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On top of all that, *Motor Pool* has advice on how to integrate vehicles into a roleplaying campaign, with details on how vehicle crews really lived and fought, from the difficulties of supply to getting their machine moving at all. Whether you’re campaigning by land, by sea, or by air, *Motor Pool* dramatically expands your options!
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THE MECHANICS

Written by Hans-Christian Vortisch
Edited and Illustrated by Gene Seabolt

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INTRODUCTION

Some historians like to call WWII the first war fought about and with oil. That perspective ignores a great deal of nationalism, empire-building, and racism that really motivated the conflict. Still, the point stands that in the Second World War, for the first time, machines may have played just as important of a role as the flesh-and-blood soldiers who had previously all but monopolized center stage.

When we began developing the GURPS WWII line, it became obvious that these machines would need proper support in the game mechanics. The fragile humans who operate them remain the focus of drama and emotional tension, but placing them in a setting with these complex tools as mere backdrops would become artificial and limiting. Often, it is enough for the GM to say, “You’re trapped in the bowels of a battleship,” but when the players try to cut their way out — or hijack the turbines’ output to start up their kilowatt-greedy death ray — the GM needs some guide as to how thick or heavy or powerful or reliable various things are.

Of course, GURPS already possessed a guide to such things, David Pulver’s Vehicles sourcebook, which is alternately praised for its utility or criticized for its complexity (which isn’t really all that much worse than a lot of popular roleplaying systems). With an eye toward avoiding those criticisms, I decided to simplify the Vehicles system, grouping options together realistically, ignoring all content outside the WWII technology level, and stripping out a few things that simply weren’t used. The resulting Modular Vehicle Design System still raised more than a few eyebrows — and remains the most criticized feature of the WWII corebook — but be that as it may, when a GM needs an idea how much weight a destroyer really could float, he can spend five minutes with the system and come up with a ballpark-accurate answer.

From the beginning, a German GURPS fan (who has since become a steady GURPS author) named Hans-Christian Vortisch made himself invaluable in developing the MVDS, the actual vehicle designs derived from it, and the small-arms profiles found in this line. His drive for precision collided with my passion for simplifying, and the result was something better than either of us could have produced on our own. (Certainly, not perfect – the MVDS squeaks and groans in certain places – but so would any 23,000 words attempting to mathematically model a world’s worth of what once was cutting-edge technology . . . )

Despite its utility in working up the numbers for any vehicle that catches the GM’s eye, what the MVDS cannot capture is the often fascinating stories about how a plane or tank or ship came to be developed, how its crews came to regard it, and how it fared in the actual fighting. These often give a vehicle more character than some of the PCs at its controls. With this in mind — and to serve those readers who still recoil at the thought of approaching even a scaled-down Vehicles system — we decided to do a book full of the vehicles that simply couldn’t fit elsewhere.

There was no question as to who should write it.

— Gene Seabolt

About the Author

Hans-Christian Vortisch is a writer and translator based in Berlin, Germany. His interest in armed vehicles goes back some 20 years, shortly before he first made contact with vehicle design in Car Wars. He is obsessed with detail and trivia, a quirk that has served him well on most game projects that he has worked on so far.

In his day-to-day operations, he rides a battered bicycle — sans machine gun.
PANTHER VARIANTS: JAGDPANTHER AND BERGEPANTHER

The chassis of the PzKpfw V Panther (see p. W:IC81) was used as the basis for a few other armored vehicles, though these modifications were not nearly as widespread as with earlier panzer chassis. The more important include:

**SdKfz 173 Jagdpanther**

In 1943, design began on a tank destroyer based on Panther components and carrying the 88mm Krupp PaK 43/3 gun, a massive weapon that was one of the most effective tank killers of the war. The resulting Panzerjäger V *Jagdpanther* (hunting panther) debuted in 1944.

Extensive sloping ensured that it was well protected, even though the armor plates were only moderately thick. It combined a low silhouette, hard-hitting gun, and good mobility, resulting in a superb fighting machine that could destroy any Allied contemporary. It was never available in sufficient numbers, however, with only 384 being completed until April 1945. It was deployed in platoons of four, usually in mixed units with the Jagdpanzer IV (see p. W:IC80).

