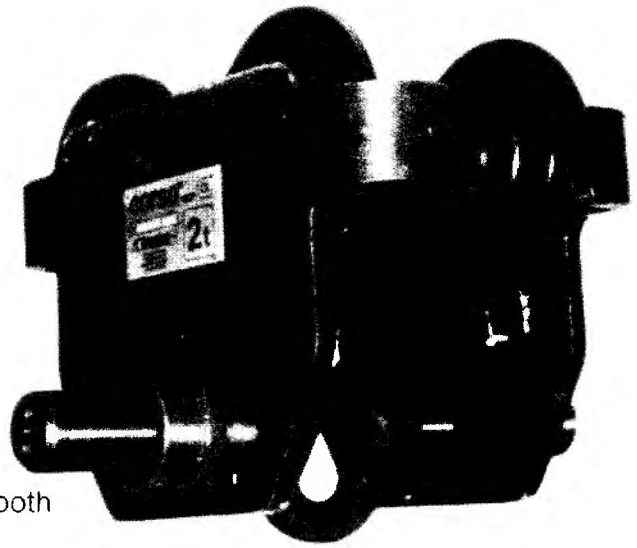


CORSO BEAM TROLLEY

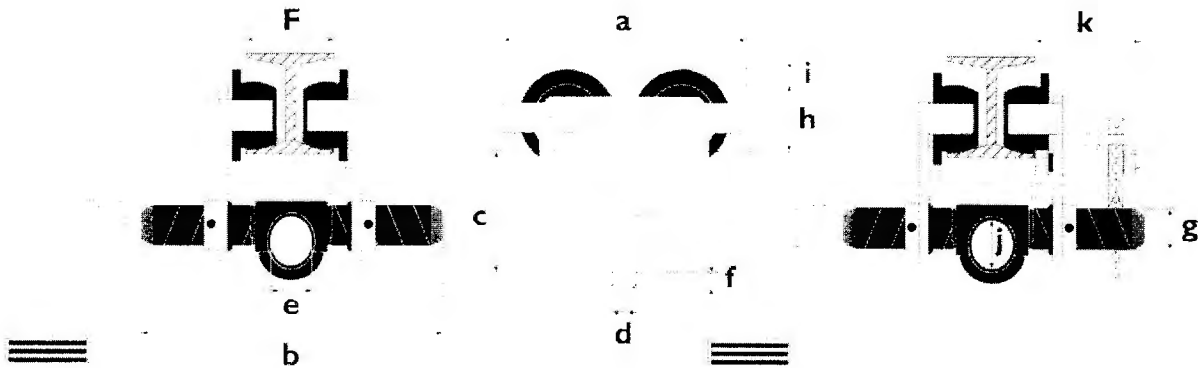
The Corso® range of travelling trolleys has been designed to suspend a variety of lifting equipment. The Corso® beam trolley is your essential complement to the Tralift® and Bravo® range of products.

Corso® 0.5 to 5 t

- Adjustable to a wide variety of beams
- Designed to minimize overhead loss
- Built-in anti-drop bars
- Wheels with ball bearings for ease of use and smooth operation
- Oval anchor point for easy attachment of lifting gear
- Anti-tilt system welded to the side plates



