

1st edition

DOA 1916 T, 5 heller part B, die catalogue

23-8-2011

2nd edition 23-8-2012,

3rd edition 17-3-2017

4th edition 23-9-2024

Kees Uitenbroek

DOA 1916 T, 5 heller part B, die catalogue shows the combinations in alphabetical order of the H-side.

Die combinations are bookmarked.

Pictures are better seen if you enlarge the percentage in the toolbar of Acrobat Reader.

Blue numbers link in pdf-format direct to pictures on www.zeno.ru

From paper the number may be entered in search top left on that site.



D1 oval bottom

(5) fivers 1st row

2nd row & D13-28



D2

D4

D8

D10

D11



D3

D5

D6

D7

D12

H1-D1 has an oval bottom crown. (KM 14.1, Jaeger 723a).

(5) indicates “fivers”, die-combinations of dies that were intergrated into one block to strike 5 coins in one go. The coins have a straight bottom crown.

As a rule H1-D1 through H11-D11 have a weight of 4.0 grams or more and H12-D13 through H28-D28 rarely reach over 3.8 grams.



"Thick coins" 6,9, 6,5, 5,6, 5,5, 5,4 (2x), 5,3 (9x), 5,2 (9x), 5,1 (12x), 5,0 (3x), 4,9 (11x), 4,8 (4x), 4,7 (7x), 4,6 (3x), 4,5 (5x), 4,3, 4,2 (2x) grams

119 # [229165](#) 120 # [73460](#) 120m # [112451](#) 121 # [73695](#) 121a # [223961](#) 121b1 # [223962](#) 121b2 # [223963](#) 122 # [73814](#) 124 # [73815](#) 125 # [84069](#) 126 # [73816](#) 130 # [73817](#) 2017a # [199419](#) 2017b # [199420](#) 2017c # [199403](#) 2017d # [199382](#) 2018 # [216869](#) 2019 # [248140](#) 2020 # [266031](#) 2021 # [289821](#) 2022 # [307341](#) 2023 # [328610](#)

H1

Double struck die, double lines at leaves top right.

Filing lines through 5 and below right E.

D1

Oval base of crown, "Modifiziertes Stempel".

Line on top left of crown.

On some coins right ornament fully struck.



At left side of H-die and right side of D die small pieces broken off.

Die alignment rotating and shifting, see [229165](#)



"Thick coins" 5,3, 5,1, 4,7 (2x), 4,5 (3x), 4,4, 4,3 (4x), 4,2, 4,0 (2x) grams

180 # [73740](#) 180m # [112453](#) 185 # [73726](#) 186 # [101890](#) 2017a # [199421](#) 2017b # [199400](#) 2017c # [199383](#) 2018 # [216870](#) 2020 # [266032](#) 2021 # [289822](#) 2022 # [307342](#) 2023 # [328611](#)

H2

Double struck die, double lines at leaves top right, 5 and R.

Lower ends of twigs touch rim

D2

Straight base of crown.

No cross on crown



A small dot appears above the rim at the bottom.
Most H2-D2 known to me show multiple striking.



"Thick coins" 5,3, 4,9, 4,8, 4,4 (3x), 4,3, 4,0 grams

210 # [73466](#) 212 # [73467](#) 213 # [279090](#) 2017a # [199425](#) 2017b # [199401](#) 2018 # [216871](#) 2019 # [248142](#) 2020 # [266033](#) 2021 # [289823](#) 2022 # [307343](#) 2023 # [328612](#)

H3.cc

Circle lines with central hole.

D3.hs

Haircrack appears.



Self-strike of crown above 5.at first a little bit higher touching berry

H4-D4

>-- (5)



“Thick coins” 5,3, 5,0, 4,6, 4,4, 4,3 (2x), 4,0, 3,9 grams

240 # [73545](#) 240a # [227537](#) 240m # [112459](#) 2017a # [199426](#) 2017b # [199384](#) 2018 # [216872](#) 2019 # [248143](#)
2020 # [266034](#) 2023 # [328613](#)

H4

Lower ends of twigs far from rim

D4.vs.br

Straight base of crown

Filing line bottom right.