The crew included the German’s usual complement of driver, hull gunner/radio operator, main gunner, loader, and commander. The Jagdpanther burns 23.5 gallons of gasoline per hour at routine usage. Fuel and ammo cost $3,040.

**Subassemblies:** Immense Tank chassis with Medium slope +4; Large TD superstructure with Advanced slope [Body:T] +4; tracks +4.

**Powertrain:** 522-kW standard gas engine with 522-kW tracked transmission and 190-gallon light fuel tanks; 12,000-kWs batteries.

**Ooc:** 2 CS Body, 3 CS Both

**Cargo:** 22.7 Body, 8.4 Sup

**Armor**

<table>
<thead>
<tr>
<th>F</th>
<th>RL</th>
<th>B</th>
<th>T</th>
<th>U</th>
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</table>

**Tracks:** 4/55 5/55 4/55 4/55 4/55

**Sup:** 6/620 5/285 5/225 4/60

Standoff armor on both sides protects tracks 50% of time.

**Weaponry**

Ground LMG/MG 34 [Body:F] (600 rounds).
88mm Long Tank Gun/PaK 43/3 [Sup:F] (57 rounds).
92mm Vehicle Mortar/NvW [Sup:T] (20 rounds).

**Equipment**

*Body:* Fire extinguisher; medium radio receiver and transmitter; Zimmerit. *Sup:* Zimmerit.

**Statistics**

*Size:* 32' × 11' × 9'  *Payload:* 2.6 tons  *Lwt:* 50 tons

*Volume:* 267  *Maint.:* 27  *Cost:* $55,865

*HT:* 10  *HPs:* 2,600 Body, 900 each Track, 450 Sup.

**gSpeed:** 34  **gAccel:** 3  **gDecel:** 20  **gMR:** 0.25  **gSR:** 6

Ground Pressure Low. 2/3 Off-Road Speed.

**Design Notes**

Loaded weight was decreased 11% and design gSpeed increased 7% to the historical values.

**SdKfz 179 Ausf A Bergepanther**

The weight and mechanical unreliability of the Panther (and Tiger) made a dedicated recovery vehicle necessary; an immobilized Panther needed at least three 19.8-ton SdKfz 9 halftracks to recover it, and they could not work under fire.

The Panzerbergewagen V *Bergepanther* (recovery Panther) consisted of a Panther sans turret. A 44-ton winch with 155-yard cable was installed in the fighting compartment and a massive spade at the rear was used as counterweight and to dig in the vehicle. A 2.2-ton lifting crane was added to allow the removal of engines or similar work. The superstructure over the winch could stow 3.3 tons of cargo, usually a spare engine.

Some 348 were built from mid-1943, but 46 were delivered without the expensive winch and other equipment.

The cannon is above the driving compartment. Pintles to each side can mount MGs, but usually are empty. Crew includes driver, commander/gunner, and winch operator. The vehicle burns 23.5 gallons of gasoline per hour. Fuel and ammo cost $85.

**Subassemblies:** Immense Tank chassis with Medium slope +4; Medium AFV superstructure [Body:T] +2; limited-rotation Mini open mount 1 [Body:T] +0; limited-rotation Small AFV open mount 2 [Body:T] +2; tracks +4.

**Powertrain:** 522-kW standard gas engine with 522-kW tracked transmission and 284-gallon standard fuel tanks; 12,000-kWs batteries.

**Ooc:** 3 CS Body  **Cargo:** 20 Sup

**Armor**

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<th>B</th>
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<th>U</th>
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</table>

**Tracks:** 4/55 4/55 4/55 4/55 4/55

**Sup:** 3/5W 3/5W 3/5W 0/0 –

**OM 1:** 4/25 0/0 0/0 0/0 –

**OM 2:** 0/0 0/0 0/0 0/0 –

Standoff armor on both sides protects tracks 50% of time.

