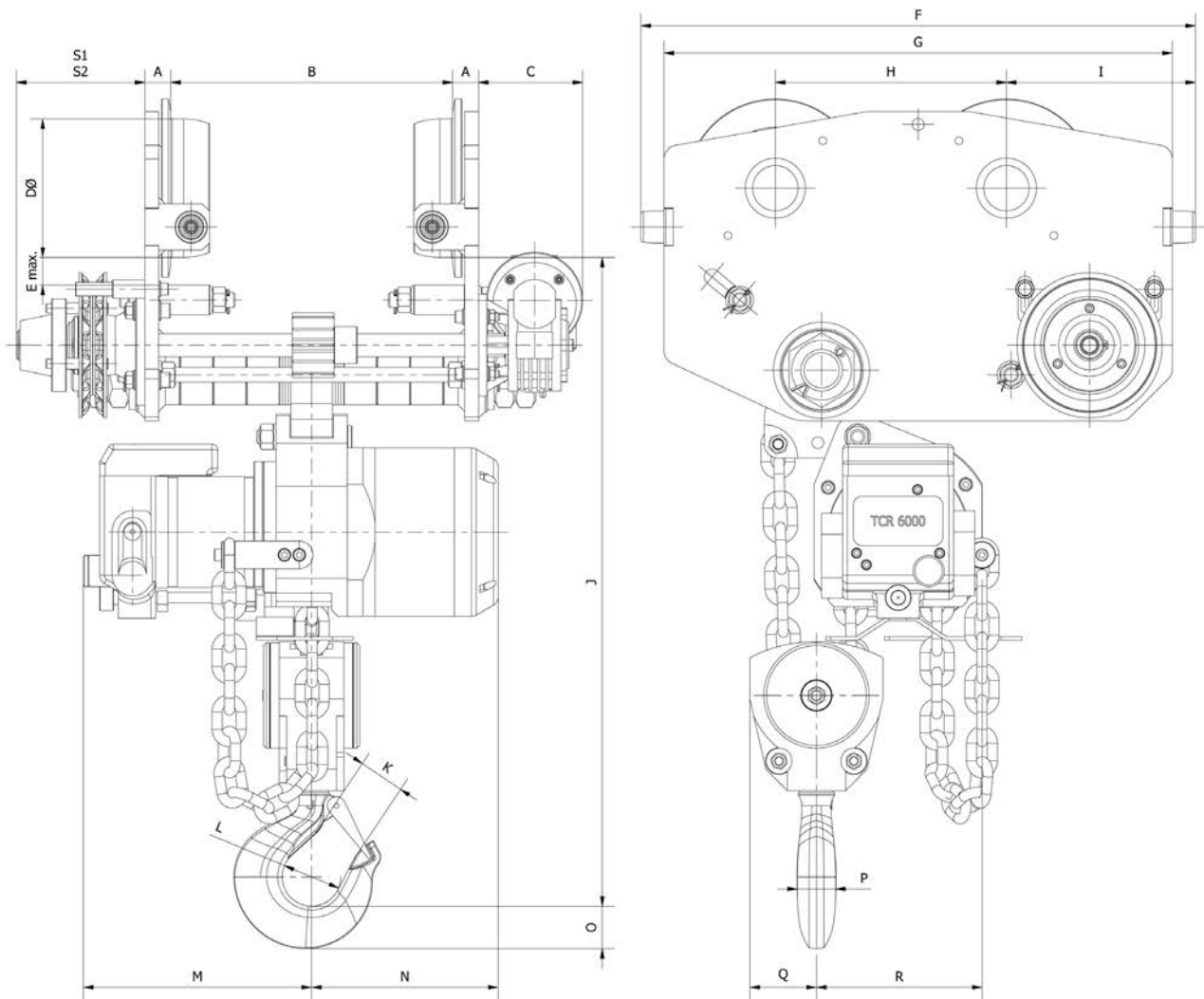


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MODEL	A	B	C	D	E	F	G	H	I	J
AT2S-RP	21	TBC	115	70	30	460	410	175	174	495/530
AT2S-RP	21	TBC	115	70	30	460	410	175	174	555
AT3S-RP	25	TBC	115	100	30	485	435	185	180	645
AT6S-RP	28	TBC	115	150	30	600	550	250	180	765
AT10S-RP	33	TBC	185	150	50	620	570	224	220	940
AT15S-RP	40	TBC	185	180	50	690	640	260	280	1190
AT20S-RP	53	TBC	215	240	55	1020	970	400	340	1250
AT25S-RP	53	TBC	215	240	55	1020	970	400	340	1400
MODEL	K	L	M	N	O	P	Q	R	S1	S2
AT2S-RP	29	40	186	156	29.5	25	20	113	139	32
AT2S-RP	29	45	185	155	37	30	54	140	139	32
AT3S-RP	34	50	240	200	45	35	31	135	139	35
AT6S-RP	42	65	250	200	49	42	72	180	139	32
AT10S-RP	40	60	310	250	62	55	107	255	177	22
AT15S-RP	58	84	310	250	67	52	197	465	177	30
AT-20S-RP	78	110	315	245	80	64	265	535	177	35
AT25S-RP	80	125	345	365	103	82	165	315	177	35

All measurements are in mm  
Information subject to change without notice

## BOP HANDLING SYSTEMS

Red Rooster BOP hoist handling systems have been developed to be a reliable heavy duty hoist for use on land rigs, drilling rigs and platforms. The pair of TNC hoists in our BOP systems are of a standard headroom however we can also offer lower headroom versions if required. The bottom hook can be replaced with a clevis fitting to connect directly to the BOP lifting points.

### STANDARD FEATURES

- ▷ Design temperature - 20°C
- ▷ Articulated trolley headfitting for limited side pulling
- ▷ Overload protection
- ▷ Upper and lower limits
- ▷ Automatic fail safe disc brake on hoist
- ▷ Main air cut off valve
- ▷ Plated load chain
- ▷ Lifting points for easy installation

### OPTIONS

- ▷ Explosion proof ATEX zones I or II
- ▷ Chain collector - galvanised or stainless steel
- ▷ Rack & pinion drive
- ▷ Offshore versions with corrosion protection
- ▷ Special paint systems
- ▷ Low headroom model
- ▷ Special designs
- ▷ Festoon systems
- ▷ Control consoles

