

# ***A and A Game Engineering Stations Manned and Ready***

## **Game data file for Germany World War 2 - Warships 1920-1945**

This data file contains precalculated game data for ships of the above nation.

Each record shows the class name, in service date, and variant (where appropriate). This is followed by the vessel's base game data in the same layout as that used in the rules.

This is followed by the armament, again in the same layout, though the presentation is slightly different to that shown in previous versions. This section shows the type of gun by Calibre and barrel length, followed by an identifier which can be used to reference weapons in our construction data sheets, then the game data.

The final section shows, on the left, the ships in the class, which may also show a date from, or until which that ship's values are valid.

In the right hand section you will find details of all the other equipment carried and used in the game. Note that there may be asterisks or other marks which cross reference between the ships on the left and the special data on the right. Again, ship specific equipment and values are shown. Most special game data is headed with a bullet point.

You may find up to 2 variants in many ship classes, where the weapon fit changed. Variant data usually shows the battery # affected by the change. Always refer to any notes for the relevant variant. The changes can often be cumulative. The following possibilities can occur:

- Weapons have been removed: a cost reduction is applied to the original ship cost.
- Weapons have been added: this will result in a cost increase to be added to the original ship cost.
- Weapons have been modified, with a change in the overall number: There may be an increase or reduction to apply to the original ship cost.
- In some cases there are two successive modifications, and therefore only the later of the cost adjustments should be applied. Such a case would apply if a ship had torpedo tubes reduced in one modification and completely removed in the second.

Please bear in mind that all cost alteration figures are based on the original value for the ship.

Changes in short range weapons and factors may be referred to in the ship's notes. These could also show a cost modifier, especially if the QF or SRAA values are altered. If the DP AA values have changed on second world war vessels, the cost alteration is already included in the figure showing the cost modification.

In some cases you may have to both add and subtract cost adjustments as part of the same modification.

All information in this document is (c) A and A Game Engineering and is for use with our rule sets. It may not be used for any other purpose without our express agreement.

## Summary

Data for the following ship classes is included in this document.

The date shown in the summary is the most recent revision date for the game data, taking account of corrections and amendments. The status of the data (new, altered or unchanged) is also shown.

|                  |                            |                    |                   |                   |
|------------------|----------------------------|--------------------|-------------------|-------------------|
| <b>BB</b>        | <b>Battleship</b>          |                    |                   |                   |
| Bismarck         |                            |                    | 29 September 2008 |                   |
|                  |                            | 1942, Tirpitz      | 29 September 2008 |                   |
| H                |                            | Project            | 10 January 2009   |                   |
| <b>BC</b>        | <b>Battle Cruiser</b>      |                    |                   |                   |
| Scharnhorst      |                            |                    | 29 September 2008 |                   |
| <b>BBL</b>       | <b>"Pocket Battleship"</b> |                    |                   |                   |
| Deutschland      |                            |                    | 29 September 2008 |                   |
| <b>CV</b>        | <b>Aircraft Carrier</b>    |                    |                   |                   |
| Graf Zeppelin    |                            |                    | 29 September 2008 |                   |
| <b>CA</b>        | <b>Heavy Cruiser</b>       |                    |                   |                   |
| Hipper           |                            | 1st group          | 29 September 2008 |                   |
|                  |                            | 2nd group          | 29 September 2008 |                   |
| <b>CL</b>        | <b>Light Cruiser</b>       |                    |                   |                   |
| Emden            |                            | 1925               | 10 January 2009   |                   |
| Karlsruhe ('K')  |                            |                    | 29 September 2008 |                   |
| Leipzig          |                            |                    | 29 September 2008 |                   |
| Nürnberg         |                            |                    | 29 September 2008 |                   |
| <b>DD</b>        | <b>Destroyer</b>           |                    |                   |                   |
| Type 1934        |                            |                    | 29 September 2008 |                   |
| Type 1934A       |                            |                    | 29 September 2008 |                   |
| Type 1936        |                            |                    | 29 September 2008 |                   |
| Type 1936A       |                            | 1940               | 29 September 2008 |                   |
|                  |                            | 1941, Z 28         | 29 September 2008 |                   |
|                  |                            | 1942               | 29 September 2008 |                   |
| Type 1936A (Mob) |                            | 1941               | 29 September 2008 |                   |
| Type 1936B       |                            |                    | 10 January 2009   |                   |
| <b>TB</b>        | <b>Torpedo Boat</b>        |                    |                   |                   |
| TA24 (ex Ariete) |                            | 1944               | 29 September 2008 |                   |
| Type 1923        |                            |                    | 29 September 2008 |                   |
| Type 1924        |                            |                    | 29 September 2008 |                   |
| Type 1935        |                            | 1939-1940          | 29 September 2008 |                   |
| Type 1937        |                            | 1941               | 29 September 2008 |                   |
| Type 1939        |                            | 1942-1944          | 29 September 2008 |                   |
| <b>MTB</b>       | <b>MTB</b>                 |                    |                   |                   |
| S10 group        |                            | Group of 3 vessels | 27 October 2010   | New Ship Data     |
| S100 group       |                            | Group of 3 vessels | 13 January 2011   | Altered Ship Data |
| S14 group        |                            | Group of 3 vessels | 13 January 2011   | Altered Ship Data |
| S18 group        |                            | Group of 3 vessels | 13 January 2011   | Altered Ship Data |
| S26 group        |                            | Group of 3 vessels | 13 January 2011   | Altered Ship Data |
| S30 group        |                            | Group of 3 vessels | 27 October 2010   | New Ship Data     |
| S38 group        |                            | Group of 3 vessels | 13 January 2011   | Altered Ship Data |
| S6 group         |                            | Group of 3 vessels | 27 October 2010   | New Ship Data     |



