

# W-Series

Fork Positioner/ Sideshifter

Original Instructions

Number 6556755-R3 EN



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# ONTENTS

	Page
INTRODUCTION	•
Special Definitions	1
OPERATION	
Safety Rules	2
Industrial Lift Trucks	2
Handling Loads	3 3
Sideshifter Operation	3
Residual Hazards - Integral Sideshift	4
Safe Operation and Maintenance	5
TRUCK REQUIREMENTS	6
INSTALLATION	7
PERIODIC MAINTENANCE	14
DECALS	15
RECOMMENDED SPARE PARTS	16
ICON NAMEPLATE LEGEND	17-18
PUBLICATION	Last Page

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**Weighted Emission Sound Pressure Level -** Weighted emission sound pressure level does not exceed 70 dB(A).

The equipment described in this manual has been built in according with Machinery Directives 2006/42/CE

- Do not dispose the device along with household waste.
- Dispose the device according to the applicable regulations in your country.

**CAUTION:** This Guide shows load-handling procedures for most products. Ask your company or organization about any special procedures for the loads you may be handling.

# 1

### NTRODUCTION

## **Special Definitions**

The statements shown appear throughout this Manual where special emphasis is required. Read all WARNINGS and CAUTIONS before proceeding with any work. Statements labeled IMPORTANT and NOTE are provided as additional information of special significance or to make the job easier.



**WARNING** – A statement preceded by WARNING is information that should be acted upon to prevent **bodily injury**. A WARNING is always inside a ruled box.

**CAUTION** – A statement preceded by CAUTION is information that should be acted upon to prevent machine damage.

**IMPORTANT** – A statement preceded by IMPORTANT is information that possesses special significance.

**NOTE** – A statement preceded by NOTE is information that is handy to know and may make the job easier.



**WARNING:** Rated capacity of the truck/ attachment combination is a responsibility of the original truck manufacturer and may be less than shown on the attachment nameplate. Consult the truck nameplate.

**WARNING:** Do not operate this attachment unless you are a trained and authorized lift truck driver.

This information is intended to simplify operator understanding about effective and safe Fork Positioner/Sideshifter use and operation. Read this information thoroughly before operating the attachment.

Be sure you know and understand all operating procedures and safety precautions. If you have any questions, or don't understand a procedure, ask your supervisor or contact your nearest Cascade Service Department for assistance (see back cover).

**IMPORTANT:** Field alterations may impair performance or capability and could result in loss of warranty. Consult Cascade for any required modifications.

1 6556755-R3 (EN)

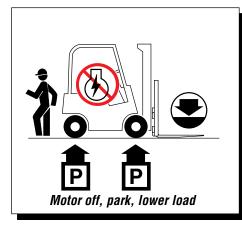
## PERATION

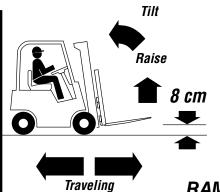
### Safety Rules - Industrial Lift Trucks



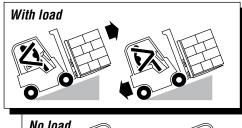








empty







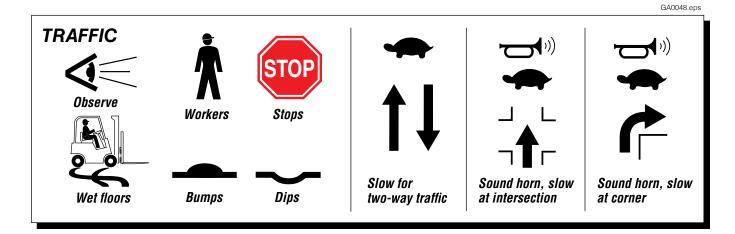




No parking on ramp

No turning on ramp

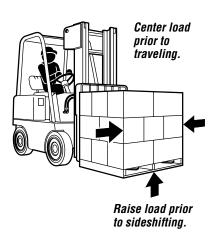
Watch clearances





### Safety Rules – Handling Loads

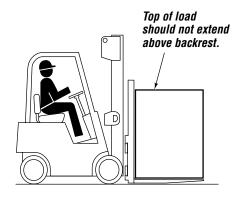


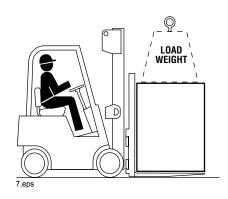




Load weight must not exceed combined truck/ attachment capacity (see truck nameplate).

Total fork capacity (LH + RH fork) must be greater than load weight. Check capacity stamp on forks.





#### This Fork Positioner must not be used in the following applications:

- With a load clamped between the fork.
- With a single fork mounted.

  Laterally moving loads using the opening/closing function.
- Moving unstable load.
- Moving load on a single fork.
- Dragging or pushing objects or loads resting on the ground.
- Laterally moving objects or loads resting on the ground.
- Repeatedly operating the control lever when the load or forks meet a lateral surface or stop.
- Operating when people or animals are inside the working area of the attachment.

# R ESIDUAL HAZARDS Safety Rules

The equipment in your possession has been designed in order to prevent the risk during the movimentation,

- Hazard of crushing between the truck's front structure and the lifting set when completely tilted backwards.
- Hazard of shearing between the truck's front structure and the parts that move vertically with the lifting set completely tilted backwards.
- Hazard of shearing between the fixed frame and the forks / forks adapters while moving.
- Hazard of shearing between forks / forks adapter at the minimum opening range
- Hazard of shearing between forks / forks adapter and the frame at the maximum opening range
- Hazard of shearing between the upper frame and the forks / forks adapter

installation and use operations. There are, however, some residual hazards:

- Hazard of crushing/shearing between the chains and the relative pulleys and the transversal connections of the mast.
- Hazard of crushing during fork carrier disassembly and replacement phases.
- Hazard of crushing during cylinder disassembly and replacement phases.
- Hazard of crushing during installation and maintenance operations.



### NTEGRAL SIDESHIFT

Sideshifting of the load is achieved hydraulically through simultaneous movement of the clamp cylinders in the same direction .

The available sideshift movement depends on the clamp opening range and the width of the load handled.

To calculate the total available sideshift apply calculation below :

1

#### **Determine measurements**

A= Maximum clamp opening
B= Minimum clamp opening
C= Load width

2

Apply these two calculations:

A - C = C - B =

The smallest result of the two calculations is the total available sideshift.

#### Attention, shifted center of gravity can affect truck's stability.

Contact truck's manufacturer to check compatibility of sideshifting with lateral stability and rated capacity.

Truck/attachment combination is a responsibility of the original truck manufacturer and may be less than what is shown on the attachment nameplate.



### AFE OPERATION AND MAINTENANCE

#### Industrial Trucks and Attachments



**WARNING:** When operating and maintaining industrial trucks equipped with attachments, you should pay particular attention to the following information. You should be familiar with this information for truck and attachment operation.

Ask your employer for complete operation information.

#### **General Requirement**

Modifications and additions which affect capacity and safe operation shall not be performed by the customer or user without manufacturers prior written approval. Capacity, operation and maintenance instruction plates, tags or decals shall be changed accordingly.

If the truck is equipped with front-end attachments other than factory installed attachments, the user shall request that the truck be marked to identify the attachments and show the appropriate weight of the truck and attachment combination at maximum elevation with load laterally centered.

The user shall see that all nameplates and markings are in place and maintained in a legible condition.

#### **Safety Guards**

If the type of load presents a hazard, the user shall equip fork trucks with a vertical load backrest extension in accordance with the following.

All new powered industrial trucks acquired and used by an employer after February 15, 1972 shall meet the design and construction requirements for powered industrial trucks established in the "American National Standard for Powered Industrial Trucks, Part II, ANSI B56.1", except for vehicles intended primarily for earth moving or over-the-road hauling.

#### **Operator Training**

Only trained and authorized operators shall be permitted to operate a powered industrial truck. Methods shall be devised to train operators in the safe operation of powered industrial trucks.

