

BSH Home Appliances Group

B/S/H/

Tool Report Training Documentation

2019-07-29

Announcement letter | proposal

proposal how to inform the supplier upfront about the future tool report process

Dear supplier,

We would like to inform you that BSH has decided to introduce a new document in the wake of sourcing / transferring BSH owned tools and equipment.

With each new / transferred tool or equipment you will receive a "tool report" we ask you to fill and send back to BSH.

The document contains sections for commercial and technical information, pictures (especially from the tool marking as BSH property) and the acceptance of the BSH tool rental / loan frame contract (if already concluded between you and BSH) for the tool / equipment in scope.

Until the conclusion of the tool rental / loan frame contract the single rental / loan contract has to be signed per tool / equipment.

To ease the processing local language versions are available through a dropdown selection. In any case make sure that the information put in by you are in English language.

Please be informed that the complete and correct filling of the tool report is a prerequisite to releasing the final payment for the tool / equipment.

Sincerely
BSH Purchasing

Sehr geehrter Lieferant,

wir möchten Sie darüber informieren, dass die BSH im Rahmen des Beschaffungs- und Verlagerungsprozesses von Werkzeugen und Anlagen mit BSH Eigentum ein neues Dokument einführt. Mit jedem neuen oder verlagerten Werkzeug erhalten Sie einen Tool Report, den wir Sie bitten auszufüllen und anschließend an die BSH zurückzusenden. Das Dokument enthält kaufmännische und technische Informationen, sowie Bilder (im Speziellen Bilder, die die Markierung des Werkzeugs als BSH Eigentum ausweisen) und die Bestätigung des Mietrahmenvertrags (wenn bereits abgeschlossen) für das genannte Werkzeug / Anlage.

Solange der Mietrahmenvertrag noch nicht abgeschlossen ist, muss ein Einzelmietvertrag pro Werkzeug / Anlage abgeschlossen werden. Um die Bearbeitung zu vereinfachen, sind im Tool Report verschiedene Sprachen über eine Dropdown Menü-Auswahl verfügbar. Trotzdem sind alle Einträge in Englisch zu tätigen.

Bitte beachten Sie, dass der vollständig und korrekt ausgefüllte Tool Report eine Voraussetzung für die Freigabe der letzten Zahlung ist.

Mit freundlichen Grüßen,
BSH Einkauf

Tool Report Filling Instruction I filling overview

Filled by BSH

The screenshot shows the top portion of a tool report form. A green circle highlights the header area, which includes the company logo 'B/S/H/' and various identification fields. An orange circle highlights the main data entry section, which contains technical specifications for the tool, such as tool name, tool type, and dimensions. A small diagram of a tool head is also visible within this section.

To be filled by part supplier after tool creation

The screenshot shows the bottom portion of the tool report form. A green circle highlights the bottom header area, which includes fields for 'Tool name' and 'Tool type'. A large orange circle highlights the main body of the form, which is mostly blank and yellow, indicating it is to be filled by the part supplier after tool creation. The bottom of the form contains additional fields and a small diagram of a tool head.

To be filled by part supplier after tool creation

Filled by BSH after validation

Tool Report Filling Instruction I header 1/2



| | | | | | | | |
|-------------------------------|------------------------|-------|--|----------------------|--------------------------|-----------|--------------------------|
| Tool Report | | TIN | | English | B/S/H/ | | |
| <small>version 1.2</small> | | | | | | | |
| general information | | | | | | | |
| property of: | Select desired factory | | | kind of tool: | < PLEASE SELECT > | | |
| tool owner: | < PLEASE SELECT > | | | | | | |
| CAD item #: | | PO #: | | RFO #: | | | |
| marking name: | | | | net rental fee per : | #N/A | currency: | #N/A |
| rental/loan frame contract #: | | | | Tier 1 | <input type="checkbox"/> | Tier 2 | <input type="checkbox"/> |

Hint



Will be entered by BSH

Tool Report Filling Instruction I header 2/2



1 Will be entered by BSH

2 Enter company name of tool user

3 Enter tool number given from tool user

4 Enter tool user address and country

5 Enter company name of toolmaker

7 Enter tool user address and country

6 Enter job / serial number given by toolmaker

| contract partner tool | | | |
|-----------------------|--|---------------------------------|--|
| name: | | vendor number: | |
| tool user information | | | |
| name: | | tool number given by tool user: | |
| address: | | country: | |
| toolmaker information | | | |
| name: | | job/serial no.: | |
| address: | | country: | |