| <i>Class Name</i>   | <i>Initial in service date</i>            | <i>S</i>  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|---|-----------|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |   | <i>F</i>  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |   | <i>IP</i> | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       | <i>Other Weapons and Equipment, Notes</i> |           |            |             |             |            |             |             |

**Germany**

**BB Battleship**

|   |      |  |    |     |      |    |    |      |
|---|------|--|----|-----|------|----|----|------|
| <b>Bismarck</b>                                 | 1936 | 110                                    | 29 | + 2 | 5 RB | 8  | 5  | 2790 |
|   |      | 43                                     | 12 | 10  | 5    | 11 | 11 | 5    |
| 1: 8x15" (L/48) — [01] — AT2: B(x2).S(x2)       |      | 15                                     | 5  | 14  | 12   | 10 | 9  | 8    |
| 2: 12x5.9" (L/52) — [01] — AT2: PB(x3).SB(x3)   |      | 3                                      | 5  | 6   | 4    | 2  | 1  | 1    |
| 3: 16x4.1" (L/60) DP — [01] — S2: PB(x4).SB(x4) |      | 2                                      | 4  | 4   | 3    | 1  | 0  | —    |
| Bismarck  |      | <i>Scout Planes: 4; SRAA: 4; DP: 6</i> |    |     |      |    |    |      |

|   |      |  |    |     |      |    |    |      |
|---|------|--|----|-----|------|----|----|------|
| <b>Bismarck</b>                                 | 1936 | 110                                    | 29 | + 2 | 5 RB | 8  | 5  | 2858 |
| <i>Data for: 1942, Tirpitz</i>                  |      | 43                                     | 12 | 10  | 5    | 11 | 11 | 5    |
| 1: 8x15" (L/48) — [01] — AT2: B(x2).S(x2)       |      | 15                                     | 5  | 14  | 12   | 10 | 9  | 8    |
| 2: 12x5.9" (L/52) — [01] — AT2: PB(x3).SB(x3)   |      | 3                                      | 5  | 6   | 4    | 2  | 1  | 1    |
| 3: 16x4.1" (L/60) DP — [01] — S2: PB(x4).SB(x4) |      | 2                                      | 4  | 4   | 3    | 1  | 0  | —    |
| 4: 6x21" Torpedo — [28] — TT3: PB.SB            |      | 5                                      | 3  | +1  | +1   | +0 | —  | —    |
| Tirpitz   |      | <i>Scout Planes: 4; SRAA: 7; DP: 6</i> |    |     |      |    |    |      |

|   |      |  |    |     |      |    |    |      |
|---|------|--|----|-----|------|----|----|------|
| <b>H</b>  | 1939 | 125  | 30 | + 3 | 5 RB | 9  | 5  | 3048 |
| <i>Data for: Project</i>                        |      | 49   | 13 | 10  | 5    | 11 | 11 | 5    |
| 1: 8x16" (L/52) — [01] — AT2: B(x2).S(x2)       |      | 15   | 5  | 15  | 13   | 12 | 10 | 9    |
| 2: 12x5.9" (L/52) — [01] — AT2: PB(x3).SB(x3)   |      | 3  | 5  | 6   | 4    | 2  | 1  | 1    |
| 3: 16x4.1" (L/60) DP — [01] — O2: PB(x4).SB(x4) |      | 2  | 4  | 4   | 3    | 1  | 0  | —    |
| H, J  |      | <i>Scout Planes: 4; SRAA: 6; DP: 6</i><br>• <i>Never built</i> |    |     |      |    |    |      |

| <i>Class Name</i>   | <i>Initial in service date</i> | <i>S</i>                                  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|--------------------------------|---|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |                                | <i>F</i>                                  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |                                | <i>IP</i>                                 | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       |                                | <i>Other Weapons and Equipment, Notes</i> |            |             |             |            |             |             |

**Germany**

**BC**                      **Battle Cruiser**

|  |      |    |    |     |      |    |    |      |
|--|------|----|----|-----|------|----|----|------|
| <b>Scharnhorst</b>   | 1935 | 80 | 32 | + 2 | 5 RB | 6  | 4  | 1678 |
|  |      | 34 | 11 | 10  | 4    | 10 | 11 | 6    |
| 1: 9x11.1" (L/51) — [01] — AT3: B(x2).S                          |      | 9  | 5  | 11  | 9    | 7  | 5  | 4    |
| 2: 12x5.9" (L/52) — [01] — AT2: PB(x2).SB(x2); S1: PB(x2).SB(x2) |      | 3  | 5  | 6   | 4    | 2  | 1  | 1    |
| 3: 14x4.1" (L/60) DP — [01] — S2: PB(x3).SB(x3).CB               |      | 2  | 4  | 4   | 3    | 1  | 0  | —    |