**Weaponry**

20mm Long Gr. AC/20mm Mauser KwK 38 [OM 1:F] (180).

**Equipment**


**Statistics**

*Size:* 29' × 11' × 9'  *Payload:* 4.5 tons  *Lwt:* 47.3 tons

*Volume:* 228  *Maint.:* 36 hours  *Cost:* $31,585

*HT:* 10  *HP:* 2,600 Body, 900 each Track, 200 Sup, 30 OM 1, 120 OM 2.

**gSpeed:** 34  **gAccel:** 3  **gDecel:** 20  **gMR:** 0.25  **gSR:** 6

Ground Pressure Low. 2/3 Off-Road Speed.

**Design Notes**

The spade was treated as a bulldozer blade. The winch uses 18 modules rather than 17.6; this helps cover the extra cable. The crane uses two modules rather than 2.2 as it was a lightweight boom. Crew access space was trimmed by 0.9 VSPs.
### Ilyushin DB-3 (Il-4)

The Ilyushin Dalni Bombardirovshchik-3 (medium bomber) was an important bomber of WWII. It was a successful twin-engined design, relatively simple but sturdy, and reliable like many Soviet aircraft of the era.

The original DB-3B entered production in 1937. This was heavily used in the Winter War against Finland (see *GURPS WWII: Frozen Hell*). During the 1940s, the Finnish air force had 11 captured DB-3Bs, but did not put them to much use.

From 1938, 24 were used by the Russian volunteer group of the Chinese air force in the Sino-Japanese War.

In 1939, it was superseded by the improved DB-3M, which had better engines and other upgrades. This in turn was replaced by the DB-3F, which was to become the standard type of the Great Patriotic War. Its appearance was noticeably different, with a slimmer nose featuring a large glazed area, new wings, and more powerful engines. In keeping with new naming conventions, it was re-designated the II-4 in reference to its designer of 1942. No fewer than 5,256 were built until early 1945.

The armament, which had been found lacking against the Finns and Japanese, was improved, although the aircraft’s defensive capability would remain mediocre for its service life. This generally confined it to night attacks. The nose turret of the older models was replaced by a swivel mount on the DB-3F.

The bomber was in service both with the long-range aviation command of the Red Army as well as naval aviation. It is credited with the first attacks on Berlin, bombing the German capital on August 8, 1941. Apart from long-range bombing raids, it was also frequently used for short-range, maximum payload attacks on tactical targets immediately behind enemy lines. The navy used it as a land-based torpedo bomber with the Baltic, Black Sea, and Northern fleets. In the reconnaissance role, it was fitted with a recon camera in the bomb bay, and late in the war, it was used to tow A-7 or G-11 gliders.

Those built from 1942 had more powerful supercharged engines and a wooden nose, wings, and fuselage deck due to a shortage of light alloys. The final production returned to metal parts again when new factories in Siberia picked up production.

The DB-3F is crewed by a pilot, navigator/bombardier (who also fires the 12.7mm UBS machine gun in the nose), radio operator (who also fires the 7.62mm ShKAS in the ventral position), and gunner (who fires the 12.7mm UBT in the turret with 28°-per-second manual traverse). The bomb bay will hold ten 220-lb. bombs, and the external hardpoints will usually carry three 550-lb. bombs.

The engines burn 82 gallons of aviation gas per hour at routine usage. A full load of fuel and ammo costs $320.

### Ilyushin DB-3F (II-4)

**Subassemblies:**
- Heavy Fighter-Bomber chassis +4; Light Bomber wings +4; two Large Weapon pods 1-2 [Wings:F] +2; full-rotation Medium Weapon turret [Body:T] +1; three retractable wheels +1.
- Powertrain: two 820-kW aerial HP supercharged gas engines with two 820-kW props [Pods 1-2], 1,018-gallon self-sealing tanks [Wings]; 4,000-kWs batteries.
- Ooc: 3 CS Body, 1 CS Both Cargo: 46.6 Body, 1.2 Wings