Threaded hanger bar adjustment model



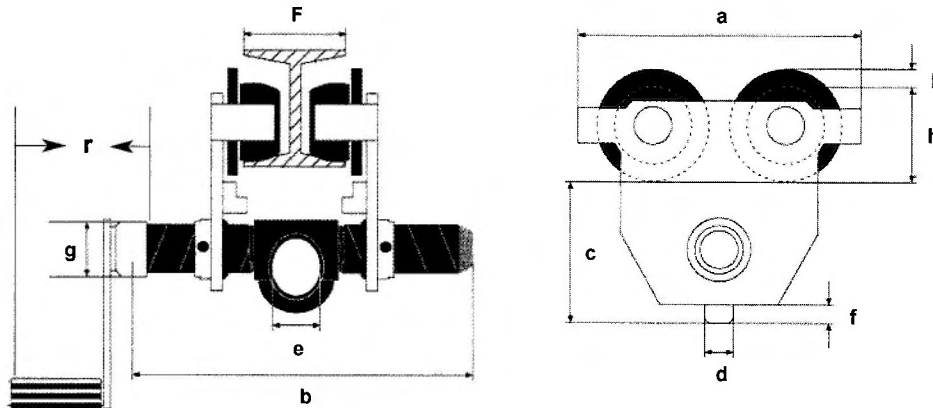
Code	Beam width		Radius of curve	Effort on chains at capacity	Lift Height	Dimensions													Weight	
	F (standard)	F (special order)				ft	lbs	in	a	b	d	e	f	g	h	i	j	k	push	geared
	in	in		kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg
0.5 t	23309	2 - 8.7	8.7 - 11.8	3	-	4.1	8.9	12.8	0.6	1	0.6	1.1	2.1	0.4	1.2	-	-	18.7	-	
	-	50 - 220	220 - 300	0.9	-	104	225	324	16	25	16	27	53	11	30	-	-	8.5	-	
1 t	23319	2.3 - 8.7	8.7 - 11.8	3.3	12	4.8	9.9	13.2	0.7	1.2	0.7	1.2	2.4	0.6	1.4	3.9	22	42		
	23339	58 - 220	220 - 300	1	5.5	120	252	334	17	30	17	30	62	15	35	100	10	19		
2 t	23329	3 - 8.7	8.7 - 11.8	3.9	22	5.7	11.8	13.5	0.8	1.6	0.7	1.5	3.2	0.7	1.8	4.7	40	50		
	23349	66 - 220	220 - 300	1.2	10	145	300	342	21	40	18	38	80	18	45	120	18	22.5		
3 t	23379	2.9 - 8.7	8.7 - 11.8	4.2	16.5	7.6	14.2	14.1	0.8	1.9	0.7	1.8	3.8	0.6	2.2	5.3	71	83		
	23359	74 - 220	220 - 300	1.3	7.5	195	360	358	21	48	18	45	97	15	55	135	32	37.5		
5 t	23389	3.5 - 8.7	8.7 - 11.8	4.6	26.5	8.4	15.8	14.7	1.2	2.3	0.8	2.1	4.3	0.8	2.6	5.7	107	121		
	23369	90 - 220	220 - 300	1.4	12	212	400	372	31	58	20	52	110	20	65	145	48.5	55		

Geared models only.

Standard cross bar up to 8.7 in (220 mm) beam width.

Features

- Minimal loss of headroom with a new designed suspension bar
- Adjustment possibilities to fit a wide range of beams
- Supplied standard with a removable handle for easy and quick adjustment
- Threaded bar with suspension eye for easy adjustment on flange
- Wheels with ball bearings for ease of use and smooth operation
- Anti-drop bars
- Anti-tilt system welded onto side plate
- Set screws for securing suspension bar
- End stops prevent wheel damage
- Large sturdy side plates
- 10 and 20 ton units also available