#### **Truck Operations**

Trucks shall not be driven up to anyone standing in front of a bench or other fixed object

No person shall be allowed to stand or pass under the elevated portion of any truck, whether loaded or empty.

Unauthorized personnel shall not be permitted to ride on powered industrial trucks. A safe place to ride shall be provided where riding of trucks is authorized.

The employer shall prohibit arms or legs from being placed between the uprights of the mast or outside the running lines of the truck.

When a powered industrial truck is left unattended, load engaging means shall be fully lowered, controls shall be neutralized, power shall be shut off and brakes set. Wheels shall be blocked if the truck is parked on an incline.

A powered industrial truck is unattended when the operator is 25 feet or more away from the vehicle which remains in his view, or whenever the operator leaves the vehicle and it is not in his view.

When the operator of an industrial truck is dismounted and within 25 feet of the truck still in his view, the load engaging means shall be fully lowered, controls neutralized and the brakes set to prevent movement

A safe distance shall be maintained from the edge of ramps or platforms while on any elevated dock or platform or freight car. Trucks shall not be used for opening or closing freight doors. A load backrest extension shall be used whenever necessary to minimize the possibility of the load or part of it from falling rearward.

#### **Traveling**

The driver shall be required to slow down and sound the horn at cross isles and other locations where vision is obstructed. If the load being carried obstructs forward view, the driver shall be required to travel with the load trailing.

When ascending or descending grades in excess of 10 percent, loaded trucks shall be driven with the load upgrade.

On all grades the load and load engaging means shall be tilted back if applicable, and raised only as far as necessary to clear the road surface.

#### Loading

Only stable or safely arranged loads shall be handled. Caution shall be exercised when handling off-center loads which cannot be centered.

Only loads within the rated capacity of the truck shall be handled.

The long or high (including multiple-tiered) loads which may affect capacity shall be adjusted.

Trucks equipped with attachments shall be operated as partially loaded trucks when not handling a load.

A load engaging means shall be placed under the load as far as possible; the mast shall be carefully tilted backward to stabilize the load

Extreme care shall be used when tilting the load forward or backward, particularly when high tiering. Tilting forward with load engaging means elevated shall be prohibited except to pick up a load. An elevated load shall not be tilted forward except when the load is in a deposit position over a rack or stack. When stacking or tiering, only enough backward tilt to stabilize the load shall be used.

#### Operation of the Truck

If at any time a powered industrial truck is found to be in need of repair, defective, or in any way unsafe, the truck shall be taken out of service until it has been restored to safe operating condition.

#### **Maintenance of Industrial Trucks**

Any power-operated industrial truck not in safe operating condition shall be removed from service. All repairs shall be made by authorized personnel.

All parts of any such industrial truck requiring replacement shall be replaced only by parts equivalent as to safety with those used in the original design.

Industrial trucks shall not be altered so that the relative positions of the various parts are different from what they were when originally received from the manufacturer, nor shall they be altered either by the addition of extra parts not provided by the manufacturer or by the elimination of any parts. Additional counter-weighting of fork trucks shall not be done unless approved by the truck manufacturer.

Industrial trucks shall be examined before being placed in service and shall not be placed in service if the examination shows any condition adversely affecting the safety of the vehicle. Such examinations shall be made at least daily. When industrial trucks are used on a round-the-clock basis, they shall be examined after each shift. Defects when found shall be immediately reported and corrected.

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### **RUCK REQUIREMENTS**

#### **Truck Relief Setting**

145 bar Recommended 180 bar Maximum

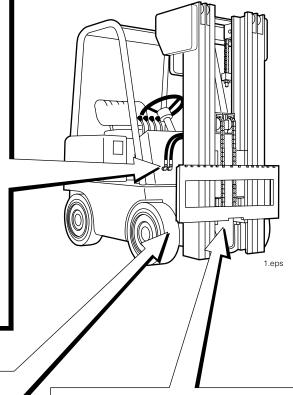
#### **Truck Flow Volume**

Model	Min.	Recommended	Max.
44W	(9 L/min.)	(9 L/min.)	(15 L/min.)
55W / 80W	(11 L/min.)	(11 L/min.)	(18 L/min.)
100W / 110W	(20 L/min.)	(30 L/min.)	(36 L/min.)
154W / 176W	(23 L/min.)	(45 L/min.)	(54 L/min.)

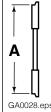
Cascade W-Series Fork Positioner/Sideshifters are compatible with SAE 10W petroleum base hydraulic fluid meeting Mil. Spec. MIL-0-5606 or MIL-0-2104B. Use of synthetic or aqueous base hydraulic fluid is not recommended. If fire resistant hydraulic fluid is required, special seals must be used. Contact Cascade.

Flow less than recommended will result in slow fork positioning speed.

Flow greater than maximum can result in excessive heating, reduced system performance and short hydraulic system life.



**Carriage** – Clean and inspect carriage bars. Make sure that bars are parallel and that ends are flush. Grind smooth any protruding welds that may affect Sideshifter lower bearings. Repair any damaged notches

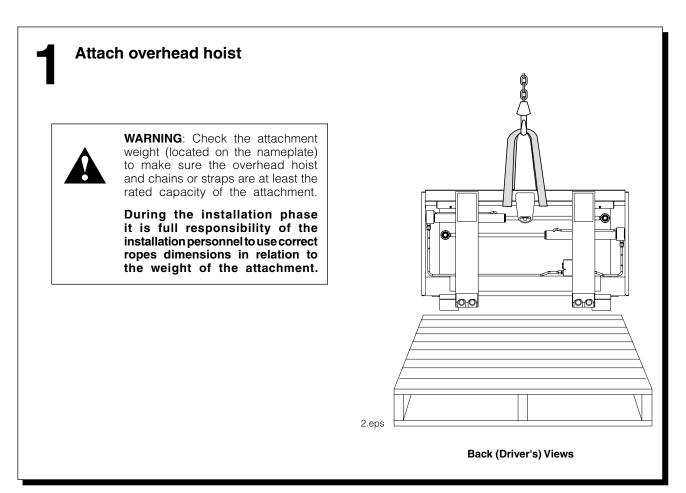


#### Carriage Mount Dimension (A) ITA (ISO)

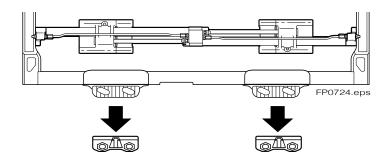
Minimum	Maximum
380.0 mm	381.0 mm
474.5 mm	476.0 mm
595.5 mm	597.0 mm
	380.0 mm 474.5 mm



#### **Hook- On Mounting**



## Remove bolt-on lower hooks

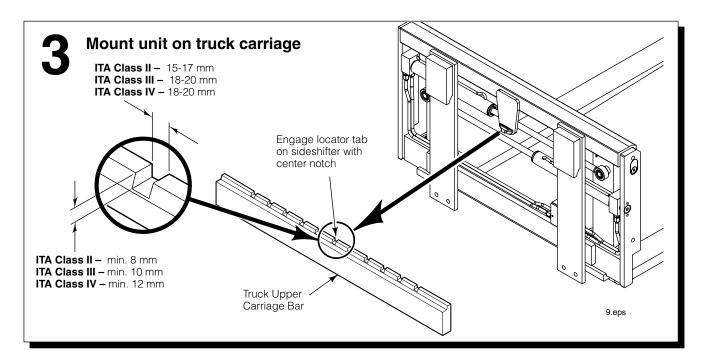


Two Capscrew Hooks

Back (Driver's) View

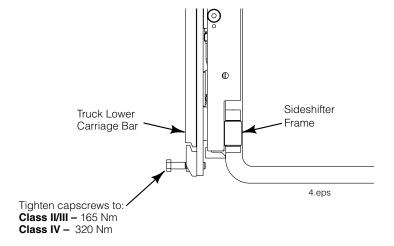


### Hook- On Mounting

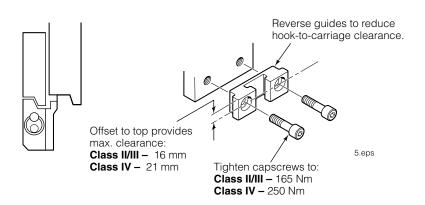


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#### Install bolt-on lower hooks



