

The Atlas Copco logo is positioned in the top right corner of the image. It consists of the company name "Atlas Copco" in a white, serif font, centered between two horizontal white bars. The logo is set against a dark blue rectangular background.A technical drawing of a die is overlaid on a blue triangular graphic in the bottom left corner. The drawing shows a cross-section of a die with various dimensions and labels, including "DZ11-150", "DZ11-175", "DZ11-200", and "DZ11-225".

Henrob die catalog

Breakdown of Henrob
part numbers for
self-pierce riveting dies

Henrob die catalog

Die part number build up

DXXXXXXXXXXXXXX is the standard part numbering format for dies

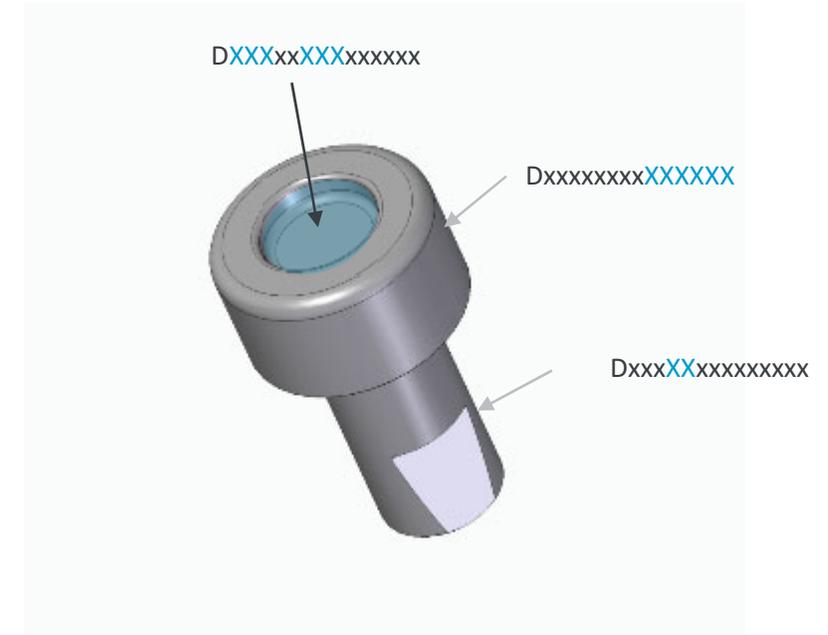
DXXXXXXXXXXXXXX – Die Cavity Profile Type (may be no letter here)

DxXXXXXXXXXXXXXX – Die Cavity Nominal Diameter

DxxxXXXXXXXXXXXX – Shank Diameter Length

DxxxxXXXxxxxxxx – Die Profile Depth

DxxxxxxxXXXXXX – Die Head Geometry



*Note - Process Work reports may reference only the profile part of the die – DXXX-XXX,
(Profile Type & Diameter – Profile Depth)*

Henrob die catalog

Die part number build up – example (i)

DG0902200H1R1.5 is the part number for the die below

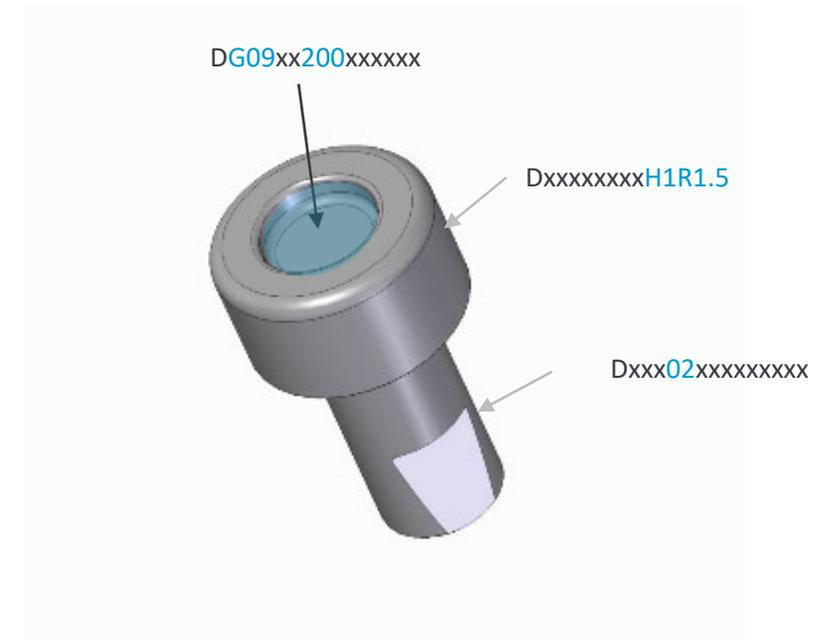
DG0902200H1R1.5 – Die Cavity Profile Type “G” – (flat die)

