MasterShip XL R2 Release Notes

Sunday, 28 September 2025

MasterShip XL R2 is available in several versions:

1. **MasterShip XL R2 R24 64-bit**: Compatible with 64-bit AutoCAD 2025 and 2026.
2. **MasterShip XL R2 R24 64-bit**: Compatible with 64-bit AutoCAD 2021, 2022, 2023 and 2024.
3. **MasterShip XL R2 R23 64-bit**: Compatible with 64-bit AutoCAD 2019 and 2020.
4. **MasterShip XL R2 R22 64-bit**: Compatible with 64-bit AutoCAD 2018.
5. **MasterShip XL R2 R21 64-bit**: Compatible with 64-bit AutoCAD 2017 SP1.

Please make sure to download and/or install the version compatible with your AutoCAD version.

Important Notes

- **Version 10.13.18 was the last release for AutoCAD 2017.** If you are still using these versions, please upgrade your organization to a newer version of AutoCAD (2020 or later recommended).
- **Installation:** MasterShip will integrate itself with the latest supported AutoCAD release that you have installed on your PC. If you wish to use MasterShip on a previous AutoCAD version, please see the chapter “Manually creating a MasterShip Profile” in the Installation Guide.
- **Compatibility:** 32-bit versions of Microsoft Office 2010 and 2013 cannot be installed together with 64-bit versions of MasterShip. Please install a 64-bit version of Microsoft Office 2010 or 2013, or use a newer version, before installing MasterShip.

10.14.13 Update (2025-09-28)

- `[New Functionality]` Support for AutoCAD 2025 and 2026.

10.14.12 Update (2024-05-15)

- `[New Functionality]` Support for AutoCAD 2024.

10.14.11 Update (2024-01-30)

- `[New functionality]` Added SHIPMARKADJACENT function to mark plate parts in between drawings.
- `[New functionality]` Added SHIPMARKPARTS function to mark plate parts within the same drawing.

10.14.10 Update (2023-09-13)

- `[Bug Fix]` Fixed a problem in the parametric template `Flange3` with the bulge radius.
- `[Change] 3D stiffeners` are automatically assigned to the correct layer.
- `[Change]` Implemented new images for several Parametric templates.

10.14.9 Update (2023-05-26)

- `[New functionality]` Add parametrics template `extrusion13`.

10.14.8 Update (2023-04-27)

- `[Bug Fix]` Fixed an issue where the Parts by Plate report did not give the correct results.

10.14.7 Update (2022-10-27)

- `[Bug Fix]` Fixed problem with the properties of `3D-stiffener` solids.
- `[New functionality]` Added the option to give an angle to the cutout in the detail `extr3` and `extr4`.
- `[Bug Fix]` Fixed problem with a cutout in the direction of the line specified on the screen for detail `extr3` and `extr4`.

10.14.6 Hotfix (2022-05-09)

- `[Bug Fix]` Fixed problem with the accuracy of `3D-stiffener` solids.

10.14.5 Update (2022-04-29)

- [Change] More PartData is printed on the part while using SHIPPARTS2DXF by default. The production unit, subassembly and operation are added.
- [New functionality] The command SHIPREMOVEMARKING and the corresponding icon is added to the ribbon.
- [New functionality] Added an installer for the Model Exchanger.
- [Change] Added support for the Model Exchanger for AutoCAD 2023.
- [Change] Added support for the Model Exchanger.
- [Bug Fix] Fixed a potential fatal error when creating a stiffener solid.
- [Bug Fix] Fixed a potential fatal when making curve projections on parts (e.g. when using SHIPADDHOLE or SHIPADDMARKING).

10.14.4 Update (2022-04-06)

- [Change] Intersection lines drawn with SHIPSECTIONS are now tagged with the part ID.
- [New functionality] Added support for the Workshop Assistant for NavisWorks 2023 and AutoCAD 2023. The support for NavisWorks 2018 stopped.

10.14.3 Hotfix (2022-03-17)

- [Bug Fix] Fixed problem with orthogonal rotation in SHIPSTIFFENERS2PARTS.

10.14.2 Update (2022-03-01)

- [Bug Fix] Minor fix in display of Stiffener Plots.
- [Bug Fix] Fixed potential fatal error when the baseline of a 3D-stiffener is removed.
- [Bug Fix] Fixed potential fatal error in SHIPMIDDLESEAM.
- [Bug Fix] Fixed potential fatal error in SHIPLONGS2D3D.
- [Bug Fix] Improved recognition of ellipses for making parts.
- [Bug Fix] Fixed potential fatal error when assembly drawings are generated.
- [Change] The given name of a Custom Item is attached to the targeted solid as XData when using SHIPEDITCUSTOMITEM.
- [Change] Automatic generation of plate solids when making expansions.
- [Change] Improved user experience for making expansions.

10.14.1 Update (2022-01-20)

- [Change] Improved look of stiffener plots.
- [Change] Improved determination of stiffener modification parameters.
- [Bug Fix] Fix of synchronization of ‘modification string’ from stiffeners.
- [Bug Fix] Fixed potential crash when applying start- & end gap to 3D stiffeners.

10.14.0 Release (2021-12-13)

- [Change] Minor improvement in generating stiffener plots.
- [Change] Speed improvement while updating reference lines using SHIPUPDATECHECK.
- [Change] Improved stability of parametric modelling.
- [Change] Improved user friendliness for parametric modelling. For a correct updating of details, the usage of reference lines is not required anymore. Part contours can be used instead.
- [Change] Automatic drawing synchronization after SHIPUPDATECHECK.
- [Change] Removed support for AutoCAD version 2017.

10.13.18 Update (2021-11-05)

- [Change] Added modification details to drawings created with SHIPSTIFFENERPLOTS.

10.13.17 Update (2021-10-28)

- [Bug Fix] Fixed registration of 3D stiffener length in project database.
- [Change] Limited nesting clearance to max 100mm.
- [Bug Fix] Fixed issues with extrusion3 and extrusion4.

10.13.16 Update (2021-08-25)

- `[Change]` Attached the model-ID of 3D stiffeners to the corresponding solids.

10.13.15 Hotfix (2021-06-25)

- `[Bug Fix]` Fixed potential issues with creating `extrusion9`.

10.13.14 Update (2021-06-07)

- `[Bug Fix]` Fixed potential crash with SHIPREFERENCELINE

10.13.13 Update (2021-05-21)

- `[Bug Fix]` Fixed issue with relatively large angles for stiffener end details.

10.13.12 Hotfix (2021-05-04)

- `[Bug Fix]` Fixed issue where orientation of the SHIP-part was not always displayed intuitively using SHIPSOLID2PART.

10.13.11 Update (2021-05-04)

- `[Bug Fix]` Fixed issue where SHIPSOLID2PART did not always function correctly in vertical direction.
- `[New Functionality]` Support for AutoCAD 2022.

10.13.10 Hotfix (2021-04-16)

- `[Bug Fix]` Fixed issue where Parametrics templates would sometimes not function correctly.

10.13.9 Hotfix (2021-04-09)

- `[Bug Fix]` Fixed issue where newly added surfaces where not handled correctly using SHIPUPDATECHECK

10.13.8 Update (2021-04-06)

- `[Bug Fix]` Fix a potential crash when adding a detail to a longitudinal plate part mirrored over CL.
- `[Bug Fix]` Fix a potential crash in Organiser when nesting stiffeners.
- `[Bug Fix]` Fix some issues that caused the Named Parameter dialog to not show newly created parameters.
- `[Bug Fix]` Fix an error where the length of a closed-loop stiffener with only a start gap would be calculated incorrectly.
- `[Bug Fix]` Fixed an issue in Parametrics where `fillet` did not always work.
- `[Bug Fix]` Fix a crash when using SHIPSPLITPART on a closed-loop stiffener.
- `[Bug Fix]` Fixed the display of end details of some 3D stiffeners.

10.13.7 Update (2021-03-19)

- `[Bug Fix]` Fix a potential crashing issue with SHIPPARASTIFFENER.
- `[Bug Fix]` Fix a parametric plate part not being saved correctly to the database upon creation.
- `[Bug Fix]` Fix display issue where filenames would not be shown in SHIPDELETEPARTSFROMDATABASE.

10.13.6 Update (2021-03-18)

- `[Change]` Enabled support for endcuts in 3d stiffeners.
- `[Bug Fix]` Update SHIPSTIFFENERS2PARTS to better detect if a stiffener should be expanded or not.

10.13.5 Hotfix (2021-03-15)

- `[Bug Fix]` Fix an issue where for some computers the license activation would fail.

10.13.4 Hotfix (2021-03-11)

- `[Bug Fix]` Changed saved data for SHIPEDITCUSTOMITEM so that the Workshop Assistant can better add the information of this items to the model in Navisworks.

10.13.3 Update (2021-03-08)

- `[Change]` Added command SHIPEDITCUSTOMITEM which enables adding meta-information to any AutoCAD entity.
- `[Change]` After SHIPSYNCHRONIZEPROJECTFOLDERS, any plate definitions that don't have applied plates will be removed from the database.