Tool Report Filling Instruction I tool for plastic parts 1/4



1 Select tool class, following options are available: plastic injection, plastic extrusion, EPS, rubber, foaming, thermofoaming

2 Select tool type, following options are available: standard, stack/tandem, multi-k, rotational

4 Enter mould size, please make sure you enter the data in mm „-“ is the height of the opened tool

5 Enter mould weight, please make sure you enter the data in kg

| mold information | | | | | | |
|------------------|-------------------------------|-----------------|-----------------------------|-----------------------|-----------------|--|
| | tool class: | <PLEASE SELECT> | | | | |
| | tool type: | <PLEASE SELECT> | | | | |
| | date of construction | year: | | month: | | |
| | mold size [mm]: | w | l | h | - | |
| | mold weight [kg]: | | | shrinkage factor [%]: | | |
| | number of cavities overall: | | | parts per shot: | | |
| | insulating plate cavity side: | <PLEASE SELECT> | insulating plate core side: | | <PLEASE SELECT> | |

3 Enter month and year of construction

6 Enter shrinkage factor in percent

8 Enter parts per shot

7 Enter number of cavities overall

9 Select if tool has an insulating plate cavity side or not

10 Select if tool has an insulating plate core side or not

Tool Report Filling Instruction | tool for plastic parts 2/4



1 Select runner type, following options are available: coldrunner system, hotrunner system, hot-/coldrunner system combination

4 Enter number of lifters

7 Enter number of gates per part

2 Enter hotrunner supplier

5 Enter serial number given by hotrunner supplier

3 Enter number of sliders

6 Enter ejector stroke, please make sure you enter the data in mm

8 Enter minimum clamping force in tons, that needs to be applied to operate the tool

12 Enter specific tool information by using the selection box, multiple entries are possible

11 Enter used part raw material name, e.g. Polypropylene (PP)

9 Enter used machine type

10 Enter maximum clamping force in tons, that is possible with used machine

| | | | |
|--|-----------------|---|--|
| runner type: | <PLEASE SELECT> | hotrunner supplier: | |
| # of sliders: | | hotrunner serial number: | |
| ejector stroke [mm]: | | minimum clamping force [t]: | |
| used machine type: | | maximum clamping force of used machine[t]: | |
| part raw material used: | | exchangeable insert sequential direct gating side gate dynamic cooling IMD Prototype Tool | |
| specific tool information (please use multiple selection box): | | | |

Tool Report Filling Instruction | tool for plastic parts 3/4



1 Enter shot weight, please make sure you enter the data in grams

2 Select if recycled material is used

| part information | | | |
|--|-----------------------|--------------------------|------------------------------|
| shot weight [g]: | 0,000 | recycling: | YES <input type="checkbox"/> |
| one type of part | <input type="radio"/> | two types of part | <input type="radio"/> |
| weight of part [g]: | | weight of part [g]: | |
| more than two types of part | <input type="radio"/> | weight of all parts [g]: | |
| capacity | | | |
| tool replacement time [weeks]: | | | |
| guaranteed output [shots]: | | | |
| maintenance frequency [shots]: | | | |
| real cycle time [s]: | | | |
| standard capacity (calculated with 15 shifts per week for 50 weeks): | | | |
| agreed maximum capacity per week (e.g. 17 shifts without reduction): | | | |

3 Select number of part types and enter the according weight in gram, greyed out section will be visible, depending on taken selection of part type numbers

8 Enter standard capacity, calculated with 15 shifts per week for 50 weeks

4 Enter lead time from Purchase Order to SOP in weeks

5 Enter guaranteed output in shots (not parts)

6 Enter maintenance frequency in shots (not parts)

7 Enter real cycle time in seconds

9 Enter agreed maximum capacity per week, e.g. 17 shifts without reduction

10 Enter one or more pictures of the part(s)

Tool Report Filling Instruction I tool for plastic parts 4/4



| | | | | |
|---|-----------------|--------------------------|---|--|
| | | TIN: | 0 | |
| pictures | | | | |
| Picture 1: (tool overview, look into opened tool) | | | | |
| | | | | |
| Picture 2: (proof of engraving tool as BSH property) | | | | |
| | | | | |
| additional information | | | | |
| | | | | |
| supplier contact information | | <input type="checkbox"/> | By activating this checkbox the tool user confirms the validity of the above referenced rental / loan frame contract for the tool in scope of this report | |
| responsible person: | | | | |
| e-mail address: | | | | |
| phone number: | | | | |
| data completion check - to be filled by BSH after tool report completion | | | | |
| checked: | <PLEASE SELECT> | name: | | |