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<tr>
<th>Armor</th>
<th>F</th>
<th>RL</th>
<th>B</th>
<th>T</th>
<th>U</th>
</tr>
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<tbody>
<tr>
<td>All:</td>
<td>2/3</td>
<td>2/3</td>
<td>2/3</td>
<td>2/3</td>
<td>2/3</td>
</tr>
<tr>
<td>Pilot:</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+30</td>
<td>0/+0</td>
<td>0/+0</td>
</tr>
<tr>
<td>Bombard:</td>
<td>0/+20</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+0</td>
</tr>
<tr>
<td>Radio Op:</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+20</td>
</tr>
<tr>
<td>Gunner:</td>
<td>0/+30</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+0</td>
<td>0/+0</td>
</tr>
</tbody>
</table>

**Weaponry**

- Aircraft LMG/ShKAS [Body:U] (1,100 rounds).

**Equipment**

- Body: Autopilot; 2,200-lb. bomb bay; bombsight; 2,200-lb. hardpoint; IFF; navigation instruments; precision navigation instruments; large radio receiver and transmitter.

**Statistics**

- Size: 48’×70’×14’ Payload: 4 tons Lwt: 11.1 tons
- Volume: 640 Maint: 24 hours Cost: $68,720
- HT: 10. HPs: 525 Body, 300 each Wing, 50 each Wheel, 120 each Pod 1-2, 75 Turret.
- aSpeed: 251 aAccel: 4 aDecel: 20 aMR: 5 aSR: 2 Stall Speed 76. -1 aSpeed per loaded hardpoint.
- gSpeed: 177 gAccel: 8 gDecel: 10 gMR: 0.25 gSR: 3 Ground Pressure Extremely High. No Off-Road Speed.

**Design Notes**

The historical 718-sf wing area was used for performance calculations. Design aSpeed was increased 5% to the historical figure. Weight, cost, and HPs of the wings were halved to reduce weight – this also represents some of the effects of the wooden construction.

From 1943, the II-4 was rearmed to mount a 20mm ShVAK (20mm Long Aircraft AC) with 120 rounds in the nose and another ShVAK with 240 rounds in the turret.

**Variants**

- The DB-3B of 1937 had 570-kW engines and was armed with a 7.62mm ShKAS (Aircraft LMG) with 500 rounds in the nose, a ShKAS with 1,100 rounds in the turret, and a ShKAS with 1,100 rounds in the ventral position. Some had an optional remote-controlled ShKAS with 300 rounds in the tail, fired by the pilot with an effective Acc of 0. Some 1,528 were built.
- The 7.1-ton DB-3T of 1937 could carry a single 450mm torpedo under the belly; aSpeed 245.
- The DB-3M of 1939 received new 694-kW engines, which were upgraded in early 1940 to 709 kW, and again in 1941 to 820 kW. That latest version also had increased fuel tankage to 756 gallon; aSpeed 277.
**Flower-Class Corvette**

In the 1930s, the Royal Navy requested a small corvette to escort coastal convoys. A design based on a modified commercial whaler was selected, and 60 were ordered before the outbreak of the war, but it didn’t enter service before 1940. Eventually, 135 ships of the basic design were built in Britain until 1943, and another 79 in Canada.

All received flower names, from *Anemone* to *Zinnia*. The type was primarily used by the Royal Navy and Royal Canadian Navy, but a few were delivered to the Free French, Greek, and Norwegian forces, as well. The U.S. Coast Guard operated 18 as the Patrol Gunboat (PG) from 1942.

The *Flower* class was extensively used for escort duties protecting Allied convoys, mainly on the Atlantic, but also in the Arctic and Indian seas. Despite being good sea vessels, they suffered from being “wet” ships, with much sea spray on the decks, and bobbed heavily on the waves, making life for the crew rather miserable. A fortnight of constant rolling and pitching on transatlantic convoy duty exhausted everyone who sailed in them.