#### **Quick-Disconnect Hooks**

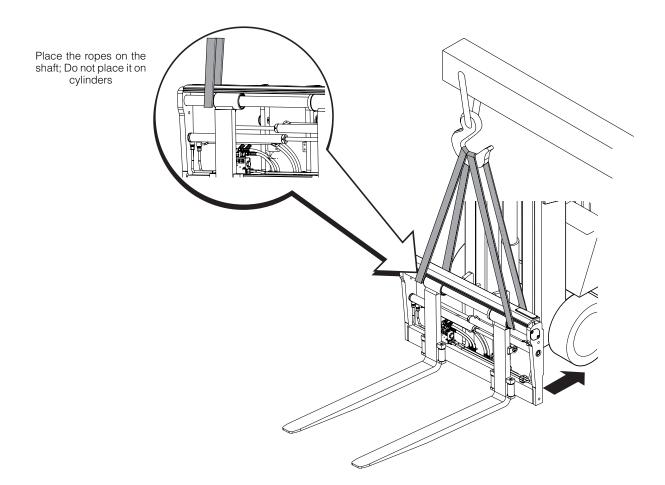


### **NSTALLATION**

### Integral Mounting

5

IMPORTANT: Integral attachment installation is an OEM or dealer responsibility. Some of the following steps may or may not be required, but are shown for reference. Refer to the appropriate service manual for service and repair procedures.





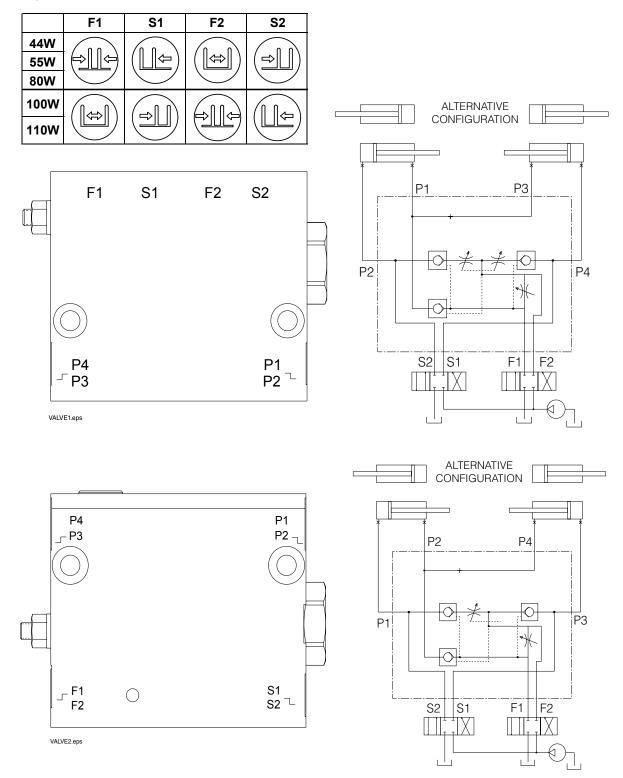
#### HYDRAULIC SCHEME FOR 44W-55W-80W-100W-110W

## **6** Hydraulic Connection

Refer to scheme below to connect truck hoses.

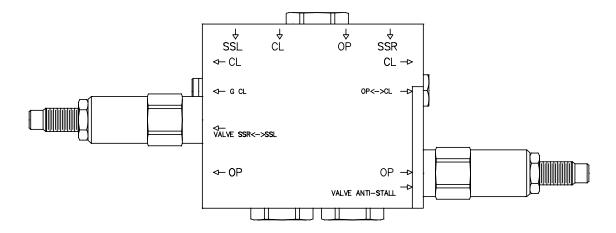
**IMPORTANT**: Before servicing any hydraulic component, relief pressure in the system. Turn the truck off and move the truck auxiliary control valves several times in both directions.

Below valves and hydraulic schemes for 44W - 55W - 80W, refer to alternative configuration for 100W - 110W.

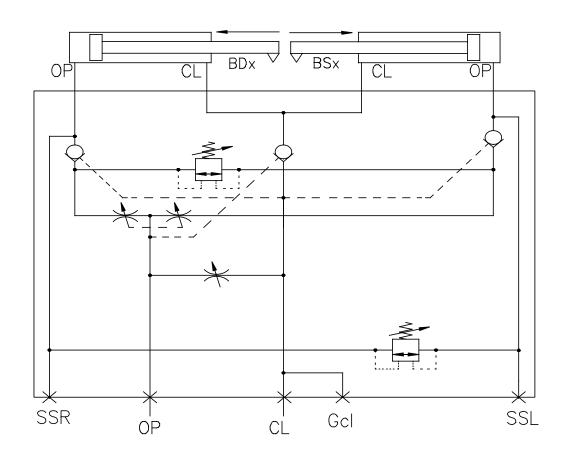


#### **HYDRAULIC SCHEME FOR 154W - 176W**

7



CLOSE CLOSE



VALVE3.eps

## NSTALLATION

#### FORKS INSTALLATION

8

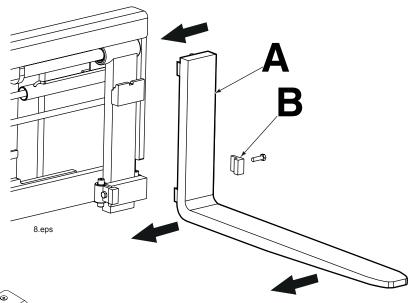
#### How to install forks on adapters

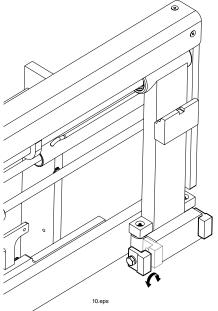
Before to proceed with the forks installation make sure the adapters are clean and unbroken.

- Remove capscrews and fork carrier inner/outer retainers (B).
- Slide the fork from the side (Keep feet clear of forks) and make sure the locking pin on the fork is engaged with center notch (A).
- Reinstall fork carrier retainers (B) using the appropriate screw. For information regarding torque force to apply, refer to table on page for periodic maintenance.



**WARNING:** WARNING: Rated capacity of the truck/attachment combination is a responsibility of the original truck manufacturer and may be less than shown on the attachment nameplate. Consult the truck nameplate.





Fork carrier retainers can be turned of  $180^{\circ}$  to fit different fork width.

The attachment cannot be used unless fork carrier retainers are properly locked.

### **NSTALLATION**



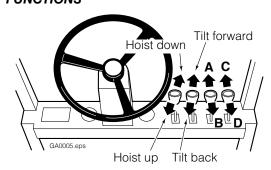
#### **Cycle Fork Positioner functions**

- Check for operation in accordance with ANSI (ISO) standards.
- Check for leaks at fittings, valve, cylinders.
- Check that rolling hoses supplying fork position are not pinched.



**WARNING**: Truck control handle and attachment function activation shown here conforms to ASME/ANSI B56.1 recommended practices. Failure to follow these practices may lead to serious bodily injury or property damage. End user, dealer and OEMs should review any deviation from the practices for safe operation.

### **AUXILIARY VALVE FUNCTIONS**



### SIDESHIFTING / FORK POSITIONING

- A Sideshift Left
- **B** Sideshift Right
- C Open Forks
- **D** Close Forks

### **D** ERIODIC MAINTENANCE

### **Daily**

Check items shown each day. Report problems to your supervisor.