DG0902200H1R1.5 – Die Cavity Nominal Diameter is 9mm

DG0902200H1R1.5 – Shank Diameter is 10mm, Length is 20mm

DG0902200H1R1.5 – Die Profile Depth is 2mm

DG0902200H1R1.5 – 10mm tall die with 1.5mm radius around the edge



Note - Process work reports may reference only the profile part of this die as – DG09-200

Henrob die catalog

Die part number build up – example (ii)

DZ0764000 is the part number for the die below:

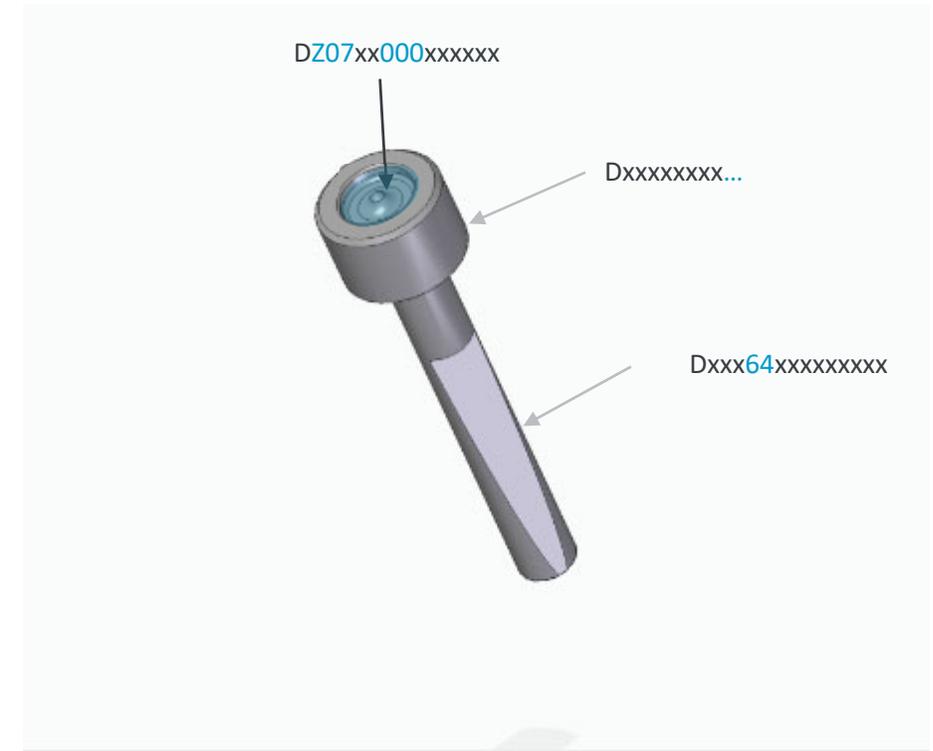
DZ0764000 – Die Cavity Profile Type “Z” – (pipped die)

DZ0764000 – Die Cavity Nominal Diameter is 7mm

DZ0764000 – Shank Diameter is 6mm, Length is 40mm

DZ0764000 – Die Pip Depth is flush to top surface

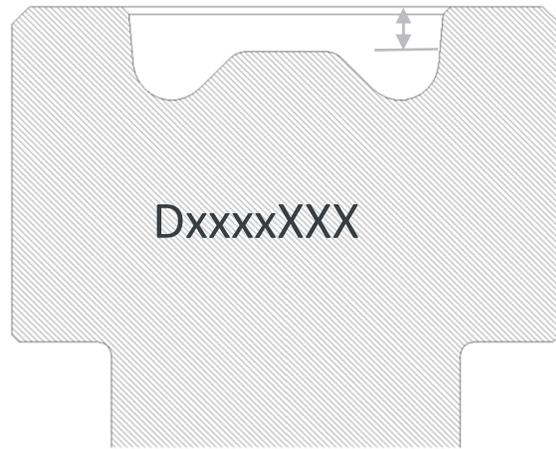
DZ0764000... – 8mm tall die with 0.5mm chamfer around the edge



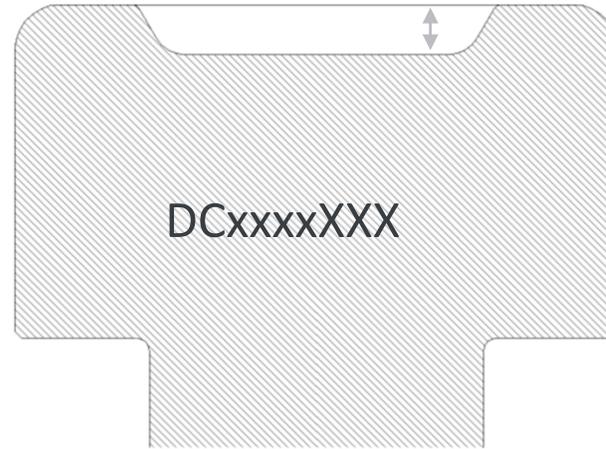
Note - Process Work reports may reference only the profile part of this die as – DZ07-000