Piece broken off die at left ornament



Most H4-D4 known to me show multiple striking.



"Thick coins" 4,8, 4,4, 4,3, 4,2 (2x), 4,1 (4x), 3,9 grams

270 # [73457](#) 270b # [279093](#) 271 # [73738](#) 274 # [73459](#) 2017a # [199427](#) 2017b # [199402](#) 2017c # [199385](#) 2018
[216873](#) 2019 # [248144](#) 2020 # [266035](#) 2021 # [289825](#) 2022 # [307338](#) 2023 # [328614](#)

H5.vs

Filing lines above HELLER

D5.cc.vs

Filing line above 16 and circle lines between 1 and 6 stay long visible.



Self-strike of crown left of top of 5.

H6-D6

>lo



"Thick coins" 6,8, 6,7 (3x), 6,6, 6,2, 5,4 (3x), 5,3, 5,2 (2x), 5,1 (2x), 5,0 (3x), 4,8, 4,6, 4,4 (2x) grams
 299m # [112560](#) 300 # [73470](#) 301 # [224061](#) 302 # [73471](#) 303m # [112557](#) 303p # [298925](#) 304 # [73541](#) 2017a # [199428](#) 2017b # [199399](#) 2018 # [216874](#) 2018b # [216875](#) 2019 # [248145](#) 2020 # [266036](#) 2021 # [289826](#) 2022 # [298925](#) 2023 # [328615](#)

Shifting die position

H6.vs
 Filing line right
 Double struck die left of H
 Leaf touches rim at left side

D6.vs
 Filing lines bottom right



H6.br
 Piece broken off die top right.
 Haircrack from bottom to right L.

H7-D7

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"Thick coins" 6,0 (2x), 5,9 (2x), 5,8, 5,7 (8x), 5,6, 5,5 (4x), 5,4 (7x), 5,3, 5,2, 5,1 (5x), 4,9, 4,8 (8x), 4,7 (6x), 4,5 grams

330 # [73406](#) 331 # [101951](#) 331HEC # [224067](#) 333 # [77291](#) 335 # [73594](#) 336 # [73458](#) 337 # [75356](#) 2017a # [199430](#) 2017b # [199404](#) 2017c # [199386](#) 2018 # [216876](#) 2019 # [248146](#) 2020 # [248146](#) 2021 # [289827](#) 2022 # [307340](#) 2023 # [328616](#)

H7.vs

Filing lines below HELLER

D7.cc.vs

Filing lines lower part and circle lines in 1916
Tip of left ribbon weekly struck.



Self-strike of twigs at bottom D-die.

H8-D8

>-- (5)



"Thick coins" 4,9, 4,8, 4,7, 4,5, 4,4 (2x), 4,3 (2x), 4,2 (2x), 4,1 (3x), 4,0 (2x) grams
(2 H8-D8 were seen in a lot of 15 coins described as being 3.0 - 3.7 grams)

359 # [73468](#) 359e # [96943](#) 360 # [73517](#) 360e # [88406](#) 360f # [=180279](#) 360m # [112559](#) 2017 # [199433](#) 2017a # [199387](#) 2018 # [216877](#) 2019 # [248147](#) 2020 # [266038](#) 2021 # [289828](#) 2022 # [307333](#) 2023 # [328617](#)

Might be confused with H25-D25 with similar piece broken off at bottom right end of twig.

H8.br
Piece broken of die bottom right.

D8.vs
Straight base of crown
Filing lines bottom right.
No cross on crown visible.



Most H8-D8 known to me show multiple striking.