Scharnhorst, Gneisenau

*Scout Planes: 3; SRAA: 3; DP: 5*

• *Scharnhorst: SRAA 5 from February 1942 (Channel*

*Dash) (cost +20)*

• *Gneisenau: SRAA 4 from February 1942 (cost +10)*

**Variant 1 adds an additional battery to those shown above**

|                                   |  |   |   |    |    |    |   |   |
|-----------------------------------|--|---|---|----|----|----|---|---|
| 6x21" Torpedo — [28] — TT3: PB.SB |  | 5 | 3 | +1 | +1 | +0 | — | — |
|-----------------------------------|--|---|---|----|----|----|---|---|

*Note for Variant 1: Scharnhorst carried torpedoes from February 1942*

*The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 1: + 38*

| <i>Class Name</i>   | <i>Initial in service date</i>            | <i>S</i>  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|---|-----------|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |   | <i>F</i>  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |   | <i>IP</i> | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       | <i>Other Weapons and Equipment, Notes</i> |           |            |             |             |            |             |             |

**Germany**

**BBL**

**"Pocket Battleship"**

**Deutschland**

1929

24 28 +0 4 RB 3 3 821

15 9 4 2 6 6 0

1: 6x11.1" (L/49) — [01] — AT3: B.S

6 4 11 9 7 5 —

2: 8x5.9" (L/52) — [01] — S1: PB(x4).SB(x4)

3 4 6 4 2 1 —

3: 6x4.1" (L/60) DP — [01] — S2: PB.CB.SB

2 4 4 3 1 0 —

4: 8x21" Torpedo — [28] — TT4: SLP.SLS

5 3 +1 +1 +0 — —

Deutschland (later Lützow), Admiral Scheer, Admiral Graf Spee

*Scout Planes: 2; SRAA: 3; DP: 3*

• *Lützow: SRAA 4 from 1944 (cost +10)*

• *Scheer: SRAA 5 from 1944 (cost +20)*

| <i>Class Name</i>   | <i>Initial in service date</i> | <i>S</i>                                  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|--------------------------------|---|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |                                | <i>F</i>                                  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |                                | <i>IP</i>                                 | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       |                                | <i>Other Weapons and Equipment, Notes</i> |            |             |             |            |             |             |

**Germany**

*CV*

*Aircraft Carrier*

**Graf Zeppelin**

1936

39 35 + 2 5 RB 4 4 766

28 12 4 2 0 0 0

1: 16x5.9" (L/52) — [01] — C2: PB(x4).SB(x4)

3 5 6 4 2 1 1

2: 12x4.1" (L/60) DP — [01] — S2: P(x3).S(x3)

2 4 4 3 1 0 —

Graf Zeppelin

*SRAA: 6; DP: 5*

*Carrier Handling: 14; Catapults: 2; Maximum*

*Operational Aircraft Capacity: 42; Carrier Victory Point*

*Bonus: 322*

*Armoured Flight Deck*

• *Never completed*

• *Air group would have been made up of 8-10 Me109, 13 Ju87G, 20 Fi167. This was later modified to 12 Bf109F and 30 Ju87G*

| <i>Class Name</i>   | <i>Initial in service date</i>            | <i>S</i>  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|---|-----------|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |   | <i>F</i>  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |   | <i>IP</i> | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       | <i>Other Weapons and Equipment, Notes</i> |           |            |             |             |            |             |             |

**Germany**

**CA Heavy Cruiser**

|   |      |  |    |    |      |    |   |     |
|---|------|--|----|----|------|----|---|-----|
| <b>Hipper</b>                                   | 1935 | 28   | 33 | +0 | 4 RB | 3  | 4 | 674 |
| <i>Data for: 1st group</i>                      |      | 15   | 10 | 4  | 2    | 6  | 6 | 0   |
| 1: 8x8" (L/56) — [01] — AT2: B(x2).S(x2)        |      | 4  | 4  | 9  | 7    | 5  | 3 | —   |
| 2: 12x4.1" (L/60) DP — [01] — S2: PB(x3).SB(x3) |      | 2  | 4  | 4  | 3    | 1  | 0 | —   |
| 3: 12x21" Torpedo — [28] — TT3: PB(x2).SB(x2)   |      | 5  | 3  | +1 | +1   | +0 | — | —   |
| Admiral Hipper, Blücher                         |      | <i>Scout Planes: 3; SRAA: 3; DP: 5</i>               |    |    |      |    |   |     |
|   |      | • <i>Admiral Hipper: SRAA 5 from 1942 (cost +20)</i> |    |    |      |    |   |     |

