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## **FORKLIFT XML-Interface**

The new FORKLIFT import-interface uses an XML-format for importing data. Enclosed find the Schema of the XML as well as an example file and the description (in this document). Note that all measurements are in the units you selected for your account on the FORKLIFT website. Further note that all prices are in the currency that you selected as "Import-currency" in FORKLIFT. **Special Characters have to be encoded in UTF-8 format. Other encodings will break on the way and are not supported (wrong representation or import may fail)!**

Die neue FORKLIFT Importschnittstelle benutzt XML als Datenformat. In diesem Archiv sind ebenfalls das Schema des XML, eine Beispieldatei, sowie diese Anleitung enthalten. Beachten Sie, dass alle Längen- Volumen-, Flächen- und Gewichtsangaben in den Einheiten gemacht werden müssen, die sie in FORKLIFT eingestellt haben. Beachten Sie bitte auch, dass die Währung der eingestellten Importwährung entsprechen muss. **Sonderzeichen müssen UTF-8 kodiert übertragen werden. Andere Codierungen ergeben ein fehlerhaftes Ergebnis (falsche Darstellung oder Import schlägt fehl)!**

## Basic XML format

The XML-File follows a special format, which is described in short form here:

```
<?xml version="1.0" encoding="UTF-8" ?>
<machinelist code="76382388">
  <machine type="1">
    [...tags...]
  </machine>
</machinelist>
```

The machinelist code attribute value for your account is given to you by your FORKLIFT representative.

Then following are the machines with their corresponding types and their tags. The types are coded as follows:

Value/ Wert	Description	Beschreibung
1	Forklift	Gabelstapler
2	Attachment	Anbaugerät
3	Aerial equipment	Arbeitsbühne
4	Cleaning technology	Reinigungstechnik
5	Lifting Mast	Hubmast
6	Battery	Batterie
7	Charger	Ladegerät
8	Spare parts	Ersatzteile
9	Construction Equipment	Baumaschinen

## The tags

Here you can find all the tags, whether they are **mandatory** or not (marked with an X in the „default column), their default values and to what machine-types they can attach to.

### Forklifts

Tag	Type/Typ	Default/Standard	Description
enginetype	int	X	The engine type of the machine. See <a href="#">Appendix C</a> for possible values.
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the machine.
toc	int	X	The type of construction of the machine. See <a href="#">Appendix A</a> for possible values.
addeqbits	int	0	Bits for additional equipment. There can be more than 1 of these tags per machine. These items appear translated on the page and are described in <a href="#">Appendix I</a>
addequip	string	"	Additional equipment of the machine, for forklifts see also next field for translateable values
attachbit	int	0	Bits for attachments. There can be more than 1 of there tags per machine. The items appear translated, see <a href="#">Appendix J</a> for values and their meanings
attachments	string	"	Attachments of the machine, see also next field
auctionend	datetime	"	If the machine is in an auction, this is the end datetime of the auction. Auctions are described in <a href="#">Appendix L</a> .
auctionurl	string	"	The URL of the auction. This links to an external auction-site. The URL has to be properly URL-encoded. Auctions are described in <a href="#">Appendix L</a> .
available	string	"	The availability of the machine (e.g. "at once")
battery	string	"	Description of the battery (size and age)
batterytype	int	1	Enter the type of battery See <a href="#">Appendix A</a> for valid values
capacity	int	0	The lifting capacity of the device
chassisno	string	"	The chassis (serial-) no. of the machine
closedheight	int	0	The closed height of the lifting mast
condition	int	4	The condition of the machine according to <a href="#">Appendix B</a> . Defaults to "4".
custprice	int	0	The end user price for the machine in your selected import-currency
dailyrentprice	int	0	The daily rental price for the machine in your selected import-currency.
dealerprice	int	0	The dealer price for the machine in your selected import-currency
demo	int	0	Set to 1 if this is an intranet demonstration machine. Only shown in intranet and is not meant to be sold
engine	string	"	Description of the machine's engine
expmascus	int	0	1 if the machine should be exported to Mascus, 0 if not. Note that you have to add this option to your contract.
expmobile	int	0	1 if the machine should be exported to Mobile, 0 if not. Note that you have to add this option to your contract.
expsupralift	int	0	1 if the machine should be exported to Supralift, 0 if not. Note that you have to add this option to your contract.
forkcarr	string	"	Description of the machines fork carriage
forklength	Int	0	The Length of the forks of the forklift
forks	string	"	Description of the forks of the machine
freelift	int	0	The free lift oft the lifting mast
hours	int	0	The machine's running hours

Tag	Type/Typ	Default/Standard	Description
image	string		URL to an image for the machine. The attribute 'pos' is mandatory and gives the position of the image in the machines detail view. 'pos' has to be a number unique to the machine. If you have special characters in the URL, make sure to properly URL-encode them.
imagelist	string		This is a comma-separated list of image-URLs. You can give multiple URLs here and they are separately processed. This tag is only in effect if there are no <image> tags for the machine. Special characters have to be properly URL-encoded!
intprice	Int	0	Your internal price, only visible to you
intranetprice	int	0	The price for the machine in the intranet area your selected import-currency
intraremarks	string	"	Remarks visible in the Intranet-area.
intremarks	string	"	Remarks visible just to you.
length	int	0	The length of the machine
liftingheight	int	0	The lifting height of the lifting mast
loadcenter	int	0	The load-center of the machine
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int	0	The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
masttype	int	0	The mast type. See <a href="#">Appendix D</a> for valid values.
model	string	"	The model type of the machine
monthlyrentpr	int	0	The monthly rental price <b>per day</b> for the machine in your selected import-currency.
remarks	string	"	Remarks visible to dealers
rental	int	0	Set to 1 if the machine is a rental machine
transmission	string	"	The machine's transmission
tyres	int	0	The type of front-tires of the machine. Defaults to "unknown". See <a href="#">Appendix E</a> for valid values.
tyres2	int	0	The type of back-tires of the machine. Defaults to „unknown“. See <a href="#">Appendix E</a> for valid values.
tyresfront	string	"	Description of the front tyres
tyresrear	string	"	Description of the rear tyres
userremarks	string	"	Remarks visible to end users
viewauction	int	0	Set to 1 if the machine should be visible as auction-machine. Auctions are described in <a href="#">Appendix L</a> .
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewintraent	int	0	Set to 1 if the machine should be visible in the Intranet rental-machine area.
viewintraused	int	0	Set to 1 if the machine should be visible in the Intranet used-machine area.
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
warranty	int	0	The coded warranty duration. See <a href="#">Appendix F</a> for values
weeklyrentpr	Int	0	The weekly rental price <b>per day</b> for the machine in your selected import-currency.
weight	int	0	The weight (or dead weight) of the machine
width	int	0	The width of the machine
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string		A embed-URL to a YouTube-video for this machine