1 Enter one or more pictures of the tool, as well as the opened tool

3 Enter any information that is required to describe the tool more detailed

4 Enter supplier contact data

2 Enter one or more pictures of the engraving of the tool as BSH property

5 Will be entered by BSH

6 Will be entered by BSH

Tool Report Filling Instruction | tool for metal parts 1/4



1 Select tool class, following options are available:
stamp/draw/bending, metal extrusion, pressure die casting (Zn), rollforming, tube bending, other moulds / dies

2 Select tool type, following options are available:
progressive, transfer, progressive / transfer, single input die, Bihler tool

3 Enter month and year of construction

4 Enter number of stations

5 Enter number of operations

6 Enter tool size, please make sure you enter the data in mm

7 Enter minimum press force in tons, that needs to be applied to operate the tool

8 Enter ram stroke, please make sure you enter the data in mm

9 Enter feed stroke, please make sure you enter the data in mm

| tool information | | | | |
|------------------|----------------------|-----------------------|--------------------------|--|
| | tool class: | < PLEASE SELECT > | | |
| | tool type: | < PLEASE SELECT > | | |
| | date of construction | year: | month: | |
| | number of stations: | number of operations: | | |
| | tool size [mm]: | w | minimum press force [t]: | |
| | | l | ram stroke [mm]: | |
| | | h | feed stroke [mm]: | |

Tool Report Filling Instruction | tool for metal parts 2/4



1 Enter overall and upper tool weight, please make sure you enter the data in kg

3 Enter maximum press force, that is possible with used press please make sure you enter the data in tons

2 Enter used press type

4 Select if drawing cushion is used

6 Enter used part raw material e.g. 1.4301, 1.4016, DC04

7 Enter specific tool information

5 Select if lubrication of material is used, if yes, select type of lubricant

| | | | |
|---------------------------------|-----------------------------|-------------------------------------|-----|
| overall tool weight [kg]: | | upper tool weight [kg]: | |
| used press type: | | max. press force of used press [t]: | |
| drawing cushion: < PLEASE SELEC | lubrication: < PLEASE SELEC | lubricant: | n/a |
| raw material(s) of part(s): | | | |
| specific tool information: | | | |
| | | | |
| | | | |

Tool Report Filling Instruction I tool for metal parts 3/4



1 Enter size in format l x w x h, please make sure you enter the data in mm

3 Enter part weight, please make sure you enter the data in grams

2 Enter parts per stroke

4 Select number of part types

5 Select if part is film coated and if yes, enter film type

| part information | | | |
|--|---------------------------------------|------------------------|--|
| blank size LxWxH [mm]: | | picture(s) of part(s): | |
| parts per stroke: | weight of part [g]: | | |
| one type of part <input type="radio"/> | different types <input type="radio"/> | | |
| film coated <input type="checkbox"/> | <PLE film type | n/a | |
| capacity | | | |
| tool replacement time [weeks]: | | | |
| guaranteed output [parts]: | | | |
| maintenance frequency [parts]: | | | |
| stroke rate [1/min]: | | | |
| standard capacity (calculated with 15 shifts per week for 50 weeks): | | | |
| agreed maximum capacity per week (e.g. 17 shifts without reduction): | | | |