- [Change] Add SHIPEDITCUSTOMITEM to the menu.
- [Change] The advanced setting for the “Marking Other Side” overrule is now a project setting. Modifying *Project.ini* and setting bMarkingOtherSideOverruleColorEnabled to 0, will no longer show the marking lines of parts with “Marking other side” set with a special color, in all drawings of this project.
- [Change] When synchronizing, part calculated values are now re-calculated to ensure information like COG and weight is correct.
- [Bug Fix] Fix an issue where selecting a folder for NC Pre-processor or NC Code output would always give an error.
- [Bug Fix] Fix an issue with SHIPMIRRORCL where the thickness direction of mirrored parts in longitudinals would be incorrect.
- [Bug Fix] Fix and issue with SHIPMIRRORCL where solids would not be created if a longitudinal drawing was open.

10.13.2 Hotfix (2021-02-24)

- [Bug Fix] Fix incorrect stiffener orientation if using SHIPMIRRORCL on a stiffener in a longitudinal drawing.

10.13.1 Hotfix (2021-02-23)

- [Bug Fix] Fix an issue where part details could sometimes not be added to a part.

10.13.0 Release (2021-02-17)

- [Change] Upgraded to C++14 and removed support for AutoCAD versions 2015 and 2016.
- [Change] Added reference information to text output file of SHIPDOUBLECURVEDEXPANSION.
- [Change] Updated Express Tool SHIPSOLIDS2PARTS to work with all possible end-cuts and also expand stiffeners that are curved.
- [Change] Added the full assembly path of a Part to the Properties palette.
- [Bug Fix] Fix an issue where the associated system would be erroneously turned off whenever a drawing was saved.
- [Bug Fix] Fix an issue where the subassembly a stiffener is in would be saved incorrectly.
- [Bug Fix] Fix an issue where an unknown profile code that was identical to an existing one except for case of some letters would not be accepted.
- [Bug Fix] Fix a couple of potential crashes.

10.12.17 Update (2021-01-25)

- [Change] When in a project, the Parametrics dialog now has an extra button will show a list of the defined named parameters. You can keep this list open as you enter the parameters, and copy the names of the parameters to the clipboard using the Copy button.
- [Change] Change how Nupas import handles files without Nupas attributes. Input of thickness and material is requested on the command line and these values are then used or all the parts that do not have attributes.
- [Change] If a hardware dongle could not be found, the SHIPLICENSETYPE dialog is now shown upon start-up.
- [Bug Fix] Fix and issue affecting SHIPADDDETAIL to parts with an arc in their outer contour.

10.12.16 Update (2021-01-15)

- [Bug Fix] Fix an issue in Organiser where editing colors and layers would not work.
- [Bug Fix] Fix an issue where synchronizing nested plates would show the nested plate number as ‘0’ in Organiser reports.
- [Bug Fix] Fix an issue where SHIPMIRRORCL would not correctly switch end cuts of stiffeners consisting of a single arc.
- [Bug Fix] Fix an issue where the shape of a stiffener consisting of multiple arcs (that are part of a circle) would not be correctly determined.

10.12.15 Hotfix (2021-01-11)

- [Change] Improve importing of Nupas plate part DXF files:
  - DXF files that are corrupted in some ways can now be imported.
  - Existing entities are now left alone, allowing sequential import commands in the same DWG.
  - No blocks or layers are left behind after the import.

  - The question of selecting layer pattern is no longer asked.

10.12.14 Update (2021-01-06)

- `[Change]` Better error handling and display if a Nupas plate part DXF is corrupted.
- `[Bug Fix]` Fix an issue with creating intersectional drawings in assembly manager where certain surfaces would cause a crash.
- `[Bug Fix]` Fix an issue with the metadata of data created by SHIPSECTIONS for 3d stiffeners.
- `[Bug Fix]` SHIPCREATEPARTS no longer explodes existing block when importing Nupas parts.

10.12.13 Hotfix (2020-12-28)

- `[Bug fix]` Fix an issue in Define Assembly in Organiser where the maximum frame number would not be calculated correctly.

10.12.12 Hotfix (2020-12-15)

- `[Bug fix]` Fix several issues with SHIPDOUBLECURVEDEXPANSION.

10.12.11 Hotfix (2020-12-07)

- `[Bug fix]` Fix an issue where projects could not always be updated to the latest version.
- `[Bug fix]` Fix an issue where parameters of stiffeners would not always be saved to the database correctly.
- `[Bug fix]` Fix an issue where parametrics template `cutout6` would not always close small gaps correctly.

10.12.10 Update (2020-12-02)

- `[Change]` You can now construct a middle seam during the SHIPDOUBLECURVEDEXPANSION command. This works by trimming the selected frame lines on the lower and upper seams, and taking the midpoint of the remaining curves.
- `[Change]` You can now manually specify the start and end of the expansion along the seams in SHIPDOUBLECURVEDEXPANSION. This means that you no longer have to break the seams. The start and end can only be selected if the corresponding start or end butt is specified. The seams will be trimmed at the selected point, in a plane parallel to the butt.
- `[Change]` Any time a command is run that modifies a part, any part layers that are off, frozen, or locked will be turned on, unfrozen and unlocked.
- `[Bug fix]` DWT files for the assembly now contain all layers again.

10.12.9 Hotfix (2020-11-25)

- `[Bug Fix]` Fix an issue in geometrics where SHIPFAIRSURFACE would break off after selecting a geo-polyline.

10.12.8 Update (2020-11-24)

- `[Change]` If only one part is affected during SHIPEDITPARTPARAMS, all changes are processed immediately.
- `[Change]` Add option to allow boundary extension when creating a new stiffener with SHIPPARASTIFFENER.
- `[Bug Fix]` Fix an issue where the selected base lines would be placed on layer 0 after creating with SHIPPARASTIFFENER.
- `[Bug Fix]` Fix an issue in parametrics where offsetting an arc would not always give the expected result.

10.12.7 Hotfix (2020-11-24)

- `[Bug Fix]` Fix the file version of the included Templates.
- `[Bug Fix]` Fix saving of values in SHIPPOLYVERTICES dialog.

10.12.6 Hotfix (2020-11-20)

- `[Bug Fix]` Fix an issue where adding of details would sometimes not be saved correctly, and related parts would not be updated with SHIPUPDATECHECK.

10.12.5 Hotfix (2020-11-18)

- `[Bug Fix]` Fix an where curves to be marked would be incorrectly modified during SHIPDOUBLECURVEDEXPANSION.

10.12.4 Hotfix (2020-11-13)

- `[Bug Fix]` Fix an issue where the 'join intersection lines' setting in the assembly definition in Organiser was not displayed correctly.

10.12.3 Hotfix (2020-11-12)

- `[Change]` When recreating the assembly, backups are now saved in a *_Backups* folder instead of the main project folder.
- `[Change]` Make the generic template for creating parametric parts work better with certain types of splines.
- `[Bug Fix]` Fix a potential crashing bug when creating parametric parts.

10.12.2 Update (2020-11-02)

- `[Change]` Simplify creation of parametric stiffener. You can now just select the entities that bound the stiffener instead of having to construct the intersection point.

10.12.1 Hotfix (2020-10-29)

- `[Change]` Change the default color of the StiffenerShape layer from `blue` to `150`, so that it is easier to see the stiffener base lines on dark displays.
- `[Change]` Better error handling if a Nupas plate part is found to be incorrect when importing.

10.12.0 Release (2020-10-28)

- `[New Functionality]` Support for AutoCAD 2021.
- `[New Functionality]` Add new command SHIPPARASTIFFENER (Parts ribbon) which creates a dynamic and parametric stiffener that can be copied to other frames and the shape will be updated to the new situation. (Faceplates are not yet supported).
- `[New Functionality]` Added new option in Organiser assembly definition to attempt to join intersection curves of the same surface when creating intersectional drawings. With this option turned on, intersections over MasterShip surfaces that consist of multiple AutoCAD surfaces should result in fewer output curves (Ideally just 1, if the AutoCAD surfaces join reasonably accurately).
- `[Change]` Updating of Reference Lines is now supported. If Reference Lines are created with a dynamic parameter or depend on MSD curves etc, SHIPUPDATECHECK will update the reference lines and any parts that depend on them.
- `[Change]` The dialog of SHIPPOLYVERTICES now remembers different values for the different settings.
- `[Change]` The SHIPREFERENCELINE command will now accept an interval when creating an offset to create multiple refence lines at once. For example, entering "`[500..2000,500]`" will create 4 individual Reference Lines at offsets of `500`, `1000`, `1500`, and `2000` mm.
- `[Change]` New `chamfer2` parametrics template.
- `[Change]` Many bugfixes and small improvements
- `[Bug Fix]` Fix an intermittent crash in Organiser when creating a new project.

10.11 Hotfix 29 (2020-10-23)

- `[Bug Fix]` Fix some issues preventing SHIPCREATEPARTS from working correctly when importing Nupas parts.

10.11 Hotfix 28 (2020-09-23)

- `[Bug Fix]` Fix another issue where a bug in AutoCAD would prevent SHIPADDDETAIL to create fillets in some cases.

10.11 Hotfix 27 (2020-09-18)

- `[Bug Fix]` Fix an issue where a bug in AutoCAD would prevent SHIPADDDETAIL to create fillets in some cases.

10.11 Hotfix 26 (2020-09-16)

- `[Change]` All parametrics commands now separately remember what function was run last.
- `[Bug Fix]` Fix an issue where a bug in AutoCAD would prevent SHIPADDDETAIL to create fillets in some cases.