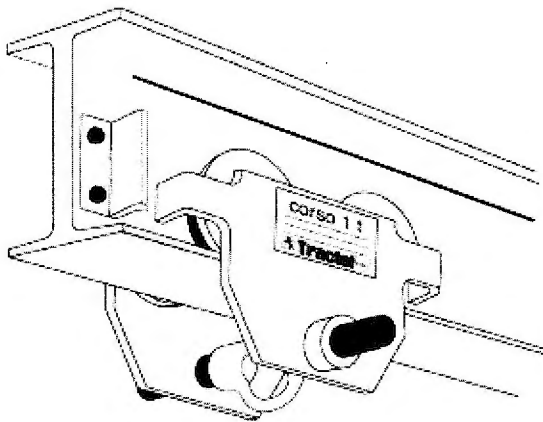


Load capacity	t	0.5	1	2	3	5
Dimensions						
a	in. (mm)	8.86 (225)	9.92 (252)	11.81 (300)	14.17 (360)	15.75 (400)
b	in. (mm)	12.76 (324)	13.15 (334)	13.46 (342)	14.09 (358)	14.65 (372)
c	in. (mm)	3.46 (88)	4.06 (103)	5.00 (103)	6.97 (177)	7.56 (192)
d	in. (mm)	0.63 (16)	0.67 (17)	0.83 (21)	0.83 (21)	1.22 (31)
e	in. (mm)	0.98 (25)	1.18 (30)	1.57 (40)	1.89 (48)	3.28 (58)
f	in. (mm)	0.63 (16)	0.67 (17)	0.83 (21)	0.83 (21)	1.22 (31)
g	in. (mm)	1.06 (27)	1.18 (30)	1.50 (38)	1.77 (45)	2.05 (52)
h	in. (mm)	2.09 (53)	2.44 (62)	3.15 (80)	3.82 (97)	4.33 (110)
i	in. (mm)	0.43 (11)	0.59 (15)	0.71 (18)	0.59 (15)	0.79 (20)
r	in. (mm)	4.33 (110)	4.33 (110)	4.33 (110)	4.33 (110)	4.33 (110)
F	in.	1.97 – 8.66	2.28 – 8.66	3.00 – 8.66	2.91 – 8.66	3.5 – 8.66
	(mm)	(50 – 220)	(58 – 220)	(66 – 220)	(74 – 220)	(90 – 220)
F optional	in.	8.66 - 11.81	8.66 - 11.81	8.66 - 11.81	8.66 - 11.81	8.66 - 11.81
	(mm)	(220 - 300)	(220 - 300)	(220 - 300)	(220 - 300)	(220 - 300)
Mini. curve radius	in. (mm)	35.4 (900)	39.37 (1000)	47.24 (1,200)	51.18 (1,300)	55.12 (1,400)
Weight – Push trolley	lbs./kg	18.7 (8.5)	23.2 (10.5)	39.7 (18)	70.5 (32)	106.9 (48.5)



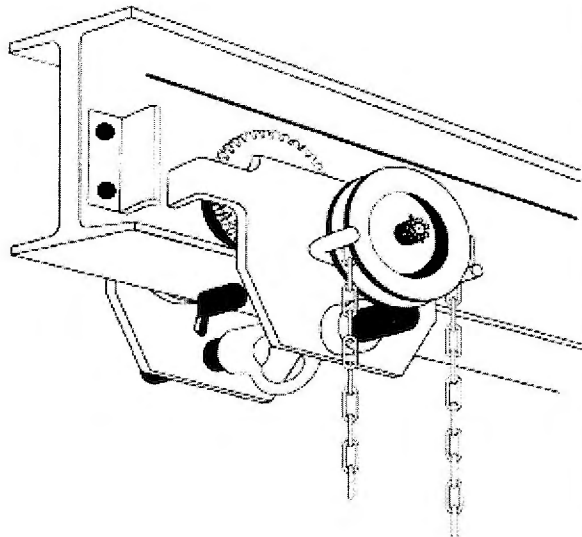
corso[®]

overhead traveling trolleys



Push Trolleys:

0.5 ton
1 ton
2 ton
3 ton
5 ton
10 ton



Geared trolleys with chain-operated travel:

1 ton
2 ton
3 ton
5 ton
10 ton
20 ton



equipment in
accordance with
CE directives

**operating
and
maintenance
instructions**



Griphoist Division

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With a focus on continuing improvement of the quality of its products, Tractel Inc., reserves the right to modify the specifications of the equipment described in this manual.

The companies of Tractel Inc. and their agents or distributors will supply on request descriptive documentation on the full range of Tractel products: lifting and pulling machines, permanent and temporary access equipment, safety devices, electronic load indicators, accessories such as pulley blocks, hooks, slings, ground anchors, etc.