Henrob die catalog

Profiles (i)



- Non-automotive die
- Used with R and P rivets only
- Used when riveting lower-tensile steels
- DxxxxXXX refers to pip height below surface of die.
- Head diameter of this die is usually 16mm across the range



- Automotive die
- Used with shorter C rivets
- Used when riveting low-elongation castings
- DCxxxxXXX refers to cavity depth below surface of die
- Can produce high forces



- Automotive or general industry die
- Used with all rivet types
- Used when riveting all materials
- DFxxxxXXX refers to cavity depth below surface of die
- Deeper versions (>120) superseded by “DG” series.

Henrob die catalog

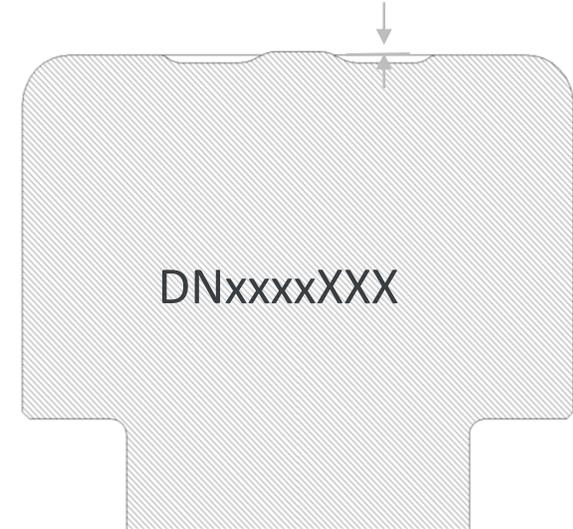
Profiles (ii)



- Automotive or general industry die
- Used with all rivet types – ONLY type to be used with T rivets
- Used when riveting all materials
- DGxxxxXXX refers to cavity depth below surface of die



- Automotive die
- Used with shorter C rivets
- Used when riveting low-elongation castings
- DKxxxxXXX refers to cavity depth below surface of die
- Can produce high forces



- Automotive die
- Used with very short 3mm C rivets
- Used in Aluminium only.
- Used when low-profile button is required
- DNxxxxXXX refers to cavity depth above surface of die
- Care to be applied – very small stackup/rivet length feasibility

Henrob die catalog

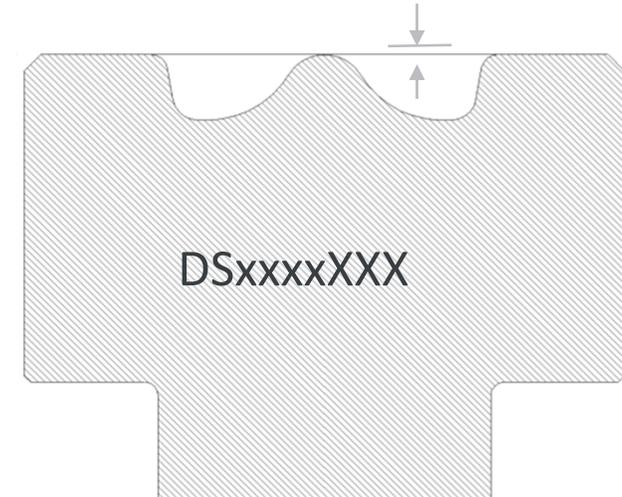
Profiles (iii)



- Automotive die
- Used with short or medium length C and K rivets
- Used in aluminum only, may be better suited for higher strength, lower ductility aluminium
- DPxxxxXXX refers to cavity depth below surface of die
- Can produce high forces



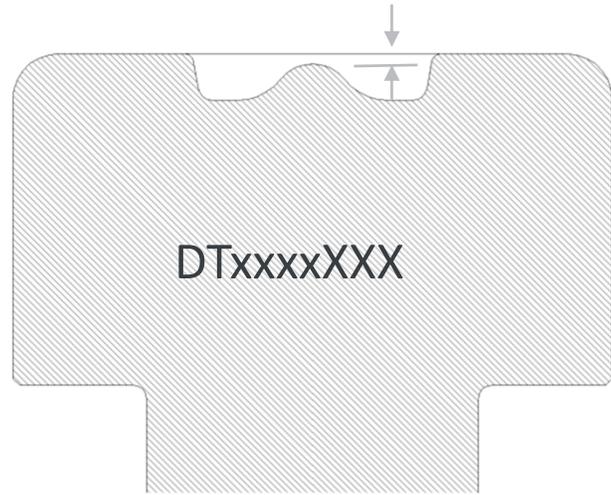
- Automotive or general industry die
- Used with all rivet types
- Used when riveting all materials
- DRxxxxXXX refers to cavity depth below surface of die, ('+50' = above)



