PROFILE PUBLICATIONS

The
Junkers
Ju 52
Series







by J. Richard Smith

"Tante Ju" in flight; a machine of III/TG 3 over the Russian snowfields, with the Gruppe badge on nose and rudder.
(Photo: R. C. Seeley Collection)

The Junkers Ju 52 Series

Affectionately known to Luftwoffe personnel as 'Iron Annie', the Ju \$2,3m was recognisable immediately by its lumbering corrugated silhouette as it roarder overhead with a noise that has apily been to the property of the control of the property of the bottom gear'! The Ju \$2,3m and DC-2 Dakota can jointly claim to be the world's most famous transport aircraft, both being conceived well before the Second World War, and both being in passenger service for

at least thirty years The history of the Ju 52/3m can logically be traced back to the Junkers J.I.-the world's first all-metal aeroplane completed in 1915. Employing the same corrugated skin as the J.I., the Ju 52 was developed via the F.13, G.23/G.24, G.31, W.33 and W.34 and made its initial appearance in 1930. The original Ju 52 was a single-engined low-wing cantilever monoplane employing the famous Junkers "double wing"-full span trailing edge flaps. The airframe was a tubular steel structure covered with sheets of corrugated aluminium which offered a great increase in strength over conventional smooth sheets. Cubic capacity of the cabin was 590 cu.ft. and a loading hatch, divided horizontally, was provided in the port side of the fuselage. When open, the lower half formed a platform to enable easy loading of cargo.

The first prototype, designated Ju 52ba (D-1974—

W.N. (2011) made its tritial flight on 11th October 1930, powered by an 800 h. D. Mankers L. 88 weber visited rejusid cooled in-line engine. After extensive trials, the Ju 522b was re-engined with a 758 h.p. BMW Vilan twelve cyclinder in-line as the Ju 52bc period of the second of the second of the second of the 738 h.p. BMW, Vil as the Ju 52bc. This engine was the second of the second of the second of the second Leopard Gourtee cyclinder to-vorvo radial, and D-2/33 became the Ju 52bc. This engine was finally englated by the 790 h.p. Junkers Juno 204 diesel and

The third aircraft (D-2317—WNF.4004) was designated Ju 32ce and employed modified leading edge taper and structural strengthening. The machine was powered by a single B.M. W. Huar engine and transferred to Sweden in December, becoming Ex-ADM, and was fitted with both float and wheeled undercarriages. The Ju \$25de/di/do was also seen as both land and floatplane, and the last aircraft,

D-2356 (W.Nr.4005) was a fifteen-seat airliner powered initially by the 780 h.p. B.M.W. IXu as the Ju \$2cai\$. It crashed and was written off in May 1931. The last single-engined Ju \$2 was \$CF-ARM\$

A gleaming Ju 52/3mge (W.Nr.4041) in Lufthansa colours, registered D-3131 and named after Germany's First World War hero, "Werner Vois". The aircraft was subsequently re-registered as D-ARAM.





(Photo: G. Cattaneo)

Ju 52/3mho, W.Nr.4055, D-AQAR, displayed at the Paris Salom in floatplane configuration. The aircraft was operated by Lufthansa under the name "W. Höhndorf".

(W.Nr.4006) delivered to Canadian Airways late in The machine was originally fitted with a B.M.W. VIIau engine as a Ju 52ce, but this was replaced in 1936 by the 825 h.n. Rolls-Royce Buzzard as the Ju 52can.

The Ju 52/3m was developed by Dipl.Ing. Zindel, Junkers's chief designer, as a three-engined successor to the Ju 52. Unfortunately, it has not been recorded which was the first prototype, although the earliest known Werke Nr. was 4008—a machine delivered to Lloyd Aereo Boliviano in 1932. The machine was powered by three B.M.W.-built Pratt and Whitney Hornet radials and designated In 52/3mce (It has been reported that W.Nr.4007, intended as a Ju 52ce. was fitted with three Pratt & Whitney Hornet radials. and first flew early in 1932.) In all, seven aircraft were delivered to the Bolivian airline, but none carried markings. They were used mainly as passenger aircraft, but did take part in the Bolivian-Paraguavan dispute over the Gran Chaco of 1932-35. Here they served as military transports-the first recorded use of the Ju 52/3m in this, its most famous rôle.

The Ju 52/3mce and fe (W Nr 4020 onwards), the two most widely built aircraft from the early production series, were both powered by the B.M.W. Hornet nine cylinder radials. Other aircraft were fitted with the B.M.W. 132 (B.M.W.'s licence production version of the Hornet) the Hispano-Suiza. the Pratt and Whitney Wasn and the Bristol Pegasus engines. The Ju 52/3mho was fitted with three 650 h.p. Junkers Jumo L.5 diesel engines.