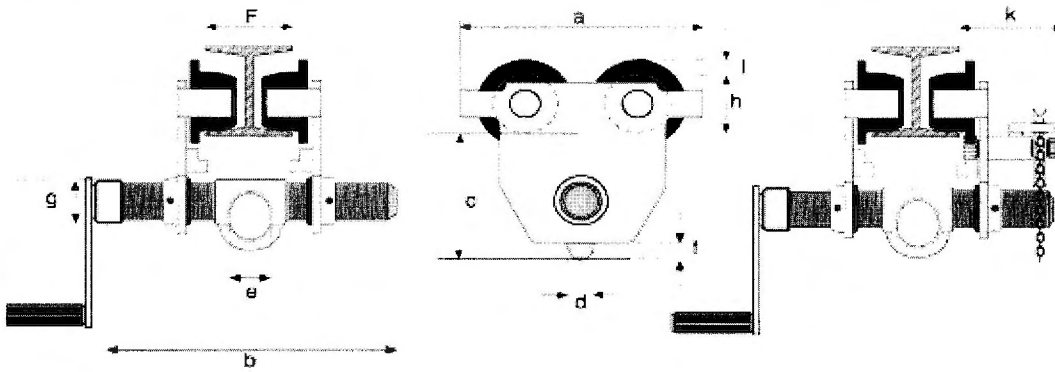


⚠ GENERAL WARNINGS ⚠

1. **Before using the trolley**, it is essential for the safe and correct operation of the equipment **that this manual be read and fully understood** and that all the instructions be followed. **This manual should be made available to every user.** Extra copies of this manual will be supplied on request.
2. Ensure that this CORSO trolley is only handed over for use or rigging to an operator who is trained to use it in a responsible manner.
3. Never use a trolley which is not in good, working condition. Continuous monitoring of the condition of the trolley is an important safety consideration.
4. The manufacturer is not responsible for the consequences of dismantling or altering the trolley by any unauthorized person. Specifically excluded is the replacement of original parts by parts of another manufacturer.
5. Never apply or attempt to apply to the trolley a load or effort greater than the rated load capacity of the trolley and of its anchoring point and support.
6. CORSO trolley must not be used in explosive atmospheres.
7. The installation of a CORSO trolley on an overhead metal beam requires a strength calculation to be carried out by a qualified person.
8. A CORSO trolley must be fitted exclusively on metal I beams of standard design of the proper strength. Exclude any ornamental I beams.
9. The strength of the I beam requires that evaluation of the beam's strength and all its support be carried out by a qualified person. This person must ensure that the supporting structure is in compliance with all applicable safety regulations.
10. The CORSO trolley must not be put into service before proper end stops are fastened to the I beam at each end to prevent rolling off the end of a beam during use.
11. Always check that the load capacity on the nameplate which is affixed on the trolley remains fully legible. In case it is obscured, damaged or missing it must be replaced by a new one before any further use. Labels are available from Tractel Inc. on request.

Technical Data

Please refer to the figures below to determine the dimensions of the corso Push and Geared Trolleys.



Load capacity t		0.5	1	2	3	5	10	20*
Dimensions								
a	Inch (mm)	8.86 (225)	9.92 (252)	11.81 (300)	14.17 (360)	15.75 (400)	18.5 (470)	39 (995)
b	Inch (mm)	12.76 (324)	13.15 (334)	13.46 (342)	14.09 (358)	14.65 (372)	16 (405)	16 (405)
c	Inch (mm)	3.46 (88)	4.06 (103)	5.00 (127)	6.97 (177)	7.56 (192)	12.8 (326)	12.8 (326)
d	Inch (mm)	0.63 (16)	0.67 (17)	0.83 (21)	0.83 (21)	1.22 (31)	1 (25)	1.4 (36)
e	Inch (mm)	0.98 (25)	1.18 (30)	1.57 (40)	1.89 (48)	2.28 (58)	3.1 (80)	4.3 (110)
f	Inch (mm)	0.63 (16)	0.67 (17)	0.71 (18)	0.71 (18)	0.91 (23)		
g	Inch (mm)	1.06 (27)	1.18 (30)	1.50 (38)	1.77 (45)	2.05 (52)		
h	Inch (mm)	2.09 (53)	2.44 (62)	3.15 (80)	3.82 (97)	4.33 (110)	5.9 (150)	5.9 (150)
i	Inch (mm)	0.43 (11)	0.59 (15)	0.71 (18)	0.59 (15)	0.79 (20)	0.59 (15)	0.59 (15)
k	Inch (mm)		3.94 (100)	4.72 (120)	5.31 (135)	5.71 (145)	6.7 (170)	6.7 (170)
r	Inch (mm)	4.33 (110)	4.33 (110)	4.33 (110)	4.33 (110)	4.33 (110)		
F std	Inch	97 8.66	2.28 - 8.66	3 - 8.66	2.91 - 8.66	3.5 - 8.66	4.9 - 8	5.35 - 8
	(mm)	(50 - 220)	(58 - 220)	(66 - 220)	(74 - 220)	(90 - 220)	(125 - 203)	(136 - 203)
F Optional	Inch	8.66 - 11.81	8 - 11.81	8.66 - 11.81	8.66 - 11.81	8.66 - 11.81		
	(mm)	(220 - 300)	(220 - 300)	(220 - 300)	(220 - 300)	(220 - 300)		
Mini R. of curve	Inch	35.4 (900)	39.37 (1000)	47.24 (1200)	51.18 (1300)	55.12 (1400)	98 (2500)	197 (5000)
Weight								
	lbs (kg)							
-Push trolley		18.7 (8.5)	23.2 (10.5)	39.7 (18)	70.5 (32)	106.9 (48.5)	220(100)	
-Geared trolley			41.9 (19)	49.6 (22.5)	82.7 (37.5)	121.2 (55)	220(100)	463(210)