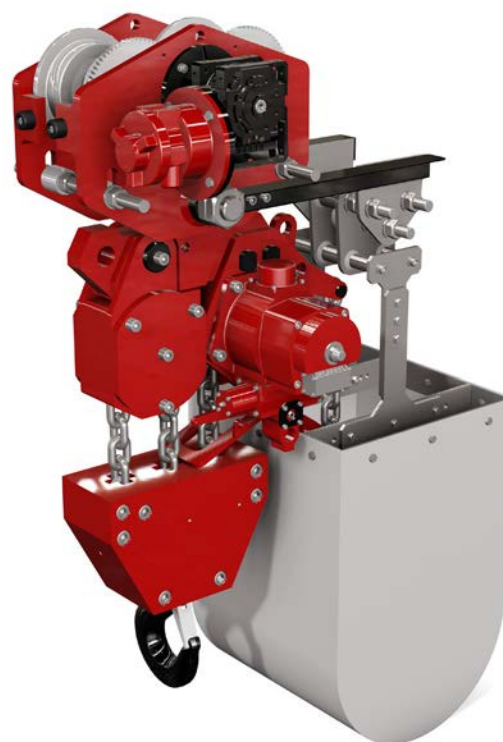


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### SPECIFICATION

MODEL	TNC20 BOP	TNC30 BOP	TNC50 BOP	TNC75 BOP
CAPACITY	20 tonne	30 tonne	50 tonne	75 tonne
TWIN HOIST SYSTEM	2 x 10 tonne hoist	2 x 15 tonne hoist	2 x 25 tonne hoist	2 x 37.5 tonne hoist
WEIGHT 3M HOL	375 kg per hoist	500 kg per hoist	900 kg per hoist	1400 kg per hoist
CHAIN FALLS	2 (16 x 45)	3 (16 x 45)	2 (22 x 66)	3 (22 x 66)
LIFTING SPEED FULL LOAD	1.5 m/min	1.0 m/min	0.6 m/min	0.4 m/min
LIFTING SPEED NO LOAD	2.5 m/min	1.6 m/min	1.0 m/min	0.6 m/min
HOIST AIR CONSUMPTION	90 l/sec	90 l/sec	90 l/sec	90 l/sec
TRAVEL SPEED	8 m/min	6 m/min	4 m/min	4 m/min
TROLLEY AIR CONSUMPTION	40 l/sec	40 l/sec	40 l/sec	80 l/sec
WORKING PRESSURE	5-6 bar	5-6 bar	5-6 bar	5-6 bar
FLANGE SIZE	150-310	150-310	200-310	200-310
CLOSED HEIGHT	1025 mm	1200 mm	1300 mm	1425 mm
TROLLEY WHEELS	4	4	4	8

Other flange sizes available  
 Temperature range range -20°C to +70°C  
 For further information contact Red Rooster

## BAG HANDLING HOIST

SAFE WORKING LOAD - 1 tonne to 2.5 tonne

Red Rooster offer three capacities of Big Bag handling hoists designed to meet the special requirements of handling bags of product. With 1 tonne, 2 tonne and 2.5 tonne capacities this covers most requirements, but we can design for larger capacities if necessary. With one load hook the frame dimensions can be varied if required to give the cruciform the maximum lifting height keeping clear of the hoist frame and the chain collector.

Specifically designed for Big Bag handling, our hoists have a rugged and extremely compact design giving the best possible approach distance. Heavy duty load chain is used to reduce excess wear caused by the movement of the cruciform and bag while lifting.

Due to the dusty environment of Big Bag handling, it's important that the load chain and the drive teeth on the trolley wheels be regularly inspected for wear, cleaned and kept lubricated. If exhaust oil or moisture is a concern, the exhaust air from the hoist and trolley can be piped away to a safe area.

As with all Red Rooster hoists and trolleys our units are available as either ZONE 1 or ZONE 2 units with gas groups IIB or IIC and temperature class T4.

