





Ultra High Speed Operation!

Makes improved work efficiency and stress-free ultra high speed operation possible. Enables separate adjustment of the lifting and the lowering speed ranges.

Lifting or lowering all at once! Ultra high speed operation reduces wasted time!

KITO Air Hoists provides a selection of the operation speeds, allowing variations in work efficiency.

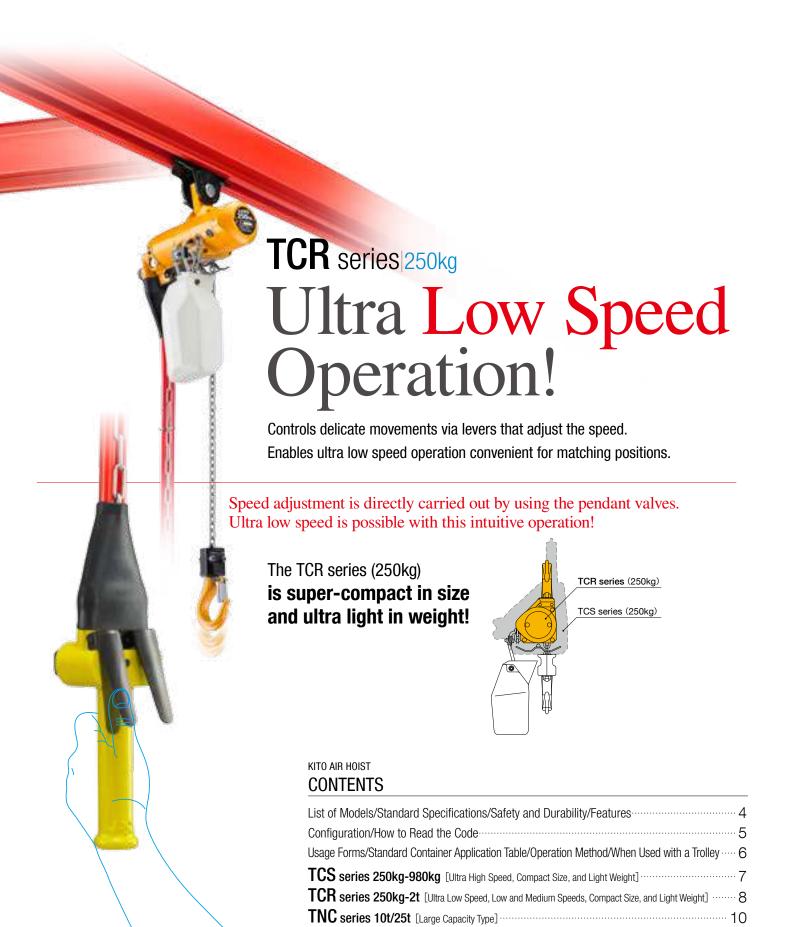
KITO Air Hoists reduce the burden for operators and supports improved work efficiency.

A wide lineup is available, from models offering smooth low speed operation to models with stress-free high speed operation.

There are also outstandingly portable, compact and light weight models as well as large-capacity models for handling heavy loads.

As a comprehensive material-handling equipment manufacturer, KITO enables the building of total crane systems*1 that match customers' requests and the conditions at sites.

^{*1:} Light cranes and manual trolleys are available.



Technical Information

TCRM series 490kg [Air-motor Trolley Combination Type] 11

Plain Trolley Combination Type: Dimensions Table 12

Geared Trolley Combination Type: Dimensions Table 13

KITO Air Hoists: List of Models

	Mode	N.	Capacity (t)											
	Wiode	;I	250kg	490kg	980kg	2	10	25						
	TCS	High speed, compact size, light weight	•	•	•									
Hook suspended type (Single unit)	TCR	Low and medium speeds, compact size, light weight	•	•	•	•								
	TNC	Large capacity					•	•						
Air-motor trolley combination type	TCRM	Air-motor trolley		•										

^{*} The TCRM hoist main unit is a TCR model.

Standard Specifications

Used air pressure	0.4MPa to 0.6MPa (Recommended pressure: 0.6MPa)
Ambient temperature	-10 to 60°C
Usage humidity	85% RH or less
Usage environment	Indoors
Color	KITO Yellow (Equivalent to Munsell 7.2YR6.5/14.5)
Operation method	Cord, pendant, or hand lever

^{* 1}MPa=10bar=145psi

Safety and Durability

Ultra-strong nickel-plated load chain

(Except for the TNC series)

Uses KITO's original world-renowned chains!

• Special alloy steel quenched chains offer high quality in all aspects of strength, durability, and precision.

Overload limiter

(TCR series 490kg-5t, TNC series, TCRM series)

Prevents accidents when there is abnormal loading!