AIRLINE SERVICE The first Ju 52/3m's for Lufthansa

were W.Nr.4013 and 4015, resnectively D-2201 "Roelcke" and D-2202 "Richtofen" registered in May and September 1932. The first Ju 52/3m's were introduced on the Berlin-Rome and Berlin-London services during the summer of 1932 and the type rapidly became one of the mainstays of Lufthansa. One of the first production aircraft was W.Nr.4016 CV-FAI which powered by three Hispano-Suiza engines.

delivered to Prince Bibesco of Roumania. Production increased rapidly (see Table One) and by 1935, ninetyseven Ju 52/3m's were serving with a variety of airlines. Early customers were the Finnish Aero O/Y, the Swedish A.B. Aero-transport and the Brazilian Syndicato Condor companies; and by the time production ceased, no less than 29 countries (excluding Germany) had operated the machine:-

Argentina: Arroposto Argentino, (4 aircraft), LV-AAB, LV-AAJ, LV-BAB and LV-CAB. Australia: Gibbes Sepik Airwoys, (3 aircraft), VH-BUU, VH-BUV and Austria: Osterreichische Luftverkehrs, (3), OE-LAK, OE-LAN and OE-

LAP, Belgium: Sebess. (9). OC-AGU, OC-AGW, OC-AUA, OC-AUB, Belgium: Sebess. (9). OC-AGU, OC-AGW, OC-AUA, OC-AUB, Belgium: Loyf Acres Bolivias: Loyf Acres Bolivias: Loyf Acres Bolivias: Dept. (1). Dept. (1). Oc. AGW, OC-AC, PF-CAX, China: Eurosien Aristion Corporation, (5), registrations unknown.

Colombia: Three aircraft were operated by the Colombian Government

A Lufthansa Ju 52/3mho, powered by Junkers Jumo 5 diesel engines. This machine, Werke Nummer 4045, was named



Another early Lufthansa machine with a proud name: this is Ju 52/3mce W. Nr. 4022. "Manfred von Richthofen". Seen here as D-2527.





Czechoslavakia: C.S.A., (4), OK-PCC, OK-PCD, OK-TOI, OK-ZDO. Demark: D.D.L., (3), OY-DAL, OY-DFU and OY-DFY. Ecuador: S.D.T.A. (2), HC-SND and HC-??? Estonia: A.G.O., (1), ES-AUL. Finland: Areo (3), (5), OH-AUK, OH-AUL, OH-LAM, OH-LAM and

France: (All nationally built)—Air France. (87), F-BAJA to F-BAJE, F-BAJG to F-BAJY, F-BAXX, F-BAXX, T-BAXX to F-BAXY, F-BAXX to F-BAY, F-BAYA to to FABANS, F-BBYG to F-BBYG, F-BCH1 and F-BCHP, Air Folice, (10), F-BBYT, F-BBZ, F-BCH1 to F-BCHC), Alge Aug. (2), F-BBZE and Ann-Carpy, (2), F-BBYT and F-BCHB. T.A.L. (7), F-BBYK to F-BBYN, F-BCHA, F-BBCHG and F-BCHW. (3), G-ABYR (3), C-ABEX and G-BBYN, F-BCHA, F-BCHC, G-BCHC, (3), G-ABYR (3), G-ABYR (3), G-BBYN, F-BURN, AIR STRING, (3), G-ABPR, British European Airways, (10), G-ABYR (4), G-BCHZ, and G-BCHZ, G

AHOC to G-AHOL. British Oversess Airways, (1), G-A Greece: S.H.C.A., (3), SX-ACF, SX-ACH and SX-ACI

Greece: S.M.C.A., (1), SYACE, SYACH and SYACE, and HALUE, Hungary Mitter, (3), HADUB, HADUA to HALUE, and HALUE, tally. As the times, (3), LALAE, BARABAR, AND ASSESSED ASSESS

Poland: L.O.T., (1), Sh-AKX.

Portugal: Servicia Aerosi Pertugueses, (1), CS-ADA (ex-Air France).

Roumania: LAR.E.S., (1), CV-FAI (later YR-ABF).

Spain: Berin, (16), EC-ABF to IC-ABU, EC-ADD, EC-ADP, EC-ADC

EC-CAI (later EC-ABD), EC-CAK (later IC-ABB), EC-CAL (later EC-ABC).

AAUI, EC-CAN (IC-ABF). EC-DAM (EC-ABF) and EC-DAN (IC-ABF).

SWeden: A.B. Aerotronsport, (7), SE-ADR, SE-AER, SE-AES, SE-AEA, SE-AE Scenth Africa: South African Airwayz, (15), ZS-AFA to ZS-AFD, ZS-AIF to ZS-AIJ, ZS-AKY, ZS-ALD, ZS-ALP, ZS-ALR, ZS-ALS and ZS-ALU. Uruguay: CAUSA, (2), CX-ABA and CX-ABB.