10.11 Hotfix 25 (2020-07-09)

- `[Bug Fix]` Added some files missing from the installation.
- `[Bug Fix]` Fixed some issues with SHIPPARTS2DXF:

  - DXF output is now valid for all Plate Parts
  - Corrected location and rotation of output texts
  - Log window is now always shown when there are errors.

10.11 Hotfix 24 (2020-07-09)

- `[Bug Fix]` Fix an issue where the OK button was incorrectly grayed out when SHIPPARTSSELECTOR showed the duplicate id's dialog.

10.11 Update 23 (2020-07-07)

- `[Change]` The line type of plate part contour curves is now set to "ByLayer" during SHIPCREATEPARTS.
- `[Change]` Better support spaces in paths in SHIPEDITARRANGEMENTDRAWINGS.
- `[Bug Fix]` SHIPMARKINGTEXT will now trigger an update of mirrored copies.
- `[Bug Fix]` Fix an issue where a part would sometimes be not updated during SHIPUPDATECHECK.
- `[Bug Fix]` Fix an issue where SHIPCOPY could not re-create a reference line.

10.11 Hotfix 22 (2020-07-01)

- `[Bug Fix]` Fix a potential crash in SHIPCREATEPLATESOLID.

10.11 Update 21 (2020-06-26)

- `[Change]` SHIPPARTS2DXF now reports any Parts where the generated texts are not inside the Part.
- `[Change]` PrePro and NC code export paths are now saved as a relative path to the project folder.
- `[Bug Fix]` Fix a case where a crash could occur during SHIPPREPROEXPORT.

10.11 Hotfix 20 (2020-06-22)

- `[Bug Fix]` Fix crash and output line type for hidden items when creating or updating arrangement drawings.

10.11 Update 19 (2020-06-17)

- `[Change]` In SHIPASSEMBLYMANAGER, the configured frame prefix is now enforced when adding a new frame to the assembly.
- `[Change]` In SHIPASSEMBLYMANAGER, deleting an intersectional drawing now moves it to the `Data\Trash` subfolder of the project folder.
- `[Bug Fix]` Fix a potential crashing issue in SHIPDRAWINTERSECTIONS and other commands that use curve-fitting.
- `[Bug Fix]` Fix an issue where defined Drawing Units were not shown when editing the assembly in Organiser.

10.11 Update 18 (2020-06-12)

- `[Change]` If there is an abort during synchronizing, the log now shows which part (if any) caused the abort.
- `[Bug Fix]` SHIPRENAMEPART now works correctly again on 3D stiffeners.
- `[Bug Fix]` SHIPFIND now works correctly again on 3D stiffeners.
- `[Bug Fix]` Fix some potential crashes.

10.11 Update 17 (2020-05-29)

- `[Change]` Added optional extra parameter to bulb stiffener dimensions to allow for an outside radius between the bulb and the web.
- `[Change]` Added option to change text output layer of SHIPPARTS2DXF.
- `[Change]` Added option to scale generated text during SHIPPARTS2DXF.
- `[Bug Fix]` Resolved an issue where Plate Part details could sometimes not be removed. **Note**: To completely fix the issue, all drawings must be first synchronized with the database.

10.11 Hotfix 16 (2020-04-21)

- `[Bug Fix]` Resolved an issue where longitudinal start or end frame positions would not always be calculated correctly.

10.11 Update 15 (2020-04-03)

- `[Bug Fix]` Fix a potential crash in SHIPLONGS3D2D.
- `[Bug Fix]` Make sure a plate part is saved to vault on adding of detail.

10.11 Update 14 (2020-04-01)

- [Change] When creating Reference Lines, you can now go back and change your choices without having to exit the command completely.
- [Bug Fix] SHIPSESETUP, SHIPLONGS3D2D and SHIPLONGS2D3D now correctly handle cases where multiple surfaces meet.
- [Bug Fix] Fix an issue where the list of stiffener end-details would not always be filled when editing or creating.

10.11 Update 13 (2020-03-26)

- [Change] SHIPADDDETAIL will now also show current inner contours.
- [Change] Greatly improved the speed of SHIPUPDATECHECK initialization.
- [Bug Fix] Fix several issues with the identification dialog.
- [Bug Fix] Fix issue with plate part synchronization.
- [Bug Fix] Fix issue where clicking 'Repeat' during SHIPADDDETAIL would not correctly save all variables.

10.11 Hotfix 12 (2020-03-20)

- [Bug Fix] Fix several issues with SHIPUPDATECHECK:
  - If a detail could not be applied, it will no longer be removed from the Part.
  - Curve intersection detection now works as intended.
  - Incorrect information that was saved to the database is now corrected.
  - A logic error preventing correct detail calculation has been resolved.

10.11 Hotfix 11 (2020-03-17)

- [Bug Fix] Fix an issue with SHIPCREATESEAMTYPE always giving an error.

10.11 Hotfix 10 (2020-03-16)

- [Bug Fix] Fix an issue with synchronizing stiffeners.

10.11 Hotfix 9 (2020-03-04)

- [Bug Fix] Fix an issue with the loading of an ARX file.
- [Bug Fix] Fix a potential crash when selecting the company ini folder.

10.11 Hotfix 8 (2020-03-03)

- [Bug Fix] Fix issue with database version not being read correctly.
- [Bug Fix] Fix an issue with creating Stiffener solids.

10.11 Hotfix 7 (2020-03-02)

- [Bug Fix] Fix potential crash when creating a 3D Stiffener.
- [Bug Fix] Fix an issue with Stiffener solids for JT Export.

10.11 Release 6 (2020-02-21)

- [Change] Some changes to SHIPNCBRIDGE express tool: automatically generated name is now shorter and the bridge will take the shortest distance between the first selected point and the second selected entity.
- [Change] Automatically generated names for reference lines are now shorter.
- [Change] Add 4 new end details for channel bars: 0821, 0822, 0880, 0881.
- [Bug Fix] Fix not being able to write license type on startup.
- [Bug Fix] Fix issue where breaking a mirror associativity in longitudinal drawings would not correctly break the link.
- [Bug Fix] Fix issue where SHIPPARTSSELECTOR would incorrectly include non-visible parts.
- [Bug Fix] Fix hang when creating intersections over certain surfaces
- [Bug Fix] Fix error in saving *config.ship* file
- [Bug Fix] Fix crash if MSD database could not be read
- [Bug Fix] Fix crash in SHIPLONGS3D2D
- [Bug Fix] Fix several issues where SHIPLONGS3D2D would not give the correct result.

10.11 Hotfix 5 (2020-02-03)

- `[Bug Fix]` Fix an issue where Organiser would not save assembly information correctly.

10.11 Hotfix 4 (2019-10-31)

- `[Bug Fix]` Fix an issue where updating parts would not complete correctly.

10.11 Hotfix 3 (2019-10-29)

- `[Bug Fix]` Fix an issue where new projects would not be saved in the main database correctly.

10.11 Hotfix 2 (2019-10-22)

- `[Bug Fix]` The installer now installs in the correct directory again.

10.11 Update 1 (2019-10-22)

- `[Change]` Parts can now contain splines and ellipses. When creating cutting code, they will be converted to polylines with a maximum deviation of 0.1 mm.
- `[Bug Fix]` Fixed an issue with calculating technical lengths of non-planar stiffeners.
- `[Bug Fix]` AutoCAD command QSELECT now works properly again.

10.11 Main Release (2019-10-16)

- `[New Functionality]` Mirrored Copy with associativity. When creating Plate Parts or Stiffeners, the option “Create mirrored copy on other side of vessel” creates a new part, that is linked to the part being created. The other part is identical, except that it is mirrored over CL. Any changes to one will also change the other. See the manual for more information.
  - New command SHIPMIRRORCL: Create a mirrored copy of the selected part, if it does not yet have one.
  - New command SHIPASSOCSTATUS: Disable/enable the associative update system.
  - New command SHIPBREAKMIRRORASSOCIATIVITY: Break the association between two parts.
- `[New Functionality]` New command SHIPTOGGLESOLIDVISIBILITY, which will hide all solids on the screen (until you change the active drawing, or run the command again).
- `[New Functionality]` To make it easier to calculate a COG in an early stage of the project, you can now add custom items to the model. In any drawing, run SHIPEDITCUSTOMITEM.
- `[New Functionality]` Experimental setting `sPutPartIdFormat` for SHIPSETTEXTINPLATE and SHIPFREEPARTTEXT for MText output of part information. With this setting, a custom MText entity can be created with any required part data fields.
- `[Change]` Synchronization now continues even if a drawing file could not be read.
- `[Change]` 3D Stiffener length is now also calculated along the neutral line.
- `[Change]` COG calculation has been completely rewritten and now supports custom items and categories, as well piping input from Plant 3D projects.
- `[Change]` Express tool SHIPSURFSURFINTERSECT now supports intersecting multiple surfaces at once.
- `[Change]` SHIPADDDETAIL now hides all solids when started to make entity selection easier.
- `[Change]` You will now be asked to optionally select a part to attach stiffeners to when running SHIPCREATESTIFFENER or SHIPCOPYSTIFFENER. The created stiffeners will be projected onto the part and trimmed on the outer contour.
- `[Change]` Dynamic Parts, or details created with entities created by SHIPSECTIONS can now be copied and updated.
- `[Bugfix]` Fixed an issue where SHIPSESETUP, SHIPLONGS3D2D, and SHIPLONGS2D3D would join 2 resulting curves incorrectly, resulting in much better support for multiple surfaces.