## Attachments

Tag	Type/Typ	Default/Standard	Description
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the machine.
toc	int	X	The type of construction of the machine. See <a href="#">Appendix A</a> for possible values.
armbread	int	0	The fork-width or arm-width
armlength	int	0	The fork-length or arm-length
armsize	int	0	The fork-size or arm-size
available	string	"	The availability of the machine (e.g. "at once")
balancepoint	int	0	The balancepoint of the attachment
buildbread	int	0	The build-width of the attachment
capacity	int	0	The lifting capacity of the device
carrbread	int	0	The back width or front-carriage width of the attachment
chassisno	string	"	The chassis (serial-) no. of the machine
condition	int	4	The condition of the machine according to <a href="#">Appendix B</a> . Defaults to "4".
custprice	int	0	The end user price for the machine in your selected import-currency
dailyrentprice	int	0	The daily rental price for the machine in your selected import-currency.
dealerprice	int	0	The dealer price for the machine in your selected import-currency
frontend	int	0	The front end measure of the attachment
image	string		URL to an image for the machine. The attribute 'pos' is mandatory and gives the position of the image in the machines detail view. 'pos' has to be a number unique to the machine. If you have special characters in the URL, make sure to properly URL-encode them.
imagelist	string		This is a comma-separated list of image-URLs. You can give multiple URLs here and they are separately processed. This tag is only in effect if there are no <image> tags for the machine. Special characters have to be properly URL-encoded!
intprice	Int	0	Your internal price, only visible to you
intranetprice	int	0	The price for the machine in the intranet area your selected import-currency
intraremarks	string	"	Remarks visible in the Intranet-area.
intremarks	string	"	Remarks visible just to you.
isoclass	string	'keine'	The ISO-class of the attachment. Possible values are "2", "3", "4", "Pin-Type"
loadcenter	int	0	The load-center of the machine
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int	0	The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string	"	The postcode where the machine is located. Defaults to the user accounts postcode.
model	string	"	The model type of the machine
monthlyrentpr	int	0	The monthly rental price <b>per day</b> for the machine in your selected import-currency.
rangefrom	int	0	The minimum opening-width/ roll-diameter/ adjustable range of the attachment



Tag	Type/Typ	Default/ Standard	Description
rangeto	int	0	The maximum opening-width/ roll-diameter/ adjustable range of the attachment
remarks	string	"	Remarks visible to dealers
rental	int	0	Set to 1 if the machine is a rental machine
techdescr	string	"	A short technical description of the machine
userremarks	string	"	Remarks visible to end users
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewintraent	int	0	Set to 1 if the machine should be visible in the Intranet rental-machine area.
viewintraused	int	0	Set to 1 if the machine should be visible in the Intranet used-machine area.
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
weeklyrentpr	Int	0	The weekly rental price <b>per day</b> for the machine in your selected import-currency.
weight	int	0	The weight (or dead weight) of the machine
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string	"	A embed-URL to a YouTube-video for this machine

## Aerial Equipment

Tag	Type/Typ	Default/Standard	Description
enginetype	int	X	The engine type of the machine. See <a href="#">Appendix C</a> for possible values.
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the machine.
toc	int	X	The type of construction of the machine. See <a href="#">Appendix A</a> for possible values.
addequip	string	"	Additional equipment of the machine
allwheel	int	0	Set to 1 if the carrier vehicle has all-wheel-drive, set to 2 if the vehicle has chain drive
auctionend	datetime	"	If the machine is in an auction, this is the end datetime of the auction. Auctions are described in <a href="#">Appendix L</a> .
auctionurl	string	"	The URL of the auction. This links to an external auction-site. The URL has to be properly URL-encoded. Auctions are described in <a href="#">Appendix L</a> .
available	string	"	The availability of the machine (e.g. "at once")
basketload	int	0	The basket load of the platform
battery	string	"	Description of the battery (size and age)
capacity	int	0	The lifting capacity of the device
carrvehicle	string	"	The carrier vehicle of the platform (if applicable)
chassisno	string	"	The chassis (serial-) no. of the machine
condition	int	4	The condition of the machine according to <a href="#">Appendix B</a> . Defaults to "4".
custprice	int	0	The end user price for the machine in your selected import-currency
dailyrentprice	int	0	The daily rental price for the machine in your selected import-currency.
dealerprice	int	0	The dealer price for the machine in your selected import-currency
expmascus	int	0	1 if the machine should be exported to Mascus, 0 if not. Note that you have to add this option to your contract.
height	int	0	The height of the platform or cleaner
hours	int	0	The machine's running hours
image	string		URL to an image for the machine. The attribute 'pos' is mandatory and gives the position of the image in the machines detail view. 'pos' has to be a number unique to the machine. If you have special characters in the URL, make sure to properly URL-encode them.
imagelist	string		This is a comma-separated list of image-URLs. You can give multiple URLs here and they are separately processed. This tag is only in effect if there are no <image> tags for the machine. Special characters have to be properly URL-encoded!
intprice	Int	0	Your internal price, only visible to you
intranetprice	int	0	The price for the machine in the intranet area your selected import-currency
intraremarks	string	"	Remarks visible in the Intranet-area.
intremarks	string	"	Remarks visible just to you.
latrange	int	0	The lateral range of the platform
length	int	0	The length of the machine
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int	0	The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .

Tag	Type/Typ	Default/ Standard	Description
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
model	string	"	The model type of the machine
monthlyrentpr	int	0	The monthly rental price <b>per day</b> for the machine in your selected import-currency.
platfeedmot	int	0	The platform feed motion
remarks	string	"	Remarks visible to dealers
rental	int	0	Set to 1 if the machine is a rental machine
userremarks	string	"	Remarks visible to end users
viewauction	int	0	Set to 1 if the machine should be visible as auction-machine. Auctions are described in <a href="#">Appendix L</a> .
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewintrarent	int	0	Set to 1 if the machine should be visible in the Intranet rental-machine area.
viewintraused	int	0	Set to 1 if the machine should be visible in the Intranet used-machine area.
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
weeklyrentpr	Int	0	The weekly rental price <b>per day</b> for the machine in your selected import-currency.
weight	int	0	The weight (or dead weight) of the machine
width	int	0	The width of the machine
workheight	int	0	The work height of the platform
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string		A embed-URL to a YouTube-video for this machine

## Cleaning machines

Tag	Type/Typ	Default/Standard	Description
enginetype	int	X	The engine type of the machine. See <a href="#">Appendix C</a> for possible values.
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the machine.
toc	int	X	The type of construction of the machine. See <a href="#">Appendix A</a> for possible values.
addequip	string	"	Additional equipment of the machine
areaperformance	int	0	The areaperformance of the machine in m²/h or sqft/h (dependant on your units settings)
auctionend	datetime	"	If the machine is in an auction, this is the end datetime of the auction. Auctions are described in <a href="#">Appendix L</a> .
auctionurl	string	"	The URL of the auction. This links to an external auction-site. The URL has to be properly URL-encoded. Auctions are described in <a href="#">Appendix L</a> .
available	string	"	The availability of the machine (e.g. "at once")
battery	string	"	Description of the battery (size and age)
brushpressure	int	0	The brush pressure of the cleaner
chassisno	string	"	The chassis (serial-) no. of the machine
cleaningwidth	int	0	The cleaning width
condition	int	4	The condition of the machine according to <a href="#">Appendix B</a> . Defaults to "4".
custprice	int	0	The end user price for the machine in your selected import-currency
dailyrentprice	int	0	The daily rental price for the machine in your selected import-currency.
dealerprice	int	0	The dealer price for the machine in your selected import-currency
height	int	0	The height of the platform or cleaner
hoppercapacity	int	0	The capacity of the hopper, depending on your units in l or gal.
image	string		URL to an image for the machine. The attribute 'pos' is mandatory and gives the position of the image in the machines detail view. 'pos' has to be a number unique to the machine. If you have special characters in the URL, make sure to properly URL-encode them.
imagelist	string		This is a comma-separated list of image-URLs. You can give multiple URLs here and they are separately processed. This tag is only in effect if there are no <image> tags for the machine. Special characters have to be properly URL-encoded!
intprice	Int	0	Your internal price, only visible to you
intranetprice	int	0	The price for the machine in the intranet area your selected import-currency
intraremarks	string	"	Remarks visible in the Intranet-area.
intremarks	string	"	Remarks visible just to you.
length	int	0	The length of the machine
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int	0	The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string	"	The postcode where the machine is located. Defaults to the user accounts postcode.

