



Issued by

Robert Platt

Title/Subject

Global Logistics Requirements

Confirmed by

Robert Platt

Category

Supplier Requirements

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HDX4-51-173

Date

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SUMMARY OF GLOBAL LOGISTICS REQUIREMENTS

Introduction

This Summary of Global Logistics Requirements serves of the purpose of summarizing the requirements of Haldex sites for global SUPPLIERS submitting quotations.

Scope

Haldex sites included:

- Cambridge, Canada
- Grain Valley, USA (Blue Springs)
- Heidelberg, Germany
- Kansas City, USA
- Landskrona, Sweden
- Monterrey, Mexico
- Nashik, India
- Sao Jose dos Campos, Brazil
- Suzhou, China
- Szentlorinckata, Hungary
- Weyersheim, France



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COMMUNICATION AND INFORMATION TRANSFER

Language

All communication shall be done in English or in the local language for each Haldex site.

Electronic Data Interchange

EDIfact is currently required from suppliers shipping to the following Haldex locations, and an upcoming requirement for those indicated.

- Heidelberg, Germany
- Landskrona, Sweden
- Szentlorinckata, Hungary
- Weyersheim, France

** All sites are anticipated to use EDI by 2017. Suppliers should plan to support EDI Messages for all sites by this time.

EDI Messages Supported / Required

The following EDI messages need to be made operational by the SUPPLIER in the most appropriate format to their environment (EDI, Web-EDI, e-forms, etc)

- Delivery Schedule – Type DELFOR,
- Call Off – type DELJIT,
- OrderS (electronic PO)
- OrderResp (PO confirmation form supplier)
- ASN - DESADV
- Invoice – INVOIC

Email delivery of Purchase Orders

- Cambridge, Canada
- Grain Valley, USA (Blue Springs)
- Kansas City, USA
- Monterrey, Mexico
- Nashik, India
- Sao Jose dos Campos, Brazil
- Suzhou, China

Potential Delivery Problems

Supplier will pro-actively report potential delivery problems in accordance with the delivery schedule to the Haldex material planner as quickly as possible. Priorities and necessary measures are determined in mutual consultation.



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Faulty Information

If the Supplier discovers dubious or suspected fault in the information sent, the Supplier shall immediately notify responsible contact at Haldex.

Contact Persons

Supplier and Haldex are responsible to exchange contact persons to be available by telephone, e-mail and fax during office hours. In the event of absence, a full-fledged replacement is to be provided and there will be timely notification of who this is and how to reach this person.

Supplier and Haldex will designate persons who can be reached outside of normal office hours in the event of emergencies.

Calendar Deviations

Days when Supplier cannot deliver in accordance with the agreed schedule (e.g. as a result of national holidays) are to be communicated at least 12 weeks in advance to the Haldex material planner, who will then consult with Supplier and the Transport department to determine whether an alternative delivery date be scheduled. However, the Supplier has a delivery responsibility every week of the year.

Deliveries

If several deliveries to Haldex are leaving the Supplier during the same day, they shall be shipped as one delivery. (E.g. 1 truckload = 1 shipment = 1 EDI). At the same day the trailer leaves the Supplier's premises, the final loading list is sent by Supplier via EDI. ASN has to be done at time of shipment to Haldex.

Frequency of Deliveries

The frequency shall be done according to the delivery schedule or purchase order date.

Delivery Performance

Haldex demands a delivery precision of 100%. The delivery precision is defined as correct amount in correct time according to the delivery terms, calculated on an item level. The Supplier is to measure their own delivery precision and submit to Haldex planners on a monthly basis.

Delivery Date

Where indicated on Haldex documents, 'DELIVERY DATE' means the date of departure from the supplier, except for North American Haldex locations. North American Haldex locations define 'DELIVERY DATE' as the date of arrival to Haldex.

Late Deliveries

All Haldex extra cost driven by the suppliers problems in keeping the time of delivery, will be invoiced to the supplier. These costs include, but not limited to, cost for extra transport (air freight if necessary,



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DDP) from the Supplier to Haldex. Overtime costs at Haldex to make up for lost time, extra transport (air freight if necessary) from Haldex to the customer and cost at Haldex customer due to late deliveries from Haldex which is due to late deliveries from the Supplier.

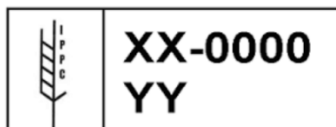
PACKAGING

Packing Standard

All sites in Europe and China, as well as Grain Valley USA (Blue Springs) require the Supplier to use VOLVO-emballage (packing) or to use pallets and frames Eur standard. If Volvo-emballage is used there must be an account set up at Volvo for the flow of parts to HALDEX.

All sites in North America (except Grain Valley USA) require the Supplier to use 42x42 inch 2-way pallets.

All wooden packaging materials sent to any Haldex site across international borders must be heat-treated and bear the IPPC mark.



Pallet units must be secured in plastic banding or stretch wrap. Palletized material shall not extend beyond the perimeter of the pallet. Pallet units shall not exceed the 1067 mm high or 700 kg in weight. Individual boxes must not exceed 20 kg. Instances of exceeding this weight limit must be submitted with the supplier response to the RFQ and agreed to by the Haldex location.

Anti-rust and protection of contents

Regarding components which might easily rust, Supplier packaging should include the following rust-preventative actions. All VCI bags should be sealed before shipping. Drier bags should be break-proof. Anti-rust oil should not have any irritating odor and not be corrosive during human handling.