H8-D11

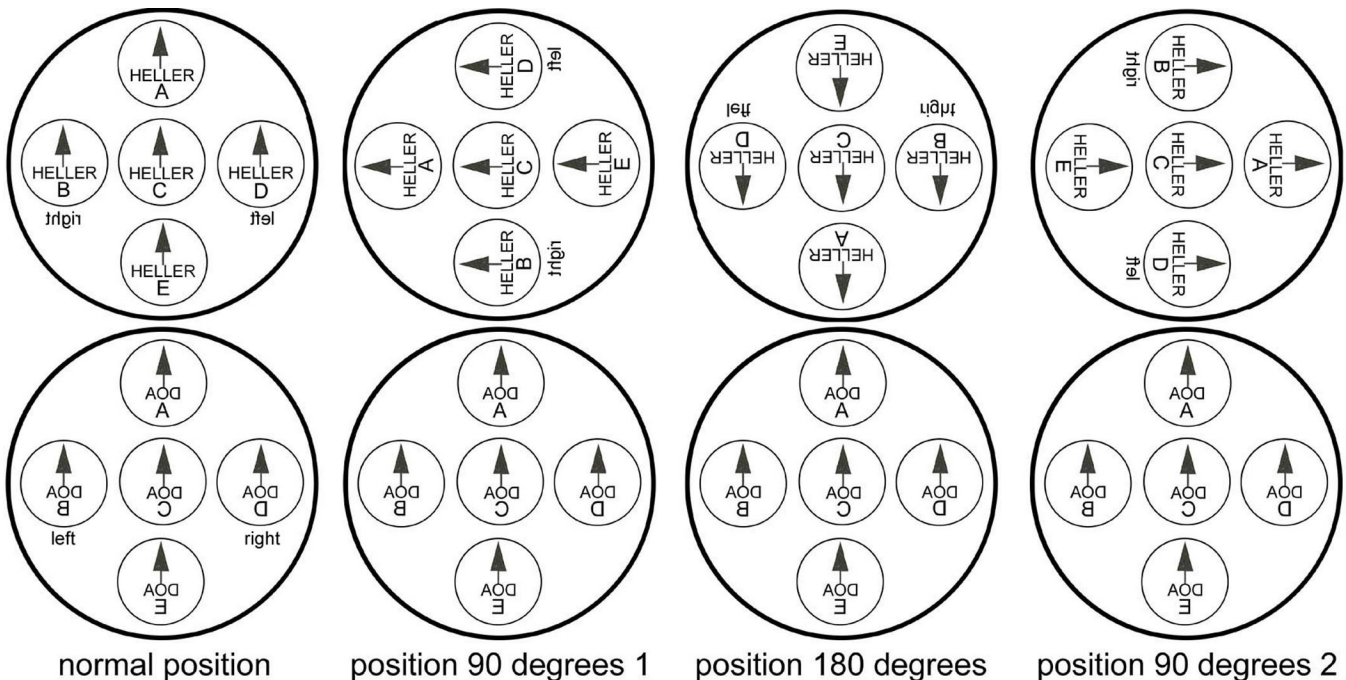
>-- (5)



Die axis turned 90 degrees position 1

370 # [167370](#)

H8.br See H8-D8.	D11 See H11-D11
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It must have been possible to place the blocks with the “fiver” dies on top of each other in four different positions. If the DOA block was the lower one, the HELLER block must have been put on top of it turned 90 degrees left to produce this H8-D11 coin. Thus, looking at the blocks with the dies facing upwards, H8 would be the anticlockwise neighbour of H11 along the rim of the HELLER block and D8 the clockwise neighbour of D11 in the DOA block.

For all fiver dies coins may be found with die axis turned 90 degrees in position 1.

“Fiver” dies see: <http://www.zeno.ru/showphoto.php?photo=73749> and <http://www.zeno.ru/showphoto.php?photo=89408>



"Thick coins" 5,1, 5,0, 4,9, 4,8 grams

420 # [73542](#) 420m # [112562](#) 2017a # [199431](#) 2018 # [216878](#) 2019 # [248148](#) 2023 # [328618](#)

H10

Double struck die. Bottom of H left of H and of O (?) between leaf and berry bottom left. Dent in bottom end of twig left.