1 Description of Equipment

1) Operating principle

The push-operated and chain-operated CORSO traversing trolley is a support device. It is designed for suspending a hoist or winch and moving it along an I or H traversing beam fixed in horizontal position. The trolley is traversed using four running wheels mounted on ball bearings.

2) Main subassemblies (see figures 1 and 2)

1. Trolley side plates
2. Threaded bar for fixing the side plates and gap adjustment
3. Securing screw for preventing the bar from moving (not shown).
4. Anchor point for hoist
5. End stops acting as antiderailing devices (provided by others)
6. Running wheels
7. Operating wheel
8. Operating chain
9. Anti-tilt system welded onto side plate

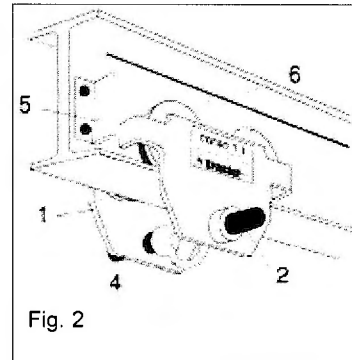
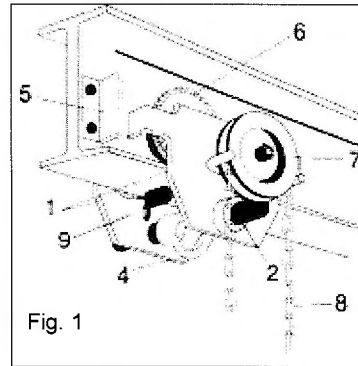
3) Name plate

The load applied to the CORSO trolleys should not exceed load capacity shown on the name plate. The lifetime of the CORSO trolley will depend on its regular maintenance in accordance with the directions and recommendations given in these instructions.

4) Safety devices

Corso trolleys are fitted with the following:

- Two securing screws to prevent relative motion between the side plates and the threaded suspension and adjustment bar
- Four formed sheet steel end stops acting as anti-derailing devices
- Anti-tilt devices welded on the internal surface of the side plates (geared trolley)
- Four running wheels mounted on ball bearings



NAMEPLATE



2 - COMPLIANCE WITH SAFETY STANDARDS AND RESTRICTIONS

It is essential that you conform with all national, state, local, and provincial regulations that apply to the use of this equipment.

Please do not hesitate to contact us for equipment for lifting personnel and for any special applications.



WARNINGS AGAINST HAZARDOUS



For operation of CORSO trolleys in accordance with the instructions it is useful to draw the attention of users to the following warnings:

- Do not mount the CORSO trolley on sloping beams which are not fitted with a rack rail
- Never attempt to modify the CORSO trolley, and in particular do not add a motor mechanism without the prior written consent of the manufacturer
- Never mount the CORSO trolley on an unsuitable support as this may damage the components of the trolley and potentially cause personal injury
- Never lift or attempt to lift a load heavier than the load capacity indicated on the trolley nameplate. (It should be noted that accidental impacts to the suspended load or the suspended load bumping against fixed structures in the working area may cause overloads)
- Never alter the components while the CORSO trolley is in operation.
- Never intentionally cause the load to swing.
- Never use the CORSO trolley under operating conditions or in an environment which does not comply with its specification.
- Never move or remove the end stops fitted at the end of the beam while the trolley is in use.
- Never use the CORSO trolley as a ground when welding
- Never suspend loads from the hand chain of a geared trolley.
- Never remove the safety devices from the CORSO trolley or use the trolley without these devices.

- Never fix the CORSO trolley on the beam by any means other than those described in these instructions.
- Never suspend loads from the CORSO trolley other than by the anchor point provided.
- Never walk or stand under a suspended load or cause the load to pass overpersons.
- Never move a CORSO push trolley other than by pushing or pulling on the load.
- Never move a CORSO chain-operated trolley other than by using the hand chain provided.