The original design had a mercantile bridge, but it was quickly replaced in production by a more warlike open bridge with a radar system on top. This was one of the great innovations of the sea war, allowing the previously blind escorts to see at night and in fog. In contrast to the good radar, the ship had an outdated sonar system that lost contact when the ship passed over a submarine to drop depth charges. (This problem was circumvented when it received the Hedgehog antisubmarine mortar, allowing it to attack from a distance.)

The ship’s primary opponent was the German U-boat, even though it was fairly vulnerable against torpedoes and mines: Having few compartments below the waterline, the corvette could sink in seconds, with few survivors, if severely holed. A total of 35 *Flowers* were lost during the war.

The ship has a crew of 85. The main armament is a 102mm (“4-inch”) QF Mk XIX gun in a forward turret with 4°-per-second manual traverse. A gun tub on the aft superstructure carries a quadruple .500 Vickers Mk III machine gun mount for AA fire (12°-per-second manual traverse); Canadian and U.S. ships mount twin .50 Browning M-2WC guns (see p. W:D73). Twin .303 Lewis Mk IISS machine guns (see p. W:AKM64) are mounted on the bridge house siderails, with 60°-per-second manual traverse. For antisubmarine work, there is a depth-charge thrower on either side, and depth charge rails are installed aft. This armament was considerably upgraded over the course of the war.

The *Flower*-class corvette’s engine burns 130.9 gallons of fuel oil per hour of routine usage. Fuel, ammo, and provisions cost $74,810. The historical cost was 70,000 pounds Sterling ($269,230).

**Powertrain**: 2,148-kW steam turbine with 2,148-kW water screw and 48,300-gallon standard tanks; two 25-kW marine diesel engines; 40,000-kWs batteries.

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<table>
<thead>
<tr>
<th>Armor</th>
<th>F</th>
<th>RL</th>
<th>B</th>
<th>T</th>
<th>U</th>
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</thead>
<tbody>
<tr>
<td>Turret:</td>
<td>4/20</td>
<td>4/20</td>
<td>0/0</td>
<td>4/20</td>
<td>–</td>
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<tr>
<td>OM 1:</td>
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<td>0/0</td>
<td>–</td>
</tr>
<tr>
<td>OM 2-3:</td>
<td>4/20</td>
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<thead>
<tr>
<th>Weaponry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body:</td>
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</table>

† Includes full access.

**Statistics**

<table>
<thead>
<tr>
<th>Size:</th>
<th>205’×33’×75’</th>
<th>Payload:</th>
<th>250 tons</th>
<th>Lwt.:</th>
<th>1,160 tons</th>
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<tr>
<td>Volume:</td>
<td>14,447</td>
<td>MH:</td>
<td>7 man/hours</td>
<td>Price:</td>
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<tr>
<td>HT:</td>
<td>12</td>
<td>HPs:</td>
<td>120,000 Body, 1,120 Sup, 285 Turret, 120 OM 1, 30 each OMs 2-3.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>wSpeed:</td>
<td>18</td>
<td>wAccel:</td>
<td>0.3</td>
<td>wDecel:</td>
<td>0.3 (0.5)</td>
</tr>
<tr>
<td>wSR:</td>
<td>0.05</td>
<td>Draft 13’. Flotation Rating 1,320 tons.</td>
<td></td>
<td></td>
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</tbody>
</table>

**Design Notes**

Weight, cost, and HPs of body and superstructure were doubled. Loaded weight had to be increased 36%.

From mid-1941, a 24-barrel Hedgehog antisubmarine mortar with 120 rounds was fitted.

From late 1941, most replaced the HMGs with a single 2-pounder Vickers Mk VIII (40mm Short Ground AC) with 720 rounds and DR 40 gunshield, and added a 20mm Oerlikon Mk IV (20mm Long Ground AC) with 1,800 rounds each to either superstructure side.

In 1943, four more Oerlikons were added aft. Also in 1943, a few added a 6-pounder ROQF Mk II (57mm Medium Tank Gun) on the superstructure to fire at submarines.

The number of depth charges carried aboard was eventually increased to 100.

**Flower-Class Corvette Subassemblies:**

- Heavy Corvette chassis +8; waterproofed
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