

---

## Kalmar Group Standard

# KGS 30106

Part

**Base Standard**

Name

**Fork arm - Marking**

Group

**Product lines**

---

## 1 Scope

This Kalmar Group Standard hereinafter referred to as KGS cover requirements for marking on fork arms to Kalmar forklift trucks.

## 2 Purpose

The purpose of this standard is to ensure proper marking on fork arms, in order to be able to identify them and manage them in Kalmar's various systems, independently of where and by whom the fork arms are produced.

## 3 Responsibilities

Principal Systems Engineer - Mechanics & Analysis - R&D/FLT sets the requirements and ensures that it is specified on drawings.

Sourcing ensures that the selected supplier complies with the marking requirements in this KGS.

## 4 Definitions

R&D Research & Development

FLT ForkLift Truck

Fork arms can also be named Fork Blank in the Forklift truck business

## 5 Records / references / attachments

ISO 2330 Fork-lift trucks – Fork arms – Technical characteristics and testing

ISO 2331 Fork-lift trucks – Hook-on type fork arms – Vocabulary

## 6 Procedure description / Requirements

Each fork arm shall be marked permanently where the marking is carried out by the supplier or by Kalmar, depending on the circumstances;

- By supplier when ordering a fork arm.
- By Kalmar when changing or replacing the content of the marking.

If the information is changed the corresponding original data must be made unreadable.

The marking shall be placed and be readable on either flank.

The placement of the marking shall be stated on each drawing for fork arms.

The font size shall be at least 6 mm in height.

Topical data for marking on fork arm are also noted at the drawing (delivery level).

Example on location, see Figure 1.

Document ID: IMS-K-009962  
 Last update date: 24/03/2023  
 Approver: jonas.disman@kalmarglobal.com  
 Version: 1

## 6.1 Description and Placing

- C<sub>1</sub> Rated capacity in kg at R = 3 (applies to each individual fork arm)
- C<sub>2</sub> Rated capacity in kg at R = 2.5 (applies to each individual fork arm)
- D Load center distance in mm
- a Thickness of the fork arm blade in mm
- Y Yield strength minimum for the fork arm material in MPa
- L Identification of the supplier
- S/N Serial Number
- R Safety factor
- P/N Part number including issue number
- Q Rated capacity of the truck in tonne

The supplier always marks rated capacity C<sub>1</sub> for safety factor R = 3.  
 Fork arms for trucks with Q > 9 tonne shall also be marked with C<sub>2</sub> for R = 2.5  
 (incl. Medium truck Q = 9 tonne).

### Examples:

Trucks with ≤ 9 tonne rated capacity

Explanation

Appearance on Fork

|          |                      |          |          |            |
|----------|----------------------|----------|----------|------------|
|          | <u>C<sub>1</sub></u> | <u>D</u> | <u>a</u> | <u>Y</u>   |
|          | 4480                 | - 600    | - 60     | - 830      |
| <u>L</u> |                      |          |          |            |
| Supplier |                      |          |          |            |
|          | <u>P/N</u>           |          |          | <u>S/N</u> |
|          | 207926.0315-01       | -        | 53594    |            |



|                        |
|------------------------|
| 4480 - 600 - 60 - 830  |
| Supplier               |
| 207926.0315-01 - 53594 |

Trucks with > 9 tonne rated capacity (Including Medium truck 9 tonne)

Explanation

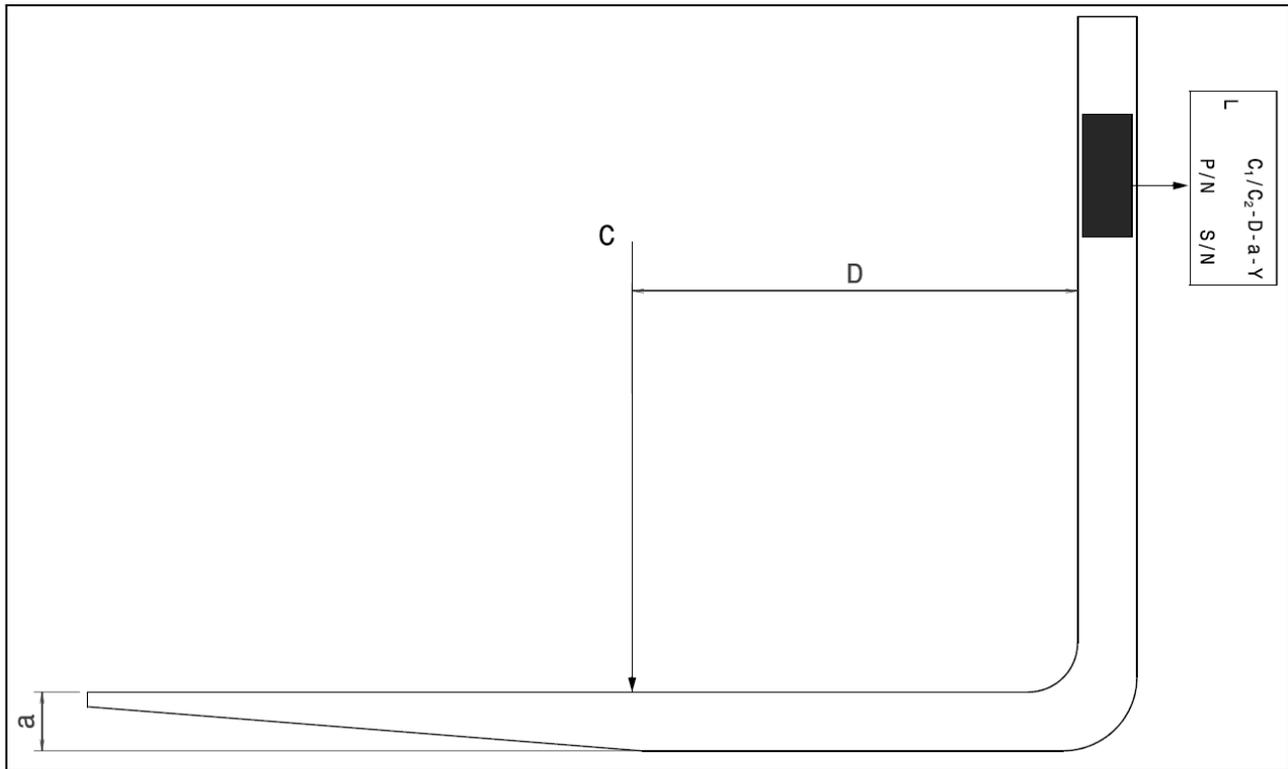
Appearance on Fork

|          |                                      |          |          |            |
|----------|--------------------------------------|----------|----------|------------|
|          | <u>C<sub>1</sub> / C<sub>2</sub></u> | <u>D</u> | <u>a</u> | <u>Y</u>   |
|          | 8600/10400                           | - 1200   | - 100    | - 995      |
| <u>L</u> |                                      |          |          |            |
| Supplier |                                      |          |          |            |
|          | <u>P/N</u>                           |          |          | <u>S/N</u> |
|          | 207927.1512-01                       | -        | 95137V   |            |



|                               |
|-------------------------------|
| 8600/10400 - 1200 - 100 - 995 |
| Supplier                      |
| 207927.1512-01 - 95137V       |

Document ID: IMS-K-009962  
Last update date: 24/03/2023  
Approver: jonas.disman@kalmarglobal.com  
Version: 1



**Figure 1- Marking location**