Tag	Type/Typ	Default/ Standard	Description
model	string	"	The model type of the machine
monthlyrentpr	int	0	The monthly rental price <b>per day</b> for the machine in your selected import-currency.
recoverytank	int	0	The capacity of the recovery tank, depending on your units in l or gal.
remarks	string	"	Remarks visible to dealers
rental	int	0	Set to 1 if the machine is a rental machine
solutiontank	int	0	The capacity of the solution tank, depending on your units in l or gal.
suctionwidth	int	0	The suction width of the cleaner
userremarks	string	"	Remarks visible to end users
viewauction	int	0	Set to 1 if the machine should be visible as auction-machine. Auctions are described in <a href="#">Appendix L</a> .
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewintrarent	int	0	Set to 1 if the machine should be visible in the Intranet rental-machine area.
viewintraused	int	0	Set to 1 if the machine should be visible in the Intranet used-machine area.
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
weeklyrentpr	Int	0	The weekly rental price <b>per day</b> for the machine in your selected import-currency.
weight	int	0	The weight (or dead weight) of the machine
width	int	0	The width of the machine
workingwidth	int	0	The working width of the machine
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string		A embed-URL to a YouTube-video for this machine

## Lifting Masts

Tag	Type/Typ	Default/Standard	Description
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the machine.
additionalhydraulics	string		Free text describing additional hydraulics of the lifting mast
capacity	int	0	The lifting capacity of the device
closedheight	int	0	The closed height of the lifting mast
condition	int	4	The condition of the machine according to <a href="#">Appendix B</a> . Defaults to "4".
custprice	int	0	The end user price for the machine in your selected import-currency
dealerprice	int	0	The dealer price for the machine in your selected import-currency
forkcarriagewidth	int	0	The width of the fork carriage
freelift	int	0	The free lift of the lifting mast
image	string		URL to an image for the machine. The attribute 'pos' is mandatory and gives the position of the image in the machines detail view. 'pos' has to be a number unique to the machine. If you have special characters in the URL, make sure to properly URL-encode them.
imagelist	string		This is a comma-separated list of image-URLs. You can give multiple URLs here and they are separately processed. This tag is only in effect if there are no <image> tags for the machine. Special characters have to be properly URL-encoded!
intprice	Int	0	Your internal price, only visible to you
intremarks	string	"	Remarks visible just to you.
liftingheight	int	0	The lifting height of the lifting mast
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int	0	The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
masttype	int	0	The mast type. See <a href="#">Appendix D</a> for valid values.
model	string	"	The model type of the machine
optcond	int	6	The optical condition of the machine. See <a href="#">Appendix K</a> for values, defaults to "very bad".
remarks	string	"	Remarks visible to dealers
techcond	int	6	The technical condition of the machine. See <a href="#">Appendix K</a> for values, defaults to "very bad".
userremarks	string	"	Remarks visible to end users
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
yturl	string		A embed-URL to a YouTube-video for this machine

## Batteries

Tag	Type/Typ	Default/Standard	Description
batterytype	int	X	The type of battery. See <a href="#">Appendix A</a> for possible values.
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the part.
addequip	string	"	Additional equipment of the machine
capacity	int	0	The battery capacity in Ah.
custprice	int	0	The end user price for the machine in your selected import-currency
dealerprice	int	0	The dealer price for the machine in your selected import-currency
height	int	0	The height of the part
intprice	int	0	Your internal price, visible only to you
intremarks	string	"	Remarks visible just to you.
layout	string	"	The Battery-layout. If entered shown instead of length/width/height
length	int	0	The length of the part
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int		The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
model	string	"	The model type of the part
new	int	0	New battery/charger – set to 1, used battery/charger – set to 0
prepdate	string	'1970-01-01'	The preparation date of the battery in ISO-notation (YYYY-MM-DD)
remarks	string	"	Remarks visible to dealers
remcap	int	0	The remaining capacity of the battery, 0=unknown
serial	string	"	The serialnumber
trough	string	"	Description of the battery trough.
userremarks	string	"	Remarks visible to end users
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
voltage	int	48	The voltage of the battery. See <a href="#">Appendix G</a> for possible values
warranty	string	"	The warranty of the battery or charger
weight	int	0	The weight of the part
width	int	0	The width of the part
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string	"	A embed-URL to a YouTube video for this machine

## Chargers

Tag	Type/Typ	Default/Standard	Description
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
loadertype	int	X	The type of loader. See <a href="#">Appendix A</a> for valid values.
manufacturer	string	X	The manufacturer name of the part.
ac	string	"	AC input voltages as string separate with ' '
addequip	string	"	Additional equipment of the machine
current	int	0	The max. loading current in A.
custprice	int	0	The end user price for the machine in your selected import-currency
dealerprice	int	0	The dealer price for the machine in your selected import-currency
intprice	int	0	Your internal price, visible only to you
intremarks	string	"	Remarks visible just to you.
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int		The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
model	string	"	The model type of the part
new	int	0	New battery/charger – set to 1, used battery/charger – set to 0
remarks	string	"	Remarks visible to dealers
serial	string	"	The serialnumber
userremarks	string	"	Remarks visible to end users
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
voltage	string	48	The DC-voltage(s) of the loader. If multiple voltages are supported, please enter a string like "12   24"
warranty	string	"	The warranty of the battery or charger
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string	"	A embed-URL to a YouTube video for this machine



## Spare parts

Tag	Type/Typ	Default/Standard	Description
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the part.
condition	int	4	Condition of the spare part. See <a href="#">Appendix B</a> for conditions. Defaults to „normal“
custprice	int	0	The end user price for the machine in your selected import-currency
dealerprice	int	0	The dealer price for the machine in your selected import-currency
description	string	“	Description of the spare part
intprice	int	0	Your internal price, visible only to you
intremarks	string	"	Remarks visible just to you.
listprice	int	0	The list-price of the part
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int	0	The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
mfgnr	string	“	The manufacturer number
partid	string	“	The Spare part ID
remarks	string	"	Remarks visible to dealers
sparetype	string	'others'	The type of sparepart. See <a href="#">Appendix A</a> for valid values, defaults to 'others'
userremarks	string	"	Remarks visible to end users
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users