IT IS EXTREMELY DANGEROUS AND CONTRARY TO ALL PRACTICES, DIRECTIVES AND REGULATIONS TO INTENTIONALLY OVERLOAD A LIFTING DEVICE. THE MANUFACTURER CANNOT BE HELD RESPONSIBLE IN THE EVENT OF ANY DAMAGE OR INJURY.

3 - IMPORTANT INSTRUCTIONS

Check regularly that the CORSO trolley is in good working order, in particular the running wheels. Never use a device which is not in apparent good working order. Check that the traversing beam on which the CORSO trolley is travelling is compatible with the intended load. Before moving or performing any operation with the CORSO trolley check that it is correctly positioned on the traversing beam. When moving a load, check that it is not likely to collide with any obstacles in the surrounding area.

Before moving the CORSO trolley, it must be perpendicular to the load and the load must be correctly balanced. CORSO trolleys used outside must be adequately protected against adverse weather conditions. If the device behaves abnormally or makes any suspicious noises when it is moved along the beam, the user must stop it immediately and inform a competent person. Any use or application of the CORSO trolley which does not comply with these instructions is not recommended or warranted by TRACTEL, and is the entire responsibility of the user or the rigger.



TRACTEL accepts no responsibility for the consequences of dismantling of the CORSO trolley or any modification of the specification of the device by an organization or a person not approved by TRACTEL, in particular in the case of the replacement of original parts by components not approved by the TRACTEL INC. or its authorized repairers.

4 - GENERAL INSTRUCTIONS

1) Receipt of the equipment

CORSO travelling trolleys are supplied in cardboard packaging with internal packing. When the equipment is received, carry out a visual inspection to check that the packaging is in good condition. If there is any problem, express the usual reservations to the carrier. After unpacking, check that the trolley corresponds to your order and that the delivery includes :

- a) For CORSO push trolleys except 10 ton.
 - Two identical side plates, each fitted with two running wheels
 - One bar (with dual reverse thread) for fixing the side plates and adjusting the spacing
 - One handle for adjusting the distance between the side plates of the trolley
 - Two securing screws on the fixing bar
 - Four copper discs
 - These operating and maintenance instructions
- b) For chain-operated trolleys up to 5 tons
 - One side plate fitted with two supporting wheels
 - One side plate fitted with two driving wheels, a driving pinion, an operating wheel and a hand chain
 - One bar with dual reverse thread for fixing the side plates adjusting the spacing
 - One handle for adjusting the distance between the side plates of the trolley
 - Two securing screws on the fixing bar
 - Four copper discs
 - These operating and maintenance instructions
- c) For 10 ton geared trolley
 - one side plate fitted with two supporting wheels
 - one side plate fitted with two driving wheels, a driving pinion, an operating wheel and a hand chain
 - One hanger bar with spacer washers for fixing the side plates and adjusting the spacing
 - Two nuts and cotter pins for securing the hanger bar.
 - These operating and maintenance instructions
- d) For 20 ton geared trolley
 - 20 ton is essentially 2 x 10 ton(see item c) with a hanger bar that links the two trolleys

2) Installation

2.1 Assembling and anchoring the device

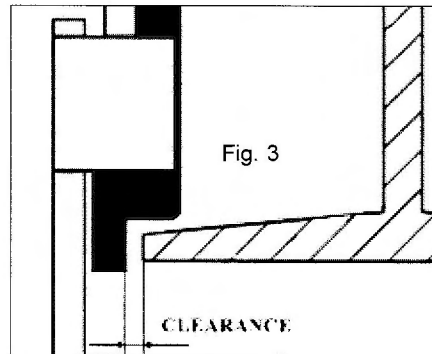
IMPORTANT :
Before a CORSO trolley is mounted on a traversing beam, the strength of the materials used in the beam must be calculated by a qualified person.

If the CORSO trolley is to be fitted in a location which is dangerous for the operator, the safety precautions laid down in the labor regulations must be implemented to remove all risks not covered in this operation.