 This prevents the hoist main unit and the load chain from damage due to abnormal loading, such as overloading and ground lifting. When shipped from the factory, the hoist is set to operate within 125% of the load capacity under the used air pressure of 0.6MPa.

Anti-overwinding device

(All models)

Protects the hoist main unit!

• This protects the hoist main unit and the load chain from damage caused by overwinding.

Pendant with emergency stop button

(Standard for the TNC series, and available as an optional order for other models)

Immediately stops the hoist in abnormal operation!

• This protects operators as well as the hoist main unit.

Environment-friendly

(All models)

Friendly to the environment and to people!

• No usage of the 15 substances regulated by KITO as environmentally hazardous, including the 6 substances covered by the European Union RoHS Directive.

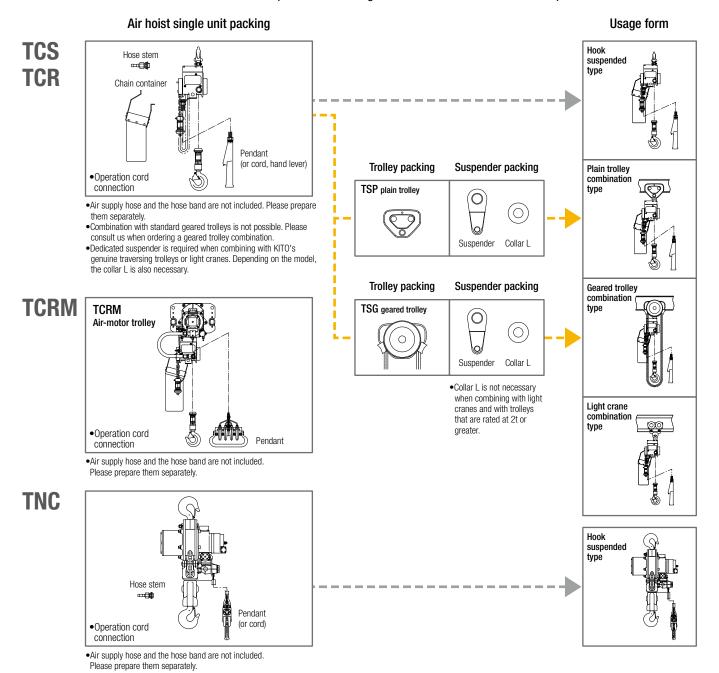
Features

1	The small motor makes the hoist compact and light weight.	4	The possibility of catching fire is low because the motor is powered by air, not electricity.
2	Fine adjustment of the lifting and lowering speeds is easy using the operating valves. (Variable speed changes)	5	There is no need for adjusting the hoist to the local power voltage and frequency because no electricity is used.
3	The air motor is free from burnouts and can be used frequently.	6	A wide variety of capacities are available, from 250kg up to 25t.

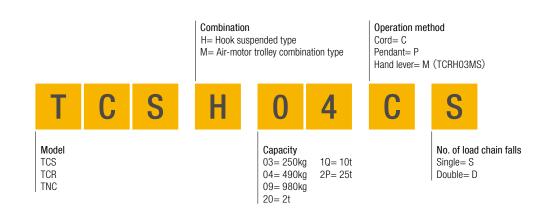
Configuration

KITO offers a full lineup of unique supplied system structures as shown below.

This enables customers to make more economical purchases of usage forms that best matches their requirements.



How to Read the Code



KITO Air Hoists: Usage Forms

Standard Container Application Table

_	Capacity	_	Operation			Usage form		
Series	(t)	Code	method	Hook suspended type	Air-motor trolley combination type	Geared trolley combination type	Plain trolley combination type	Light crane combination type
	250kg	TCSH03CS	Cord	•	-	-	•	•
	250Kg	TCSH03PS	Pendant	•	-	-	•	•
TCS	490kg	TCSH04CS	Cord	•	-	-	•	•
100	490Kg	TCSH04PS	Pendant	•	_	_	•	•
	980kg	TCSH09CD	Cord	•	-	ı	•	•
	Joung	TCSH09PD	Pendant	•	1	ı	•	•
		TCRH03CS	Cord	•	-	ı	•	•
	250kg	TCRH03PS	Pendant	•	ı	ı	•	•
		TCRH03MS	Hand lever	•	_	-	•	•
	490kg	TCRH04CS	Cord	•	ı	•	•	•
	450Kg	TCRH04PS	Pendant	•	_	•	•	•
TCR		TCRH09CD	Cord	•	ı	•	•	•
	980kg	TCRH09PD	Pendant	•	_	•	•	•
	Joung	TCRH09CS	Cord	•	-	•	•	•
		TCRH09PS	Pendant	•	_	•	•	•
	2	TCRH20CD	Cord	•	-	•	•	-
	2	TCRH20PD	Pendant	•	-	•	•	-
	10	TNCH1QCD	Cord	•	-	-	-	-
TNC	10	TNCH1QPD	Pendant	•	-	-	-	_
TING	25	TNCH2PCD	Cord	•	-	-	-	-
	23	TNCH2PPD	Pendant	•	-	-	-	-
TCRM	490kg	TCRM04PS	Pendant	_	•	-	_	_