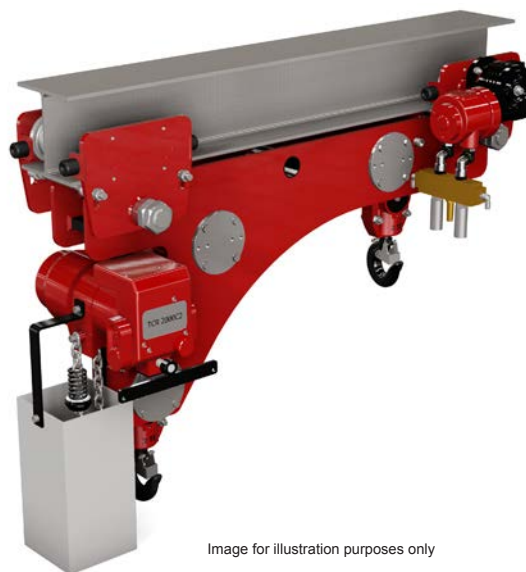


Image for illustration purposes only

MODEL	TCR1000LH/BB-ATX	TCR2000LH/BB-ATX	TCR3000LH/BB-ATX
WLL	1000 kg	2000 kg	2500 kg
CHAIN FALLS	1	2	1
LIFTING SPEED FULL LOAD	6 m/min	3 m/min	2.8 m/min
LIFTING SPEED NO LOAD	11.3 m/min	5.7 m/min	5.7 m/min
HOIST AIR CONSUMPTION	25 l/sec	25 l/sec	33 l/sec
TROLLEY AIR CONSUMPTION	25 l/sec	25 l/sec	25 l/sec
AIR PRESSURE	6 bar	6 bar	6 bar
AIR CONNECTION	1/2"	1/2"	3/4"
WEIGHT WITH 3M HOL	140 kg	155 kg	320 kg
EXTRA WEIGHT PER METRE	1.1 kg	2.2 kg	2.7 kg
TROLLEY TRAVEL SPEED	6 m/min	6 m/min	6 m/min
FLANGE RANGE	140-300 mm	140-300 mm	160-300 mm

Information subject to change without notice



RRI have a wide range of accessories available that can be supplied along with your hoist or at a later date to make sure our hoist meets your needs.

- ▷ Range of pendants
- ▷ SMC air service units
- ▷ Travel limit valves
- ▷ Special Paint
- ▷ Overload horns
- ▷ Standard, case hardened or stainless steel load chains
- ▷ Various air supply systems to your hoist, trolley or crane
- ▷ Chain collectors (PVC, galvanised or steel)
- ▷ Air Regulators
- ▷ Emergency Stop Valves
- ▷ Bronze sprayed or stainless steel hooks
- ▷ Lubrication Oil

### RED ROOSTER HOIST AND TROLLEY CONTROLS

#### CORD CONTROL

Can be supplied at any length. Gives direct control to the limit level which is connected to the control valve to giving variable speed control. Cord control is available on all capacities of hoist.



#### PENDANT CONTROL - RRI-VTP

Comes as standard with pendant control TCR pneumatic hoist. Fitted with an emergency stop and 2 metre hoses which can be extended and is available as either 2, 4 or 6 button versions.



#### PENDANT CONTROL - RRI-M AND RRI-MO

Available as either the Marine version fitted with 1/4" rubber hoses or the Marine Offshore version fitted with hoses and stainless steel valves. The housing is easily held in one hand with easy to use buttons all guarded to prevent inadvertent use. Suitable for use in aggressive environments and available in 2, 4 & 6 station versions.



#### PENDANT CONTROL - TCS-P

Our TCS high speed hoist is controlled by the TCS-P pendant which has two levers for superb speed control and has an emergency stop.





## PENDANT CONTROL TYPE DP

The DP pendant is used on our mini hoists TCR-250 and TCR-500/2. The full air flow passes through the pendant giving great control of the hoist.



## CONTROL BOXES TYPE - CB

We can build the same valves we use in our RRI pendants buttons into wall mounted control boxes. They are available with 2, 4, 6 or 8 stations c/w an emergency stop.

## RED ROOSTER PNEUMATIC HOISTS AND MOTORISED TROLLEYS

To control our trolleys any of the RRI multi-button types can be used with the RRI-VTP4 being the most popular.

## RED ROOSTER PNEUMATIC CRANES

Both the RRI-VTP of the RRI-VTP/M are available in multi-button options to give a range of options for full control.

## RED ROOSTER RADIO CONTROLS

When excessive distances between the control location and the hoist become a problem Red Rooster can offer a radio control option that is easily fitted to any of our hoists, trolleys or cranes. This system offers a safe option to long control lines and is available in standard and ATEX versions.

## AIR SERVICE EQUIPMENT






For faultless operation of your Red Rooster pneumatic hoist, trolley or crane the compressed air must be clean, dry and lubricated. We recommend that you should always fit an SMC filter lubricator along with a regulator if required. Available as filter / lubricator units or as filter / lubricator / regulators from 0.375" to 1" always in stock.



## SECTION 8

### LOAD CHAIN

Red Rooster use high quality load chain to EN818-7 ranging from 4 x 12mm chain on the 250 kg hoist up to 22 x 66mm load chain on our 25 tonne and 50 tonne hoists. Depending on the working duty and operating conditions we can offer higher quality chain with a higher resistance to wear and different finishes on the chain to protect against corrosion.