VCI Bag: to be used for components for which the whole transportation and storage time won't exceed 2 months.

VCI Bag plus Drier Bags: to be used for components for which the whole transportation and storage time exceeds 2 months, especially castings, forged/punched parts, or parts after heat treatment that don't have any anti-rust oil.

Anti-rust Oil + VCI Bag: to be used for components with transportation and storage time over 2 months, such as rolled or cut parts that have limited surface protection by some kind of anti-rust oil

Components which are fragile or easily-damaged should be packed using the following methods:

Isolate machined surfaces from one another

Avoid friction for coated or painted parts



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Add stuffing material to completely fill voids in the box
 Use internal support to prevent part distortion

Packing Instructions

In many cases a documented Packing Instruction will be developed by Haldex and must be agreed to by supplier. A documented and agreed packing instruction will override any of the packing requirements detailed elsewhere. An example of the Haldex Packing Instruction is below:

		Category Packing Instruction	Reg.No HDX1-131-258	Page 1/2
Issued by Hasic, Enes		Confirmed by Hasic, Enes	Date 2014-09-21	Issue 2.0
Title/Subject Axial Needle Bearing 51383		Replaces 20043974	Ref. ABA	
Supplier data:				
Name	Supplier Company LLC	Supplier No.	8745	
Contact person	Good Supplier Contact	E-mail	email@supplier.com	
Tel number	+49 12 34 56 78 91	Fax number	+49 12 34 56 78 90	
Part Axial Needle Bearing, 51383 (en) Axialnållager, 51383 (sv)		Pattern 1000 pcs/box 28 boxes/ pallet		
Packing Directions Place a plastic bag in a card box and fill that with 1000 pcs and use anticorrosive paper according to pattern. Prepare a L1 pallet with spacer and fill the pallet with 28 boxes according to pattern. Add a lid and secure the pallet with 2 plastic straps.		Unit Load 		
Marking:		The ODETTE-flag shall be placed to the left on short side lower frame. Label on inner packaging should be in both plain text/number and barcode and placed on one short-end side of the box. Required info as note below with qty added. Material Safety Data Sheet for used metal working oil or anti corrosion fluid must be approved by Haldex before the first delivery.		
Packaging List:		Notes:		
Qty	Description	Dimensions	VEMB No.	Exterior and interior packaging is to be marked with goods tag including but not limited to Haldex Item number, Haldex item name, supplier name, supplier number, batch number. Exterior packaging also with purchase order number, delivery note number, delivery date, and quantity in the pallet along with gross weight and net weight. Valid item drawing issue must also be included. The information is to be written both in plain text and barcode according to the Odette standard. For additional info, please see HDX1-131-236.
1	L-Pallet	1225x815x151	1	
1	L-Spacer	1160x760x3	61	
1	L-Frame	1225x815x200	21	
1	L-Lid	1225x815x21	71	
28	Card box.	200x150x120		
Package Data – Unit Load				
Total number of parts		28000	Package Height (mm)	Gross Weight (kg)
Number of parts per interior package		1000	Gross Weight Internal Pack (kg) (<7)	Ca 90 kg



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PRODUCT LABELLING AND IDENTIFICATION

Label Formats specified

AIAG Standard, barcodes in code 39 format

Cambridge, Canada

Grain Valley, USA (Blue Springs)

Kansas City, USA

Monterrey, Mexico

Odette Standard, barcodes in 128 format

Landskrona, Sweden

VDA Standard, barcodes in 128 format

Heidelberg, Germany

Szentlorinckata, Hungary

Weyersheim, France

Part Label

Exterior and interior packing is to be marked with goods label including but not limited to:

- Haldex part number
- Haldex part name
- Supplier name
- Supplier number
- Batch number
- Purchase order number
- Delivery note number
- Delivery date
- Quantity
- Gross weight
- Net weight
- Country of Origin – special note that while this is not present on many standard part labels, the supplier is responsible to mark the country of origin/manufacture on the part or package prior to export to a Haldex site

For sites Cambridge, Kansas City, and Weyersheim, each item/bag/box must be marked on 2 sides with the following information in English:

- Haldex part number



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-
- Quantity
 - Description
 - Country of Origin
 - Haldex part number bar code (code UPC-A for Cambridge, Kansas City, code 128 for Weyersheim)



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Information Correlation

The content of the fields on the labels must correspond with the information in the EDI message and delivery note.

Packaging Label Requirement

The labels must be affixed to the packaging in accordance with the site requirements, (typically at the bottom-left of the packaging).

Paper Delivery Documents

Delivery note(s) or Packing Slip to be affixed to the packaging beside the Pallet label.

For sites using Volvo packaging, a Volvo packing delivery note (Volvo standard form) must be affixed beside the delivery note/packing list.

Consignment-note / Waybill (CMR or Bill of Lading)

Required Delivery Note / Packing Slip Fields:

- Supplier Name
- Haldex Purchase Order Number
- Haldex Part Number
- Description
- Quantity
- Commodity code
- Country of Origin
- Lot# or Serial # (not required for Cambridge, Kansas City or Weyersheim sites)
- Net weight
- Gross weight

Material Safety Data Sheets (MSDS)

MSDS forms for all quoted products must be submitted by the supplier with the RFQ.