Container applicable range												
4												
~4m	4.1~6m	6.1~7m	7.1~8m									
(~2m)												
(**2111)												

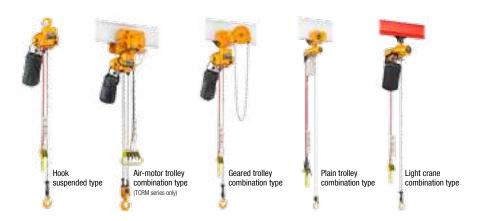
- : Setting required : Setting required (The suspender and collar L are required) : Setting required (The suspender is required)
- ▲: Custom made (designed to order) —: Setting not required

Standard Containers



(Due to the special order manufacturing, the container will be set to match the lift of the hoist.)

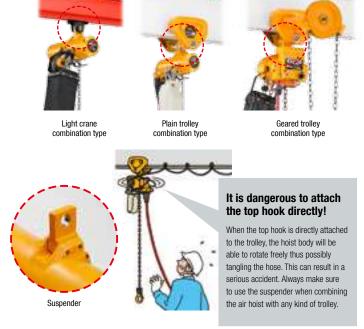
Not supported



Operation Method

When Used with a Trolley





TCS series 250kg-980kg I

Ultra High Speed, Compact Size, and Light Weight

Main application fields

Shipyards	Various types of generating sta
Civil engineering	Aircraft
works	maintenan

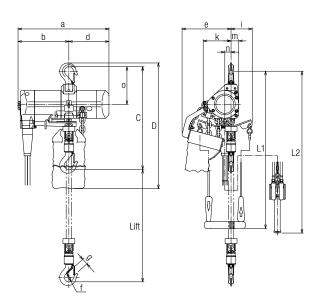
Ship outfitting

Rubber factories

Achieves ultra high speed operation*1.

*1: The lifting speed is 63m/min in the TCS series 250kg when unloaded.

- •The speed can be adjusted according to how strongly the valves are pressed, allowing intuitive operation.
- •The range of the lifting and lowering speeds can be adjusted separately.
- •The compact size and light weight features make transportation and transfer easy.
- •Anti-overwinding device is incorporated as standard.
- •KITO's original ultra-high strength, rust-resistant nickel-plated chain is incorporated as standard.





TCS specifications

			Standard	Cord	Pendant	During rat	ted loading	When u	nloaded	Air	Load chain			Net	Net weight
Capacity (kg)	Code	Operation method	lift (m)	length: L1 (m)	hose length: L2 (m)	Lifting speed (m/min)	Lowering speed (m/min)	Lifting speed (m/min)	Lowering speed (m/min)		diameter (mm) x No. of falls	Test load (t)	Air inlet	weight (kg)	for additional 1m of lift (kg)
250	TCSH03CS	Cord		1.7	-	34.0	63.0	63.0	38.0			313kg		20	0.88
250	TCSH03PS	Pendant		-	2.5	34.0	03.0	03.0	36.0		ø6.3×1	SISKY		21	1.12
490	TCSH04CS	Cord	3	1.7	-	17.0	24.0	33.0	19.0	2.1	Ø0.3×1	COEI	Rc1/2	20	0.88
490	TCSH04PS	Pendant] 3	-	2.5	17.0	34.0	33.0	19.0	2.1		625kg	NC1/2	21	1.12
000	TCSH09CD	Cord		1.7	-	0 E	17.0	16 E	0.5		a6 00	1.23		26	1.76
980	TCSH09PD	Pendant		-	2.5	8.5	17.0	16.5	9.5		ø6.3×2	1.23		27	2

[•] Each performance value is the numerical value when the used air pressure is 0.6MPa. •The net weight is the value for the standard lift. •The air consumption is the maximum value during use.

TCS dimensions (mm)

Capacity (kg)	Code	Headroom: C	D	a	b	d	е	f	g	i	k	m	n	0
250	TCSH03CS									85				
250	TCSH03PS	414	555				197	36	25	56	112	31	25	151
490	TCSH04CS	414	555	365	204	161	197	30	20	85	112	31	20	101
490	TCSH04PS			300	204	101				56				
980	TCSH09CD	456	577				221	40	29	70	136	37	49	173
900	TCSH09PD	450	377				221	40	29	70	130	31	49	173

[•]The D dimension is the value for the standard lift. •The values described above are the nominal dimensions.