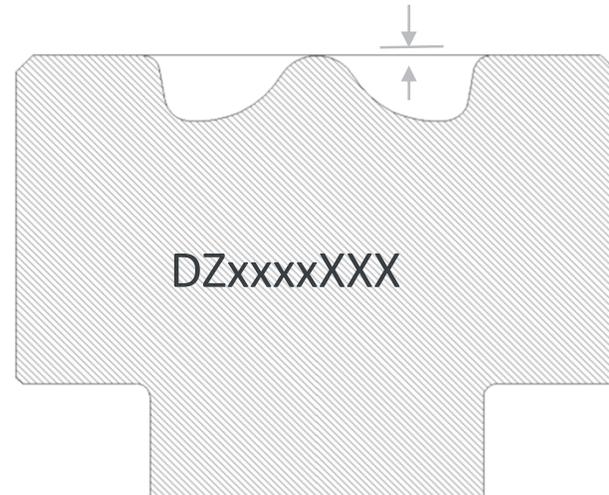
- Automotive die
- Used with short or medium length C and K rivets
- Used in aluminum only.
- DSxxxxXXX refers to pip depth above surface of die

Henrob die catalog

Profiles (iv)



- Automotive die
- Used with 3mm rivets only
- Used in aluminum only, may be better suited for higher strength, lower ductility aluminium.
- DTxxxxXXX refers to pip depth below surface of die

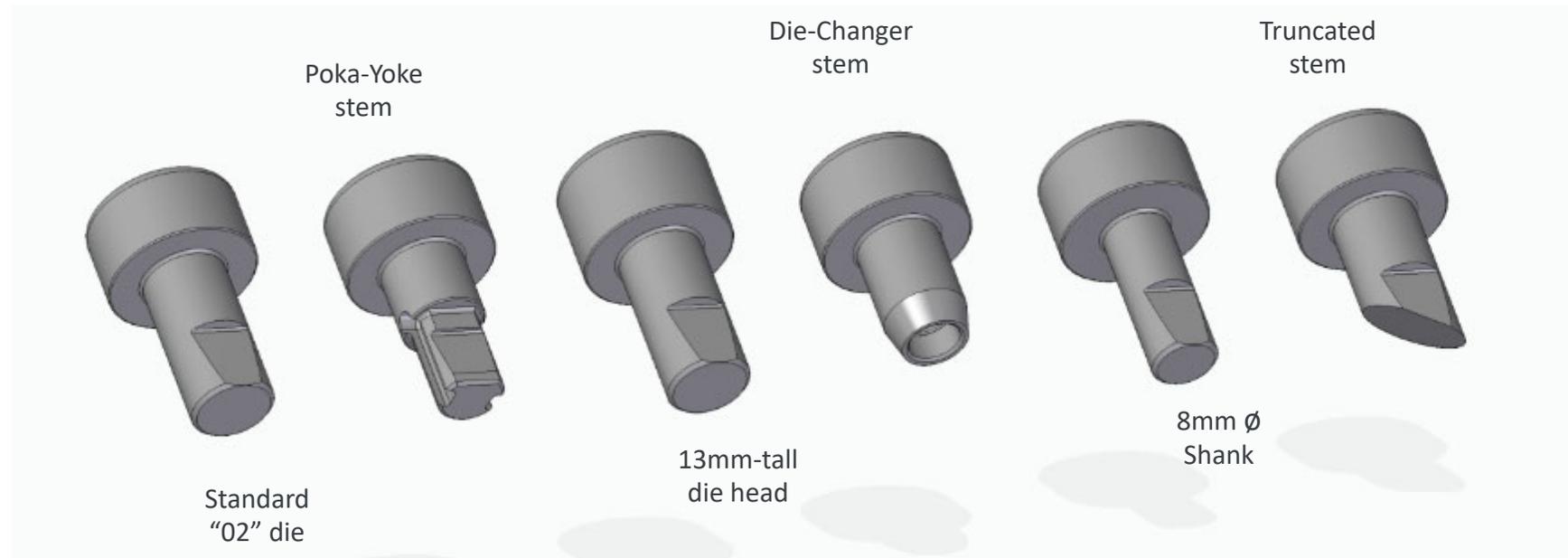


- Automotive die
- Used with short or medium length C and K rivets
- Used in aluminum only
- DZxxxxXXX refers to pip depth above surface of die

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Exceptions to standard die part numbers

- There are some exceptions to the standard external formats, usually down to individual setter requirements
- These must be requested specifically as they may not be available across profile ranges
- Example:



Atlas Copco