## Construction Equipment

Tag	Type/Typ	Default/Standard	Description
enginetype	int	X	The engine type of themachine. See <a href="#">Appendix C</a> for possible values.
internalno	string	X	A unique string for you to identify a machine. Don't use special characters like space, %, ?, /, \ etc. because this identifier is also used to attach images to a machine.
manufacturer	string	X	The manufacturer name of the machine.
toc	int	X	The type of construction. See <a href="#">Appendix A</a> for possible values.
addequip	string	"	Additional equipment of the machine
attachments	string	"	Attachments of the machine
auctionend	datetime	"	If the machine is in an auction, this is the end datetime of the auction. Auctions are described in <a href="#">Appendix L</a> .
auctionurl	string	"	The URL of the auction. This links to an external auction-site. The URL has to be properly URL-encoded. Auctions are described in <a href="#">Appendix L</a> .
available	string	"	The availability as a string
chassisno	string	"	The chassis (serial-) number of the machine
condition	int	4	The condition of the machine. See <a href="#">Appendix B</a> for possible values.
curbweight	int	0	The curb weight of the machine
custprice	int	0	The end user price for the machine in your selected import-currency
dealerprice	int	0	The dealer price for the machine in your selected import-currency
deliverycond	string	"	The delivery conditions of the machine. Freetext field
demo	int	0	Set to 1 if this is an intranet demonstration machine. Only shown in intranet and is not meant to be sold but rented for demonstration purposes
expmascus	int	0	1 if the machine should be exported to Mascus, 0 if not. Note that you have to add this option to your contract.
height	int	0	The height of the machine
hinges	string	"	The hinges of the machine
hours	Int	0	The machine's running-hours
image	string		URL to an image for the machine. The attribute 'pos' is mandatory and gives the position of the image in the machines detail view. 'pos' has to be a number unique to the machine. If you have special characters in the URL, make sure to properly URL-encode them.
imagelist	string		This is a comma-separated list of image-URLs. You can give multiple URLs here and they are separately processed. This tag is only in effect if there are no <image> tags for the machine. Special characters have to be properly URL-encoded!
intprice	int	0	Your internal price of the machine (only visible to you!)
intranetprice	int	0	The price for the machine in the intranet area your selected import-currency
intraremarks	string	"	Remarks visible in the Intranet-area.
intremarks	string	"	Remarks visible just to you.
lastservice	date	"	Date of the last service the machine has had. Format is YYYY-MM-DD.
length	int	0	The length of the machine
loccity	string		The city where the machine is located. Defaults to the user accounts city.
loccountry	int		The coded country where the machine is located. This defaults to the country of the user account. For the codes see <a href="#">Appendix H</a> .
locked	int	0	If set to 1 the machine is ignored at import. This field is normally only used by the Forklift exporter for backup purposes. Manually locked machines in Forklift cannot be deleted or updated by the XML interface.

Tag	Type/Typ	Default/Standard	Description
locpostcode	string		The postcode where the machine is located. Defaults to the user accounts postcode.
model	string	"	The model type of the machine
opweight	int	0	The operation weight of the machine.
power	string	"	The engine power of the machine. Please enter the units additionally (e.g. „100 hp“)
remarks	string	"	Remarks visible to dealers
rental	int	0	Set to 1 if the machine is a rental machine
rentprice	int	0	The minimum daily rental price of the machine
transportdim	string	"	Freetext for the transport dimensions of the Machine (add units by yourself).
userremarks	string	"	Remarks visible to end users
viewauction	int	0	Set to 1 if the machine should be visible as auction-machine. Auctions are described in <a href="#">Appendix L</a> .
viewforklift	int	0	Set to 1 if the machine should be visible in FORKLIFT to dealers
viewintrarent	int	0	Set to 1 if the machine should be visible in the Intranet rental-machine area.
viewintraused	int	0	Set to 1 if the machine should be visible in the Intranet used-machine area.
viewuser	int	0	Set to 1 if the machine should be visible in FORKLIFT to end users
weight	int	0	The maximum allowed weight of the machine
width	int	0	The width of the machine
yoc	int	0	The year of construction. Use 0 for unknown.
yturl	string	"	A embed-URL to a YouTube video for this machine

## Crane fields

The following fields only apply to cranes (toc-types 33, 34, 35, 36, 37, 38, 39, 40, 41):

Tag	Type/Typ	Default/Standard	Description
boomlength	int	0	The length of the boom
boomtype	int	0	The boom type. See <a href="#">Appendix N</a> for possible values. Defaults to „other“
capboomend	int	0	The maximum lifting capacity at boom end
cbweight	int	0	The weight of the cranes counterbalance in applicable
cranetype	int	0	The crane type. See <a href="#">Appendix O</a> for possible values. Defaults to „other“
jib	int	0	The folding/rocker jib length
liftingheight	int	0	The lifting height of the crane
loadcapacity	int	0	The maximum load capacity of the crane

## Appendix A - Types of construction

Following find the values of the various types of construction. These are sorted by the types of machines.

### Forklifts

Value/Wert	Description	Beschreibung
0	Other	Sonstige
1	Rough-terrain-forklift	Geländestapler
2	Container-Stacker	Containerstapler
4	Reach-stacker	Reach-Stacker
6	Terminal tractor	Terminaltraktor
7	Tractor	Schlepper
8	Trailer	Anhänger
9	Electric platform trucks	Elektro-Plattformwagen
11	Electric 3-wheel	Elektro 3-Rad
12	Electric 4-wheel	Elektro 4-Rad
13	Diesel Forklift	Dieselstapler
14	Compact Forklift Truck	Kompaktstapler
15	LPG Forklift	Treibgasstapler
16	Pallet truck	Niederhubwagen
17	Pallet Trucks Sit-down	Niederhubwagen-Sitz
18	Scissor elevating truck platform	Scherenhubwagen
19	Lift trucks with scales	Hubwagen mit Waage
20	Hand pallet truck	Handhubwagen
21	Horizontal order picker	Horizontalkommissionierer
22	Vertical order picker	Vertikalkommissionierer
23	Vertical order picker	Vertikalkommissionierer
24	High-lift pallet truck	Hochhubwagen
25	Stacker stand-on	Fahrerstandstapler
26	High lift pallet trucks sit-down	Hochhubwagen Sitz
27	Reach truck	Schubmaststapler
28	Narrow aisle truck	Schmalgangstapler
30	Telescopic forklift, fixed	Teleskopstapler starr
31	Telescopic forklift, rotating	Teleskopstapler, drehbar
32	Four-way loader	Vierwegestapler
33	Four-way reachtruck	Vierwege-Schubmaststapler
34	Sideloader	Seitenstapler
35	Truck mounted forklift	Mitnehmstapler
36	Tugger-train-trailer	Routenzuganhänger
37	CNG-Forklift	Erdgasstapler
38	Gasoline-Forklift	Benzinstapler
39	Electric stairclimber	Treppensteiger elektrisch
40	Counterbalance forklift (see Appendix M)	Gegengewichtstapler (siehe Angang M)

## Attachments

Value/Wert	Description	Beschreibung
1	Load-push-unit	Abschieber
2	Bale clamps	Ballenklammer
3	Bale clamps, 360° rotating	Ballenklammer, drehbar
4	Pulp bale clamps, 360° rotating	Zelluloseklammer, drehbar
5	Box discharge unit	Behälter-Entleergerät
6	Multi-pallet handler 2/1 profile type	Doppelpalettenklammer
7	Pole tine clamps	Dornklammer
8	Two-way fork clamps	Drehgabelklammer
9	Two-way fork clamps, 360° rotating	Drehgabelklammer, drehbar
10	Rotators, 360°	Drehgerät
11	Rotators, 360° with bolt-on forks	Drehgerät mit Anschraubzinken
12	Discharge unit	Entleergerät
13	Rotating jaw clamps	Faßkipplammer
14	Drum clamps	Faßklammer
15	Drum clamps, 360° rotating	Faßklammer, drehbar
16	Harbour clamps	Hafenklammer
17	Appliance clamps, circulating arms	Kartonklammer, Arm pendelnd
18	Appliance clamps, rigid arms	Kartonklammer, Arm starr
19	Fork clamps	Klammergebel
20	Fork clamps, 360° rotating	Klammergebel, drehbar
21	Load push-pulls	Klemmschieber
22	Jib crane	Kranarm
23	Load stabilizers	Lasthalter
24	Multi-pallet handlers 2/1	Mehrpalettengabel 2/1
25	Pallet-handlers with load extender	Mehrpalettengabel mit Vorschub
26	Multi-pallet handlers 2/1 profile type	Mehrpalettengabel 2/1 Profil
27	Multi-pallet handlers 3/2/1	Mehrpalettengabel 3/2/1
28	Multi-pallet handlers 4	Mehrpalettengabel 4
29	Multi-pallet handlers 4/2	Mehrpalettengabel 4/2
30	Multi-pallet handlers 6/4	Mehrpalettengabel 6/4
31	Pallet inverters, 360° rotating	Palettenwendegerät
32	Load extenders	Pantograph
33	Paper roll clamps, 360° rotating	Papierrollenklammer, 360° drehbar
34	Paper roll clamps, 180° rotating	Papierrollenklammer, 180° drehbar
35	Paper roll clamps, 360° rotating arm	Papierrollenklammer, 360° drehbar, geteilter Arm
36	Paper roll clamps, 180° rotating arm	Papierrollenklammer, 180° drehbar, geteilter Arm
37	Roll upender, 90°	Papierrollenklammer, Kippklammer 90°
38	Roll upender, 90° with 360° rotating	Papierrollenklammer, Kippklammer 90°, drehbar

