

# Preußische T 12



74 1230 Bw Berlin-Schöneeweide 12. September 2010

Nummerierung:	DR 74 401–543, 545–1321
Anzahl:	1.014
Hersteller:	Union, Borsig
Baujahr(e):	1902–1921
Ausmusterung:	1968
Bauart:	1'C h2t
Gattung:	Pt 34.17
Spurweite:	1435 mm (Normalspur)
Länge über Puffer:	11.800/12.100 mm
Dienstmasse:	65,90 t
Reibungsmasse:	50,50 t
Radsatzfahrmasse:	17,36 t
Höchstgeschwindigkeit:	80 km/h
Indizierte Leistung:	640/669 kW
Treibraddurchmesser:	1.500 mm
Laufraddurchmesser vorn:	1.000 mm
Zylinderanzahl:	2
Zylinderdurchmesser:	540 mm
Kolbenhub:	630 mm
Kesselüberdruck:	12 bar
Anzahl der Heizrohre:	120

Anzahl der Rauchrohre:	18
Heizrohrlänge:	4.370 mm
Rostfläche:	1,73 m <sup>2</sup>
Strahlungsheizfläche:	9,41 m <sup>2</sup>
Rohrheizfläche:	98,6 m <sup>2</sup>
Überhitzerfläche:	33,40 m <sup>2</sup>
Verdampfungsheizfläche:	108,1 m <sup>2</sup>

Die Gattung **T 12** war eine Personenzug-Tenderlokomotive der Preußischen Staatseisenbahnen. Bei den Lokomotiven handelt es sich um die Heißdampf-Ausführung der T 11.

## Geschichte

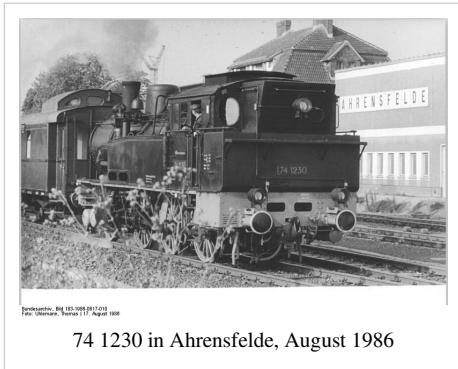


74 1192 im Eisenbahnmuseum  
Bochum-Dahlhausen 2004

Obwohl die Baureihe bereits seit dem Jahre 1902 in vier Versuchsexemplaren (mit Rauchkammer- anstelle des späteren Rauchrohrüberhitzers) und damit noch vor der T 11 zur Verfügung stand, begann die Serienproduktion erst im Jahr 1905. Neben der Preußischen Staatsbahn erwarben unter anderem auch die Reichseisenbahnen in Elsaß-Lothringen (25 Stück), die Lübeck-Büchener Eisenbahn und die Halberstadt-Blankenburger Eisenbahn Lokomotiven dieses Typs.

Haupteinsatzgebiet der T 12 war der Verkehr auf der Berliner Stadt-, Ring- und Vorortbahn, dem Vorläufer der elektrischen S-Bahn. Die Maschinen mussten, damit akzeptable Durchschnittsgeschwindigkeiten erreicht wurden, die im Nahverkehr rund 250 t und auf den Vorortstrecken rund 300 t schweren Abteilwagenzüge aufgrund der teilweise recht geringen Bahnhofsabstände schnell beschleunigen können. Die T 12 erwies sich in beiden Fahrrichtungen als diesbezüglich leistungsfähige und spurtstarke Lokomotive. Im Jahr 1921 wurden von Borsig noch einmal 40 Lokomotiven nachgebaut, weil die Bestandsgröße noch nicht ausreichend war. Die schnelle Erschöpfung der Kesselreserve durch das leistungsfähige Triebwerk der Maschinen wurde beim Verkehr auf der Stadtbahn durch die zahlreichen Auslauf- und Aufenthaltszeiten wett gemacht. Nach der Elektrifizierung des größten Teils der S-Bahn-Strecken zwischen 1924 und 1929 kamen die Lokomotiven im Rangierdienst, oder im Personen- oder Güterzugdienst auf kurzen Strecken zum Einsatz, da die Baureihe aufgrund der bereits genannten raschen Kesslerschöpfung bei hoher Leistungsabgabe sowie auch aufgrund der knappen Wasservorräte für längere Strecken wenig geeignet war.