**WARNING**: If the fork locking pin is not fully engaged, the fork could become disengaged from the carriage.

### 1000-Hour

Every time the lift truck is serviced or every 1000 hours of truck operation, complete the following maintenance procedures:

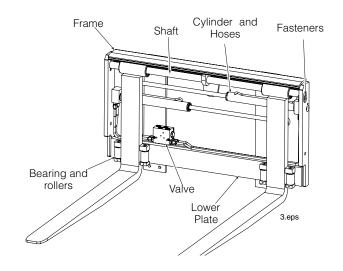
 Check for loose or missing bolts, worn or damaged parts, hydraulic leaks.

Refer to torque values table to tighten screws if needed.

- Apply general-purpose chassis grease to upper and lower bushing/rollers grease fittings.
- Inspect upper and lower bushing/rollers for wear.
   If any bearing is worn or damage, replace the entire bushing set.
- Inspect shaft for wear. In case of damage check the installation of upper bushings and missing grease.
- Inspect lower plate for wear. In case of excessive damage, call Cascade Service Dep.



**WARNING**: After completing any service procedure, always test the Integral Sideshifter through five complete cycles. First test with no load, then test with a load to make sure the sideshifter operates correctly before returning it to the job.



### 2000-Hour

After 2000 hours of truck operation, in addition to the 100, 300 and 1000-hour maintenance, forks in use shall be inspected at intervals of not more than 12 months (for single shift operations) or whenever any defect or permanent deformation is detected. Severe applications will require more frequent inspection.

Fork inspection shall be carried out by trained personnel to detect any damage that might impair safe use. Any fork that is defective shall be removed from service. Reference ANSI B56.1-2005.

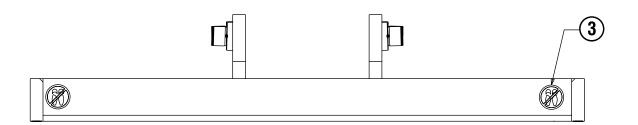
Inspect for the following defects:

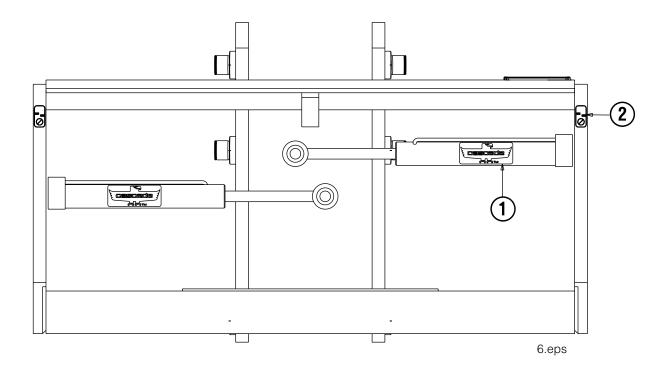
- Surface weldings cracks
- Straightness of blade and shank
- Fork angle
- Difference in height of fork tips
- Wear on fork blade and shank
- · Wear on fork hooks
- Replace the forks if thickness of the fork is less than 90% of the original thickness
- Replace the forks if deformation of the fork is more than 3% of its lenght
- Legibility of marking (nameplate and decals).

TORQUE VALUES FOR LUBED SCREWS				
DIAMETER	METER CLASS 8.8 CLASS 10.9		CLASS 12.9	
M 8 x 1,25	19,1 Nm	26,1 Nm	31,9 Nm	
M10 x 1,5	38 Nm	52 Nm	63 Nm	
M12 x 1,75	66 Nm	90 Nm	110 Nm	
M14 x 2	105 Nm	145 Nm	175 Nm	
M16 x 2	165 Nm	225 Nm	274 Nm	
M18 x 2,5	232 Nm	290 Nm	372 Nm	
M 20 x 2,5	320 Nm	435 Nm	534 Nm	
M 22 x 2,5	450 Nm	615 Nm	727 Nm	
M 24 x 3	555 Nm	755 Nm	924 Nm	
M 27 x 3	810 Nm	1100 Nm	1352 Nm	
M 30 x 3,5	1100 Nm	1500 Nm	1836 Nm	

# ECALS

These decals indicate the existence of a potential danger for health and personnel safety, substitute them in case they are removed , damaged or scratched.





DECALS		
PART N°	DESCRIPTION	
214983	DECAL WHITE CASCADE	
665595	DECAL - PINCH POINT	
679150	DECAL - NO STEP	



### **Recommended Spare Parts**

	FORK POSITIONER					
44W PART NO.	55W - 80W PART NO.	100W PART NO.	110W PART NO.	154W - 176W PART NO.	DESCRIPTION	QTY.
6011231	6011231	6011233	6011233	6523049	Bearing	2
6220372	6220372	6204312	6204312	6404533	Roller Assembly	2
					Cylinder Assembly	2
6528937	6555028	6-3-000-MC	6225742	6545327	Cylinder Service Kit	2

Refer to part number stamped on part or supply serial number stamped on sideshifter frame when purchasing these parts.

### CON NAMEPLATE LEGEND

(EN) NAMEPLATE ICONS EN NAMEPLATE ICONS
BO TABEJIKA C IMIE IKOHU
CS JMENOVKA IKONY
DA NAVNESKILT IKONER
DE TYPENSCHILD SYMBOLE
ED ONOMASTIKHS EIKONIΔIA
ES PLACA DE ICONOS
ET NIMEPLAADILE IKOONID
FI NIMIKYLTTI KUVAKKEET
RP PLAQUE ICÔNES GA) IDENTIFICACIÓN ICONAS MD NÉVTÁBLÁN IKONOK S NAFNASKILTATÁKN ID ICONE DELLA TARGA (A) 新板アイコン (の 명판 아이콘 (T) NOMINALUS PIKTOGRAMOS (W) AR NOSAUKUMU, IKONAS (M) NAMEPLATE ICOANE (ND) NAAMBORD ICONEN

NAVNEPLATE-IKONER NO NAVNEPLATE-IKONER
PD NAMEPLATE ICOANE
PD IDENTIFICAÇÃO ICONES
RO ICONOS DE PLACA
RD TABINIYMY 3HAYKOB
SM MENOVIKA ICONS
SJ TABILICA IKONE
SJ NAMNSKYLTEN IKONER
TB BILGI ETIKETI SIMGELERI
CD 铭牌图标





EN MODEL
BG MOJEJ
CS MODEL
DA MODEL
DE MODELL
EL MONTE/O

© MODELO
© MUDEL
© MALLI
© MODÈLE
© DÉANAMH AGUS AINM
© MODELL

IS MÓDEL IT MODELLO JA モデル KO 모델 LT MODELIS LV MODELIS

MT) MUDELL ND MODEL NO MODELL PD MODEL PD MODELO (RO) MODEL

**®**МОДЕЛЬ SK MODEL SD MODEL SV MODELL TR MODELL ②□型号



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(S) RAÐNÚMER (ID) NUMERO DI SERIE (JA) シリアル番号 (KO) 일련 번호 SĒRIJĪNIS NUMERIS SĒRIJAS NUMURS MDNUMRU TAS-SERJE ND SERIENUMMER NO SERIENUMMER PD NUMER SERYJNY PD NÚMERO DE SÉRIE RONUMĂR DE SERIE

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ENADDITIONAL INFORMATION
BO ДОПЪЛНИТЕЛНА ИНФОРМАЦИЯ
CO DOPLÑKOVÉ INFORMACE
DA YDERLIGERE OPLYSNINGER
BD ZUSÄTZLICHE INFORMATIONEN
ED ΠΡΟΣΘΕΤΕΣ ΠΛΗΡΟΦΟΡΙΕΣ

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RO INFORMAȚII SUPLIMENTARE

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SO DALSIE INFORMACIE
SD DODATNE INFORMACIJE
SD YTTERLIGARE INFORMATION
TRILAVE EKIPMAN
TO DATA SE (ZH)其它信息



ED MAXIMUM CAPACITY
BO MAKCUMAJIEH KAFIALIUTET
CO MAXIMÁLNÍ NOSNOST
DO MAKS. KAPACITET
DE MAXIMALKAPAZITÄT
ED MEFIETH XΩPHTIKOTHTA