Value/Wert	Description	Beschreibung
39	Tyre clamps, 360° rotating	Reifenklammer
40	Foam clamps	Schaumstoffklammer
41	Hose reels/Support flex	Schlauchrolle/-umlenkung
42	Hydraulic scoops	Schüttgutschaufel
43	Sideshifts	Seitenschieber
44	Sideshifts, dual	Seitenschieber zweifach
45	Sideshifts, triple	Seitenschieber dreifach
46	Tri-lateral heads shaft-driven	Seitenschubgerät achsengeführt
47	Tri-lateral heads, rack-and-pinion driven	Seitenschubgerät zahnstangengeführt
48	Brick and block clamps	Steinklammer
49	Tobacco clamps	Tabakklammer
50	Tissue roll clamps, 360° rotating	Tissue-Klammer, 360° drehbar
51	Carpet boom	Teppichdorn
52	Load extenders	Vorschubgabelträger
53	Pulp bale clamps, rigid arms	Zelluloseklammer, Arm starr
54	Pulp bale clamps, articulating arm	Zelluloseklammer, Arm pendelnd
55	Fork positioners, 360° rotating	Zinkenverstellgerät, drehbar
56	Fork positioners, profile guided	Zinkenverstellgerät profilgeführt
57	Fork positioners, shaft guided	Zinkenverstellgerät achsengeführt
58	Other	Sonstiges
59	Snow pusher	Schneeschieber
60	Round timber gripper	Rundholzzange
61	Fork positioners	Zinkenverstellgerät
62	Tine adjustment equipment with sideshift	Zinkenverstellgerät mit Seitenschub
63	Push-out forks	Ausschubgabel
64	Bale tongs with sideshift	Ballenklammer mit Seitenschub
65	Reel clamp, swivelling	Rollenklammer drehbar
66	Tilting device with shovels	Kippvorrichtung mit Schaufeln
67	Double reel turning and clamping equipment	Doppelrolle - Drehklemmgerät
68	Attachment clamp	Gerätekammer
69	Hydraulic rope hoist	Hydraulische Seilwinde
70	Telescope fork tine	Teleskopgabelzinken
71	Accessories	Zubehör
72	Forks	Gabeln
73	Barrel lifter	Faßlifter
74	Load guard grill	Lastschutzgitter
75	Persons basket	Personenkorb
76	Telescopic crane	Teleskopkranhaken
77	Fork extension	Gabelverlängerung
78	Pouch lifter	Sacklifter
79	Sweeping machine	Kehrmaschine

Value/Wert	Description	Beschreibung
80	Pipe clamp	Rohrklammer
81	Clamp for cement pipes	Klammer für Zementrohre
82	Container Spreader	Container Spreader
83	Piggyback Spreader	Piggyback Spreader
84	Lift Truck Scales	Wiegegabeln

### ***Aerial equipment***

Value/Wert	Description	Beschreibung
1	Other	Sonstige
2	Trailed platform	Anhängebühne
3	Telescope platform	Teleskopbühne
4	Vertical/Personnel platform	Senkrechthebebühne/Personenlift
5	Articulated work platform	Gelenkarbeitsbühne
6	Scissors Lift	Scherenarbeitsbühne
7	Truck mounted platform	LKW-Bühne
8	Special device	Spezialgerät
9	Spider work platform	Spinnenarbeitsbühne

### ***Cleaning technology***

Value/Wert	Description	Beschreibung
1	Other	Sonstige
2	Pedestrian sweeper	Kehrmaschine
3	Pedestrian vacuum sweeper	Kehrsaugmaschine
4	Pedestrian scrubber dryer	Naßschrubbautomat
5	Street cleaning machine	Straßenreinigungsmaschine
6	Pressure washer	Hochdruckreiniger
7	Pedestrian scrubber/dryer	Scheuersaugmaschine
8	Ride On Scrubber Dryer	Aufsitz-Naßschrubbautomat
9	Ride On Sweeper	Aufsitz-Kehrmaschine
10	Ride On Vacuum Sweeper	Aufsitz-Kehrsaugmaschine
11	Steam Machine	Dampfreiniger
12	Vacuum Cleaner	Industriesauger
13	Escalator Cleaner	Rolltreppenreinigungsmaschine
14	Single Disc Machine	Einscheibenmaschine
15	Carpet Cleaner	Teppichreiniger
16	Riding scrubber dryer	Aufsitz-Scheuersaugmaschine

### ***Batteries***

Value/Wert	Description	Beschreibung
1	none (only valid in Forklifts)	keine (nur zulässig bei Staplern)
2	PzS	PzS
3	Gel	Gel

Value/Wert	Description	Beschreibung
4	Lithium-Ion	Lithium-Ionen
5	Starter	Starter
6	Waterless	Waterless
7	Thin Plate Pure Lead	Dünne Blei-Kohlenstoff-Platte
8	NiMH	NiMH
9	Battery others	Sonstige Batterie

## ***Chargers***

Value/Wert	Description	Beschreibung
1	Single-phase	Einphasig
2	Triple-phase	Dreiphasig
3	HF	HF
4	Modular	Modular
5	Opportunity	Opportunity
6	Li-Ferro	Lithium-Eisenphosphat
7	SCR	SCR Gleichrichter
8	Charger others	Sonstiges Ladegerät

## ***Construction equipment***

Value/Wert	Description	Beschreibung
2	Hydraulic Excavators	Kettenbagger
3	Wheel Excavator	Mobilbagger
4	Mini Excavator	Minibagger
5	Demolition Excavator	Abbruchbagger
6	Rehandling Excavator	Umschlagbagger
7	Dragline Excavator	Seilbagger
8	Road Rail Excavator	Zweiwegebagger
10	Wheel Loader	Radlader
11	Compact Loader	Kompaktlader
12	Material Handling Loader	Materialumschlaglader
14	Rigid Backhoe Loader	Starrer Baggerlader
15	Articulated Backhoe Loader	Knick-Baggerlader
16	Mini Backhoe Loader	Kompakt-Baggerlader
18	Bulldozer	Planierraupe
19	Crawler Loader	Laderaupe
20	Pipelaying Caterpillar	Rohrlegeraupe
21	Weld Bead	Schweißraupe
23	Grader	Grader
24	Self-Powered Scraper	Schürfzug/Scraper
25	Trailed Scraper	Schürfwagen
26	Scrapedozer	Schürfkübelraupe
28	Articulated Dump Truck	Knickgelenkte Muldenkipper/Dumper