6 Enter lead time from Purchase Order to SOP in weeks

7 Enter guaranteed output in parts

8 Enter maintenance frequency in parts

9 Enter stroke rate in one per minute

10 Enter standard capacity, calculated with 15 shifts per week for 50 weeks

12 Enter one or more pictures of the part(s)

11 Enter agreed maximum capacity per week, e.g. 17 shifts without reduction

Tool Report Filling Instruction I tool for metal parts 4/4



| | | | | |
|---|-----------------|--|---|--|
| | | TIN: | 0 | |
| pictures | | | | |
| Picture 1: (tool overview, look into opened tool) | | | | |
| | | | | |
| Picture 2: (proof of engraving tool as BSH property) | | | | |
| | | | | |
| additional information | | | | |
| | | | | |
| supplier contact information | | <input type="checkbox"/> By activating this checkbox the tool user confirms the validity of the above referenced rental / loan frame contract for the tool in scope of this report | | |
| responsible person: | | | | |
| e-mail address: | | | | |
| phone number: | | | | |
| data completion check - to be filled by BSH after tool report completion | | | | |
| checked: | <PLEASE SELECT> | name: | | |

1 Enter one or more pictures of the tool, as well as the opened tool

3 Enter any information that is required to describe the tool more detailed

4 Enter supplier contact data

2 Enter one or more pictures of the engraving of the tool as BSH property

5 Will be entered by BSH

6 Will be entered by BSH

Tool Report Filling Instruction I tool for die casting parts 1/4



1 Select tool class, following options are available: Aluminum die casting, Zinc die casting

2 Enter month and year of construction

3 Enter mould size, please make sure you enter the data in mm „-“ is the height of the open tool

4 Enter mould weight, please make sure you enter the data in kg

5 Enter shrinkage factor in percent

6 Enter number of cavities overall

7 Enter parts per shot

8 Select if tool has an insulating plate cavity side or not

9 Select if tool has an insulating plate core side or not

| mold information | |
|------------------|--|
| | tool class: <input type="text" value="< PLEASE SELECT >"/> |
| | date of construction: year: <input type="text"/> month: <input type="text"/> |
| | mold size [mm]: <input type="text" value="w"/> <input type="text" value="l"/> <input type="text" value="h"/> <input type="text" value="-"/> |
| | mold weight [kg]: <input type="text"/> shrinkage factor [%]: <input type="text"/> |
| | number of cavities overall: <input type="text"/> parts per shot: <input type="text"/> |
| | insulating plate cavity side: <input type="text" value="< PLEASE SELEC >"/> insulating plate core side: <input type="text" value="< PLEASE SELECT >"/> |

Tool Report Filling Instruction I tool for die casting parts 2/4



1 Enter number of sliders

2 Enter number of lifters

3 Enter ejector stroke, please make sure you enter the data in mm

4 Enter used part raw material name, e.g. AL229

5 Enter minimum clamping force in tons, that needs to be applied to operate the tool

6 Enter used machine type

7 Enter maximum clamping force in tons, that is possible with used machine

8 Enter specific tool information by using the selection box, multiple entries are possible

| | | | | | |
|--|--|---------------|--|---|--------|
| # of sliders: | | # of lifters: | | ejector stroke [mm]: | |
| part raw material used: | | | | minimum clamping force [t]: | |
| used machine type: | | | | maximum clamping force of used machine[t]: | |
| specific tool information (please use multiple selection box): | | | | | |
| | | | | heat pipe insertmolding vacuum-evacuation | ↑ ↓ |

Tool Report Filling Instruction I tool for die casting parts 3/4



1 Enter shot weight, please make sure you enter the data in gram

2 Select number of part types and enter the according weight in gram, greyed out section will be visible, depending on taken selection of part type numbers

| part information | | | |
|--|-----------------------|--------------------------|-----------------------|
| shot weight [g]: | 0,000 | part/parts picture/s: | |
| one type of part | <input type="radio"/> | two types of part | <input type="radio"/> |
| weight of part [g]: | | weight of part [g]: | |
| more than two types of part | <input type="radio"/> | weight of all parts [g]: | |
| capacity | | | |
| tool replacement time [weeks]: | | | |
| guaranteed output [shots]: | | | |
| maintenance frequency [shots]: | | | |
| real cycle time [s]: | | | |
| standard capacity (calculated with 15 shifts per week for 50 weeks): | | | |
| agreed maximum capacity per week (e.g. 17 shifts without reduction): | | | |
| | | | |