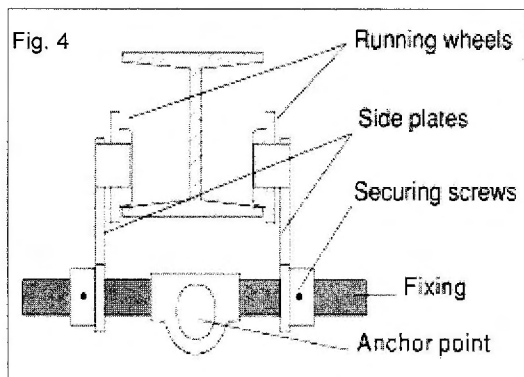
CORSO trolleys (up to 2 t) are supplied in kit form as standard. Before they are mounted on the traversing beam the subassemblies must be put together as follows : (see fig. 4)

- Thread the fixing bar into both side plates so that the bar threads evenly into both plates.
- Continue to rotate the fixing bar to insert it on both sides into the thread provided in the side plates.
- When the threaded fixing bar has been screwed far enough through the side plates, attach the adjustment handle at the end of the fixing bar (on the side with the double drill hole).
- Turn the handle until the distance and clearance between the running wheels is adjusted to match the width of the traversing beam. The anchor point should be centered under the web of the beam.

CAUTION :
 The clearance between the flange of the running wheel and the edge of the lower flange of the traversing beam must not exceed 1/8 in. (4 mm) for load capacities of up to 2 t, and 3/16 in. (5 mm) for heavier loads. (See figure 3).



- When the adjustment has been correctly made, the oval part of the anchor point must be turned to point downward so that it can subsequently take the suspension hook of the hoist. (See F.4) Position the copper washer in each hole to protect the thread and tighten the two securing screws on the fixing bar (see Figure 4).
- Remove the adjustment handle.



Procedure for mounting the trolley on the traversing beam

When the CORSO trolley has been assembled as described above, it can then be fitted onto either end of the traversing beam.

Do not forget in this case to attach or replace the end stop on the traversing beam after fitting the trolley. If the configuration of the traversing beam does not allow the trolley to be fitted at the end, the following procedure must be used :

- Hold the pre-assembled trolley assembly beneath the beam, keeping a wide enough gap between the running wheels to enable the trolley to be positioned on the beam
- Place two running wheels on one of the side plates in contact with the lower flange of the traversing beam
- Place the two wheels on the opposite side plate in contact with the traversing beam and turn the adjustment handle to bring the two side plates closer together and bring the four running wheels to rest on the lower flange of the beam
- Adjust the clearance between the wheels as previously indicated
- Tighten the securing screws on the fixing rod to prevent the assembly from moving
- Remove the adjustment handle

For a chain-operated CORSO trolley :

- Check that the hand chain is correctly positioned on the operating wheel (welding on the links facing outward in relation to the axis of the operating wheel)
- Check that the operating chain is not twisted

After positioning the CORSO trolley on the beam, it is essential to check, WITH NO LOAD on the trolley, that it moves smoothly and freely along the whole length of the beam.

2.2 Anchoring the load

The hoist, winch or any other load suitable for use with the CORSO trolley, must be fixed to the trolley using the anchor point provided. Loads must not, under any circumstances, be attached to any other part of the trolley.

2.3 Preliminary checks

- a) When initially securing the trolley to the beam:
- Check that all the parts of the trolley are correctly assembled and tightened
 - Affix a notice on the I-beam advising that the rated capacity of the trolley should not be exceeded.
 - Check that the trolley moves smoothly and freely along the whole length of the traversing beam
 - Check that the load capacity of the trolley is greater than or equal to the maximum load expected during operation
 - Check that the cross-section of the traversing beam used is sufficient to safely take a force equal to the rated working load with safety factor as determined by regulation.
 - Check that the operating chain is correctly mounted and not twisted (on geared trolley).

2.4 Control of movements

CORSO trolleys are moved along the traversing beam on the four running wheels which are mounted on ball bearings. Push-operated CORSO trolleys are traversed by carefully pushing the load (which must have been lifted off the ground). The load should be moved smoothly without any sudden movements. Chain-operated CORSO trolleys are traversed using the hand chain provided. Traversing should be carried out smoothly and without any sudden movements, with the load lifted off the floor or ground with the load freely suspended.

Never drag a load suspended from a trolley along the ground

The following precautions should be taken when performing the various movements of the trolley :

- Check that the load is off the ground
- Never allow the load to swing
- When moving a chain-operated trolley, check that the hand chain cannot get caught in a fixed obstacle
- Avoid the CORSO trolley systematically hitting the end stops fitted on the traversing beam
- Check that any curved radius of the beam is compatible with the specification of the trolley used

5 - MAINTENANCE AND INSPECTION

Servicing of the CORSO trolley consists of monitoring that it is in good condition, cleaning it and having it inspected periodically (at least once a year) by a repairer approved by TRACTEL.