Value/Wert	Description	Beschreibung
29	Rigid Dump Truck	Dumper
30	Mini Dumper	Minidumper
31	Tracked Dumper	Raupendumper
33	Mobile Crane	Mobilkran
34	Truck Crane	Autokran
35	Crawler Crane	Raupenkran
36	Tower Crane	Obendrehkran
37	Self-Erecting Crane	Schnellmontagekran
38	Mobile Construction Crane	Mobilbaukran
39	Dockside Crane	Hafenkran
40	Mini Crane	Minikran
41	Auxiliary Crane	Ladekran
43	Single Drum Compactor	Walzenzug
44	Asphalt Compactor (Tandem)	Tandemwalze
45	Combi Roller	Kombiwalze
46	Pneumatic Compactor	Gummiradwalze
47	Sheepsfoot Roller	Schafffußwalze
48	Landfill Compactor	Müllverdichter
49	Towed Roller	Anhängewalze
51	Truck Mixer	Fahrmischer
52	Concrete Screw Conveyor	Bandförderer
53	Truck Concrete Pump	Autobetonpumpe
54	Concrete Pump	Anhängebetonpumpe
56	Wheeled Paver	Radfertiger
57	Tracked Paver	Raupenfertiger
58	Asphalt Planer	Kaltfräse
59	Surface Miner	Surface Miner
60	Asphalt Recycler	Asphaltrecycler
61	Soil Stabilizer	Bodenstabilisierer
62	Cold Recycler	Kaltrecycler
63	Hot Recycler	Heißrecycler
64	Slipform Paver	Gleitschalungsfertiger
65	Gritter	Streuwagen
67	Drilling machine	Drehbohrgerät
68	Anchor Drill Rig	Ankerbohrgerät
69	Drill Rig	Brunnenbohrgerät
70	Blasthole Drill	Sprenglochbohrgerät
71	Trench Cutter	Schlitzwandfräse
72	Diphragm Grab Wall	Schlitzwandgreifer
73	Depth Vibrator	Tiefenrüttler
74	Chain Trencher	Grabenfräse
76	Universal Pilling Rig	Mäklgerät

Value/Wert	Description	Beschreibung
77	Piling Hammer	Rammhammer
79	Drilling	Bohrwagen
80	Tunnel Dumper	Tunneldumper
81	Tunnel Loader	Tunnellader
82	Tunnel Excavator	Tunnelbagger
83	Spray Concrete Pump	Spritzbetonpumpe
84	Tunnel Truck Mixer	Tunnelfahrmischer
85	Tunneling Shield	Vortriebsschild
86	Roadheader	Teilschnittmaschine
88	Mining Excavator	Hochlöffelbagger
89	Mining Dumper	Miningdumper
91	Others	Sonstige
93	Attachments	Anbaugeräte
94	Power Generator	Stromgenerator
95	Pile driving	Rammtechnik
96	Compressor	Kompressor
98	Trailer	Anhänger
100	Truck	Lastkraftwagen
101	Plate Compactor	Rüttelplatte
102	Ramps	Rampen

### ***Spare parts***

Value/Wert	Description	Beschreibung
batteryindicator	Battery indicator	Batterieanzeige
board	Board	Platine
cable	Cable	Kabel
cap	Cap	Kappe
chassispart	Chassis part	Fahrgestellteil
control	Control	Steuerung
cover	Cover	Abdeckung
cylinder	Cylinder	Zylinder
driveengine	Drive engine	Fahrmotor
drivetrain	Drive train	Antriebsstrang
harness	Wiring harness	Kabelbaum
hydraulics	Hydraulics	Hydraulik
magneticbrake	Magnetic brake	Magnetbremse
motorcontrol	Motor control	Motorsteuerung
others	Others	Sonstige
powertrain	Powertrain	Antriebsmotor
pumpengine	Pump engine	Pumpenmotor
relay	Relay	Relais
seat	Forklift seat	Gabelstaplersitz

Value/Wert	Description	Beschreibung
steeringcolumn	Steering column	Lenksäule
steeringmotor	Steering motor	Lenkhilfsmotor
supportwheel	Support wheel	Stützrad
tube	Tube	Schlauch
tyres	Tyres	Reifen
valveblock	Valve block	Ventilblock

## Appendix B - Conditions

Here are the values for the different conditions:

Value/ Wert	Description	Beschreibung
2	Very good	Sehr gut
3	Good	Gut
4	Used	Gebraucht
5	Bad	Schlecht
6	Very bad	Sehr schlecht
7	New	Neu

## Appendix C - Engine Types

Here are the values for the different engine types:

Value/ Wert	Description	Beschreibung
1	Electric	Elektro
2	Diesel	Diesel
3	LPG	Treibgas
4	manual/none	Hand/keiner
5	Gasoline	Benzin
6	Natural gas (CNG)	Erdgas
7	Hybrid	Hybrid
8	Li-Ion	Li-Ion
9	Fuel-Cell	Brennstoffzelle

## Appendix D - Mast types

Here are the values for the different mast types:

Value/ Wert	Description	Beschreibung
0	none	Keiner
1	Standard	Standard
2	Mono	Mono
3	Duplex	Duplex
5	Triplex	Triplex
8	Quattro	Quattro
9	Telescope	Teleskop

## Appendix E – Tyres

Here are the values for the different tyre types:

Value/ Wert	Description	Beschreibung
0	Unknown	Unbekannt
1	Cushion	Bandagen-Reifen
2	Pneumatic	Luft-Reifen
3	Polyurethane	Polyurethan
4	Superelastic	Superelastik
5	Solid	Vollgummi
6	Vulkollan	Vulkollan

## Appendix F – Warranty

Here are the values for the different warranty durations:

Value/ Wert	Description	Beschreibung
0	None	keine
1	3 months	3 Monate
2	6 months	6 Monate
3	12 months	12 Monate
4	18 months	18 Monate
5	24 months	24 Monate
6	1 month	1 Monat
7	36 months	36 Monate
8	48 months	48 Monate
9	60 months	60 Monate
10	72 months	72 Monate



## Appendix G - Voltages

Here are the allowed values for the voltages:

Value/Wert
6
8
12
24
36
48
72
80
90
96
120

## Appendix H - Countries

Here are the possible values for the countries.

Value/ Wert	Country	Land
1	Germany	Deutschland
2	Austria	Österreich
3	Denmark	Dänemark
4	Netherlands	Niederlande
5	Latvia	Lettland
6	Poland	Polen
7	Belgium	Belgien
8	Czech Republic	Tschechien
9	Luxembourg	Luxemburg
10	Spain	Spanien
11	France	Frankreich
12	Switzerland	Schweiz
13	Slowenia	Slowenien
14	Russia	Russland
15	Bulgaria	Bulgarien
16	Greece	Griechenland
17	Iran	Iran
18	Italy	Italien
19	Lituania	Litauen
20	Great Britain	Großbritannien
21	Ireland	Irland
22	Hungary	Ungarn
23	Estonia	Estland
24	Portugal	Portugal
25	Slovakia	Slowakei
26	Sweden	Schweden
27	Norway	Norwegen
29	Finland	Finnland
31	Belarus	Weißrussland
32	Ukraine	Ukraine
33	Moldavia	Moldawien
34	Uzbekistan	Usbekistan
35	Croatia	Kroatien
36	Egypt	Ägypten
37	Albania	Albanien
38	Algeria	Algerien
39	Angola	Angola