|   |      |   |    |    |      |    |   |     |
|---|------|---|----|----|------|----|---|-----|
| <b>Hipper</b>                                   | 1936 | 31  | 33 | +0 | 5 RB | 3  | 4 | 698 |
| <i>Data for: 2nd group</i>                      |      | 17  | 10 | 4  | 2    | 6  | 6 | 0   |
| 1: 8x8" (L/56) — [01] — AT2: B(x2).S(x2)        |      | 4   | 5  | 9  | 7    | 5  | 3 | 2   |
| 2: 12x4.1" (L/60) DP — [01] — S2: PB(x3).SB(x3) |      | 2   | 4  | 4  | 3    | 1  | 0 | —   |
| 3: 12x21" Torpedo — [28] — TT3: PB(x2).SB(x2)   |      | 5   | 3  | +1 | +1   | +0 | — | —   |
| Prinz Eugen                                     |      | <i>Scout Planes: 3; SRAA: 3; DP: 5</i>                              |    |    |      |    |   |     |
|   |      | • <i>SRAA 4 from December 1941 (cost +10), 5 in 1942 (cost +20)</i> |    |    |      |    |   |     |

| Class Name<br>Variant or Small Vessel Grouping (where appropriate) | Initial in service date            | S  | Spd | Size | Vis  | FC  | DC   | Cost |
|--|------------------------------------|----|-----|------|------|-----|------|------|
|  |                                    | F  | MVR | Belt | Deck | CT  | T #1 | T #2 |
| Armament   |                                    | IP | RB  | I    | II   | III | IV   | V    |
| Ships in Class   | Other Weapons and Equipment, Notes |    |     |      |      |     |      |      |

### Germany

#### CL Light Cruiser

|   |      |   |    |     |      |    |   |     |
|---|------|---|----|-----|------|----|---|-----|
| <b>Emden</b>  | 1921 | 9   | 29 | - 1 | 4 RB | 2  | 3 | 201 |
| <i>Data for: 1925</i>                                   |      | 7   | 7  | 2   | 0    | 5  | 0 | 0   |
| 1: 8x5.9" (L/42) — [04] — S1: B(x2).PB(x2).SB(x2).S(x2) |      | 2   | 4  | 6   | 4    | 2  | 1 | —   |
| 2: 4x21" Torpedo — [28] — TT2: PB.SB                    |      | 5   | 3  | +1  | +1   | +0 | — | —   |
| Emden   |      | SRAA: 3<br>• SRAA increased to 4 in 1945 (cost +10) |    |     |      |    |   |     |

|   |      |   |    |     |      |    |   |     |
|---|------|---|----|-----|------|----|---|-----|
| <b>Karlsruhe ('K')</b>                        | 1926 | 12  | 32 | - 1 | 4 RB | 2  | 3 | 366 |
|   |      | 8   | 8  | 3   | 2    | 5  | 2 | 0   |
| 1: 9x5.9" (L/57) — [01] — AT3: B.S(x2)        |      | 3   | 4  | 6   | 4    | 3  | 2 | —   |
| 2: 12x21" Torpedo — [28] — TT3: PB(x2).SB(x2) |      | 5   | 3  | +1  | +1   | +0 | — | —   |
| Königsberg, Karlsruhe, Köln                   |      | Scout Planes: 2; SRAA: 4<br>• Köln: aircraft and 2xTT3 removed in 1942 (see cost adjustment below); SRAA 5 in 1944 (cost +10 in addition to adjustment from 1942) |    |     |      |    |   |     |

#### Variant 1 replaces the above entry for Weapon Battery #: 2

|  |   |   |    |    |    |   |   |  |
|--|---|---|----|----|----|---|---|--|
| 6x21" Torpedo — [28] — TT3: PB.SB  | 5 | 3 | +1 | +1 | +0 | — | — |  |
| <i>Note for Variant 1: Koeln only: 2 x TT3 removed in 1942</i>   |   |   |    |    |    |   |   |  |
| <i>The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 1: - 38</i> |   |   |    |    |    |   |   |  |

|   |      |   |    |     |      |    |   |     |
|---|------|---|----|-----|------|----|---|-----|
| <b>Leipzig</b>                                | 1928 | 12  | 32 | - 1 | 4 RB | 2  | 3 | 366 |
|   |      | 8   | 8  | 3   | 0    | 5  | 2 | 0   |
| 1: 9x5.9" (L/57) — [01] — AT3: B.S(x2)        |      | 3   | 4  | 6   | 4    | 3  | 2 | —   |
| 2: 12x21" Torpedo — [28] — TT3: PB(x2).SB(x2) |      | 5   | 3  | +1  | +1   | +0 | — | —   |
| Leipzig                                       |      | Scout Planes: 2; SRAA: 4<br>• 1941: 2 x TT3 removed (cost adjustment see below)<br>• 1944: remaining 2 x TT and aircraft removed. SRAA 6 (cost +20 in addition to cost adjustments shown below) |    |     |      |    |   |     |

#### Variant 1 replaces the above entry for Weapon Battery #: 2

|  |   |   |    |    |    |   |   |  |
|--|---|---|----|----|----|---|---|--|
| 6x21" Torpedo — [28] — TT3: PB.SB  | 5 | 3 | +1 | +1 | +0 | — | — |  |
| <i>Note for Variant 1: 2 x TT3 removed in 1941</i>   |   |   |    |    |    |   |   |  |
| <i>The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 1: - 38</i> |   |   |    |    |    |   |   |  |