CHAIN SIZES	
4.0 x 12.0mm	
6.3 x 19.1mm	
7.1 x 21.0mm	
11.2 x 34.0mm	
16.0 x 45.0mm	
22.0 x 66.0mm	

Lubrication of the chain can increase the life of the chain by up to 10 times

### LUBRICATION OIL

Red Rooster can offer our own brand of airline lubricating oil. The Atlub Turbine Oil is suitable for all Red Rooster hoists and trolley motors



### LOAD LIMITERS

We can offer either a mechanical (LLM) or a differential pressure (LLD) load limiter that can be retrofitted to pneumatic hoists or winches. Both types cut off the pilot supply on the hoisting side of the motor stopping the motor raising, but the motor will still lower after the load limiter has been closed.

### AIR SUPPLY HOSE

We can offer a variety of air supply hoses to suit the customer and the site, such as PVC, rubber anti-static hose and spiral hoses. These are supplied along with end fittings for connection to the hoist and your air system.



## MAIN AIR SHUT OFF VALVE

All pneumatic hoists can be fitted with a main air valve to cut off the air supply to the hoist or winch. This is controlled via the emergency stop button on the pendant.



## CHAIN COLLECTORS

Red Rooster offer a wide range of PVC chain bags and chain buckets manufactured from either galvanised or stainless steel. The chain-bags are mainly used on the smaller hoists with a maximum of 20m of 4 x 12mm chain or 13m of 7.1 x 21mm chain. Above these sizes we use steel chain buckets which can take up to 100m of 22 x 66mm load chain.

Simply advise us of your hoist model and height of lift and we will supply you with a chain collector and bracket to suit. Where headroom is a problem we can try to alter the shape of a standard bucket to keep the headroom to a minimum.

With the increased size and weight in the collectors we may need to supply secondary suspension slings for added support.

We have a selection of chain buckets in stock to suit 250 kg to 6 tonne hoists with larger capacities being made to order.



## FESTOON SYSTEMS

We offer a range of festoon systems to support air hose, control hoses, flat form cables and round cables running from the hoist back to the supply valve or pipework.

Catenary systems - see section

C Track system - see section

Hose support trolleys - see section

## HEAVY DUTY SYSTEMS

For systems with heavy hoses or cables, we can also supply square section tracks for straight or curved beams. The sections of track are supported by support brackets attached to the top flange of the beam.

We can also supply heavy duty C Track systems built from larger stronger sections.

### CATENARY SYSTEM

The CATENARY system's simple wire rope is designed for the support and conveyance of power to overhead travelling cranes, hoists, jibs, and monorails, mobile material handling machines and all other equipment.

The various system components have been designed to work with both flat and round cable of varying thicknesses / widths and diameters.

In order to produce a smooth operation and minimal wear on the trolley wheels, our CATENARY system utilises a PVC coated galvanised steel cable of 6mm dia. The cable supports are designed to support a max run of 10m of cable (subject to the weight of the cable or air hose).

#### KEY POINTS

- ▷ Utilises a PVC coated galvanised wire rope
- ▷ Cable hangers support a maximum length of 10m runs
- ▷ Variety of trolleys to suit both budget and application
- ▷ Adapted for both round and flat cable
- ▷ May be used for the conveyance of air hose systems
- ▷ Designed for ease of installation requiring no special tools

### RED ROOSTER HOSE SUPPORT TROLLEY RSJ FESTOON CABLE SYSTEMS

These FESTOON trolleys can run along the same beam as the hoist, making installation fast and easy. These trolleys follow the hoist along the runway beam and are pulled in and pushed out by the main trolley. Trolleys are available for air hose, flat form cable and round cable. We can supply these trolleys for standard or ATEX systems. Trolley capacity 50 kg to suit beam sizes up to 300mm.



## FESTOON SYSTEM

The FESTOON C-TRACK system, has been specifically designed and developed for the support and conveyance of air hose, flat form cable and round cable. The application of which may be seen in overhead travelling cranes, hoists, jibs and monorails, mobile material handling machines and other travelling equipment.