Any damage to the CORSO trolley, in particular on the running wheels and the side plates, must be repaired by an approved engineer before it is used again.

6 - TROUBLESHOOTING

If the trolley does not move smoothly and freely along the traversing beam :

- Check that there is no obstacle on the traversing beam.
- Check that the running wheels run smoothly and correctly.
- Check that the running wheel pins are not damaged.
- Check that the clearance of the trolley is correctly adjusted in relation to the width of the traversing beam.
- Check that the curved radius of the traversing beam is not smaller than the technical capacities of the trolley used.

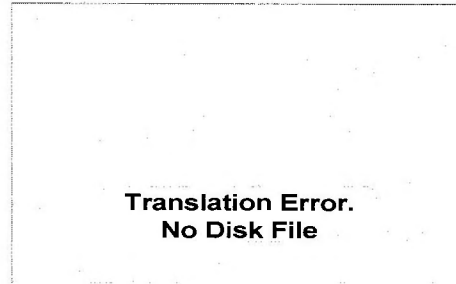
7 - HEALTH AND SAFETY AT WORK

It is the responsibility of every company to ensure that its employees have been fully and properly trained in the safe operation of the equipment.

Before using the equipment, check that all the safety devices are in place and operate correctly (section 5-5.) CORSO trolleys must have an initial inspection on first installation and subsequent periodic inspections. Check local regulations and requirements.

- Check that any curve of the I-beam is not distorted or twisted at any point.
- Check the good surface condition of the lower flange of the beam.

It is recommended that a highly visible label be attached to the beam specifying that the load capacity of the trolley must not exceed the recommended limit.



NAMEPLATE

8- SERVICING AND LUBRICATION

It is also essential to regularly check the condition of the traversing beam and if necessary clean it to prevent the accumulation of grease or dust which could prevent the trolley from moving correctly.

Checks	Frequency	Person
Checks general condition of trolley	Daily	Operator
Visual Inspection of side plates (dracks, distortion)	Quarterly	Operator
Visual check of running wheels for wear and condition of hand chain	Every 6 Months	Operator
Check condition of traversing beam	Every 6 Months	Operator
General inspection of parts of the trolley for wear	Annually	Svc. Ctr.

9 - WARRANTY

The CORSO has a 1 year warranty from the date of delivery from TRACTEL INC.

TRACTEL will correct, free of charge, any design, manufacturing or material defect recognized by TRACTEL after examination by our technical department, either by repair or replacement (at Tractel's discretion) of the product acknowledged as being defective.

NO AUTOMATIC RETURN IS PERMITTED.

The warranty does not cover damage resulting from incorrect use, inadequate maintenance or handling accidents. It does not cover normal wear and tear, aging, or the effects of oxidation. It does not apply to the paint or surface coatings.

The warranty only applies to original TRACTEL parts and excludes all other components. Damage to threaded parts is not covered by Corso warranty.

Repairs under warranty are automatically performed in the workshops of the manufacturer or its approved representative. This warranty commitment only applies to the cost of the parts replaced and the labor used. Any traveling or accommodation expenses incurred by TRACTEL personnel or those of TRACTEL's approved representative at the user's site, and the costs of transporting the item to and from the manufacturer's factory or that of its representative, remain the responsibility of the holder of the warranty.

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CORSO PUSH TROLLEYS

Pos.	Description	Qty	0.5t	1.0t	2.0t	3.0t	5.0t
1	Name plate	1	14402	14412	14422	14432	14442
2	Rivets for name plate	4	906	906	906	906	906
3	Set screws M10x12	2	3496	3496	3496	3496	3496
4	Copper disc	2	3406	3406	3406	3406	3406
5	Hanger bar	1	14452	14462	14472	14482	14492
5.1	Extended hanger bar 300mm.	1	14652	14662	14672	14682	14692
6	Right side plate assy	1	14502	14512	14522	14532	14542
7	Left side plate assy	1	14552	14562	14572	14582	14592
8	Handle	1	14602	14612	14622	14632	14642
9	Wheel assy	4	14702	14712	14722	14732	14742