ES CAPACIDAD MÁXIMA ED MAKSIMAALNE JÕUDLUS FD MAKSIMIKAPASITEETTI ER CAPACITE MAXIMUM GA) UASCHUMAS HD MAXIMÁLIS KAPACITÁS

(S) HÁMARKS GETA (ID) PORTATA MASSIMA (JA) 最大容量 (KO) 최대 용량 T)MAKSIMALI GALIA MAKSIMĀLĀ CELTSPĒJA M KAPAĆITÀ MASSIMA N MAXIMAAL LAADVERMOGEN NO MAKSIMAL KAPASITET PD UDZWIG MAKSYMALNY PD CAPACIDADE MÁXIMA (RO) CAPACITATE MAXIMĂ

RD MAKCUMAЛЬНАЯ ГРУЗОПОДЪЕМНОСТЬ GO MAXIMÁLNA NOSNOSŤ SD NAJVEČJA ZMOGLJIVOST SD MAXIMAL KAPACITET TR) MAKSIMUM KAPASITE



ED MAXIMUM CAPACITY BETWEEN FORKS

®© MAKCMMAITHA TOBAPOTIODEMHOCT MEXIZY BUTIFULITE
CO MAXIMÁLNÍ NOSNOST MEZI VIDLICEMÍ

ØD MAXIMÁLNÍ NOSNOST MEZI VIDLICEMÍ

ØD MAXIMAL KAPACITET MELLEM GAFLERNE

ØD MAXIMALE TRAGFÁRIÐENT ZWISCHEN DEN GABELN

ED METIZTH IKANOTHTA ANAMEZA ΣΤΙΣ ΠΕΡΌΝΕΣ

(ES) CAPACIDAD MÁXIMA ENTRE HORQUILLAS

ETT VALHU IN EV VALEL INE MAY TÖSTEVÍMIE ED KAHVLITE VAHELINE MAX. TÕSTEVÕIME

(E) MAKSIMINOSTOKYKY HAARUKOIDEN VÄLISSÄ (FR) CAPACITÉ MAXIMALE ENTRE LES FOURCHES (GA) UASCHUMAS IDIR NA GABHAIL (HD) MAXIMUM TEHERBİRÄS VILLÁK KÖZÖTT (S) HÁMARKS GETA MILLI GAFLA (T) PORTATA MASSIMA TRA LE FORCHE (A) フォーク間の最大容量 ((1) エュ 간 최대 응량

(T) MAKSIMINOSTOKYKY HAARUKOIDEN VÄLISSÄ (T) MAKSIMALI GALIA TARP ŠAKIŲ (T) CAPACITĖ MAXIMALE ENTRE LES FOURCHES (T) MAKSIMĀLĀ CELTSPĒJA STARP DAKŠĀM (T) KAPACĪTĀ MASSIMA BEJN IL-FRIEKET ND MAXIMUMCAPACITEIT TUSSEN VORKEN NO MAKSIMAL KAPASITET MELLOM GAFLENE MAKSYMALNY UDŹWIG POMIEDZY WIDŁAMI CAPACIDADE MÁXIMA ENTRE GARFOS (RO) CAPACITATEA MAXIMĂ ÎNTRE FURCI

**®**МАКСИМАЛЬНАЯ ГРУЗОПОДЪЕМНОСТЬ REMINACUMAISHAYI PYSOTIOJDEMINUC IB MEKIYY BUTAMU SD MAXIMÁLNA NOSNOSŤ MEDZI VIDLICAMI SD NAJVEĆJA ZMOGLJIVOSŤ MED VILICAMI SD MAXIMAL KAPACITET MELLAN GAFFLAR TIP CATALLAR ARASI YÜK MERKEZINDEKI



EN @ LOAD CENTER

BO B LEHTЪPA HA HATOBAPBAHE ED @ KOORMUSE RASKUSKESE

CS @ STRED NÁKLADU

DA VED LASTCENTRUM

DD @ LASTSCHWERPUNKT

ED ZTO KENTPO BAPOYS

ED CENTRO DE CARGA

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(S)@ HLEÐSLUMIÐJA (T)@ BARICENTRO DEL CARICO 負荷の中心 TIES KROVINIO CENTRU KRĀVĀS CENTRĀ

MD @ ČENTRU TAT-TAGHBIJA ND BIJ LASTZWAARTEPUNT (ND VED LASTEPUNKT (DD @ ŚRODEK CIĘŻKOŚCI ŁADUNKU (DD @ ŚRODEK CIĘŻKOŚCI ŁADUNKU (DD @ CENTRO DE CARGA (D LA CENTRUL DE GREUTATE



EDMAXIMUM OPERATING PRESSURE
GO MAKCUMAJIHO PAGOTHO HAJIRITAHE
CO MAXIMÁLNÍ PROVOZNÍ TLAK
O MAKSIMALT DRIFTSTRYK
OD MAXIMALER BETRIEBSDRUCK
(EDMETIZTH HIEZH AEITOYPITAZ
(ES) PRESIÓN DE FUNCIONAMIENTO MÁXIMA
EDMAKSIMAALNE TÖÖRÖHK

EDMAKSIMITOIMINTAPAINE
(FB) PRESSION DE SERVICE MAXIMALE
(GA) UASBHRÚ OIBRIÚCHÁIN
(FD) MAXIMÁLIS ÜZEMI NYOMÁS
(G) HÁMARKS VINNUBRÝSTINGUR
(T) DRESSIONE MASIMA DI ESEBCIZIO PRESSIONE MASSIMA DI ESERCIZIO JA 最大運転圧力 (区) 최대 작동 압력

(LV) MAKSIMĀLAIS DARBA SPIEDIENS (MT) PRESSJONI MASSIMA TAL-OPERAT AD PARESSIONI MERKORUK (D) MAKISIMALT DRIFTSTRYKK (D) MAKSYMALNE CISNIENIE ROBOCZE (ED) PRESSION MAXIMA DE FUNCIONAMENTO (R) PRESIUNEA DE LUCRU MAXIMA

RD MAKCIMAЛЬНОЕ РАБОЧЕЕ ДАВЛЕНИЕ SD MAXIMÁLNY PREVÁDZKOVÝ TLAK SD NAJVEČJI DELOVNI TLAK SD MAXIMALT ARBETSTRYCK TR MAKSIMUM IŞLETME BASINCI (7H)最大工作压力



EDMASS OF ATTACHMENT

BG MACA HA ΠΡΙ(CTABKA

CS) HMOTNOST PŘÍDAVNÉHO ZAŘÍZENÍ

DD JUDSTYRS VÆGT

DD ANBAUGERÄTGEWICHT

EDMAZA ΣΥΝΔΕΔΕΜΕΝΟΥ ΕΞΟΠΛΙΣΜΟΥ

EMPSO DEL ACCESORIC

EDTÖÖSEADME MASS

EDLISÁLATITEEN PAINO

EDMASS DE LÍ-ACCESSO

GD MAIS AN FHEISTIS

EDMAZA ΣΥΝΔΕΔΕΜΕΝΟΥ ΕΞΟΠΛΙΣΜΟΥ

ES PESO DEL ACCESORIO ED TÖÖSEADME MASS FD LISÄLAITTEEN PAINO FR MASSE DE L'ACCESSOIRE

(IS) FJÖLDI TENGINGA (IT) MASSA DELL'ATTREZZATURA (JA) 装備総量 (ジードギ 크기 T PRIEDO MASE V UZKARES IEKĀRTAS MASA

M PIŻ TAL-ATTACHMENT N MASSA VAN VOORZETAPPARAAT NO MASSE FOR TILLEGGSUTSTYR D MASA OSPRZĘTU PT) PESO DO ACESSÓRIO RO MASA ECHIPAMENTULUI ATAŞAT