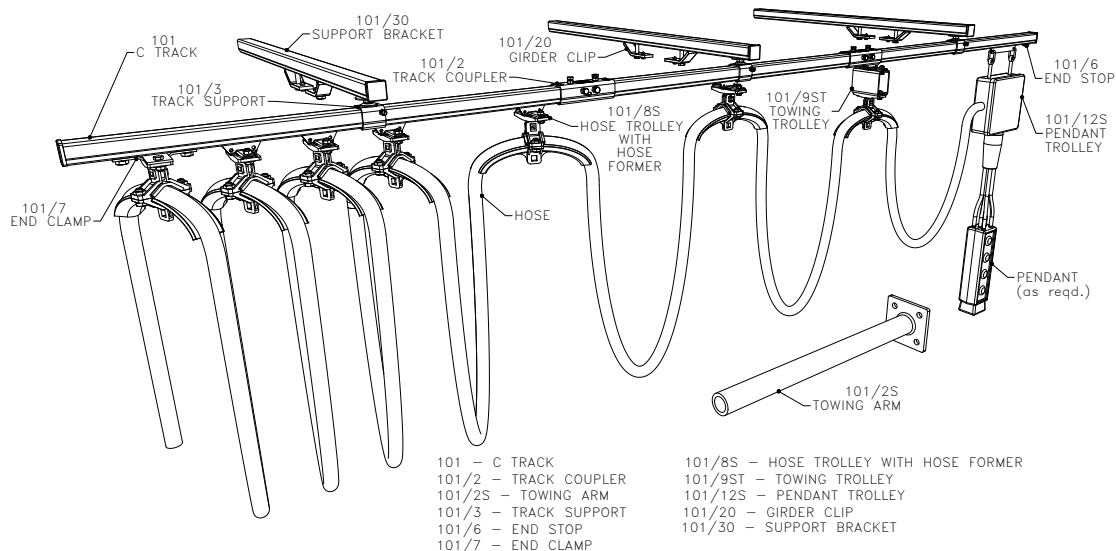


The various system components have been designed to work with air hose, flat form cable and round cable of varying thicknesses, widths, diameters and weights.

Depending on the application or environment, a FESTOON system is offered in a choice of 2 different materials: galvanised or stainless steel. The track can either be single for supply only or gradual track for an independent pendant.

On our clients specific request, a FESTOON C-TRACK can also be supplied curved. Our automated rolling and forming machinery, is able to achieve a maximum bending radius of 1.25m, easily covering a multitude of conveyance applications. These are made to order.

With our offering of stainless steel profiles, our FESTOON C-TRACK system is also ideal for the food, marine industry, or safe areas where ATEX certification is required.



The FESTOON system has been designed for years of trouble free operation and its ease of installation does require the need of special tools.





Red Rooster design and manufacture a range of overhead cranes and swing jibs which can be made to meet your individual requirements. We specialise in pneumatic cranes using Red Rooster hoists, drives and control systems. However we can also supply manual, geared and electric cranes. Electric and pneumatic cranes can be supplied as either chain or wire rope hoists depending on the requirement, with speed options available on the hoisting and travelling motions.