D10

Straight base of crown, cross hardly visible. Abrupt change of direction of inner side of left ribbon near crown.



Most H10-D10 known to me show multiple striking.

H11-D11

>-- (5)



“Thick coins” 4,7, 4,4, 4,3 (3x), 4,2, 4,1 (2x), 4,0, 3,8 grams

449 # [109890](#) 450 # [73735](#) 450m # [112564](#) 2017a # [199432](#) 2017b # [199405](#) 2017c # [199389](#) 2018 # [216879](#)
2020 # [266046](#) 2021 # [289830](#) 2023 # [328619](#)

Shifting die position exactly 12 o'clock. But for die rotation H11-D11 = H11A-D11A

H11

Lines at T and twig bottom right.
Top right of left L not struck.
Small twisted triangle in left E.

D11

Straight bottom of crown.
Cross not visible.



Small piece broken off at bottom of D-die.
Most H11-D11 known to me show multiple striking.

H11A-D11A

>-- (?)



“thick coins” 4,8 grams

460D # [73596](#)

Dies rotated 3 degrees. But for die rotation H11-D11 = H11A-D11A

Known from just one coin.

H11A = H11
Top of left L

D11A = D11
Straight bottom of crown.
No cross visible.
Piece broken of die at bottom



“thin coins” 3,4, 2,9 grams

480 # [73544](#) 2017a # [199406](#) 2019 # 2020 # 2021 # [289831](#) 2022 # 2023 #

H13 was used afterwards in combination with D13.

H13.hs

Haircrack starts middle right, extends later over
ER to bottom right.
Some filing lines

D12.vs/hs

Filing line or haircrack at end of right ribbon.

H13-D13

>lo



“thin coins” **4,1**, 3,5 (3x), 3,4 (2x), 3,3 (7x), 3,2 (5x), 3,1 (5x), 2,8, 2,7 (2x) grams
 501 # [73503](#) 502 # [73489](#) 503 # [77028](#) 504 # [73490](#) 506 # [77029](#) 2017a # [199434](#) 2017b [199407](#) 2017c # [199390](#) 2018 # [216881](#) 2019 # [248153](#) 2020 # [266047](#) 2021 # [289832](#) 2022 # [307329](#) 2023 # [328621](#)

H13 was used before in combination with D12.

H13.hs

Haircrack from middle right over ER to bottom right.

D13.vs

Filing lines on large parts of die.



Full crack



"thin coins" 3,3, 3,2, 3,1 (2x), 3,0, 2,8 grams

550 # [73477](#) 552 # [73628](#) 553 # [77276](#) 554 # [298114](#) 2018 # [216882](#) 2021 # [289834](#) 2022 [307330](#) # 2023 # [328623](#)

D15 was used afterwards in combination with H15.

H14.cc.vs.hs

Remnants of circle lines, filing lines right of 5.

Haircrack right.

D15.vs

Filing line below right ribbon.



H-side additional haircracks from bottom upwards, D-side haircrack at ribbon left



"thin coins" 3,4, 3,3 (3x), 3,2 (4x), 3,0 (2x), 2,8, 2,7

558 # [73689](#) 560 # [73472](#) 560a # [224074](#) 2017a # [199435](#) 2017b # [199408](#) 2018 # [216883](#) 2019 # [248154](#) 2020
[266048](#) # 2022 # [307331](#) 2023 # [328624](#)

D15 was used before in combination with H14. H15 was used afterwards in combination with H16.

H15.cc

Circle lines in and below LER

D15.cc.vs.hs

Filing line below right ribbon. Circle lines between crown and left ribbon.

Haircrack over left ribbon.



Haircrack on H-side, self-strike on D-side.