#### Variant 2 replaces the above entry for Weapon Battery #: 2

|  |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|
| —  | - | - | - | - | - | - | - | - |
| <i>Note for Variant 2: Remaining TT3 removed in 1944</i>   |   |   |   |   |   |   |   |   |
| <i>The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 2: - 76</i> |   |   |   |   |   |   |   |   |

| <i>Class Name</i>   | <i>Initial in service date</i>            | <i>S</i>  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|---|-----------|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |   | <i>F</i>  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |   | <i>IP</i> | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       | <i>Other Weapons and Equipment, Notes</i> |           |            |             |             |            |             |             |

**Germany**

**CL**                      **Light Cruiser**

|   |      |    |    |     |      |    |   |     |
|---|------|----|----|-----|------|----|---|-----|
| <b>Nürnberg</b>                               | 1934 | 14 | 32 | - 1 | 4 RB | 2  | 3 | 384 |
|   |      | 8  | 8  | 6   | 0    | 5  | 4 | 0   |
| 1: 9x5.9" (L/57) — [01] — AT3: B.S(x2)        |      | 3  | 4  | 6   | 4    | 3  | 2 | —   |
| 2: 12x21" Torpedo — [28] — TT3: PB(x2).SB(x2) |      | 5  | 3  | +1  | +1   | +0 | — | —   |

Nürnberg

Scout Planes: 2; SRAA: 5  
• August 1942: aircraft removed, SRAA 6 (cost +10)  
• 1944: SRAA 7 (cost +10)

**Variant 1 replaces the above entry for Weapon Battery #: 2**

|                                   |  |   |   |    |    |    |   |   |
|-----------------------------------|--|---|---|----|----|----|---|---|
| 6x21" Torpedo — [28] — TT3: PB.SB |  | 5 | 3 | +1 | +1 | +0 | — | — |
|-----------------------------------|--|---|---|----|----|----|---|---|

Note for Variant 1: June 1940 2 x TT3 removed

The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 1: - 38

| <i>Class Name</i>   | <i>Initial in service date</i>            | <i>S</i>  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|---|-----------|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |   | <i>F</i>  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |   | <i>IP</i> | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       | <i>Other Weapons and Equipment, Notes</i> |           |            |             |             |            |             |             |

**Germany**

**DD**                      **Destroyer**

|   |      |         |    |     |      |    |   |     |
|---|------|---------|----|-----|------|----|---|-----|
| <b>Type 1934</b>  | 1935 | 3       | 38 | - 2 | 3 RB | 1  | 2 | 209 |
|   |      | 3       | 6  | 0   | 0    | 0  | 0 | 0   |
| 1: 5x5" (L/42) — [01] — S1: B(x2).CB.S(x2)                              |      | 4       | 3  | 5   | 3    | 2  | — | —   |
| 2: 8x21" Torpedo — [28] — TT4: CB(x2)                                   |      | 5       | 3  | +1  | +1   | +0 | — | —   |
| Z1 Leberecht Maass, Z2 Georg Thiele, Z3 Max Schultz, Z4 Richard Beitzen |      | SRAA: 2 |    |     |      |    |   |     |

|   |      |         |    |     |      |    |   |     |
|---|------|---------|----|-----|------|----|---|-----|
| <b>Type 1934A</b>   | 1936 | 3       | 38 | - 2 | 3 RB | 1  | 2 | 209 |
|   |      | 3       | 6  | 0   | 0    | 0  | 0 | 0   |
| 1: 5x5" (L/42) — [01] — S1: B(x2).CB.S(x2)  |      | 4       | 3  | 5   | 3    | 2  | — | —   |
| 2: 8x21" Torpedo — [28] — TT4: CB(x2)   |      | 5       | 3  | +1  | +1   | +0 | — | —   |
| Z5 Paul Jacobi, Z6 Theodor Riedel, Z7 Hermann Schoemann, Z8 Bruno Heinemann, Z9 Wolfgang Zenker, Z10 Hans Lody, Z11 Bernd von Arnim, Z12 Erich Giese, Z13 Erich Koellner, Z14 Friedrich Ihn, Z15 Erich Steinbrinck, Z16 Friedrich Eckoldt |      | SRAA: 2 |    |     |      |    |   |     |

|   |      |         |    |     |      |    |   |     |
|---|------|---------|----|-----|------|----|---|-----|
| <b>Type 1936</b>  | 1937 | 4       | 40 | - 2 | 3 RB | 1  | 2 | 224 |
|   |      | 4       | 6  | 0   | 0    | 0  | 0 | 0   |
| 1: 5x5" (L/42) — [01] — S1: B(x2).CB.S(x2)  |      | 4       | 3  | 5   | 3    | 2  | — | —   |
| 2: 8x21" Torpedo — [28] — TT4: CB(x2)   |      | 5       | 3  | +1  | +1   | +0 | — | —   |
| Z17 Diether von Roeder, Z18 Hans Lüdemann, Z19 Hermann Künne, Z20 Karl Galster, Z21 Wilhelm Heidkamp, Z22 Anton Schmitt |      | SRAA: 2 |    |     |      |    |   |     |

| <i>Class Name</i>   | <i>Initial in service date</i>            | <i>S</i>  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|---|-----------|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |   | <i>F</i>  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |   | <i>IP</i> | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       | <i>Other Weapons and Equipment, Notes</i> |           |            |             |             |            |             |             |