3 Enter lead time from Purchase Order to SOP in weeks

4 Enter guaranteed output in shots (not parts)

5 Enter maintenance frequency in shots (not parts)

6 Enter real cycle time in seconds

7 Enter standard capacity, calculated with 15 shifts per week for 50 weeks

9 Enter one or more pictures of the part(s)

8 Enter agreed maximum capacity per week, e.g. 17 shifts without reduction

Tool Report Filling Instruction I tool for die casting parts 4/4



| | | | |
|---|-----------------|--------------------------|---|
| TIN: | | 0 | |
| pictures | | | |
| Picture 1: (tool overview, look into opened tool) | | | |
| | | | |
| Picture 2: (proof of engraving tool as BSH property) | | | |
| | | | |
| additional information | | | |
| | | | |
| supplier contact information | | <input type="checkbox"/> | By activating this checkbox the tool user confirms the validity of the above referenced rental / loan frame contract for the tool in scope of this report |
| responsible person: | | | |
| e-mail address: | | | |
| phone number: | | | |
| data completion check - to be filled by BSH after tool report completion | | | |
| checked: | <PLEASE SELECT> | name: | |

1 Enter one or more pictures of the tool, as well as the opened tool

3 Enter any information that is required to describe the tool more detailed

4 Enter supplier contact data

2 Enter one or more pictures of the engraving of the tool as BSH property

5 Activate checkbox if rental / loan frame contract is signed and the tool in scope of this report is accepted under the conditions of the rental / loan frame contract

6 Check if data are complete and enter your name (to be filled out by BSH)

Tool Report Filling Instruction I equipment 1/2



1 Enter equipment name of equipment manufacturer (could differ from marking name)

2 Enter used media

4 Enter month and year of construction

3 Select equipment category, following options are available: machine, station & line, auxiliary equipment

5 Select equipment class (depending on selected equipment category)

6 Select equipment type if equipment class plastic injection machine or stamp/draw/bending press is selected

7 Enter used machine type in case equipment is used with a machine

8 Enter standard capacity, calculated with 15 shifts per week for 50 weeks

10 Enter agreed maximum capacity per week, e.g. 17 shifts without reduction

11 Enter guaranteed output in cycles

9 Enter tool replacement time weeks

| equipment information | | | |
|--|---------------------|--------------------------------|--------------|
| equipment name: | | | |
| media used: | | | |
| equipment category: | auxiliary equipment | date of construction | year: month: |
| equipment class: | < PLEASE SELECT > | equipment type: | n/a |
| used machine type if applicable: | | | |
| capacity | | | |
| standard capacity (calculated with 15 shifts per week for 50 weeks): | | tool replacement time [weeks]: | |
| agreed maximum capacity per week (e.g. 17 shifts without reduction): | | guaranteed output [cycles]: | |

Tool Report Filling Instruction I equipment 2/2



1 Enter one or more pictures of the equipment

3 Enter any information that is required to describe the tool more detailed

4 Enter supplier contact data

2 Enter one or more pictures of the engraving of the tool as BSH property

5 Will be entered by BSH

6 Will be entered by BSH

| pictures | | | | | | | | | | |
|--|---|--|--|--|---------------------|--|----------------|--|---------------|--|
| Picture 1: (equipment overview) | Picture 2: (proof of engraving equipment as BSH property) | | | | | | | | | |
| additional information: | | | | | | | | | | |
| <table border="1"> <tr> <td colspan="2">supplier contact information</td> <td rowspan="4"> <input type="checkbox"/> By activating this checkbox the tool user confirms the validity of the above referenced rental / loan frame contract for the tool in scope of this report </td> </tr> <tr> <td>responsible person:</td> <td></td> </tr> <tr> <td>e-mail adress:</td> <td></td> </tr> <tr> <td>phone number:</td> <td></td> </tr> </table> | | supplier contact information | | <input type="checkbox"/> By activating this checkbox the tool user confirms the validity of the above referenced rental / loan frame contract for the tool in scope of this report | responsible person: | | e-mail adress: | | phone number: | |
| supplier contact information | | <input type="checkbox"/> By activating this checkbox the tool user confirms the validity of the above referenced rental / loan frame contract for the tool in scope of this report | | | | | | | | |
| responsible person: | | | | | | | | | | |
| e-mail adress: | | | | | | | | | | |
| phone number: | | | | | | | | | | |
| data completion check - to be filled by BSH after tool report completion | | | | | | | | | | |
| checked | <PLEASE SELECT> | name | | | | | | | | |