10.10 Hotfix 12 (2019-10-15)

- `[Bug Fix]` Fix an issue with file templates not being handled correctly sometimes if they are in a folder different from the default.

10.10 Update 11 (2019-10-09)

- `[New Functionality]` Add new power-user command SHIPSETXDATASTR to manipulate the XData of MasterShip entities. **Use this command with caution** as it can break MasterShip functionality.

10.10 Hotfix 10 (2019-10-02)

- `[Bug Fix]` Fix a small translation issue making the previous hotfix a bit too hard to use.

10.10 Hotfix 9 (2019-10-01)

- [Change] Express tool SHIPBINDSOLIDMODEL now accepts spaces in file names and will ask for confirmation before overwriting an existing file.
- [Bug Fix] Fixed an issue with Organiser not showing the correct information.

10.10 Hotfix 8 (2019-08-29)

- [Bug Fix] Fixed issue with output of SHIPCREATENCCODE not finding the preprocessed plates.
- [Bug Fix] Fixed crash in SHIPPREPROEXPORT.

10.10 Hotfix 7 (2019-08-15)

- [Bug Fix] Fixed issue with output of SHIPDOUBLECURVEDEXPANSION not being displayed correctly.

10.10 Hotfix 6 (2019-08-09)

- [Bug Fix] SHIPMARKINGTEXT now outputs text on the correct layer again.
- [Bug Fix] SHIPADDMARKINGGRID now correctly adds text to the part.
- [Bug Fix] Fixed a potential infinite loop when creating a part with an arc of miniscule length.
- [Bug Fix] Fix some potential crashes.

10.10 Hotfix 5 (2019-08-01)

- [Bug Fix] Fix the incorrect display of end detail of a stiffener solid.
- [Bug Fix] Fix a potential crash when creating new assembly drawings.
- [Bug Fix] Fix an issue where the wrong directories would be backup up when re-creating the assembly structure.

10.10 Update 4 (2019-07-29)

- [New Functionality] New express tool: SHIPBINDSOLIDMODEL. All solids in the open drawing and any XREFs are saved into a new drawing.
- [Bug Fix] Fix issue with marking lines not being exported in SHIPSINGLECURVEDEXPANSION.
- [Bug Fix] Fix issue when updating a drawing could not be completed successfully.
- [Bug Fix] Fix potential crash when creating parts.

10.10 Hotfix 1-3 (2019-07-19)

- [Bug Fix] Fix a crash in SHIPPREPARE2NEST.

10.10 Main Release (2019-07-11)

- [New Functionality] Support for AutoCAD 2020 is here!
- [New Functionality] A new activation key based license protection system is now available. If you want to switch from using a hardware dongle to the activation key system, please contact MasterShip support.
- [New Functionality] New command SHIPPLATES2DXF. This command will export a nested plate to DXF format.
- [New Functionality] SHIPSPLITPART now also works on stiffeners.
- [New Functionality] Added new project option to NC tab of SHIPOPTIONS: Convert texts to marking lines. If set, the pre-processor command SHIPPREPROEXPORT will convert the loose texts on a plate to marking lines. This conversion is done by setting the texts to the text style “MS-MarkingStyle” as defined in *MasterShip.dwg*, and then exploding it to lines, which are then exported by the pre-processor as markings. The parts are not changed. By default, the custom font *ship_simplified.shx* is used.
- [New Functionality] New experimental command: SHIPDRAWINGREPORT. Currently this command creates a CSV file with a list of all the parts in the drawing, together with their COG, in the *Reports* subdirectory of the project.
- [Change] If there are no markings in a plate, SHIPCREATENCCODE no longer adds a marking segment to the merged cutting file.
- [Change] SHIPCREATENCCODE now always shows a dialog for plate selection.
- [Change] Very large nesting performance increase for plates with many small parts and holes. Up to 75% time saved.
- [Change] Added SHIPADDHOLE, “Add Generic Hole” command to the Plate Parts panel of the Part ribbon. This icon starts SHIPADDDETAIL with the “Generic” template. This allows you to quickly add an inner contour to a plate part.

- [Change] Added an option to SHIPEXPLODEPARTS and SHIPPARTS2DXF to joint part contours into single polylines. Also marking lines are joined as much as possible.
- [Change] SHIPSOLID2PART now detects if a part data block is in the same plane as and inside of the part. This block is then used for the parts properties.
- [Change] The command SHIPFIND no longer reports items that are not actually inserted in the drawing.
- [Change] Added a new configuration setting for a custom, project wide prefix to the part id text generated by SHIPSETTEXTINPLATE and SHIPFREEPARTTEXT. This prefix is set by the `sPartIdTextPrefix` setting in the `[POSTPROCESSOR]` group.
- [Change] *Empty.dwg* has been moved to the Templates directory, so that it may be modified per company or per project.
- [Change] SHIPCREATEPARTS will now automatically curve fit all contour polylines to approximate the curve to within 0.1mm.

10.9 Update 11 (2019-07-09)

- [Change] Greatly increased the performance of SHIPREMOVEDETAIL when removing multiple details from a part with many details.
- [Bug Fix] Fix an issue with SHIPPARTSSELECTOR showing parts from ineligible drawings.

10.9 Hotfix 10 (2019-06-19)

- [Bug Fix] Fixed an issue where SHIPEXPLODEPART would not put the part data block in the correct position.

10.9 Hotfix 9 (2019-06-04)

- [Bug Fix] Fixed an intermittent crash when a certain layer was missing in some situations.

10.9 Update 8 (2019-05-21)

- [Change] SHIPPREPROEXPORT no longer requires you to select the texts for marking (if configured). Instead, it detects the text entities automatically.
- [Bug Fix] SHIPEDITCUTORDER and SHIPPREPROEXPORT no longer detect points on marking lines as rapid line waypoints.
- [Bug Fix] SHIPEDITCUTORDER and SHIPAUTOCUTORDER now correctly sort contour entities.

10.9 Update 7 (2019-05-08)

- [Change] SHIPSOLID2PART now also supports closed polylines. A polylines will be converted to a plate part, without changes.

10.9 Hotfix 6 (2019-04-12)

- [Bug Fix] Fix an issue with SHIPPARTSSELECTOR not always returning all found Parts.

10.9 Hotfix 5 (2019-03-26)

- [Bug Fix] Fix an issue with SHIPCREATEPARTS not working correctly in some cases.

10.9 Update 4 (2019-03-12)

- [New Functionality] Added SHIPEDITARRANGEMENTDRAWINGS and SHIPUPDATEARRANGEMENTDRAWINGS commands. See help and manual for more information.
- [Change] Greatly improved Shell Expansion support for complex hull shapes.
- [Change] SHIPMARKSTIFFENER now better supports face plates.
- [Bug Fix] Fix issue where SHIPCOPYSTIFFENER would not always correctly copy properties.

10.9 Update 3 (2019-02-21)

- [Change] Improved support for creation of JT files.

10.9 Update 2 (2019-02-04)

- [Change] Improved nesting speed.
- [Bug Fix] Fix an issue SHIPADDGREEN not always correctly adding the green.
- [Bug Fix] Fix an intermittent issue where an error what shown about not being able to copy files upon startup.

10.9 Hotfix 1 (2019-02-01)

- [Bug Fix] Fix an issue with SHIPSYNCHRONIZEDATA not saving stiffeners in the database correctly, potentially leading to not all stiffeners being nested.
- [Bug Fix] Fix an issue with SHIPFIND not finding stiffeners sometimes.
- [Bug Fix] Fix a small display issue in Organiser.
- [Bug Fix] Fix an issue where not all error log messages were displayed when running SHIPSYNCHRONIZEDATA or SHIPSYNCHRONIZEPROJECTFOLDERS.

10.9 Update (2019-01-30)

- [Change] Improved code performance.
- [Bug Fix] Fix an issue with SHIPPREPARE2NEST not correctly nesting circular parts.
- [Bug Fix] Fix an occasional error showing when starting AutoCAD that some files could not be copied.

10.8 Hotfix 11 (2019-01-14)

- [Bug Fix] Fix the issue that SHIPADDINTERSECTIONS did not actually add the intersections.

10.8 Hotfix 10 (2018-12-19)

- [Bug Fix] Fix an issue where a nest contour could not be determined for some nest parts.
- [Bug Fix] Fix an issue where stiffener record could not be saved in the database.

10.8 Update 9 (2018-12-14)

- [Bug Fix] SHIPPARTS2DXF now works correctly if the part was split.
- [Bug Fix] Fix an issue where manual nesting was sometimes incorrectly blocked.
- [Bug Fix] Fix an issue where stiffeners could not be synchronized.
- [Bug Fix] Fix an issue where SHIPCOPYSTIFFENER would not always work correctly.
- [Bug Fix] Fix an issue with SHIPSPLITPART not correctly handling parts that are marked on the other side.