RDMACCA HABECHOFO O GOPYJOBAHUR SO HMOTNOSŤ PRÍDAVNÉHO ZARIADENIA SD MASA PRIKLJUČKA SVA AGREGATETS VIKT TO TO COLANDA LA VIKT DEK DONANIM AĞIRLIĞI



EDLOST LOAD CENTER DISTANCE

® PASCTOSHIVE OT LIEHTLIPA HA 3AΓΥΣΑ HA HATOBAPBAHE

(3) VZDÁLENOST POSUNUTÉHO STŘEDU NÁKLADU

Ø REDUCERT LASTCENTERAFSTAND

© VERLORENER ABSTAND ZUM LASTMITTELPUNKT

(ED ΑΠΌΣΤΑΣΗ ΑΠΩΛΕΣΘΈΝΤΟΣ ΚΕΝΤΡΟΥ ΒΑΡΟΥΣ

(S) DISTANCIA A CENTRO DE CARGA PERDIDA

(ED ΚΟΡΚΙΜΊΔΕ ΡΑSKUSKESKIME MUUTUS

(F) KAPASITEETIHUKAN KESKIPESTEEN ETĂISYYS

(R) DISTANCE CENTRE DE CHARGE PERDUE

(A) FAD LÓDPHOINTE CAILLTE 他DELVESZETT TEHERKÖZÉPPONT-TÁVOLSÁG (S) FJARLÆGÐ GLATAÐS HLEÐSLUMIÐJU (T) SPESSONE EFFETTIVO (A) 여호박아계차 (선) 순실 하중 중심 거리 (T) ATITOLUSIO APKROVOS CENTRO ATSTUMAS (T) ZAUDĒTS ATTĀLUMS LĪDZ SLODZES CENTRAM (MT) DISTANZA MIĆ-ČENTRU TAT-TAGHBIJA MITULPĀ (N) VERLOREN AFSTAND TOT LASTZWAARTEPUNT (D) TAPT LASTEPUNKTAVSTAND

(P) WIELKOŚĆ PRZESUNIĘCIA ŚRODKA CIĘŻKOŚCI ŁADUNKU
(P) DISTÁNCIA DO CENTRÓ DE CARGA PERDIDA

(RO) DISTANTA LA CENTRUL DE GREUTATE AL SARCINII

(RO) DISTANTA LA CENTRUL DE GREUTATE AL SARCINII

(RO) DIOTEPSIHOE PACCTOSHINE DO LIEHTPA HATPYSKII

(RO) DIOTEPSIHOE PACCTOSHINE DO LIEHTPA HATPYSKII

(RO) DIOTEPSIHOE PACCTOSHINE DO LIEHTPA HATPYSKII SĎ ÚBYTOK VYLOŽENIA ŤAŽISKA S PRÍDAVNÝM ZARIADENÍM SD RAZDALJA DO PREMAKNJENEGA SREDIŠČA OBREMENITVE SD FÖRLORAT LASTMITTPUNKTSAVSTÁND TŘIKAVIP YÜK MERKEZ MESAFESI TR KAYIP YÜK MERKEZ MESAFESI ZH) 荷载损耗中心距离

### CON NAMEPLATE LEGEND



- ED CENTER OF GRAVITY TO MOUNT FACE DISTANCE

  (BG) LEHTSP HA TEXECTTA CTPRINO PASCTORFHETO OT MONTAXHATA YETHA ПОВЪРХНИНА

  (CS) VZDÁLENOST STŘEDU NÁKLADU K ČELU RÁMU

  (DÁ) AFSTANDEN MELLEM TYNGDEPUNKT OG MONTERINGSFLADEN OBA ARSTANDEN MELLEM I TINGDEPUNKT OG MUNT I ERINGSFLADEI

  DE ABSTAND ZWISCHEN SCHWERPUNKT UND MONTAGEFLÄCHE

  ED AFIOZTAZH KENTPOY BAPOYZ ATIO THN TIPOZOYH BAZHZ

  ES DISTANCIA DE CENTRO DE GRAVEDAD A CARA DE MONTAJE

  ED RASKUSKESKME KAUGUS EESMISEST KINNITUSPINNAST

  ED PAINOPISTEEN ETÄSYYS KINNITYSPINNASTA FR DISTANCE CENTRE DE GRAVITÉ-FACE DE MONTAGE
- (A) FAD IDIR AN MEÁCHANLÁR AGUS AN ÉADAN FEISTE (刊) SÚLYPONT SZERELŐFELÜLET TÁVOLSÁG (S) MIÐJA ÞYNGDARAFLS TÍL AÐ HLAÐA ÚR LÍKAMSFJARLÆGÐ (T) CENTRO DI GRAVITA 'DAL PIANO DI AGGANCIO (A) マウント面への重心 (例) なず 먼 거리에 대한 중력 중심 (T) ATSTUMAS NUO SUNKIO JEGOS CENTRO KKI PAGRINDO PRIEKNÉS PUSËS (V) ATTÁLUMS NO SMAGUMA CENTRA LÍDZ JZSTÁDÍŠANAS VIRSMAI (MT) ČENTRU ÍTA 'GRAVITÁ SAD-DISTANZA MOUNT FACE (N) AFSTAND TÍLISSEN ZWAARTEPI INT FAN MONTRACEPU AK

  - ROD DISTANI A DE LA CENTRUL DE GREDI ALE LA SUPRAFA JA DE INDONTARE ROD PACCTORPHE OT LIEHTPA TRIRECTU JO VCTAHOBOU-HOM TROEPSHOCTU GO VZDIALENOSŤ ŤAŽISKA OD ČELNEJ STRANY UCHYTENIA SO RAZDALJA TEŽIŠČA OD SPREDNJE MONTAŽNE STRANI GO AVSTÁND TYNGDPUNKT TILL MONTERINGSYTA TR) AĞIRLIK MERKEZI ILE FORK YÜZÜ ARASI MESAFE ND AFSTAND TUSSEN ZWAARTEPUNT EN MONTAGEVLAK (ZH) 重心到安装面的距离



- EN YEAR OF MANUFACTURE
  BO ΓΟДИНА НА ПРОИЗВОДСТВО
  COS ROK VÝROBY
  DO PRODUKTIONSÁR
  BO JAHR DER HERSTELLUNG
  ED ETOΣ ΚΑΤΑΣΚΕΥΗΣ
- ES AÑO DE FABRICACIÓN
  ED VALMISTAMISAASTA
  FD VALMISTUSVUOSI
  FB ANNÉE DE FABRICATION
  GB BLIAIN DÉANTUSAÍOCHTA
  HD A GYÁRTÁS ÉVE
- S FRAMLEIÐSLUÁR T ANNO DI FABBRICAZIONE (国) 製造年度 (の) 제조년 (LT) PAGAMINIMO METAI (LV) RAŽOŠANAS GADS
- MD SENA TA' MANIFATTURA
  ND BOUWJAAR
  NO PRODUKSJONSÅR
  PD ROK PRODUKCJI
  PD ANO DE FABRICO
  RO ANUL DE FABRICAŢIE RDГОД ИЗГОТОВЛЕНИЯ SD ROK VÝROBY SD LETO IZDELAVE SV TILLVERKNINGSÅR TR ÜRETIM YILI **全**計 制造年份

NO AVSTAND TYNGDEPUNKT TIL MONTERINGSFLATE PD ODLEÇIO SÓ COD SRODKA CIĘZKOŚCI DO CZOŁA ZAWIESZENIA
PD DISTÂNCIA DO CENTRO DE GRAVIDADE À SUPERFÍCIE DE MONTAGEM
DISTÂNCIA DE LA CENTRUL DE GREUTATE LA SUPRAFAJA DE MONTARE



- (EI) CAPACITY OF TRUCK AND ATTACHMENT COMBINATION MAY BE LESS THAN ATTACHMENT CAPACITY SHOWN. CONSULT TRUCK NAMEPLATE. THE CAPACITY OF THE TRUCK AND ATTACHMENT COMBINATION SHALL BE COMPLIED WITH.
- (BG) КАПАЦИТЕТЪТ НА СЪЕДИНЕНИТЕ ПОВДИГАЧ И ПРИСТАВКА МОЖЕ ДА БЪДЕ ПО-МАЛЪК ОТ ДАДЕНИЯ КАПАЦИТЕТ НА ПРИСТАВКАТА. ВИЖТЕ ТАБЕЛКАТА НА ПОВДИГАЧА. ТОВАРОПОДЕМНОСТТА НА КАРА И КОМБИНАЦИЯТА ОТ ПРИСТАВКИ ТРЯБВА ДА СЪОТВЕТСТВАТ.
- (S) NOSNOST KOMBINACE VOZÍKU S PŘÍDAVNÝM ZAŘÍZENÍM MŮŽE BÝT MENŠÍ NEŽ UVEDENÁ NOSNOST PŘÍDAVNÉHO ZAŘÍZENÍ. PROHLÉDNĚTE SI ŠTÍTEK VOZÍKU. NOSNOST KOMBINACE VOZÍKU A PŘÍDAVNÉHO ZAŘÍZENÍ NESMÍ BÝT PŘEKROČENA.