“thin coins” **5,0**, 3,5 (5x), 3,4 (2x), 3,2 (2x), 3,0 (3x), 2,9 (2x), 2,8 (2x), 2,6, 2,4 grams

570 # [73474](#) 570DS # [86399](#) 571 # [73627](#) 573 # [73552](#) 573k # [329277](#) 2017a # [199436](#) 2017b # [199409](#) 2018 [216884](#) 2019 [248155](#) 2020 # [266049](#) 2021 # [289836](#) 2022 # [307332](#) 2023 # [328625](#)

H15 was used before in combination with D15.

H15.cc.hs.zs

Last remnants of circle lines.

Haircrack right.

Self-strike of crown in twig top left.

D16.vs.zs

Filing lines around crown and in D.

Self-strike of leaves above crown.

Left ornament doesn't touch rim.



H-side self-strike right of 5 and below heller. Self-strike on D-side disappears and new self-strike right of crown appears.

H17-D17

>lb



“thick & thin coins” **5,5**, **4,3**, 3,6, 3,5, 3,4 (2x), 3,3 (2x), 3,2 (2x), 3,1, 3,0 (3x), 2,9 (2x), 2,8 grams
 558 # [101838](#) 600 # [77026](#) 602 # [77027](#) 604 # [77203](#) 2017a # [199437](#) 2017b # [199438](#) 2017c # [199410](#) 2018 # [216885](#) 2019 # [248156](#) 2020 # [266050](#) 2021 # [289836](#) 2022 # [307325](#) 2023 # [328626](#)

H17.cc.vs

Circle lines in and below LER.

Filing line at bottom

D17.cc.vs

Circle lines in O and between crown and right ribbon.

Filing lines in many places.



Self-strike on both sides.

Harking of 191 and DO and splash at 6 near similar to those on H19-D19

H18-D18

>lb



“thin coins” 3,5, 3,4 (5x), 3,3 (9x), 3,2 (6x), 3,1 (4x), 3,0 (2x), 2,9 grams

629 # [224078](#) 630 # [73501](#) 631 # [73629](#) 631b # [73473](#) 632 # [73502](#) 633 # [93643](#) 2017a # [199439](#) 2017b # [199440](#) 2017c # [199411](#) 2017d # [199391](#) 2018 # [216886](#) 2019 # [248157](#) 2020 # [266051](#) 2021 # [289838](#) 2022 # [307326](#) 2023 # [328627](#)

Right side of D-die always weak

H18.vs Bottom of 5 not fully struck. Filing lines below R and at T.	D18 Nothing remarkable.
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5 gets normal. Self-strike below leaf to the right of 5 becomes a constant . Some coins show self-strike of D bottom right. On D-side more or less pronounced self-strike of leaves above the left side of the crown in different positions. Changing ways of harking of 19.

H18-D18 +

>lb



Dies start fading away.

H19-D19

>lb



"thin coins" 3,5, 3,4, 3,3 (3x), 3,2 (7x), 3,1 (4x), 3,0, 2,8 grams

660 # [101959](#) 661 # [224082](#) 663 # [101960](#) 663b # [227539](#) 2017a # [199441](#) 2017b [199442](#) 2017c # [199412](#) 2018 # [216888](#) 2019 # [248158](#) 2020 # [266052](#) 2021 # [289839](#) 2022 # [307327](#) 2023 # [328628](#)

Very similar to most of 990 unidentified coins, see last pages.

H19
Stike-out/filing? lines in ER

D19
Harking of 191 and DO.
Slash at 6 and right ribbon.



Harking of 191 and DO and splash at 6 near similar to those on H17-D17

H19-D19 +

>lb



H20-D20

>lb



"thin coins" 3,5 (2x), 3,4 (6x), 3,3 (5x), 3,2 (10x), 3,1 (4x), 3,0 (6x), 2,8 (2x) grams

690 # [73546](#) 692 # [93649](#) 692DS # [130417](#) 696 # [76063](#) 697 # [77204](#) 700 # [77205](#) 2017a # [199450](#) 2017b # [199449](#) 2017c # [199414](#) 2017d # [199392](#) 2018 # [216889](#) 2019 # [248159](#) 2020 # [266053](#) 2021 # [289840](#) 2022 # [307328](#) 2023 # [328629](#)

H20.cc.vs

Circle lines in and below LER.