**Germany**

**DD**                      **Destroyer**

|  |      |  |    |     |      |    |   |     |
|--|------|--|----|-----|------|----|---|-----|
| <b>Type 1936A</b>                        | 1939 | 5  | 39 | - 2 | 3 RB | 1  | 2 | 199 |
| <i>Data for: 1940</i>                    |      | 5  | 6  | 0   | 0    | 0  | 0 | 0   |
| 1: 4x5.9" (L/46) — [01] — S1: B.CB.S(x2) |      | 3  | 3  | 6   | 4    | 2  | — | —   |
| 2: 8x21" Torpedo — [28] — TT4: CB(x2)    |      | 5  | 3  | +1  | +1   | +0 | — | —   |
| Z23 to Z27, Z29, Z30                     |      | SRAA: 2<br>• Z23 to Z25, Z27 to Z30: SRAA 3 from 1942 (cost +10)<br>• Z23, Z24, Z25, Z29 had twin turret fitted later. |    |     |      |    |   |     |

|  |      |  |    |     |      |    |   |     |
|--|------|--|----|-----|------|----|---|-----|
| <b>Type 1936A</b>                        | 1939 | 5  | 39 | - 2 | 3 RB | 1  | 2 | 199 |
| <i>Data for: 1941, Z 28</i>              |      | 5  | 6  | 0   | 0    | 0  | 0 | 0   |
| 1: 4x5.9" (L/46) — [01] — S1: B.CB.S(x2) |      | 3  | 3  | 6   | 4    | 2  | — | —   |
| 2: 8x21" Torpedo — [28] — TT4: CB(x2)    |      | 5  | 3  | +1  | +1   | +0 | — | —   |
| Z28                                      |      | SRAA: 2<br>• SRAA 3 from 1942 (cost +10) |    |     |      |    |   |     |

|  |      |   |    |     |      |    |   |     |
|--|------|---|----|-----|------|----|---|-----|
| <b>Type 1936A</b>                                | 1939 | 5   | 39 | - 2 | 3 RB | 1  | 2 | 226 |
| <i>Data for: 1942</i>                            |      | 5   | 6  | 0   | 0    | 0  | 0 | 0   |
| 1: 5x5.9" (L/46) — [01] — UT2: B; S1: CB, S(x2)  |      | 3   | 3  | 6   | 4    | 2  | — | —   |
| 2: 8x21" Torpedo — [28] — TT4: CB(x2)            |      | 5   | 3  | +1  | +1   | +0 | — | —   |
| Z23 (Feb 1942), Z24, Z25 (late 1942), Z29 (1945) |      | SRAA: 3<br>• Twin turret was fitted at dates shown by names.<br>• Z24: SRAA 4 in June 1944 (cost +10)<br>• Z25 and Z29: SRAA 4 in 1945 (cost +10) |    |     |      |    |   |     |



| Class Name<br>Variant or Small Vessel Grouping (where appropriate) | Initial in service date            | S  | Spd | Size | Vis  | FC  | DC   | Cost |
|--|------------------------------------|----|-----|------|------|-----|------|------|
|  |                                    | F  | MVR | Belt | Deck | CT  | T #1 | T #2 |
| Armament   |                                    | IP | RB  | I    | II   | III | IV   | V    |
| Ships in Class   | Other Weapons and Equipment, Notes |    |     |      |      |     |      |      |

**Germany**

**TB Torpedo Boat**

**TA24 (ex Ariete)** 1942 2 32 -3 2 RB 1 1 68

Data for: 1944

1: 2x3.9" (L/47) — [02] — S1: B.S 2 4 0 0 0 0 0  
 2: 6x17.7" Torpedo — [11] — TT3: CB(x2) 3 1 +0 — — —

TA24 (Arturo), TA27 (Auriga)#, TA28 (Rigel)#, TA29 (Eridano), TA30 (Dragone), TA36 (Stella Polare), TA37 (Gladio)##, TA38 (Spada)###, TA39 (Daga)###, TA40 (Pugnale)#, TA41 (Lancia), TA42 (Alabarda), TA45 (Spica)

SRAA: 2  
 • Italian Ariete class were completed and used by the German Navy following Italian surrender  
 # SRAA on these vessels 3 (cost +10)  
 ++ TA37 (Gladio) completed with 5 torpedo tubes, see variant 1 below  
 \*\* TA38 (Spada) and TA39 (Daga) completed with 3 torpedo tubes (see variant 2 below)

**Variant 1 replaces the above entry for Weapon Battery #: 2**

5x17.7" Torpedo — [11] — TT3: CB; TT2: CB 3 1 +0 — — —

Note for Variant 1: Torpedoes as fitted to TA37

The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 1: - 1

**Variant 2 replaces the above entry for Weapon Battery #: 2**

3x17.7" Torpedo — [11] — TT3: CB 3 1 +0 — — —

Note for Variant 2: Torpedoes as fitted to TA 38 and TA39

The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 2: - 5

**Type 1923** 1926 2 34 -3 3 RB 1 1 123

2 4 0 0 0 0 0  
 1: 3x4.1" (L/51) — [01] — S1: B.S(x2) 2 3 4 3 1 — —  
 2: 6x21" Torpedo — [28] — TT3: CB(x2) 5 3 +1 +1 +0 — —