- KOMBINACE VOZIKU A PRIDAVNEHO ZARIZENI NESMI BYT PREKROCENA.

  DA DEN SAMLEDE KAPACITET FOR TRUCKEN OG DET PÅMONTEREDE TILBEHØRE KAN VÆRE MINDRE END DEN VISTE KAPACITET FOR TILBEHØRET. SE TRUCKENS NAVNEPLADE. KOMBINATIONEN AF TRUCKENS KAPACITET OG TILBEHØRET SKAL OVERHOLDES.

  DE DIE TRAGKRAFT DER KOMBINATION AUS STAPLER UND ANBAUGERÄT KANN GERINGER SEIN ALS DIE ANGEGEBENE NENNTRAGFÄHIGKEIT. SIEHE TYPENSCHILD. DIE TRAGFÄHIGKEIT DER STAPLER-ANBAUGERÄT-KOMBINATION MUSS DAMIT ÜBEREINSTIMMEN.

  EN AMPHTIKOTHTA TOY OXHMATOZ KAI ZYNAYAZMOY EΞΑΡΤΗΜΑΤΩΣ ΝΕΔΕΤΑΙ ΝΑ ΕΙΝΑΙ ΧΑΜΗΛΟΤΕΡΗ ΑΠΟ ΤΗ ΧΩΡΗΤΙΚΟΤΗΤΑ ΤΟΥ ΕΞΑΡΤΗΜΑΤΩΣ ΣΤΟ ΠΑΡΑΔΕΙΓΜΑ. ΣΥΜΒΟΥΛΕΥΤΕΙΤΕ ΤΗΝ ΕΤΙΚΕΤΆ ΟΧΗΜΑΤΟΣ. Η ΙΚΑΝΟΤΗΤΑ ΤΟΥ ΟΧΉΜΑΤΟΣ ΚΑΙ ΔΙ ΤΟΥ ΣΥΝΔΕΔΕΜΈΝΟΥ ΕΞΟΠΙΖΙΜΟΥ ΠΡΕΠΕΙ ΝΑ ΕΙΝΑΙ ΣΥΜΒΑΤΕΣ.

  ES LA CAPACIDAD COMBINADA DE CARRETILLA Y ACCESORIO PUEDE SER MENOR QUE LA CAPACIDAD DEL ACCESORIO INDICADA. CONSULTE LA PLACA DE CARACTERÍSTICAS DE LA CAPACIDAD COMBINADA DE CARRETILLA Y ACCESORIO.

  FD LADRIELIA TÖĞSFADME KOMBINATSIOONI. ΙΟΙ LIS VÖIR OLI A VÄIKSFM KILL TÖĞSFADME NÄRDATLID. JÖLIDILIS. VAADAKE I AADJURI ANDMEPI AATL. I AADJUR JA TÖÖSFADF.
- ED LAADURI JA TÖÖSEADME KOMBINATSIOONI JÕUDLUS VÕIB OLLA VÄIKSEM KUI TÖÖSEADME NÄIDATUD JÕUDLUS. VAADAKE LAADURI ANDMEPLAATI. LAADUR JA TÖÖSEADE PEAVAD OLEMA ÜKSTEISEGA VASTAVUSES.
- TRUKKI- JA LISÄLAITEYHDISTELMÄN KAPASITEETTI VOI OLLA PIENEMPI KUIN LISÄLAITTEEN ILMOITETTU KAPASITEETTI. KS. TRUKIN ARVOKILPI. TRUKIN JA LISÄLAITTEEN YHDISTELMÄN NOSTOKYKYÄ ON NOUDATETTAVA.
- (FB) LA CAPACITE DE LA COMBINAISON CHARIOTIACCESSOIRE PEUT S'AVERER INFERIEURE A CELLE INDIQUEE POUR L'ACCESSOIRE. SE REPORTER À LA PLAQUE SIGNALETIQUE DU CHARIOT. RESPECTER LA CAPACITÉ DU CHARIOT ET DE L'ACCESSOIRE COMBINÉS.
- (CA) D'FHÉADFADH NÍOS LÚ CUMAIS A BHEITH AG AN TRUCAIL AGUS FEISTEAS NÁ AN CUMAS FEISTIS A THAISPEÁNTAR. FÉACH AR AINMCHLÁR NA TRUCAILE. CLOÍFEAR LE CUMAS NA TRUCAILE AGUS AN CHOMHCHEANGAL FEISTIS.
- (HID) A TARGONCA ÉS A TARTOZÉK KOMBINÁCIÓ KAPACITÁSA LEHET, HOGY KEVESEBB, MINT AZ ÁBRÁZOLT TARTOZÉK KAPACITÁSA. LÁSD A TARGONCA ADATTÁBLÁN. A TARGONCA ÉS SZERELÉK KOMBINÁCIÓ TEHERBÍRÁSÁNAK ELEGET KELL TENNIE ENNEK.
- (S) GETA VÖRUBÍLS OG VIÐHENGISVIÐBÓTAR GETUR VERIÐ MINNI EN GETA VIÐHENGIS ER SÝND. RÁÐFÆRIÐ YKKUR VIÐ NAFNASKILTI VÖRUBÍLSINS. ÞAÐ Á AÐ FYLGJA GETU VÖRUBÍLSINS OG VIÐHENGISVIÐBÓTINNI.
- LA PORTATA DELLA COMBINAZIONE CARRELLO/ATTREZZATURE PUÒ ESSERE INFERIORE RISPETTO ALLA PORTATA DELLE ATTREZZATURE DICHIARATA. CONSULTARE LA TARGHETTA DEL CARRELLO. DEVE ESSERE RISPETTATA LA PORTATA DELLA COMBINAZIONE CARRELLO ELEVATORE/ATTREZZATURA.
- (JA) フォークリフトの能力と装備の組み合わせは示されている装備の能力より低い場合があります。 フォークリフトのネームプレートを相談、トラックの容量と装備の組み合わせとは実施済み、...
- ⑥ 트럭 및 부착 결합물의 용량은 표시된 부착물 용량보다 적을 수 있습니다. 트럭 명판을 참조하십시오. 트럭 및 부착물 결합의 용량을 준수해야 합니다
- (T) KRAUTUVO IR PRIEDO DERINIO GALINGUMAS GALI BŪTI MAŽESNIS NEGU NURODYTAS PRIEDO GALINGUMAS. SKAITYKITE INFORMACIJĄ KRAUTUVO INFORMACIJĄ EPLOKŠTELĖJE.
- BŪTINA NEVIRŠYTI KRAUTUVO IR PRIEDO DERINIO GALIOS.