Filing lines mostly top right.

D20.cc.vs

Circle lines where no filing lines.

Filing lines below crown and bottom right.



Self-strike of ribbon above H and of bottom of 9 to right of T.

H20-D20 +

>lb



Advancing self-strike in different positions.

H21-D21

>-- (?)



“thin coins” 3,7, 3,5, 3,2 (2x), 3,0 (2x) grams

713 # [87987](#) 715 # [86685](#) 717 # [89160](#) 2017a # [199445](#) 2017b # [199413](#) 2018 # [216890](#) 2019 # [248160](#) 2020 # [266057](#) 2021 # [289841](#) 2022 # [307321](#)

H21.vs

Filing lines bottom left, in HE, at 5, L and T.

D21.vs

Filing lines at 6 and between 16 and OA.
Small irregularity at rim bottom right.



H22-D22

>-- (?)



"thin coins" 3,3 grams (3x)

730 # [88371](#) 2019 # [248161](#) 2022 # [307320](#)

H22 was used afterwards in combination with D23. Don't confuse with H24-D24

H22.cc.vs

Circle lines abound.

Filing lines above and below LER

Double struck die, double lines below knot & twig and leaf bottom right.

D22.cc.hs

Plenty of circle lines.

Haircracks at crown & ribbon right.



Self strike of leaves left of D

H22-D23

>-- (?)



"thin coins" 3,7, 3,4, 3,2 (4x), 3,0 grams

735 # [93984](#) 735b # [303755](#) 736 # [73491](#) 2017a # [199446](#) 2018 # [216892](#) 2019 # [248162](#) 2020 # [266058](#) 2021 # [289843](#) 2022 # [307322](#)

H22 was used before in combination with D22, D23 afterwards with H23

H22.cc.vs.hs
Haircrack bottom right

D23.cc.vs
Circle lines in DO. Filing lines top left and below
16 and DO.



Piece broken off below haircrack.



"thin coins" 5,9, 3,7, 3,5, 3,4 (6x), 3,3 (3x), 3,2 (18x), 3,1 (9x), 3,0 (6x), 2,9, 2,7 grams
 740 # [73577](#) 740T # [180279](#) 740HEC # [224068](#) 741 # [76809](#) 742 # [88400](#) 743 # [73551](#) 743c # [77283](#) 743d # [101969](#) 2017a # [199447](#) 2017b # [199415](#) 2017c # [199393](#) 2018 # [216893](#) 2019 # [248163](#) 2020 # [266059](#) 2021 # [289844](#) 2022 # [307323](#) 2023 # [328630](#)

D23 was used before in combination with H22.

H23.cc.vs

Double struck die, double line below twig bottom left and double lines middle right at R, berries and leaves. Double lines left better visible on later coins

Small piece of circle line left between leaves.

Filing line right of 5 stays long visible.

D23.cc

Circle lines in DO and below visible



Self-strike of crown above 5. Harking of hole in 9. Double lines right and self-strike at top will fade, small pit between right L and E stays visible. Double lines left clear.

H23-D23 +

>-- (lb)



Self-strike on H-die disappears.

On D-side self-strike of 5 and L at top of 1. As die rotation varies and self-strikes must have occurred more than once in different positions you might get the impression they don't stem from the same pair of dies. Constant is they (near) touch the 1.