Möwe, Greif, Seeadler, Albatros, Kondor, Falke SRAA: 2

**Type 1924** 1927 2 35 -3 3 RB 1 1 114

2 4 0 0 0 0 0  
 1: 3x4.1" (L/51) — [01] — S1: B.S(x2) 2 3 4 3 1 — —  
 2: 6x21" Torpedo — [28] — TT3: CB(x2) 5 3 +1 +1 +0 — —

Wolf, Iltis, Jaguar, Leopard, Luchs, Tiger SRAA: 1  
 • SRAA 2 from 1943/44 (cost +10)

| <i>Class Name</i>   | <i>Initial in service date</i> | <i>S</i>                                  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|--------------------------------|---|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |                                | <i>F</i>                                  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |                                | <i>IP</i>                                 | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       |                                | <i>Other Weapons and Equipment, Notes</i> |            |             |             |            |             |             |

**Germany**

**TB                      Torpedo Boat**

|                                       |      |                |    |     |      |    |   |     |
|---------------------------------------|------|----------------|----|-----|------|----|---|-----|
| <b>Type 1935</b>                      | 1938 | 2              | 36 | - 3 | 3 RB | 1  | 1 | 128 |
| <i>Data for: 1939-1940</i>            |      | 2              | 4  | 0   | 0    | 0  | 0 | 0   |
| 1: 1x4.1" (L/46) DP — [01] — S1: S    |      | 2              | 3  | 4   | 2    | 1  | — | —   |
| 2: 6x21" Torpedo — [28] — TT3: CB(x2) |      | 5              | 3  | +1  | +1   | +0 | — | —   |
| T1 to T12                             |      | SRAA: 3; DP: 1 |    |     |      |    |   |     |

**Variant 1 replaces the above entry for Weapon Battery #: 2**

|                                |  |   |   |    |    |    |   |   |
|--------------------------------|--|---|---|----|----|----|---|---|
| 3x21" Torpedo — [28] — TT3: CB |  | 5 | 3 | +1 | +1 | +0 | — | — |
|--------------------------------|--|---|---|----|----|----|---|---|

*Note for Variant 1: Some ships lost 1xTT3 in 1943*

*The total cost shown at the top of this ship's data entry is modified by the following amount if using the modifications in Variant 1: - 22*

|                                       |      |                |    |     |      |    |   |     |
|---------------------------------------|------|----------------|----|-----|------|----|---|-----|
| <b>Type 1937</b>                      | 1939 | 2              | 36 | - 3 | 3 RB | 1  | 1 | 128 |
| <i>Data for: 1941</i>                 |      | 2              | 4  | 0   | 0    | 0  | 0 | 0   |
| 1: 1x4.1" (L/46) DP — [01] — S1: S    |      | 2              | 3  | 4   | 2    | 1  | — | —   |
| 2: 6x21" Torpedo — [28] — TT3: CB(x2) |      | 5              | 3  | +1  | +1   | +0 | — | —   |
| T13 to T21                            |      | SRAA: 3; DP: 1 |    |     |      |    |   |     |

|   |      |  |    |     |      |    |   |     |
|---|------|--|----|-----|------|----|---|-----|
| <b>Type 1939</b>                            | 1941 | 3                                      | 33 | - 2 | 3 RB | 1  | 1 | 182 |
| <i>Data for: 1942-1944</i>                  |      | 3                                      | 5  | 0   | 0    | 0  | 0 | 0   |
| 1: 4x4.1" (L/46) DP — [01] — S1: B.CB.S(x2) |      | 2                                      | 3  | 4   | 2    | 1  | — | —   |
| 2: 6x21" Torpedo — [28] — TT3: CB(x2)       |      | 5                                      | 3  | +1  | +1   | +0 | — | —   |
| T22 to T36                                  |      | SRAA: 4; DP: 3<br>Armoured Flight Deck |    |     |      |    |   |     |

| <i>Class Name</i>   | <i>Initial in service date</i> | <i>S</i>                                  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|--------------------------------|---|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |                                | <i>F</i>                                  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |                                | <i>IP</i>                                 | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       |                                | <i>Other Weapons and Equipment, Notes</i> |            |             |             |            |             |             |

**Germany**

**MTB MTB**

|                                       |                      |      |         |    |     |      |   |   |    |
|---------------------------------------|----------------------|------|---------|----|-----|------|---|---|----|
| <b>S10 group</b>                      | <i>New Ship Data</i> | 1934 | 1       | 35 | - 4 | 1 RB | 1 | 1 | 69 |
| <i>Data for: Group of 3 vessels</i>   |                      |      | 1       | 2  | 0   | 0    | 0 | 0 | 0  |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3) |                      |      | 5       | 1  | +0  | —    | — | — | —  |
| S10 to S13                            |                      |      | SRAA: 2 |    |     |      |   |   |    |

|  |                          |      |  |    |     |      |   |   |     |
|--|--------------------------|------|--|----|-----|------|---|---|-----|
| <b>S100 group</b>                                    | <i>Altered Ship Data</i> | 1943 | 2  | 42 | - 3 | 1 RB | 1 | 1 | 128 |
| <i>Data for: Group of 3 vessels</i>                  |                          |      | 2  | 2  | 0   | 0    | 0 | 0 | 0   |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3)                |                          |      | 5  | 1  | +0  | —    | — | — | —   |
| S100, S136, S139 to S150, S167 to S228, S301 to S307 |                          |      | SRAA: 3<br>• SRAA increased to 4 later in war (cost +10) |    |     |      |   |   |     |