  W AUTOIEKRĀVĒJA UN PIEDERUMA KOPĒJĀ CELTSPĒJA VAR BŪT MAZĀKA PAR NORĀDĪTO PIEDERUMA CELTSPĒJU. SKATĪT AUTOIEKRĀVĒJA TEHNISKO DATU PLĀKSNĪTI. IR JĀIEVĒRO AUTOIEKRĀVĒJA UN UZKARES IEKĀRTAS KOPĒJĀ CELTSPĒJA.
- IL-KAPAČITÀ TAT-TRAKK U TAT-TAGHMIR IMQABBAD MIEGHU TISTA' TKUN INQAS MILL-KAPAČITÀ MURIJA TAT-TAGHMIR IMQABBAD MIEGHU. IČČEKKJA L-PJANĆA TAL-ISEM TAT-TRAKK. IL-KAPAČITÀ TAT-TRAKK FLIMKIEN MA' DIK TAT-TAGHMIR IMQABBAD MIEGHU TRID TIĞI SSODISFATA.
- HET DRAAGVERMOGEN VAN DE COMINATIE VAN HEFTRUCK EN VOORZETAPPARAAT KAN LAGER ZIJN DAN HET VERMELDE DRAAGVERMOGEN VAN HET VOORZETAPPARAAT. KIJK OP HET TYPEP LAATJE VAN DE HEFTRUCK. MET DE CAPACITEIT VAN DE COMBINATIE VAN TRUCK EN VOORZETAPPARAAT WORDT REKENING GEHOUDEN.
- OP HET TYPEP LAATJE VAN DE HEFTRUCK. MET DE CAPACITEIT VAN DE COMBINATIE VAN TRUCK EN VOORZETAPPARAAT WORDT REKENING GEHOUDEN.

  (IV) TOTAL KOMBINERT KAPASITET FOR GAFFELTRUCK OG TILBEHØR KAN VÆRE MINDRE ENN ANGITT KAPASITET FOR TILBEHØRET. SE GAFFELTRUCKENS NAVNEPLATE. DEN TOTALE KAPASITETEN FOR GAFFELTRUCK OG TILLEGGSUTSTYR KOMBINERT MÅ OVERHOLDES.

  (IV) UDŽWIG ZESPOŁU WÓZKA I OSPRZĘTU MOŻE BYĆ MNIEJSZY NIŻ POKAZANY UDŻWIG OSPRZĘTU. PATRZ TABLICZKA ZNAMIONOWA WÓZKA. NALEŻY PRZESTRZEGAĆ DOPUSZCZALNEGO UDŻWIGU ZESPOŁU WÓZKA I OSPRZĘTU.

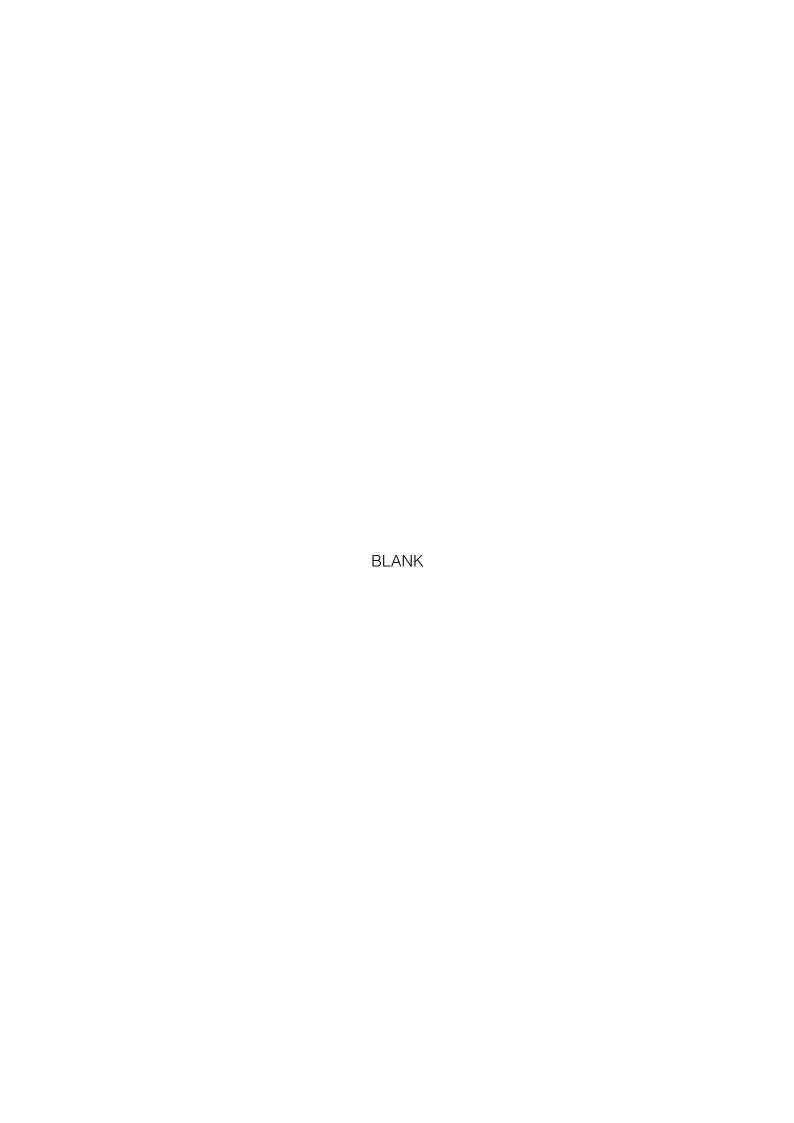
  (IV) A CAPACIDADE DA COMBINAÇÃO DO EMPILHADOR E DO ACESSÓRIO PODE SER INFERIOR À CAPACIDADE DO ACESSÓRIO APRESENTADA. CONSULTE A CHAPA DE ESPECIFICAÇÕES DO ÉMPILHADOR. CAPACIDADE DO CAMINHÃO E COMBINAÇÃO DE PENHORA DEVE SER RESPEITADO.

  (IV) CAPACITATEA VEHICULULU SI A COMBINAȚIEI DISPOZITIVELOR DE PRINDERE INDICATĂ CONSULTAȚI DI ALIANI CAPACITATEA DISPOZITIVELOR DE PRINDERE INDICATĂ CONSULTAȚI DI ALIANI CAPACITATEA DISPOZITIVELOR DE PRINDERE PROCETITĂ CONSULTAȚI DI ALIANI CAPACITATEA DISPOZITIVELOR DE PRINDERE PROCETITĂ CONSULTAȚI DI ALIANI CAPACITATEA DISPOZITIVELOR DE PRINDERE PROCETITĂ CONSULTAȚI

- PLÀCUTA CU CARACTERISTICILE TEHNICE ALE STIVUITORULUI. CAPACITATEA COMBINAȚIEI STIVUITOR ECHIPAMENTE ATAȘATE TREBUIE RESPECTATĂ.

  © СОВМЕСТНАЯ ГРУЗОПОДЪЕМНОСТЬ АВТОПОГРУЗЧИКА И НАВЕСНОГО УСТРОЙСТВА МОЖЕТ БЫТЬ НИЖЕ УКАЗАННОЙ ГРУЗОПОДЪЕМНОСТИ НАВЕСНОГО УСТРОЙСТВА. СМ.

- (SV) KAPACITETEN FÖR KOMBINATIONEN GAFFELTRUCK OCH AGGREGAT KAN VARA MINDRE ÄN ANGIVEN KAPACITET. LÄS GAFFELTRUCKENS TYPSKYLT. KAPACITETEN FÖR KOMBINATIONEN GAFFELTRUCK OCH AGGREGAT SKA FÖLJAS.
- raç kapasıtesi ve donanım kombinasyonu, gösterilen donanım kapasitesinden düşük olabilir. Araç bilgi etiketine başvurun. Araç kapasitesi ve donanım KOMBINASYONU UYUMLU OLMALIDIR.
- (ZH) 叉车与叉车属具的综合承载能力可能小于显示的叉车属具承载能力。请参考叉车铭牌。 应符合叉车与叉车属具的综合承载能力。



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