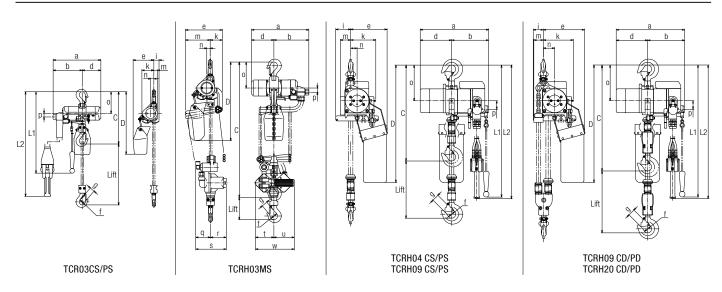
TCR series 250kg-2t Ultra Low Speed, Low and Medium Speeds, Compact Size, and Light Weight

Main application fields

Shipyards
Civil engineering works

- •The compact size and light weight features make the hoist outstandingly portable.
- •The speed can be adjusted according to how strongly the valves are pressed, allowing intuitive operation.
- •Ultra low speed operation is possible, convenient for matching positions. (250kg)
- •Anti-overwinding device is incorporated as standard.
- •KITO's original ultra-high strength, rust-resistant nickel-plated chain is incorporated as standard.
- •An overloading limiter device is incorporated to automatically stop the lifting when overloading is detected. (490kg to 5t)





TCR specifications

			Standard	Cord	Pendant	During rat	ed loading	When u	ınloaded	Air	Load chain			Net	Net weight
Capacity (t)	Code	Operation method	lift (m)	length: L1 (m)	hose length: L2 (m)	Lifting speed (m/min)	Lowering speed (m/min)	Lifting speed (m/min)	Lowering speed (m/min)		diameter (mm) x No. of falls	Test load (t)	Air inlet	weight (kg)	for additional 1m of lift (kg)
	TCRH03CS	Cord	3	1.7	-	9.0	17.4	18.6	13.8	1				7	0.35
250kg	TCRH03PS	Pendant	3		2.2	8.1	10.5	10.7	10.4	0.0	ø4.0×1	313kg	Rc3/8	8.6	0.76
	TCRH03MS	Hand lever	2	-	_	8.0	16.5	16.7	12.4	0.9				11	-
4001.0	TCRH04CS	Cord		1.9		10.0	16.0	19.0	13.0		ø6.3×1	COEka		30	0.88
490kg	TCRH04PS	Pendant		-	2.4	10.0	10.0	10.0	13.0		00.3×1	625kg		31	1.12
	TCRH09CD	Cord		1.9	-	5.0	8.1	9.6	6.4		ø6.3×2			34.5	1.76
0001.0	TCRH09PD	Pendant	3	-	2.4	5.0	0.1	9.0	0.4	1.7	00.3×2	1.23	Rc1/2	35.5	2
980kg	TCRH09CS	Cord	3	1.9	-	5.8	0.0	10.5	0.5	1.7	a7 4 4	1.23	HC1/2	33	1.1
	TCRH09PS	Pendant		-	2.4	5.8	9.3	10.5	6.5		ø7.1×1			34	1.34
0	TCRH20CD	Cord		1.9	-	0.0	4.7	F 0	2.0		a7.10	0.5		39	2.2
2	TCRH20PD	Pendant		-	2.4	2.9	4.7	5.3	3.2		ø7.1×2	2.5		40	2.44

[•] Each performance value is the numerical value when the used air pressure is 0.6MPa. •The net weight is the value for the standard lift. •The air consumption is the maximum value during use. •The L2 dimension will be 2.3m when the TCRH03PS with emergency stop button is selected.

TCR dimensions (mm)

Capacity (t)	Code	Headroom: C	D	a	b	d	е	f	g	i	k	m	n	0	р	q	r	s	t	u	w
	TCRH03CS	305	375	247	135		124			34	71	21			-						
250kg	TCRH03PS	300	3/3	2006	17/	112	'-'	36	25	0 1			19	130	01	-	-	-	-	-	_
	TCRH03MS	837	392	286	174		184			-	61	123			21	74	78	152	92	102	194
400ka	TCRH04CS	462	582				181			74	124	52	32								
490kg	TCRH04PS	402	302	82			101			-		02	O.E.								
	TCRH09CD	519	667				205	40		50	149	50	56	177							
0001/a	TCRH09PD	519	007	342	186	450	200	40	29	-		47	00	.,,	42						
980kg	TCRH09CS	466	582	342	100	156	181		29	74	124	52	32		42	-	-	-	-	-	-
	TCRH09PS	466	382				101			-	121	02	0L								
2	TCRH20CD	E07	701				208	45		47	152	50	59	211							
2 TCR	TCRH20PD	597	701				250	45		-	102	00		_							

[•]The D dimension is the value for the standard lift. •The values described above are the nominal dimensions.