10.8 Update 8 (2018-12-07)

- [Change] When SHIPALIGN is run, the resulting curves are now projected onto the XY plane, and converted to polylines if they were 3D polylines.
- [Change] Several actions, like undo, save, and close, are now blocked after the SHIPPREPARE2NEST has been run. Running SHIPENDNEST will re-enable the commands.
- [Bug Fix] Fix an issue where a nest contour could not be determined for some nest parts.
- [Bug Fix] Fix an issue where the serial code was not accepted when first starting MasterShip.

10.8 Hotfix 7 (2018-11-23)

- [Bug Fix] Fix an issue with some commands not being able to be used
- [Bug Fix] Fix an issue with part marking lines being partially erased on part creation.

10.8 Hotfix 6 (2018-11-21)

- [Bug Fix] Fix an issue where SHIPSETACTIVEDATABASE did not list the correct names sometimes.
- [Bug Fix] Fix an issue in SHIPGEOTABLE not returning correct coordinates sometimes.

10.8 Update 5 (2018-11-19)

- [Change] Express tools SHIPSPLITPART, SHIPMARKSTIFFENER, SHIPMARKINGTEXT, SHIPADDPARTMARKINGS, and SHIPADDMARKINGLINES (with the new name SHIPADDMARKINGGRID) have been promoted to proper commands and added to the ribbon menu.
  NOTE If AutoCAD complains that a command cannot be found, use SHIPMENU>OFF and SHIPMENU>ON to reload the menus and ribbon.
- [Bug Fix] Fix an issue when trimming arc entities when creating a Dynamic Part.

10.8 Update 4 (2018-11-07)

- [Change] The command SHIPSETPARTDATAPOS is no longer an Express Tools, it has been added to the Parts ribbon tab.
- [Change] SHIPMOSOVERRULE is now on by default.
- [Change] During Reference Line creation, the first selected point is now shown as a cross to make the input of the second point easier.

- [Change] Creating an offset reference line now asks for the offset first, and then the entity. This is to be more in line with the AutoCAD OFFSET command.
- [Bug Fix] Fix a crash when creating a Reference Line using the 'On Entity' option.
- [Bug Fix] Fix an issue where an offset of 1 mm was not possible creating a Reference Line.
- [Bug Fix] Made the 3D option of SHIPCREATECONSTRUCTIONDRAWING work again.
- [Bug Fix] Added missing output in SHIPNESTEFFICIENCY.

10.8 Update 3 (2018-10-18)

- [Change] When a plate part already exists in the nest drawing, SHIPPARTSSELECTOR no longer reinserts the part, but only updates the definition. This is to prevent too many instances of a part in a nest drawing.
- [Change] Added SHIPSYNCLAYERS, and SHIP3DSTIFFENER to the ribbon. Reworked the Shape ribbon tab to make the database commands visible.
- [Change] Commands SHIPMIDDLESEAM and SHIPSEAMTYPE now use the same technology as the SHIPLONGS3D2D and SHIPLONGS2D3D commands, and no longer require a GEO file. To revert to the previous GEO file based system, set the option `bUseNewLongitudinals` in the `[SHAPEGEN]` section of the Project.ini file to `0`.
- [Bug Fix] Fix an issue with solids of plate parts that have flanges.
- [Bug Fix] Fix an issue with the SHIP3DMESH command not creating a mesh.
- [Bug Fix] Fix an issue with creating plate parts using the Bounded Panel method.
- [Bug Fix] Fix an issue where the colors and layers dialog in Organiser would not be correctly updated.
- [Bug Fix] Fix an issue where the start and end frame settings of an intersectional drawing would be ignored.

10.8 Hotfix 2 (2018-10-18)

- [Bug Fix] Fix an issue with creating plate parts using the Bounded Panel method.
- [Bug Fix] Fix an intermittent issue with surface tags if MSD contains both halves of the model and the surface spans both sides.

10.8 Hotfix 1 (2018-10-18)

- [Bug Fix] Fix a crash creating stiffeners.

10.8 Main Release (2018-10-17)

- [New Functionality] Express tool SHIPSPLITPART has been completely rewritten. It now supports multiple split curves at once. Split curves can be splines, lines, polylines.
- [Change] Butts with 3 points are now fitted in SHIPDOUBLECURVEDEXPANSION. Also curves selected as marking now keep their original color and layer.
- [Change] Plate molds created by SHIPPLATEMOLDSET2MOLDS are now put on layer 0.
- [Change] Color of marking lines that have a color set other than 'By Layer' is now left as-is.
- [Change] Parametrics: added `highlight_set` flb-file instruction.
- [Change] Parametrics: properties of output curves (layer, color) are now determined by the first selected input curve, if applicable.
- [Change] Vastly improved handling of miniscule differences in Z-values of curves.
- [Bug Fix] Marking lines are now correctly trimmed in SHIPDOUBLECURVEDEXPANSION.
- [Bug Fix] Fix some text orientation issues in SHIPSETTTEXTINPLATE and SHIPFREEPARTTEXT express tools.
- [Bug Fix] Fix several issues related to synchronization of 3D Stiffeners.
- [Bug Fix] Fix several issues related to infinite loops, and potential crashes.

10.7 Hotfix 3 (2018-09-17)

- [Bug Fix] Fixed an issue nesting parts with only a circle as the outer contour.

10.7 Hotfix 2 (2018-06-18)

- [Bug Fix] Fixed an issue opening files in the background under AutoCAD 2015 and 2016.

10.7 Hotfix 1 (2018-06-13)

- [Change] During synchronization, a warning is shown for stiffeners that are longer than their purchase length allows, and duplicate parts are deleted.

- [Bug Fix] Fix the colors and layers dialog.

10.7 Main Release (2018-06-11)

- [New Functionality] Support for AutoCAD 2019.
- [New Functionality] Add new express tool SHIPMOSOVERRULE. Toggles on or off the color overruling for marking lines in plate parts where 'marking on other side' set. The overruling is currently off by default.
- [New Functionality] Add new express tool SHIPSHOWALL. This tool will make all entities in the drawing visible (except those hidden by ISOLATEOBJECTS or HIDEOBJECTS).
- [New Functionality] Add new express tool SHIPSOLID2PART. Converts a flat solid, planar surface or region to a plate part.
- [Change] SHIPFIND now selects the found entities in the editor.
- [Change] Added an option to erase duplicate entities to SHIPADJUSTPART. The fix gaps option now fixes all gaps, no matter how small.
- [Change] All commands that create or update a plate part, now automatically trim any marking lines that lie outside the part.
- [Bug Fix] Solved some issues with file locking during synchronization, causing unused part blocks to not be purged from drawings when using SHIPSYNCHRONIZEDATA.
- [Bug Fix] The commands SHIPSETTEXTINPLATE and SHIPFREEPARTTEXT now correctly handle texts that had their upside down or backwards property set.
- [Bug Fix] Improved support for MTEXT in plate parts.

10.6 Hotfix 12 (2018-04-24)

- [Bug Fix] Fix issue where reading of double values from database would be rounded incorrectly.

10.6 Hotfix 11 (2018-04-10)

- [Bug Fix] Fix issue in SHIPSECTION where sections on Non-Orthogonal drawings would not give correct results.

10.6 Hotfix 10 (2018-03-30)

- [Change] Better support multiple surfaces in Longitudinals commands.
- [Bug Fix] Fix crashes in SHIPLONGS2DTO3D and SHIPLONGS3DTO2D

10.6 Hotfix 9 (2018-03-27)

- [Change] Change the name of the *Start.dwg* in a new project to *ShipStart.dwg* to prevent confusion with AutoCAD's 'Start' tab.
- [Change] Creating a new company settings folder will now also copy the default main database.

10.6 Hotfix 8 (2018-03-24)

- [Bug Fix] Fix potential crash when using SHIPEDITPARTPARAMS.
- [Bug Fix] Fix issue when creating or updating longitudinal or horizontal hull intersection curves where they would not be trimmed on start or end frames correctly.
- [Bug Fix] Fix issue where the progress window would be shown partly off-screen.

10.6 Update 8 (2018-02-13)

- [Change] Add end detail types 80 and 81 for Triclad stiffeners.
- [Change] Add new flat bars and angle bars to catalogue.

10.6 Update 7 (2018-02-06)

- [Change] Add stiffener layers to layer visibility buttons.
- [Change] Solids of Triclad stiffeners are changed to show what is top (aluminum) and bottom (steel).
- [Bug Fix] Fix issue with curve normals when creating assembly intersection drawings.
- [Bug Fix] Fix issue with Face Plate solids not being created.
- [Bug Fix] Fix issue with endless recompiling of out-of-date Parametrics scripts.
- [Bug Fix] Fix issue with express tool SHIPADDGREEN not generating a correct result in most cases.
- [Bug Fix] Force recalculation of technical length of stiffeners on synchronization and solid creation. This fixes an issue with incorrect lengths in the database.

10.6 Updates 1-6 (2018-01-29)

- `[Change]` PartData and StiffenerData blocks now show the last sub-assembly of the part by default (instead of the highest parent Production Unit). To use this, you should manually copy the new *MasterShip.dwg* from the install directory to your Company ini dir.
- `[Change]` Added some Triclad stiffeners to the main database.
- `[Bug Fix]` Fix issue with Staff Purchase List report.
- `[Bug Fix]` Fix crash during synchronization.
- `[Bug Fix]` Fix issue with stiffener end detail orientation.
- `[Bug Fix]` Fix issue with solid generation for JT.