1925 übernahm die Reichsbahn 899 Exemplare als **Baureihe 74.4-13** mit den Nummern 74 401 bis 74 1300 mit Ausnahme der 74 544. Die Lokomotive, für die diese Nummer vorgesehen war, musste an Belgien abgegeben werden. Die Lokomotiven mit den Nummern 74 784–786 und 74 1254 stammten ursprünglich von den Reichseisenbahnen in Elsaß-Lothringen. Zehn Lokomotiven mit den Nummern 74 1301 bis 74 1310 wurden von den Eisenbahnen des Saargebietes übernommen.



74 1230 in Ahrensfelde, August 1986

Weitere elf Stück mit den Nummern 74 1311 bis 74 1321 wurden 1938 von der Lübeck-Büchener Eisenbahn übernommen, wo sie die Nummern 132 bis 142 getragen hatten. Fünf dieser Lokomotiven waren nach dem Vorbild der 1'B1'-Stromlinienlokomotiven ebenfalls mit einer Stromlinienverkleidung versehen.<sup>[1]</sup> Die Verkleidungen wurden 1948 wieder entfernt, am tropfenförmig auslaufenden Kohlekasten waren diese Maschinen später noch erkennbar.

Nach Ende des Zweiten Weltkrieges verblieb die 74 498 in Österreich. Die ÖBB reichten sie als 674.498 in ihren Fuhrpark ein. Die Maschine war in Wien eingesetzt, entgleiste am 3. Juli 1954 und wurde danach

verschrottet (offizieller Ausscheidungstag: 23. Mai 1955).

Im Jahr 1950 übernahm die Deutsche Reichsbahn in der DDR vier von der Halberstadt-Blankenburger Eisenbahn beschaffte Lokomotiven als 74 6776–6779. Bei beiden deutschen Bahnen war die Ausmusterung bis 1968 beendet.

## Konstruktive Merkmale und Leistungsvermögen

Die Lokomotiven wurden auf einem genieteten Blechrahmen, den man zugleich als dritten Wasserkasten ausgebildete, aufgebaut.

Den gleichfalls genietete Langkessel (in der Ausführung mit Rauchrohrüberhitzer Bauart Schmidt) fertigte man aus drei Schüssen, wobei der Dampfdom mit dem Regler auf dem ersten Schuss montiert wurde. Die Rauchkammer erhielt in typischer Art für preußische Heißdampfloks einen größeren Durchmesser als der Langkessel. Die zwischen die Rahmenwangen eingezogene Feuerbüchse wurde wie seinerzeit üblich aus Kupfer gefertigt.

Das Zweizylinder-Heißdampf-Triebwerk (mit Heusinger-Steuerung und Kuhnscher Schleife) ordnete man nicht unterhalb des Schornsteins, sondern weit zurückliegend zwischen Laufradsatz und erster Kuppelachse an. Die Platzierung machte die auffallend langen Ein- und Ausströmröhre der Dampfmaschine erforderlich. Als Treibradsatz dient der zweite Kuppelradsatz.

Beim Laufwerk der Baureihe führte man die Laufachse und den ersten Kuppelradsatz als Krauss-Helmholtz-Gestell aus. Die beiden anderen Achsen wurden fest im Rahmen gelagert.

Die Baureihe T 12 konnte eine Wagenzugmasse von 295 t in der Ebene mit 75 km/h ziehen. Auf einer Steigung von sechs Promille konnten 285 t noch mit 50 km/h befördert werden.

## Erhaltene Loks

Erhalten geblieben sind 3 Loks, davon die **74 1192** und die **74 1230** (beide siehe Bilder) in Deutschland sowie die ehemalige **74 1234** in Polen, welche dort der Baureihe OKi2 zugeordnet wurde.

## Literatur

- Klaus-Detlev Holzborn: *Unsere Dampflokomotiven. Band II. Tenderlokomotiven BR 60 – 96*. Albis Verlag Düsseldorf, 1967
- Manfred Weisbrod, Dietzer Bätzold, Horst J. Obermayer: *Das große Typenbuch deutscher Dampflokomotiven*. Transpress Verlag, Berlin 1994, ISBN 3-344-70751-5
- Manfred Weisbrod, Hans Müller, Wolfgang Petznick: *Deutsches Lok-Archiv: Dampflokomotiven 3 (Baureihen 61 – 98)*. 4. Auflage, transpress, Berlin 1994, ISBN 3-344-70841-4, S. 67 ff., S. 326 f.

## **Einzelnachweise**

[1] Abbildung der LBE 142 mit Stromlinienverkleidung ([http://loco.skyrocket.de/data/lbe\\_137.htm](http://loco.skyrocket.de/data/lbe_137.htm))

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