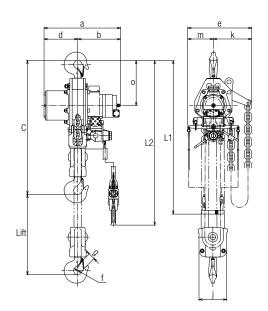
TNC series 10t/25t Large Capacity Type

Main application fields

Main Shipyards (N Offshore oilfield plants

 Please consult with KITO when hoists are to be used in special environments

- •This compact, large-capacity air hoist is ideal for use in sites with limited work space such as shipyards that do repairs.
- •Ideal for work in shipyard sites such as incorporating/disassembling of propellers and propeller shafts of large-sized vessels.
- •Anti-overwinding device is incorporated as standard.
- An overloading limiter device is incorporated to automatically stop the lifting when overloading is detected.
- •The pendant type incorporates an emergency stop button as standard.





TNC specifications

			0111	01	Decident	During rat	ed loading	When u	nloaded		Landahata			Non	Net weight
Capacity (t)	Code	Operation method	Standard lift (m)	Cord length: L1 (m)	Pendant hose length: L2 (m)	Lifting speed (m/min)	Lowering speed (m/min)	Lifting speed (m/min)	Lowering speed (m/min)	Air consumption (m³/min)	Load chain diameter (mm) x No. of falls	Test load (t)	Air inlet	Net weight (kg)	for additional 1m of lift (kg)
10	TNCH1QCD	Cord		2.0	-	1.5	2.3	2.2	1.8	6	ø16.0x2	12.5		215	5.7
10	TNCH1QPD	Pendant	2	-	2.9	1.0	2.3	۷.۷	1.0	0	Ø10.0XZ	12.5	Rc1	220	6.1
25	TNCH2PCD	Cord	3	2.2	-	0.5	0.7	0.7	0.5	5.8	ø22.0x2	31.25	nu i	490	10.7
20	TNCH2PPD	Pendant		-	3.0	0.0	0.7	0.7	0.5	0.0	WZZ.UXZ	31.23		495	11.1

[•] Each performance value is the numerical value when the used air pressure is 0.6MPa. •The net weight is the value for the standard lift. •The air consumption is the maximum value during use.

TNC dimensions (mm)

Capacity (t)	Code	Headroom: C	a	b	d	е	f	g	j	k	m
10	TNCH1QCD	890	560	313	247	468	60	40	214	280	188
10	TNCH1QPD	090	000	010	247	100		10	217	200	100
25	TNCH2PCD	1440	710	346	364	449	125	80	330	313	136
23	TNCH2PPD	1440	710	340	304	449	125	00	330	313	130

[•]The values described above are the nominal dimensions.

TCRM series 490kg Air-motor Trolley Combination Type

Main application fields

Shipyards	Various types of pogenerating station
ivil engineering	Aircraft
works	maintenance

s of power stations Automobil factories
aft Marine resound developme

Ironworks
Ship outfitting

Steelworks

Rubber factories

Petrochemical plants

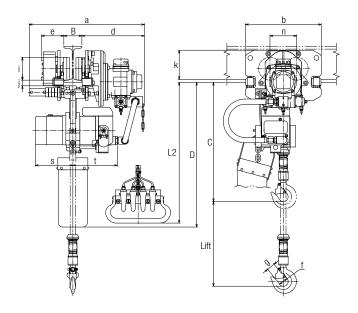
ts Tex

Coal mines

Other

•Transporting of heavy loads is easy due to the air-motor trolley combination.

- •Lifting, lowering, and traversing can be operated at variable speeds using the 4-point type pendant.
- Anti-overwinding device is incorporated as standard.
- •KITO's original ultra high strength, rust-resistant nickel-plated chain is incorporated as standard.
- •An overloading limiter device is incorporated to automatically stop the lifting when overloading is detected.