10.6 Main Release (2017-12-06)

- `[New Functionality]` Support for AutoCAD 2018.
- `[Change]` MasterShip is now released in 64-bit versions by default. 32-bit builds are available upon request.
- `[Change]` SHIPPARTS2DXF now outputs to subdirectories named by the full assembly path. Lowest subdirectory now also includes the material.
- `[Change]` Section and subassembly columns in reports no longer are enclosed in brackets.
- `[Change]` Rewrote SHIPLONGS3D2D and SHIPLONGS2D3D to no longer require GEO files. Calculations are now based on an AutoCAD surface. Added new SHIPSESETUP command.
- `[Change]` Removed some obsolete options from SHIPPOLYEXTEND.
- `[Change]` When a plate part or stiffener is created, any polylines in the input are now fitted to an accuracy of 0.1mm. The shape of the contour more accurately reflects the shape of the part.
- `[Change]` Stiffener nesting calculations are now executed faster. Only 1 calculation is now needed for all information to be available.
- `[Bug Fix]` Solids of flanges are no longer joined if creating JT solids.
- `[Bug Fix]` Fixed an issue where 2 production units could have the same name.
- `[Bug Fix]` Fixed issue with selecting parts in SHIPPRODUCTIONUNITS.

10.5 Update 21 (2017-10-11)

- `[Change]` SHIPDOUBLECURVEDEXPANSION now accepts any reasonable curve as input for butts. You no longer have to trim or modify them to only have 3 points.
- `[Bug Fix]` Fix the shape of stiffener solids generated with `bCreateSolidsForJtExport` if they contain multiple lines.
- `[Bug Fix]` Fix several issues with assembly generation.
- `[Bug Fix]` Fix potential crash during plate part creation.
- `[Bug Fix]` Fix an error in an Organiser report for Stiffeners.
- `[Bug Fix]` Fix an error where SHIPPOLYJOIN would give an incorrect result.

10.5 Update 20 (2017-09-27)

- `[Change]` Added new advanced INI setting `dJtSolidsMaximumCurveDeviation` in the [PARTSGEN] section. This setting controls the maximum curve deviation of polylines to the curve when creating solids for JT files.
- `[Bug Fix]` SHIPPOLYJOIN now correctly handles arcs and bulges.

10.5 Update 19 (2017-09-21)

- `[New Functionality]` Added new express tool SHIPSYNCLAYERS, which will update the properties of layers in the current drawing with those defined in the current MasterShip.dwg.
- `[Change]` The calculation of the technical length of stiffeners is now more efficient.
- `[Change]` Greatly improved the speed of assembly generation and adding new intersections for large projects.
- `[Bug Fix]` Fixed an issue where a new intersection would contain multiple copies of surface curves if the intersection existed in multiple drawing units.
- `[Bug Fix]` Fixed an issue where dynamic parts could not be created sometimes.

10.5 Update 18 (2017-09-12)

- `[New Functionality]` Added new express tool SHIPSURFSURFINTERSECT, which will create intersection entities of 2 surfaces, or a surface and a solid. This is similar to the AutoCAD INTERSECT command, but does not delete the input entities.

- [Change] SHIPUPDATECHECK now works a bit quicker on larger projects.
- [Bug Fix] SHIPUPDATECHECK no longer removes surface intersections that it should not.

10.5 Update 17 (2017-07-20)

- [Change] SHIPSETTEXTINPLATE now rotates and scales the Part ID if it does not fit inside the part contour.
- [Change] SHIPADDMARKINGLINES now moves texts so that they lie inside the part contour.
- [Change] Some changes to Parametrics:
  - A template is now also recompiled if an included template has been changed.
  - Syntax for including has been changed from "`#include <file>`" to "`include <file>`".
  - Line comments may now start with `#`.
  - Trailing `;` after `fi` and `od` is now optional.
  - `then` and `do` keywords are now optional.
  - Do not require `main()` function in all par files.
- [Bug Fix] SHIPADDMARKINGLINES now correctly places vertical texts in mirrored parts.
- [Bug Fix] SHIPUPDATECHECK now correctly removes/changes surfaces if DrawingUnits are used.

10.5 Update 16 (2017-07-05)

- [New Functionality] Added new command SHIPATTACHFACEPLATE, which will associate a face plate with a part. This is useful if the association has been lost due to copying or other modifications.
- [Change] SHIPSETPARTDATAPOS now also works with stiffeners.
- [Change] Empty lines in text output in SHIPPARTS2DXF will now be skipped.
- [Bug Fix] Fix crashing issue in SHIPASSEMBLYMANAGER.

10.5 Update 15 (2017-05-31)

- [Change] Stiffener solids are now created (and updated) by default.
- [Change] SHIPMARKSTIFFENERS now better handles face plates.

10.5 Hotfix 14 (2017-05-20)

- [Bug Fix] Fix several issues related to Dynamic Parts.
- [Bug Fix] Fix issue with creating a 3D stiffener.

10.5 Hotfix 13 (2017-05-10)

- [Bug Fix] Fix several issues related to Dynamic Parts.

10.5 Update 12 (2017-04-19)

- [Change] Support commas in project name, directory, and description.
- [Change] Now correctly support adding new flanges and more than 1 flange in SHIPDEFINEFLANGES.
- [Change] Express Tool SHIPSETPARTDATAPOS now uses 'Jigs' for better feedback during move and rotation.
- [Bug Fix] Fix 'unconnected rapid point' message that was always shown during SHIPAUTOCUTTINGORDER.
- [Bug Fix] Fix a potential crash during automatic nesting.
- [Bug Fix] Fix Reference Line offset in some cases going to the wrong direction after copying.
- [Bug Fix] Fix crashing issue in SHIPDEFINEFLANGES.
- [Bug Fix] SHIPENDNEST no longer puts parts on the current layer, but on layer 0.

10.5 Update 11 (2017-03-28)

- [New Functionality] Add new express tool SHIPADDGREEN.
- [New Functionality] Add new profile type: quarter round aluminum.
- [New Functionality] Support creation of custom profile types. Please contact support for more information.
- [Change] Nesting process no longer moves parts to a different layer.
- [Bug Fix] SHIPPARTSSELECTOR now shows correct list of duplicate id's.
- [Bug Fix] Parts no longer lose the value of "Marking on other side", when they are modified. This means that copies of the Part in the same drawing now share the same value.

- [Bug Fix] Organiser nesting process now show all information of stiffeners that could not be nested.

10.5 Hotfix 10 (2017-02-10)

- [Bug Fix] Fix issue with stiffener solids.

10.5 Update 9 (2017-02-10)

- [New Functionality] The old express command SHIPPARTS2DXF has grown up and is now a fully supported command. You can find it in the NC pull down menu or the NC ribbon tab.
- [Change] SHIPCREATEPLATESOLID now has fewer questions to answer.
- [Change] SHIPLONGS3D2D is now a bit faster and creates better output curves for intermediate points.
- [Change] Added PARTSGEN project ini file option “bCreateSolidsForJtExport” so steel angle bars show correctly in JT files.
- [Change] The algorithm in SHIPCREATEPARTS was modified to be more efficient when creating Plate parts with many inner contours.
- [Bug Fix] Replacing an unknown stiffener code when synchronizing now also correctly saves the drawing.
- [Bug Fix] Fixed an infinite loop that could occur if a main database was not found.

10.5 Hotfix 8 (2017-01-30)

- [Bug Fix] Fix an issue where SHIPPARTS2DXF would write incorrect markings.

10.5 Hotfix 7 (2017-01-27)

- [Bug Fix] Fix an issue where SHIPSECTIONS would not detect any drawing as being in the assembly.

10.5 Hotfix 6 (2017-01-24)

- [Bug Fix] Fix a crash when adding an intersection drawing in SHIPASSEMBLYMANAGER.

10.5 Update 5 (2017-01-20)

- [Change] Default options for SHIPSINGLECURVEDEXPANSION have been changed to individual setting with an interval of 100, which will give best results for most occurring plates.
- [Change] You may now specify 0 thickness in SHIPCREATEPLATESOLID, which will result in the output of a lofted surface instead of a solid. ‘Outside’ and ‘inside’ of the solid direction are now determined more accurately.
- [Bug Fix] Fix a crashing issue in SHIPCREATEPLATESOLID.
- [Bug Fix] Using a wildcard with SHIPINSERTDIFFERENTBLOCKS now shows the correct blocks again.
- [Bug Fix] Fixed a problem with spline to polyline conversion.

10.5 Update 4 (2017-01-04)

- [Change] Organiser: A list of all stiffeners that could not be nested is now appended to the end of the saw list calculation report.
- [Change] Organiser: Greatly improved the speed of stiffener nesting.
- [Bug Fix] Fix synchronization issue where duplicate definitions would be added to the database.
- [Bug Fix] Organiser: Fixed an issue where only the first page of a report would be shown.
- [Bug Fix] Organiser: Fixed an issue where not all stiffeners would be nested.

10.5 Update 3 (2016-12-23)

- [Change] SHIPCOPY will now clear the previously selected parts list if the button ‘select from drawing’ is used to select other parts, making removing parts from the selection easier.
- [Change] Added a ‘maximum deviation’ option to SHIPPOLYVERTICES. Using this option will fit the curve so that the deviation between the polyline segments and the cubic spline curve is at most the entered value. MasterShip uses 0.1 mm internally.
- [Change] Input seams for SHIPDOUBLECURVEDEXPANSIONS will now have any double vertices removed.
- [Change] Added options to SHIPCONVERTLINES to convert:
    - from Splines, Arcs and Ellipses; and
    - to Splines

  This complements the existing commands SHIPSPLINE2PLINE and SHIPCURVE2SPLINE.