|                                       |                          |      |         |    |     |      |   |   |     |
|---------------------------------------|--------------------------|------|---------|----|-----|------|---|---|-----|
| <b>S14 group</b>                      | <i>Altered Ship Data</i> | 1936 | 2       | 38 | - 3 | 1 RB | 1 | 1 | 110 |
| <i>Data for: Group of 3 vessels</i>   |                          |      | 2       | 2  | 0   | 0    | 0 | 0 | 0   |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3) |                          |      | 5       | 1  | +0  | —    | — | — | —   |
| S14 to S17                            |                          |      | SRAA: 2 |    |     |      |   |   |     |

|                                       |                          |      |         |    |     |      |   |   |     |
|---------------------------------------|--------------------------|------|---------|----|-----|------|---|---|-----|
| <b>S18 group</b>                      | <i>Altered Ship Data</i> | 1938 | 2       | 40 | - 3 | 1 RB | 1 | 1 | 114 |
| <i>Data for: Group of 3 vessels</i>   |                          |      | 2       | 2  | 0   | 0    | 0 | 0 | 0   |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3) |                          |      | 5       | 1  | +0  | —    | — | — | —   |
| S18 to S25                            |                          |      | SRAA: 2 |    |     |      |   |   |     |

| <i>Class Name</i>   | <i>Initial in service date</i> | <i>S</i>                                  | <i>Spd</i> | <i>Size</i> | <i>Vis</i>  | <i>FC</i>  | <i>DC</i>   | <i>Cost</i> |
|---|--------------------------------|---|------------|-------------|-------------|------------|-------------|-------------|
| <i>Variant or Small Vessel Grouping (where appropriate)</i> |                                | <i>F</i>                                  | <i>MVR</i> | <i>Belt</i> | <i>Deck</i> | <i>CT</i>  | <i>T #1</i> | <i>T #2</i> |
| <i>Armament</i>   |                                | <i>IP</i>                                 | <i>RB</i>  | <i>I</i>    | <i>II</i>   | <i>III</i> | <i>IV</i>   | <i>V</i>    |
| <i>Ships in Class</i>                                       |                                | <i>Other Weapons and Equipment, Notes</i> |            |             |             |            |             |             |

**Germany**

**MTB**                      **MTB**

|                                       |                          |      |         |    |     |      |   |   |     |
|---------------------------------------|--------------------------|------|---------|----|-----|------|---|---|-----|
| <b>S26 group</b>                      | <i>Altered Ship Data</i> | 1940 | 2       | 40 | - 3 | 1 RB | 1 | 1 | 114 |
| <i>Data for: Group of 3 vessels</i>   |                          |      | 2       | 2  | 0   | 0    | 0 | 0 | 0   |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3) |                          |      | 5       | 1  | +0  | —    | — | — | —   |
| S26 to S29                            |                          |      | SRAA: 2 |    |     |      |   |   |     |

|                                       |                      |      |         |    |     |      |   |   |    |
|---------------------------------------|----------------------|------|---------|----|-----|------|---|---|----|
| <b>S30 group</b>                      | <i>New Ship Data</i> | 1939 | 1       | 36 | - 4 | 1 RB | 1 | 1 | 70 |
| <i>Data for: Group of 3 vessels</i>   |                      |      | 1       | 2  | 0   | 0    | 0 | 0 | 0  |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3) |                      |      | 5       | 1  | +0  | —    | — | — | —  |
| S30 to S37, S54 to S61                |                      |      | SRAA: 2 |    |     |      |   |   |    |

|  |                          |      |   |    |     |      |   |   |     |
|--|--------------------------|------|---|----|-----|------|---|---|-----|
| <b>S38 group</b>                                 | <i>Altered Ship Data</i> | 1939 | 2   | 40 | - 3 | 1 RB | 1 | 1 | 114 |
| <i>Data for: Group of 3 vessels</i>              |                          |      | 2   | 2  | 0   | 0    | 0 | 0 | 0   |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3)            |                          |      | 5   | 1  | +0  | —    | — | — | —   |
| S38 to S53, S62 to S99, S101 to S135, S137, S138 |                          |      | SRAA: 2   |    |     |      |   |   |     |
|  |                          |      | • SRAA increased to 3 (cost +10) or 4 (cost +20) later in war |    |     |      |   |   |     |

|                                       |                      |      |         |    |     |      |   |   |    |
|---------------------------------------|----------------------|------|---------|----|-----|------|---|---|----|
| <b>S6 group</b>                       | <i>New Ship Data</i> | 1933 | 1       | 35 | - 4 | 1 RB | 1 | 1 | 69 |
| <i>Data for: Group of 3 vessels</i>   |                      |      | 1       | 2  | 0   | 0    | 0 | 0 | 0  |
| 1: 6x21" Torpedo — [36] — TT2: BR(x3) |                      |      | 5       | 1  | +0  | —    | — | — | —  |
| S6 to S9                              |                      |      | SRAA: 2 |    |     |      |   |   |    |