Value/ Wert	Country	Land
40	Bahrain	Bahrain
41	Bosnia and Herzegovina	Bosnien und Herzegowina
42	Chile	Chile
43	Eritrea	Eritrea
44	Falkland Islands	Falklandinseln
45	Fiji	Fidschi
46	French Guiana	Französisch-Guayana
47	Iceland	Island
48	Israel	Israel
49	Japan	Japan
50	Jordan	Jordanien
51	Canada	Kanada
52	Qatar	Katar
53	Colombia	Kolumbien
54	South Korea	Südkorea
55	Kuwait	Kuwait
56	Lebanon	Libanon
57	Malta	Malta
58	Morocco	Marokko
59	Macedonia	Mazedonien
60	Montenegro	Montenegro
61	Turkey	Türkei
62	Oman	Oman
63	Romania	Rumänien
64	Saudi Arabia	Saudi-Arabien
65	Serbia	Serbien
66	South Africa	Südafrika
67	Syria	Syrien
68	Taiwan	Taiwan
69	Tunisia	Tunesien
70	USA	USA
71	Vanuatu	Vanuatu
72	UAE	VAE
73	Cyprus	Zypern
74	Australia	Australien
75	Bangladesh	Bangladesch
76	India	Indien
77	Indonesia	Indonesien
78	Malaysia	Malaysia
79	Phillipines	Philippinen
80	Singapore	Singapur

Value/ Wert	Country	Land
81	Thailand	Thailand
82	Vietnam	Vietnam
83	China	China
84	Argentina	Argentinien
85	Azerbaijan	Aserbajdschan
86	Botswana	Botswana
87	Brazil	Brasilien
88	Mozambique	Mosambik
89	Namibia	Namibia
90	Swaziland	Swasiland
91	Martinique	Martinique
92	Venezuela	Venezuela
93	Peru	Peru
94	New Zealand	Neuseeland
95	Mexico	Mexiko
96	Guyana	Guyana
97	Guadeloupe	Guadeloupe
98	Ecuador	Ecuador
99	Andorra	Andorra
100	Mali	Mali
101	Kazakhstan	Kasachstan
102	Congo	Kongo
103	Nigeria	Nigeria
104	Paraguay	Paraguay
105	Uruguay	Uruguay
106	Kenya	Kenia
107	Guatemala	Guatemala
108	Panama	Panama
109	Costa Rica	Costa Rica
110	Hongkong	Hongkong
111	Senegal	Senegal
112	Ivory Coast	Elfenbeinküste
113	Cameroon	Kamerun
114	Georgia	Georgien
115	Ghana	Ghana
116	Kosovo	Kosovo
117	Pakistan	Pakistan
118	Afghanistan	Afghanistan
119	Antigua and Barbuda	Antigua und Barbuda
120	Anguilla	Anguilla
121	Armenia	Armenien

Value/ Wert	Country	Land
122	American Samoa	Amerikanisch-Samoa
123	Aruba	Aruba
124	Åland	Åland
125	Barbados	Barbados
126	Burkina Faso	Burkina Faso
127	Burundi	Burundi
128	Benin	Benin
129	Bermuda	Bermuda
130	Brunei	Brunei
131	Bolivia	Bolivien
132	Bonaire	Bonaire
133	Bahamas	Bahamas

## Appendix I - Additional Equipment/

FORKLIFT does have some special fields for the most common additional equipments. These entries are automatically translated on the website and dealers can search for them. This field can appear several times, see example.

Bitvalue/ Bitwert	Description	Beschreibung
0	3rd valve	3. Ventil
1	4th valve	4. Ventil
2	Spotlight rear	Arbeitsscheinwerfer hinten
3	Spotlight front	Arbeitsscheinwerfer vorne
4	Overhead Guard	Dachabdeckung
5	Front pane	Frontscheibe
6	Weatherproof cover	Halbkabine
7	Heater	Heizung
8	Load guard grill	Lastschutzgitter
9	Solenoid valve	Magnetventil
10	Oil separator	Ölabscheider
11	Diesel Particle Filter	Rußfilter
12	Road traffic regulation	STVZO Zulassung
13	Weatherproof cabin	Vollkabine
14	explosion-proof	Explosionsgeschützt
15	Pulse control	Impulssteuerung
16	Initial stroke	Initialhub
17	Air-condition	Klimaanlage
18	Full free-lift	Vollfreihub
19	CE certificate	CE Zertifikat
20	Special Trucks	Sonderbau
21	Stainless Steel	Edelstahl
22	Cold Store	Kühlhaus
23	Scales	Waage
24	Twin Tires	Zwillingsbereifung
25	Safety Light	Safety Light
26	Safety Pilot	Safety Pilot
27	Non-marking Tires	Nicht-kreidende Bereifung
28	Lithium-Ion technology	Lithium-Ionen Technologie
29	Double-deck loading	Doppelstockbeladung
30	Self-driving	Selbstfahrend
31	Rear view mirror	Innenspiegel
32	Side mirror(s)	Außenspiegel
33	Joystick	Joystick
34	Beacon light	Rundumleuchte
35	Wipers	Scheibenwischer

Bitvalue/ Bitwert	Description	Beschreibung
36	Single pedal	Einpedal
37	Heated seat	Sitzheizung
38	LED	LED
39	Deep Reach	Pantograph
40	Wire Guidance	Induktiv Steuerung
41	Galvanized	Verzinkt
42	3-wheel	3-Rad
43	Seat	Sitz

The values you send in the XML are calculated as following. Note that there is only one „addeqbits“ entry per machine.

**Example:**

Machine with 3rd valve (0) and Air-condition (17):

$$2^0 + 2^{17} = 131073$$

The correct line would be:

```
<addeqbits>131073</addeqbits>
```

This applies to attachments (Appendix J) likewise.

In the ZIP-Archive you find small HTML-based tools to calculate bitvalues in both directions (for additional equipments and attachments as in Appendix J).

## Appendix J - Attachments

FORKLIFT also does have some special fields for the most common attachments. These are automatically translated on the website and dealers can search for them. This field can appear several times, see example.

Bitvalue/ Bitwert	Description	Beschreibung
0	Load push units	Abschieber
1	Double clamp	Doppelklammer
2	Sideshift, dual	Doppelseitenschieber
3	Rotators, 360°	Drehgerät
4	Triple pallet clamp	Dreifachklammer
5	Sideshift, triple	Dreifachseitenschieber
6	Drum clamp	Faßklammer
7	Fork extension	Gabelverlängerung
8	Fork clamps	Klammergabel
9	Load guard grill	Lastschutzgitter
10	Thrust fork	Schubgabel
11	Hydraulic scoops	Schüttgutschaufel
12	Sideshifts	Seitenschieber
13	Carrying mandrel	Tragedorn
14	Fork positioners	Zinkenverstellgerät
15	Double pallet clamp	Doppelpalettenklammer
16	Multi-pallet handler, 2/1 profile type	Doppelpalettengabel
17	Paper roll clamp	Pspierrollenklamme



## Appendix K – Tech. and Opt. Conditions

Here are the values for the different technical and optical conditions:

Value/ Wert	Description	Beschreibung
2	Very good	Sehr gut
3	Good	Gut
4	Normal	Normal
5	Bad	Schlecht
6	Very bad	Sehr schlecht
7	New	Neu

## Appendix L – Auctions

Auctions are a new format. To use them, you have to contact your sales representative to enable it for you. Auctions are only for certain type of machines, namely forklifts, cleaning machines, work platforms and construction equipment.

Every machine that is in an auction needs three additional fields:

- viewauction: set this to 1 to set the machine as an auction-machine
- auctionurl: URL to the machine on your auction-platform. In XML please take care that this is properly URL-encoded and XML-escaped
- auctionend: the end date- and time of the auction. After this is reached, the viewauction-flag is cleared. The format of this datetime is: "YYYY-MM-DD HH:MM:SS".