- [Change] The entities created by SHIPCONVERTLINES now keep the original objects Id, XData and XRecords.
- [Bug Fix] Fixed a crash when synchronizing certain Stiffeners.
- [Bug Fix] Fixed an issue where SHIPCONVERTLINES did not convert arc-segments in Polylines correctly.

10.5 Update 2 (2016-12-21)

- [Change] SHIPCREATEPLATESOLID now accepts all types of curves as input.
- [Change] Removed some obsolete commands.
- [Change] You can now use an apostrophe in the project folder or the project name.
- [Bug Fix] Fix a crashing issue in SHIPCREATEPARTS in some rare cases.

10.5 Hotfix 1 (2016-12-14)

- [Bug Fix] Fix a problem with polyline projection.

10.5 Main Release (2016-12-14)

- [New Functionality] Add new command SHIPFACEPLATE for easily creating face plate stiffeners.
- [Change] SHIPPARTS2DXF now asks if you want to change the color of entities with color by layer set to the effective color. So if an entity is on a yellow layer, the entity's color will be set to yellow. The layer of the entity is not changed.
- [Change] Solids of stiffeners are now much lighter, and the shape is more accurate for stiffeners containing arc segments.
- [Change] Synchronizing of large files with many parts is faster and more efficient.
- [Change] SHIPSYNCHRONIZEDATA and SHIPSYNCHRONIZEPROJECTFOLDERS now show a detailed error log on completion, if any errors occurred.
- [Change] Updated ribbon icons for AutoCAD 2017.
- [Change] Tutorial can now be installed anywhere.
- [Change] Selecting a part will now show the material in the AutoCAD properties palette.
- [Change] Slightly changed the wording and layout of the Stiffener creation/edit dialog for clarity.
- [Bug Fix] Fixed several memory leaks potentially resulting in a crash.
- [Bug Fix] Synchronizing an unknown stiffener will now correctly add it to the database if that option is chosen.
- [Bug Fix] Fixed mistakenly mirrored text created by SHIPSETTEXTINPLATE

10.4

New Functionality

- Added preliminary support for Microsoft SQL Server databases**.** Please contact support if you are interested in using this functionality.
- New command: SHIPFIND, finds Parts with the given name in the current drawing.
- New ExpressTool: SHIPSETPARTDATAPOS to quickly move PartData. See SHIPEXPRESSTOOLSHELP for information.

Changes

- Solids of plate parts are now much 'lighter' as they are based upon spline representations. This also causes them to be more correct visually when the part contains polylines.
- SHIPPARTSSELECTOR now does a new drawing scan by default.
- Added custom insertion point option for output to SHIPDRAWINTERSECTIONS.
- Templates used for generating intersectional drawings are now selected from <project dir>\Templates by default.
- Stiffener pos nr. suggestions are now according to the selected scheme on startup.
- Greatly improved ease of use of SHIPASSEMBLYMANAGER dialog.
- Organiser is now a 64-bit executable.
- Improved contour detection of SHIPDEFINEFLANGES
- You can now also enter a simple range like "3-9" whenever an interval may be used. This range always has a stepsize of 1.
- Greatly improved the speed of SHIPCOPY and SHIPADDDETAIL.

- Improved highlighting during SHIPADDDETAIL.
- SHIPADDDETAIL now also supports 'repeat'ing.
- Add several new basic templates: Floor A, Floor B, Web A.
- Greatly improved speed of SHIPINSERTPARTS dialog.
- Cutting compensation for stiffener nesting is now set to enabled by default, and set to 4mm.
- SHIPDEFINEFLANGES now supports angles from 0 to 90 degrees.
- SHIPCREATELEADER now works in UCS.
- SHIPPARTS2DXF output is now much more configurable. See SHIPEXPRESSTOOLSHELP for information.
- Removed obsolete command SHIPEDITDYNPARAMS.

Bug Fixes

- Fix SHIPDOUBLECURVEDEXPANSION output if custom insertion point was selected.
- Fixed some issues where SHIPALIGN did not correctly create a Part.
- Fixed crashes related to closing/opening Organiser.
- Fixed several issues with Stiffener solids.
- Fixed an issues with SHIPRENAMEPART corrupting selected parts.
- No entities on locked or non-visible layers are auto-selected for plate part creation.
- Fixed several issues with SHIPCOPY and SHIPADDDETAIL

10.3

New Functionality

- SHIPPLATEMOLDSET and SHIPPLATEMOLDSET2MOLDS commands added to the *NC* menu. These commands will create a set of Plate Molds and convert the set to individual molds that can be cut.
- *Stiffeners* now have "Start gap" and "End gap" properties so that the stiffener can be shorter than the base line.
- When creating *parts* and *stiffeners*, you now have the option to immediately place a mirrored copy of the part or stiffener on the other side of the vessel. For frame and horizontal drawings, the component is simply mirrored. For longitudinal drawings, the component is copied to the corresponding drawing on the other side of the vessel, if it exists. The component is then inserted mirrored.
- New Express Tool: SHIPCONTOUROFFSET. This command will offset any curve to the given direction, with an optional start and end gap. This is useful for creating 2D views of stiffeners in construction drawings.
- Support for 'double HP' type stiffeners.
- SHIPCOPY now also copies stiffeners.
- New ExpressTool: SHIPMARKINGTEXT, to add a text in the middle of a marking line.
- New ExpressTool: SHIPMARKSTIFFENERS, adds the marking lines for stiffeners to parts.

Changes

- If you want to edit a stiffener, you may now do so directly inside the block using REFEDIT. All entities that are on the defined stiffener shape layer (StiffenerShape by default) will be considered part of the stiffener. Make sure that the entities connect, however.
- SHIPCREATELEADER has several changes: You can now select a Part or Stiffener, and it will create a copy of the PartData or StiffenerData block, and insert it directly (previously you had to first create a copy manually). It will also link the copy to the original (using Fields) so that if the original Part changes, the leader contents will also change.
- SHIPFREEPARTTEXT now creates copies of texts and PartData and StiffenerData blocks that are linked to the original (using Fields).
- SHIPSETTEXTINPLATE now works like SHIPFREEPARTTEXT did; it creates text and blocks unmirrored, in the original position, with optionally replacing the PartData with the Pos. Nr. (it does not link the text and blocks to the original, as during post-processing the original Part may be purged from the drawing.)
- Parametrics cutout 6 has been changed so that selecting a line with a length equal to the specified radius will work.
- SHIPSECTIONS command is now added to the *Parts* menu and will now generate sections of solids in other assembly drawings that can be used to create dynamic parts. Output is placed on a specific layer.
- Stiffener end-detail blocks are no longer added by default because stiffener solids show the end details. (If you still want to use them, add bDrawEndDetailBlocks=1 to the [PROFILES] section of your *MasterShip.ini*.)

- Part modifications commands on the ribbon have been moved to the NC tab.
- SHIPRENAMPARTS now works with wildcard renaming.
- SHIPPARTSSELECTOR has its “Apply entered numbers” option removed, and now always inserts the actual numbers of parts to prevent mistakes.
- SHIPCREATESTIFFENER now supports closed-loop stiffeners.
- When reference lines don’t quite intersect, an intersection can now be found.
- MasterShip now should not generate any 2D Polylines (but only lightweight (optimized) Polylines) unless PLINETYPE is set to 0.

Bug Fixes

- Several issues with creation of Stiffeners and solids were fixed.
- Fixed an issue where database connections where not removed correctly.
- Fixed several issues in Assembly Manager
- Dates in SHIPUPDATECHECK overview window are now correct.

10.2

New functionality

- SHIPSTIFFENERPLOT command added. This command will create drawings containing stiffener plots for all the stiffeners in the specified Production Units.

Changes

- Removed all ‘number normal/number mirrored’ and symmetrical options in new projects. These options were confusing and made it difficult to get a good overview of the project. Parts must now actually be in an assembly drawing to be counted. You may use the AutoCAD MIRROR command to create a mirrored Part.
- Upside-down nesting: A new “Marking on other side” checkbox is added to the PartData dialog. If this is checked, the Part will be inserted upside-down when using SHIPPARTSSELECTOR so that marking will be put on the reverse side. Note that this checkbox is set/changed only for the selected Part, and not for any copies or mirrors. (If you copy/mirror a Part after setting the checkbox, the setting is copied also.)
- SHIPDOUBLECURVEDEXPANSION: texts of orientation arrows are now placed on the defined text layer.
- Greatly improved performance of SHIPCOPY/SHIPUPDATE: drawings are now opened only once and a part is now only updated once for all changes.
- Improved database performance
- If a new stiffener type is detected during synchronization, you can now add a purchase length, and a countdown timer has been added to prevent the process from hanging if the user is not at the workstation.
- Greatly improved performance and accuracy of stiffener solids:
    - Solids are now created using a spline as a base curve, resulting in much lighter solids.
    - Profile dimensions are now specified exclusively in the main database and the MasterShipProfiles database is no longer needed and has been removed.