H24-D24

>lb



“thin coins” 3,4 (2x), 3,3 (5x), 3,2 (2x), 3,1 (4x), 3,0 (4x), 2,9 (2x) grams

760 # [88941](#) 762 # [73407](#) 764 # [73737](#) 2017a # [199451](#) 2017b # [199416](#) 2017c # [199394](#) 2018 # [216894](#) 2019 # [248164](#) 2020 # [266060](#) 2021 # [289845](#) 2022 # [307324](#)

Change in die rotation

H24.zs

Double struck die, see E in E
Rim deformation middle right.
Self-strike between top leaves.
Splash starts at berry to the right of 5

D24.zs

Roughness in 6 and between crown and ribbons
Self-strike above ribbon left.



Self-strike also top left of 5. Splash develops further. On D-side self-strike of 5 below crown. At right ribbon haircrack or splash-line? Don't confuse with H22-D22

H24-D24 +

>lb



Full splash, compare H25-D26



"thin coins" **3,9**, 3,5, 3,3 (2x), 3,2 (2x), 3,1 (3x), 3,0 (2x), 2,9 (2x) grams

780 # [76808](#) 781 # [77272](#) 782 # [118928](#) 2017a # [199452](#) 2017b # [199417](#) 2017c # [199395](#) 2018 # [216895](#) 2019 # [248165](#) 2020 # [266061](#) 2021 # [289846](#) 2022 # [307316](#) 2023 # [328635](#)

H25 was used afterwards in combination with D26

H25.vs.br

Filing lines above ER.

Small piece broken off at bottom of twig right.

Very similar to H8

D25.cc.br

Circle lines inside and around crown.

Small haircrack at top of crown



Self-strike of crown top left. Splash starts at berry right of 5. On D-side piece broken off at end of left ribbon, self-strike of leaf left of cross.

H25-D25 +



Cracks form in crown.

H25-D26

>lb



“thin coins” 3,5 (3x), 3,4 (3x), 3,2 (2x), 3,1 (2x), 3,0 (2x), 2,8, 2,7 (2x) grams

785 # [73696](#) 785DS # [227548](#) 785e # [101972](#) 785f # [224083](#) 786 # [73742](#) 2017a # [199453](#) 2017b # [199418](#)
2017c # [199396](#) 2018 # [216896](#) 2019 # [248166](#) 2020 # [266062](#) 2021 # [289847](#) 2022 # [307317](#) 2023 # [328636](#)

H25 was used before in combination with D25

H25.br.zs
Splash advances

D26.vs.zs
Filing lines between 1 and ribbon and in and below 1916.
Self-strike above ribbon left and of 5 below crown.



Full splash, compare H24-D24. At H24 twig bottom left nearly touches rim.



“thin **and** thick coins” 4,5, 4,4, 4,1, 3,5, 3, 4, 3,3 (4x), 3,2 (7x), 3,1, 3,0, 2,9, 2,8, 2,7 grams
 839 # [98614](#) 840 # [88404](#) 842 # [77206](#) 843 # [101992](#) 844 # [197831](#) 2017a # [199454](#) 2017b # [199397](#) 2018 # [216897](#)

H28.cc.vs

Circle lines in middle & lower part of coin.

Filing line in 5

Both twigs touch rim.

D28.cc

Sporadic circle lines.

Filing lines above 191 and at A.



Self-strike heller below crown.

H28-D28 +

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990 unidentified single struck coins



990 # [73595](#) 990a1 # [73504](#) 990a2 # [73543](#) 990a3 # [73518](#) 990b # [73736](#) 990c # [73734](#) 990d # [102070](#)

Quality of coins and/or pictures found on internet sometimes was just too bad to give any hope for determination. These deleted, 2011 there were 17 coins left that escaped identification. Very probably they stem from just 1 or 2 die combinations. Possibly even a not yet recognized one. As far as I can judge all but 1 (990d) are thin coins

You are always welcome to send pictures of coins you can't identify.

2018 I started again collecting pictures of unidentified coins for Zeno.

2018 # [216898](#) 2019 # [248168](#) 2020 # [266064](#) 2021 # [289849](#) 2022 # [307319](#) 2023 # [328638](#)