TCRM04PS

TCRM specifications

Capacity (kg)	Code		Standard	Pendant	During rat	ed loading	When u	nloaded	Lifting air	Traversing	Traversing	Load chain	Test	Applicable rail width		Net	Net weight for	
		Operation method	lift (m)	hose length: L2 (m)	Lifting speed (m/min)	Lowering speed (m/min)	Lifting speed (m/min)	Lowering speed (m/min)	consumption (m³/min)	cnood	air consumption (m³/min)	diameter (mm) x No. of falls	load (t)	(Minimum curve radius): B (mm)	Air inlet	weight (kg)	additional 1m of lift (kg)	
	490	TCRM04PS	Pendant	3	22	10.0	16.0	19.0	13.0	17	20.0	1.5	ø6.3×1	625kg	58 to 137	R3/4	82	1.13
	490	TCRM04PS P	i Giluaiit	5	2.2	10.0	10.0	19.0	13.0	1.7	20.0	1.0	WU.JX I	UZUNG	(3500)	110/4	02	1.15

[•] Each performance value is the numerical value when the used air pressure is 0.6MPa. • The net weight is the value for the standard lift. • The air consumption is the maximum value during use.

TCRM dimensions (mm)

Capacity (kg)	Code	Headroom: C	D	a	b	d	е	f	g	i	j	k	n	S	t
490	TCRM04PS	490	604	555	315	261	94	40	29	95	23	122	111.3	156	186

[•]The D dimension is the value for the standard lift. •The values described above are the nominal dimensions.

[•]When selecting the compressor, consider the total of the lifting air consumption and traversing air consumption amounts. •The minimum turning radius is common for all the applicable rail widths.

Plain Trolley Combination Type: Dimensions Table

TCS series (TSP combination) dimensions (mm)

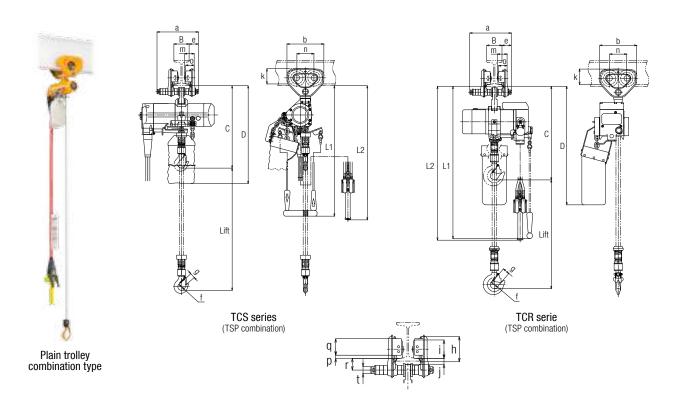
Capacity (kg)	Code	Headroom: C	Cord length : L1 (m)	Pendant hose length : L2 (m)		Minimum curve radius (mm)	D	a	b	е	f	g	h	i	j	k	m	n	0	p	q	r	t
250	TCSH03CS		1.7	-																			
230	TCSH03PS	410	-	2.5	50 to 102	1100	550	204	182	46	36	25	82	60	19	76	47.5	84	42		54	38	22
490	TCSH04CS	410	1.7	-	30 10 102	1100	330	204	102	40	30	20	02	00	19	70	47.3	04	42	10	54	30	22
490	TCSH04PS		-	2.5																10			
000	TCSH09CD		1.7	-	58 to 127	1300	565	240	236	56	40	29	106	71	24	95	56	112	50		69	50	25
980	TCSH09PD	445	-	2.5	JU 10 127	1300	300	249	230	50	40	29	100	71	۷4	90	30	112	50		09	50	23

[•]The D dimension is the value for the standard lift. •The values described above are the nominal dimensions.

TCR series (TSP combination) dimensions (mm)

Capacity (t)	Code	Headroom: C	Cord length : L1 (m)	Pendant hose length : L2 (m)	Applicable rail width : B (mm)	Minimum curve radius (mm)	D	a	b	е	f	g	h	i	j	k	m	n	0	p	q	r	t
	TCRH03CS	200	1.7	-			370																
250kg	TCRH03PS	300	-	2.2			370				36	25			19.5								
	TCRH03MS	835	-	-	50 to 102	1100	390	204	182	46			82	60		76	47.5	84	42		54	38	22
400ka	TCRH04CS	460	1.9	-			580								14								
490kg	TCRH04PS	400	-	2.4			300								14					10			
	TCRH09CD	530	1.9	-			595				40									10			
0001/0	TCRH09PD	330	-	2.5	58 to 127	1300	393	249	236	56	40	29	106	71	24	95	56	112	50		69	50	25
980kg	TCRH09CS	400	1.8	-	30 10 127	1300	COE	249	230	90		29	100	/ 1	24	90	36	112	30		09	30	23
	TCRH09PS	490	-	2.5			605																
2	TCRH20CD	560	1.9	-	82 to 153	1500	500	300	200	69	45		127	85	35	112	71	131	63		83	62	32
	TCRH20PD	500	-	2.4	02 10 103	1300	500	300	200	09	40		127	63	33	112	/	131	03		03	02	32

[•]The D dimension is the value for the standard lift. •The values described above are the nominal dimensions.