Bug fixes

- SHIPDOUBLECURVEDEXPANSION now generates a correct expansion when you specify butts.
- Creating a reference line by offsetting an existing line will no longer crash AutoCAD.
- Parts can now be copied to an opened drawing again.
- SHIPADDDETAIL no longer removes the part thickness of a Part.
- Fixed a bug where SHIPASSEMBLYMANAGER would crash after generation.
- When using SHIPCOPY to copy Parts without a thickness, it will only will ask for a thickness once.
- SHIPCOPY no longer crashes during copying a non-dynamic part.
- A change in the MSD file now correctly updates the intersection lines in the drawings when SHIPUPDATECHECK is used.
- SHIPMIDDLESEAM no longer crashes when there is no active 3D GEO-file in the project.
- SHIPSYNCHRONIZEPROJECTFOLDERS no longer results in crash, when it faces a more recent version of DWG-file.
- Fixed a bug where SHIPENDNEST did not remove the nest contours anymore.
- Fixed a bug where SHIPAUTOCUTORDER did not work in some cases.

- SHIPSINGLECURVEDRULERS now works properly again.
- ORGANISER - Define Assembly... – Pressing the [Cancel] button now leaves the definition unchanged.
- SHIPSYNCHRONIZEDATA no longer writes duplicate records when synching a non-assembly DWG.
- SHIPDOUBLECURVEDEXPANSION now creates a MasterShip Part if the option is checked.
- SHIPCREATEPARTS no longer modifies polylines which contains arcs.
- Fixed issue with UCS changes in SHIPPARASINGLEWELDINGHOLE.
- SHIPASSEMBLYMANAGER now asks for thickness direction when you add a new intersection.
- SHIPADDDETAIL now gives command line feedback if it did not complete successfully

10.1

New functionality

- SHIPREMOVEDETAIL command added, allowing you to remove a part detail.
- **New stiffener types and end details** added for IPE and HEA, HEB beams.
- SHIP3DSTIFFENER command added. This allows you to create a 3D stiffener (like longitudinal hull stiffener) in a 3D model drawing from the baseline and an offset line.
- SHIPSECTIONS command added. This command takes as input one or more assembly drawings, and will generate an intersection of all solids in those drawings, then insert them in the correct location in the current drawing. You can also select a 3D model drawing as input.

Changes

- MasterShip menu's will now be loaded and unloaded automatically (AutoCAD 2013 and higher).
- SHIPCONVERTLINES can now convert all straight polylines to lines.
- MasterShip startup speed and database access has been improved.
- When a part is no longer inserted in the drawing, the definition is removed upon synchronization.
- Updated the SHIPEDITTAGS dialog to be more functional. You can now see the tag of the entities selected on screen and zoom to an entity.
- You may now lock the contour output layer of assembly drawing templates. SHIPASSEMBLYMANAGER will unlock/relock the layer when needed.
- MasterShip will now check for updates once a week

Bug fixes

- SHIPUPDATECHECK: Fixed issue where model intersections would not be updated correctly.
- SHIPUPDATECHECK now has better and clearer reporting.
- SHIPNAMEDPARAMETERS now displays an error when renaming a parameter to a name that exists.
- SHIPEDITPARTPARAMS now highlights the entities belonging to a detail when the detail is selected (in 3D views)
- SHIPEDITPARTPARAMS no longer includes the current part in the 'related parts' count.
- Made editing of named parameter in SHIPEDITPARTPARAMS less confusing.
- Fixed an issue where SHIPCREATESEAMTYPE did not properly calculate the angle when offsetting a seam perpendicular to the surface.
- SHIPCOPY no longer displays a dialog when an entity cannot be found.
- SHIPCOPY and SHIPUPDATECHECK will no longer create Part solids if they didn't exist.
- SHIPADDDETAIL now updates all present solids.
- SHIPADDDETAIL will no longer fail if a Part has been moved.
- SHIPCREATESTIFFENERS and SHIPSTIFFENERS2SOLID now better support stiffeners that are composed of multiple entities.
- SHIPSTIFFENERS2SOLID no longer corrupts stiffeners if UNDO was called after.
- SHIPSTIFFENER2SOLID: Fixed an issue where a snipe would not be shown.
- SHIPASSEMBLYMANAGER now makes a backup copy of your assembly before regenerating.
- SHIPCREATEPLATESOLID now handles the case where solid is placed on both sides correctly.
- SHIPLONGS2D3D and SHIPLONGS3D2D: Fixed several issues with incorrect output.
- SHIPPREPARE2NEST no longer gives an error if you change the thickness of the parts you are nesting.
- SHIPASSEMBLYMANAGER should now correctly open the assembly drawing after generation.

- Fixed an issue where SHIPSINGLECURVEDSECTIONS would give incorrect output.
- SHIPDOUBLECURVEDEXPANSION should no longer crash when frame lines are selected to be marked.
- SHIPDOULBECURVEDEXPANSION now makes a correct expansion when fore and aft butts are selected.
- Fixed a UI issue with surface selection in SHIPDRAWSURFACES
- When defining a flange, SHIPDEFINEFLANGES will now more accurately detect the flange contour.
- SHIPDEFINEFLANGES will now update the part solid.
- SHIPPARAMETRICS: Slotwelds are now created with the correct dimensions.
- SHIPPARAMETRICS no longer crashes when not working in a project.
- Running SHIPCREATENCCODE with plasma bevel template now gives correct output for a beveled edge.
- Contour detection during Part creation has been improved to handle edge cases with very short entities better.
- SHIPTANGENTLINES fixed output problem when OSNAP was set.
- SHIPPOLYVERTICES now succeeds even when there are double points.
- SHIPPOLYPROJECTION now works as expected when not working in WCS
- Organiser Assembly Definition: Fixed some UI issues.
- Organiser COG: Fixed some issues where the COG was not correctly calculated.
- Organiser Sync: When detecting a new stiffener type, the type will be displayed and when added it will get a purchase length.
- Most file paths are now displayed and stored as relative paths, making migration easier.
- Fixed some reports not working in Organiser

10.0

New functionality

- **TOM Update**. Existing Parts can now be updated whenever one or more of their parameters change. *This enables you to create Parts much earlier in the design/building process.* Whenever an MSD surface or a named parameter changes, or a detail is added to a Part, MasterShip will save this event in the database. Using the new SHIPUPDATECHECK command, you will see an overview of changes to be processed. You can then tell MasterShip to update your Assembly drawings with the new intersections and update all Parts to reflect all changes.
    - New commands: SHIPUPDATECHECK, SHIPEDITPARTPARAMS
- **TOM Reference lines** will enable the designer to quickly and efficiently “sketch” Part contours using the SHIPREFERENCELINE command, which will create new or convert existing geometry to a parametric form. *This will allow you to quickly create new shapes and still profit from the advantages of dynamic parts.* When you use the reference lines for Part creation, they can be copied to other frames and be updated to the local shape. The reference lines will be re-created in the other frames as necessary.
    - New commands: SHIPREFERENCELINE, SHIPREFERENCELINEVISIBILITY, SHIPREFERENCELINEPROPERTIES
- **AutoCAD surfaces, solids and regions can now be added directly to MSD**. The SHIPCONVERT2SURFACE and other Geometrics commands now also work on surfaces, solids and regions. (Solids only in AutoCAD 2013 and later.) *This will make conversion from another hull-modeling software package much quicker, more efficient, precise and error-free.*
- **Beveled cutting** support for single-cut bevels has been added. The cutting machine must support this and a special cutting template specific for the machine must be made. Please contact MasterShip support for more information.
    - New commands: SHIPDEFINEBEVEL, SHIPDELETEBEVEL, SHIPSHOWBEVELINFO, SHIPHIDEBEVELINFO
- **SHIPCREATELEADER** command will move an existing text or block with a multileader.
- **SHIPCREATEPLATESOLID** command**.** The 3D shape of a plate can now be visualized using the new command. Just select the seams, butts and frame lines and enter a thickness and direction. MasterShip will then create a lofted surface using this information and thicken it according to your input.

Updates

- SHIPLONGS2D3D / SHIPLONGS3D2D now support intermediate points.
- SHIPSPLINE2PLINE completely rewritten and now also supports circles, ellipses and arcs.

- Faster startup and initialization of MasterShip
- If Parts cannot be nested with SHIPPREPARE2NEST, an error message is shown only once.
- Stiffener end details now accept a cutout radius of 0 mm.
- SHIPCREATESTIFFENERS: Shape lines are now put on a user-definable layer.
- Modified and created some new Parametrics templates.

Bug fixes

- SHIPFREEPARTTEXT now correctly positions all texts.
- Removed some 3D object snap sensitivity.
- Fixed some issues with SHIPASSEMBLYMANAGER: now generating all intersections, correctly imports existing drawings and generates correct intersections if interpolation has been turned off.
- SHIPADDDETAIL now correctly saves the material of a component.
- Fixed SHIPRENAMEPART sometimes not renaming all parts.
- Fixed display of Stiffeners if they contain very small Z-values.
- -SHIPDRAWINTERSECTIONS will now correctly accept Frame as a direction.
- SHIPEDITINLEAD no longer causes crashes.
- Fixed some issues with processing straight 3D polylines not being projected correctly.
- SHIPADJUSTPART did not work correctly in some cases. This has now been fixed.