After an auction is finished, the machine visibility is set to the other given visibilities (be it forklift, rental, enduser). Note that „viewauction“ overrides all other visibilities, no prices will be shown when a machine is in auction-mode.

## **Appendix M – Counterbalance forklift**

This is a simplified TOC to handle generic forklift-TOCs easily. If TOC 40 is used, the real Type of construction is calculated using other values. In particular this is the engine type and some extra-fields like „3-wheel“. Use this to simplify integration if your software doesn't keep track of explicit construction-types.

## Appendix N – Boom types

Here are the values for the different boom types:

Value/ Wert	Description	Beschreibung
0	Other	Sonstige
1	Telescopic boom	Teleskopausleger
2	Lattice boom	Gitterausleger

## Appendix O – Crane types

Here are the values for the different crane types:

Value/ Wert	Description	Beschreibung
0	Other	Sonstige
1	Hydraulic boom	Hydraulikausleger
2	Fixed boom	Fester Ausleger
3	Length of luffing tip	Länge Wippspitze

# Forklift Auto-Upload-Tool

This interface uses the program cURL, whose license is found in the file curl.copying.txt. Curl is contained in this archive a 64-bit (curl-x64.exe) version for Windows. If you use Linux server-side, please use the binary of your distribution. Curl is contained in the package-management-systems of all major Linux-distributions (Redhat/Fedora, Debian, Ubuntu, Mint, Mandrake, SUSE/openSUSE, Slackware).

## Configuration:

The Upload-Tools are split in 10 different areas:

- global (common, see below)
- forklift (forklifts)
- att (attachments)
- clean (cleaning technology)
- mast (lifting masts)
- platform (work platforms)
- battery (batteries)
- charger (battery chargers)
- parts (spare parts)
- construction (construction machines)

Files exist as shell-scripts (Linux/OSX) and as Windows batchfiles (CMD). You can choose whether you upload your machine-data all at once or split into the different machine types.

## Images have to be uploaded for each machine type separately!

In the script-files you find the options to configure. Here enter your username on the second line and your upload-password in forklift-international.com on the third line. In the fourth line enter the filename (in upload.cmd the XML-filename, in imgupload.cmd the ZIP-filename with your images). By calling upload.cmd the update of your data is entered. Already existing images are reconnected to the machines according to their internalno. By calling imgupload.bat you can update or enter your machine images. This file just needs to contain the updated/new images, existing images are reused whenever possible.

Uploading images can take a lot of time, especially on ADSL-Lines (with a 6000 ADSL-Line you will be able to upload 2,5MB per minute, so keep your images small in resolution, 1920x1080 should be maximum). For initial loading or large uploads you can upload images in chunks, e.g. 1 upload for the first 50 or so images, then the next and so on. Please keep in mind, that the "old" Package has to be processed first and that the Filesize of the ZIP-file is limited to 500MB. Forklift will keep the already uploaded images.

**There is a special version of the global upload-tool where the images are sent as URLs, see the file xmlimagedemo.xml and the appropriate upload-scripts in the uploadtool/global-folder.**

Bottom line: Either use uploading with the xmlimageupload file OR use the standard-import with separate imageupload.

## Data Upload

You have different possibilities to upload your data.

- General Upload: Uploads your Forklift, Attachments, Cleaning machines, Access platforms, lifting masts and construction equipment in one step.
- Forklift only
- Attachments only
- Cleaning Machines only
- Access platforms only
- Lifting masts only
- Battery only
- Chargers only
- Spare parts only
- Construction Equipment only

You get examples for automated uploading in the Auto-Upload-Tool archive.

[Download Auto-Upload-Tool and Description.](#)

## Image Upload

To keep the upload of images simple, you have to follow a few steps.

1. The Images have to be in separate ZIP-files according to the machine type (Forklifts, Aerial Equipment, Cleaning Technology, Attachments, Lifting Masts)
2. The images have to be in the root-folder of the ZIP-File, Subdirectories won't work.
3. The image-name have to follow the following conventions: `internalno-imageno.jpg`
4. The image-number is a number from 1 to 20 (no leading zeroes!)
5. Internal Numbers shall not contain spaces or forward- or backward slashes (no / or \), and no special characters. They are case-sensitive.
6. Uploaded Images stay on the server as long as the machine does, you don't need to re-upload images that are already in the system.
7. To update images, the new image has to have a file date newer than the original file.

The images are placed in a queue. Processing takes place almost instantly, keep in mind that there might be other image uploads pending ahead of yours (first come, first serve). File size is restricted to 1GB.

Statuscode	Description	Body-Answer
200	OK	„Queued“
401	Your login credentials are wrong, please check	Standard output of server
405	Method not allowed. You have to use HTTP POST to upload.	„Method not allowed“
415	Unsupported media-type. You didn't upload a file or file is not a ZIP-file.	„Filetype unsupported“
423	Locked. There is another import running at the moment. This other import can be either a Data- or an Image-Import.	„Another import running!“

The status is also returned as a JSON-Object.

```
{ "status": "ok"|"error",  
  "message": "queued",  
  "queueid": 4534  
}
```

status can be “ok” or “error”. The message is a textual message describing the result (queued or the error that occurred). If status is ok, you also get a queueid which will help you with further processing as described in the next chapter.



## JSON interface

There are 2 further endpoints that help you with your workflow. Calling convention is like the usual interface, you have to connect using HTTP Basic authentication. These endpoints are rate-limited, maximum rate is 6 requests per minute.

### ***GET /getimagestats.php?id=xxx***

This endpoint retrieves the state of a queued imageupload. xxx is the queueid that was returned when uploading. The result is:

```
{
  "status": "string",
  "message": "string",
  "success": integer,
  "errors": integer,
  „errorlist“: "string"
}
```

Field/Feld	Description
status	Can be ok or error.
message	Returns the description of the status. If status is ok, it is always „done“. If status is „error“, it describes the reason (inqueue = processing is queued, invalid = queueid doesn't exist for that user, ratelimit = ratelimit exceeded)
success	If status is ok, reports the number of successful inserted images.
errors	If status is ok, reports the number of incorrect images (either file is not JPEG or internal number invalid).
errorlist	Returns faulty file name

### ***GET /lockstatus.php***

Returns the lockstatus of the account.

```
{
  "status": "string",
  "reason": "string"
}
```

Field/Feld	Description
status	Can be free, locked or error.
reason	Returns the specific reason if status.is not free.

## XML Export

You also have the opportunity to get an XML export-file with all your machines. You can use this file for an offline-backup of your data or to import the data in your own website.

Note that images are NOT exported. However there are <image>-tags in the XML-File that point to the URL of your images (these tags are silently ignored when re-importing the file, except for the special `xmlimageupload-script`. Note that these images might get mixed up when importing them directly from the forklift-server).

Find an example curl-script in the `uploadtool/global-directory` to see how it works.

## Units

In Forklift you can select different units that is shown to you and used when you enter machine data.  
You cannot mix them! Here they are:

Type/Typ	Metric/Metrisch	Angloamerican/Angloamerikanisch
Length/Länge	mm (Millimeters/Millimeter)	in (Inch/Zoll)
Weight/Gewicht	kg (Kilogram/Kilogramm)	lb (Pound/Pfund)
Area/Fläche	m <sup>2</sup> (Square meter/Quadratmeter)	sqft (Square foot/Quadratfuß)
Volumina/Volumen	l (Litre/Liter)	gal (US-gallon/US-GAllone)