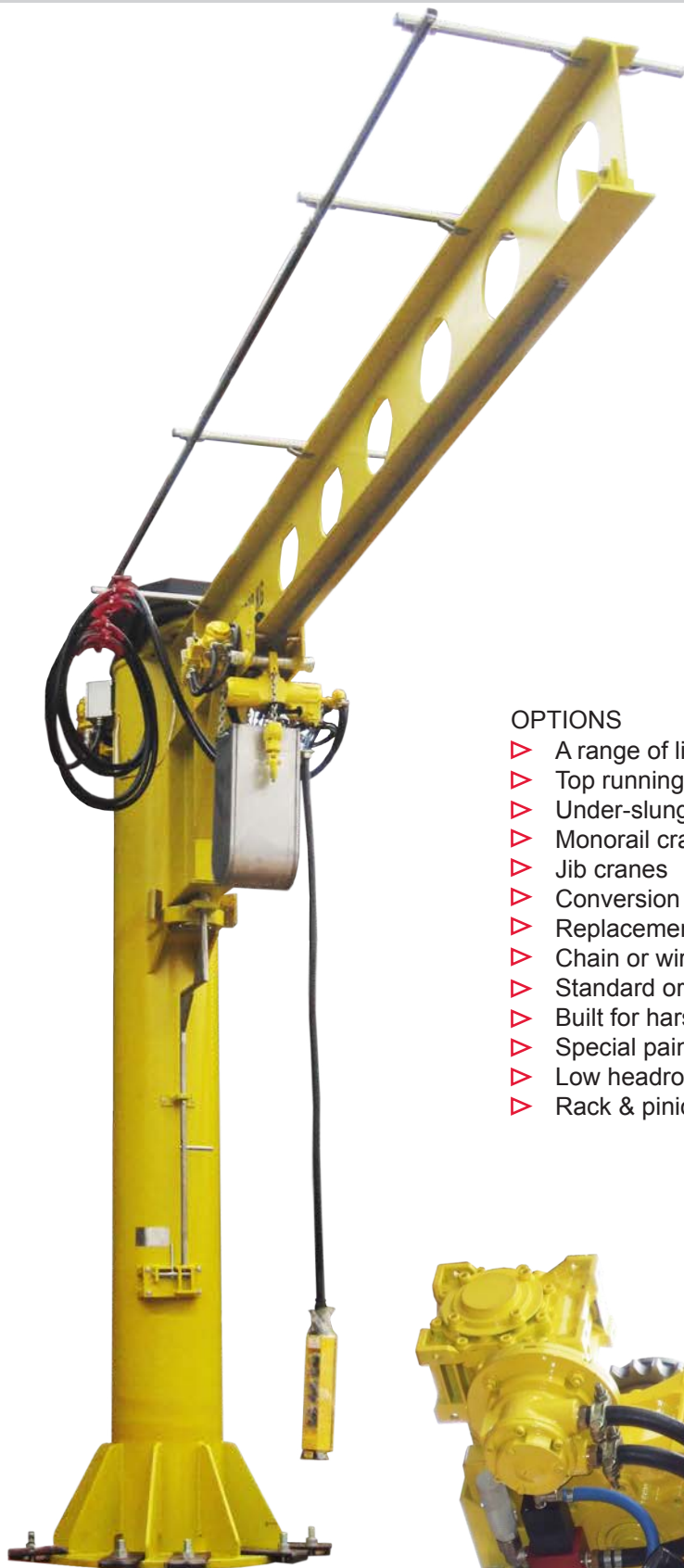
Our cranes can be supplied complete or in kit form. Our supply can consist of the main beam, control system, air hoses, festoon system, end carriages and the hoist and trolley. The pendant controls are easy to operate with single or two speed operation.

We also supply a range of swing jib cranes with manual, geared and pneumatic slew drives designed with the height and working radius to meet your needs.

Our cranes can be supplied as standard units or built to suit ATEX ZONE 1 or 2 areas and suitable for challenging operating conditions both onshore and offshore.







#### OPTIONS

- ▷ A range of lifting capacities
- ▷ Top running overhead cranes, single or double girder
- ▷ Under-slung overhead cranes
- ▷ Monorail cranes
- ▷ Jib cranes
- ▷ Conversion from geared to air powered cranes
- ▷ Replacement hoist and / or cross travel trolley
- ▷ Chain or wire rope hoists
- ▷ Standard or ATEX cranes
- ▷ Built for harsh environments
- ▷ Special paint systems
- ▷ Low headroom versions
- ▷ Rack & pinion drives



## SECTION 9

Developed to replace long control tubes where the pendant length can create delays, where it is difficult for the operator to travel with the hoist or crane, where the operator needs to work at different levels or to give the operator more freedom to check the movement and positioning of the load.