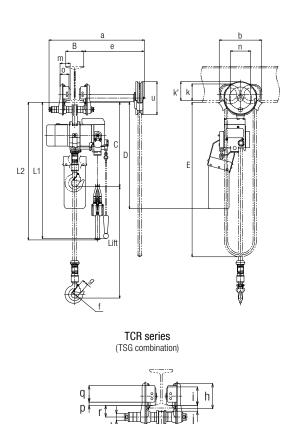


Geared Trolley Combination Type: Dimensions Table

TCR series (TSG combination) dimensions (mm)

Capacity (t)	Code	Headroom: C	Cord length : L1 (m)	Pendant hose length : L2 (m)	Applicable rail width : B (mm)	Minimum curve radius (mm)	D	a	b	е	f	g	h	i	j	k	k'	m	n	0	p	q	r	t	u
490kg	TCRH04CS	470	1.9	-			595			338					19				102						
490kg	TCRH04PS	470	-	2.4			393			330					19				102						
	TCRH09CD	540	1.9		58 to 127	1300	600	501	236		40		106	71		95	107	56		50		69	50	25	
000149	TCRH09PD	340	-	2.5	30 10 127	1300	000	331	230	56	40	29	100	/ 1	16.6	90	107	50	112	50	10	09	30	20	183
980kg	TCRH09CS	490	1.8	-			605			30		29			15.5				112		10				103
	TCRH09PS	490	-	2.5			000																		
2	TCRH20CD	EGO	1.9	-	00 to 150	1500	E00	630	200	69	45		127	85	30	110	100	71	131	60		83	60	32	
2	TCRH20PD	560	-	2.4	82 to 153	1500	000	030	200	69	40		127	00	30	112	109	71	131	63		03	62	32	





<sup>The D dimension is the value for the standard lift. The values described above are the nominal dimensions.
The geared trolley (TSG) that is combined with the air hoist is specifically for use with air hoists. When placing your order, please specify the "geared trolley (TSG) for combination with air hoists".
Combination with standard geared trolleys is not possible.</sup>

Technical Information

About the Compressor

KITO air hoists are designed to be used at air pressures from 0.4 to 0.6MPa (0.6MPa recommended).

While hoists are being operated, each model requires the air consumption amount that is stipulated in each specification column.

Therefore, the compressor air discharge amount must be greater than the total of the air consumption amounts of all the hoists that are being used simultaneously. It is desirable to prepare a compressor with a discharge amount that is approximately 20% greater than the total consumption amount, in consideration of the piping loss and pressure reduction. In general, the engine horsepower for each 1m³/min of compressor discharge amount will be approximately 10 horsepower. If the discharge amount is insufficient, the air hoist will have a reduced capacity. Please select a compressor horsepower that provides surplus air.

(Air consumption x 10) x No. of units used \leq Compressor horsepower

About the Piping

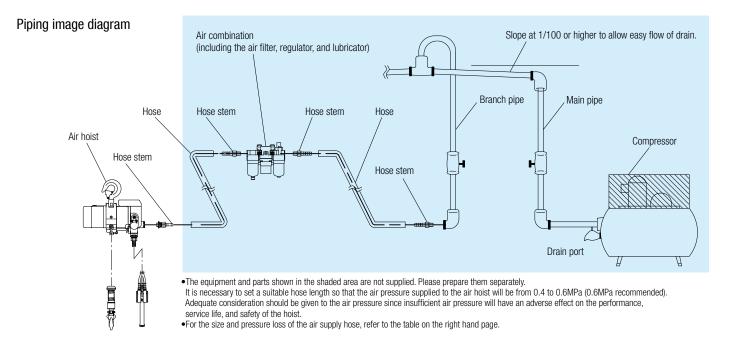
When using the air hoists, prepare the piping as shown in the "Piping image diagram" below.

* However, note that the shaded part should be prepared by the customer.

In some circumstances, the operation of air hoists becomes impossible due to fine particles of dust or moisture.

In addition, insufficient lubrication will rapidly hasten the generation of heat and wear on parts, causing problems in operation and reduction in performance. In order to avoid these problems, be certain to always use the air combination.

* Carry out an inspection of the amount of oil in the lubricator before using the hoist.



Lubricating locations	Recommended I	ubricating grease	Lubricating method	Lubricating amount and frequency
Lubricating locations	Grease name	Grade	Lubricating method	Lubricating amount and frequency
Air-motor	Turbine oil JIS type 2	Product equivalent to ISO VG-32 to 56	Install a lubricator in the piping for lubrication	The drop-feed amount is 10-15 drops/ minute (0.2-0.3cc)

[•] Daily lubrication for the reduction gear unit of this product is not required. During disassembly work, replace the grease. Caution: For the disassembly work, please place an order with KITO.