The Red Rooster radio remote control system can be used on chain hoists, wire rope hoists, trolleys and cranes. The system is fitted with a main STOP valve to cut off air supply and is in accordance with standards PL e EN ISO 13849 and SIL 3 EN 61508.

Our remote control can be used in non-hazardous areas and there is also an option of an ATEX version available for ZONES 1 and 2.

- ▷ There are 64 frequencies in the 433 – 434 MHz range
- ▷ Various options for the power supply for the radio receiver
- ▷ The transmitter is powered by a plug-in rechargeable battery
- ▷ Transmitter and receiver protection class is IP65
- ▷ The remote control buttons are easily operated when wearing gloves
- ▷ Available on all Red Rooster hoists and trolleys
- ▷ A standard pendant can be connected into the system in case of failure or power loss



Images for illustration purposes only



## USEFUL CONVERSIONS

### KNOWN UNIT

### MULTIPLY BY

### TO GET

### PRESSURE

Kilograms per square cm	14.226	Pounds per square inch
Bar	14.503	Pounds per square inch
Pounds per square inch (psi)	0.6984	Bar
Pounds per square inch (psi)	0.0703	Kilograms/cm <sup>2</sup>

### FLOW

Cubic foot per minute (cfm)	0.02832	Cubic metres per minute (m <sup>3</sup> /min)
Cubic foot per minute (cfm)	0.4719	Litre per second (l/sec)
Litre per second (l/sec)	2.118	Cubic foot per minute (cfm)
Litre per second (l/sec)	0.001	Cubic metre per second (M <sup>3</sup> /sec)
Cubic metre per minute (M <sup>3</sup> /min)	16.6666	Litre per second (l/sec)
Cubic metre per minute (M <sup>3</sup> /min)	35.3146	Cubic foot per minute (cfm)

### WEIGHT

Pounds (lbs)	0.4536	Kilograms (kg)
US Ton	0.9072	Tonne
Imperial Ton	1016.0469	Kilograms (kg)
Kilograms (kg)	2.204622	Pounds (lbs)
Tonne	1000	Kilograms (kg)

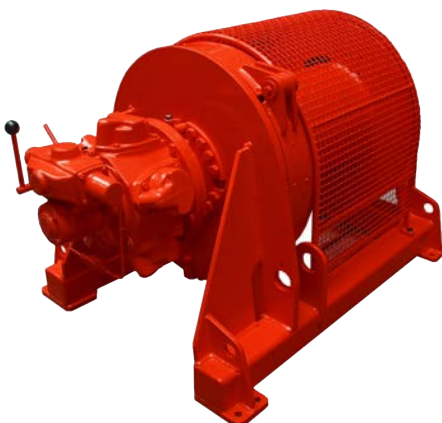
### SPEED

Miles/hour	1.60934	Kilometres/hour
Kilometres/hour	0.62137	Miles/hour
Metres/second	3.28084	Feet/second
Feet/second	0.3048	Metres/second

### LENGTH

Inches (in)	25.4	Millimetres (mm)
Feet (ft)	304.8	Millimetres (mm)
Yards (yd)	0.9144	Metres (m)
Miles	1.60934	Kilometres (km)
Centimetres (cm)	0.3937	Inches (in)
Metres (m)	3.28084	Feet (ft)
Metres (m)	1.093613	Yards (yd)
Kilometres (km)	0.621371	Miles

- ▷ **EMCÉ** WINCHES
- ▷ INDUSTRIAL HAND WINCHES
- ▷ **KITO** ELECTRIC HOISTS
- ▷ **KITO** MANUAL HOISTS
- ▷ **KITO** LEVER HOISTS
- ▷ LOAD LINKS
- ▷ LOAD SHACKLES
- ▷ RUNNING LINE MONITORS







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