[•]Regularly apply lubricating oil to the load chain.

About the Air Supply Hose Size and Pressure Loss

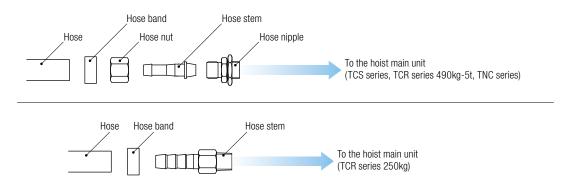
Hose	The recommended hose length for the						Free a	air amount (ı	m³/min) flov	ving through	ı a 10m long	g hose				
internal diameter dimension	model used is 10m or less. *5m or less is	Hose inlet pressure (MPa)	0.5	0.75	1	1.25	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
(mm)	recommended for the TCS.	(4)							Pressure l	oss (MPa)						
		0.4	0.0439	0.0987	0.1757	0.2549										
9.5	TCR series	0.5	0.0382	0.0879	0.1461	0.227	0.3306									
9.5	(250kg)	0.6	0.0328	0.074	0.1326	0.1971	0.2835									
		0.7	0.0294	0.0626	0.1155	0.1732	0.2492									
	TCR series	0.4	0.0107	0.0249	0.0424	0.0648	0.0932									
40.7	(490kg-2t) TCS series (250kg-980kg) TCRM series (490kg-980kg)	0.5	0.0091	0.0203	0.036	0.0541	0.078									
12.7		0.6	0.0078	0.0173	0.0309	0.0464	0.0668	0.1184	0.1849							
		0.7	0.0071	0.0155	0.0269	0.0424	0.0588	0.0999	0.1561							
	(490kg-300kg)	0.4	0.0001	0.0033	0.0057	0.0089	0.0124	0.022	0.0346	0.0459	0.0656	0.0857	0.1084	0.1338	0.1619	
40.0	TCR series (2.5t-5t)	0.5	0.0001	0.0028	0.0047	0.0075	0.0108	0.0184	0.0288	0.0415	0.0547	0.0714	0.0904	0.1116	0.1351	
19.0	TCRM series	0.6	0.0001	0.0025	0.0041	0.0065	0.0093	0.0159	0.0248	0.0355	0.0469	0.0612	0.0775	0.0956	0.1157	
	, ,	0.7		0.0016	0.0036	0.0043	0.0081	0.0144	0.0217	0.0312	0.041	0.0536	0.0678	0.0837	0.1013	
		0.4			0.0014	0.0016	0.0032	0.0056	0.0085	0.0123	0.014	0.0193	0.0244	0.0302	0.0365	0.0466
05.4	TNC series	0.5			0.0012	0.0019	0.0027	0.0048	0.007	0.0103	0.0123	0.0161	0.0204	0.0252	0.0305	0.0388
25.4	(10t and 25t)	0.6			0.001	0.0017	0.0023	0.0041	0.006	0.0088	0.0106	0.0138	0.0175	0.0216	0.0261	0.0333
		0.7			0.0009	0.0014	0.002	0.0036	0.0054	0.0073	0.0092	0.0121	0.0153	0.0189	0.0228	0.0291

[•]The values shown in the table are the pressure loss values for each pressure and each flow amount. Therefore, the secondary pressure at the hose outlet is equal to the value when the pressure loss is

Ex.) the TCR series 250kg When the hose inlet pressure is 0.6MPa and a free air amount of 1.0m³/min is flowing through a 10m hose, the pressure loss will be 0.1326MPa.

About the Air Supply Hose Connection

- (1) Wrap sealing tape around the hose nipple, and firmly mount it in the hoist.
- (2) Confirm that the main valve of the compressor is closed and the compressed air is cut off.
- (3) Before connecting the hose to the hoist, apply approximately 10 drops of lubricating oil to the connection port.
- (4) Insert the hose stem into the hose nipple, and fix it with the hose nut.
 - Mount the hose nipple in the hoist main unit. Then, use the hose band to fix the hose to the hose stem.
 - For the TCR series 250kg model, mount the hose stem in the hoist main unit. Then, use the hose band to fix the hose to the hose stem.
- * The air supply hose and the hose band are not provided. Please prepare them separately.



subtracted from the hose inlet pressure.

•When the hose length is longer than 10m, the relationship between the length and the pressure loss will be proportional. Therefore, if the hose length is 20m, the corresponding pressure loss will be two times greater than the pressure loss value shown in the table.

[•]Please check the air consumption (m³/min) of the air hoist to be used and the pressure (MPa) at the hose inlet. See the table mentioned above and confirm that the appropriate air pressure (0.4 to 0.6MPa) is supplied. *0.6MPa recommended.





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