In addition to the above-named foreign countries, no less than 231 Ju 52/3m's were registered in the name of Lufthansa. Perhans two of the most interesting were D-2600 "Immelmann" and D-ALYL "Hans Loeb". The former was used as a personal transport by Adolf Hitler until replaced by the Fw 200 V3 which was also registered D-2600 and named "Immelmann". D-ALYL was re-named "XI Olympiade" in 1936 and marked with the five symbolic rings in honour of the 1936 Berlin Olympic Games.

INTO UNIFORM

Several Ju 52/3m's were fitted with twin floats, the first machines to employ this feature being W.Nr.4014 OH-ALK and W.Nr.4017 SE-ADR. In 1934 a military version of the Ju 52/3m was produced for use by the still secret Luftwaffe. Designated Ju 52/3mg3e, the aircraft was designed as a heavy bomber with a crew of four and two 7-9 mm. MG 15 machine guns. One was fitted in the dorsal position.

the other in a retractable metal "bucket" below the fuselage, aft of the undercarriage Four hundred and fifty Ju 52/3mg3e's were delivered during the period 1934-35 but little use was

made of the aircraft as a bomber by the Luftwaffe. On 18th July 1936 a revolution, led by General Francisco Franco Bahamonde, broke out in Spain, The warring factions received immediate assistance from foreign countries, the fascist powers being quick to support the revolutionaries. Twenty Ju 52/3mg3e's and six He 51 fighters were dispatched to Spain and the former were used to help ferry 10,000 Moorish troops from Morocco to Spain. In November 1936, the Condor Legion was formed.

This was a special air arm using Luftwaffe personnel and aircraft (in Spanish Nationalist uniforms and insignia) and originally comprising a fighter group, a bomber group, a reconnaissance squadron, a seaplane squadron and several support units. Kampfgruppe 88. the bomber unit, was equipped initially with three Staffeln of Ju 52/3mg3e's, but by the end of 1937 they had become obsolete in the bomber rôle and were replaced by the much more advanced Dornier Do 17E-1 and Heinkel He 111B-1.

In Spanish Nationalist service the Ju 52/3m established a formidable reputation and gained the affectionate name "pava" (turkey). As stated above, the first 20 aircraft were used to transport troops from

A Ju 52/3mg3e of the Legion Condor in Spain, the first of many battlefields for "Iron Annie," The open fuselage door conceals part of the Ju 52's type coding in Spanish service-"22 (Photo: via Jean Cuny)





Poor in quality but of historical interest, this photograph illusas a glider tug, utilising a short tow har rather than the usual cable. The glider is a DFS 230, numbers of which were towed numbers of which were towed into action by Ju 52/3m's during the invasion of Crete in 1941,

Morocco to the Spanish mainland Initially Spanish crews were trained by German airmen at Seville and the first unit. escuadra R was in action for the first time during September 1936. During the following months, wherever Nationalist troops were engaged, the Ju 52/3m was acting in support. although early in 1937 the Republican fighters were causing great havoc amongst Nationalist hombers (One particular In 52 was attacked by 24 Republican I-15 fighters before being shot down!).

By the end of 1937, the Nationalists had attained complete air superiority and the Ju 52's were constantly in action. Other units to operate the type included crimarian 4-E-22, groys 1-G-22 and type included crimarian 4-E-22, groys 1-G-22 and the complete of the Coulomb Legion, the former carried a St. Andrew's cross superimposed on the black disc marking on the fuseless sides. During the Automaliats paids to the Mediterrament, the bitter shadmalist paids to the Mediterrament, the bitter shadmalist paid to the Mediterrament of the State shadmalist paid to the Mediterram of the State shadmalist paid to the Mediterram of the State (Spring 1939), the Ju 52's were rarely modeled by Republican fighters. They made their last opening to the Mediterram of the Mediterram of the Mediterram of the Mediterram of the Mediterram to the Mediterram of the Mediterram to the Mediterram of the Mediterram of

The Nationalist Ju 52's had operated throughout the Spanish Civil War and their activities could be considered a decisive factor in Franco's ultimate success. In 13,000 hours of operations, they had flown 5,400 offensive missions and dropped over 6,000 tons of bombs. Eight aircraft were lost: through must be successed by the success of the success o

Banak, Norvay, during 1940. During the invasion of Norvay this unit was equipped with a mixture of Heinkel He 59 and Ja 52/3m floatplanes, and landed German Gebirgsjäger (alpine) troops from several Norvegian fjords. (Photo: Hans Obert)





A Ju 52/3mg7e of 6 Staffel, Transportgeschwader 4 in flight. (Photo: Imp. War Mus. 1/8492)

destroyed on the ground and five in the air. In April 1939, the twenty-five Ju 52's remaining were mustered at Leon, all Nationalist except for two Condor Legion machines used as transports.

The Ju 52/3mrde was superseded by the ode in

Inte Ju 32/3mg6* was a specialised military transport with improved radio equipment. The machine properties of the properties of the properties of the could be fitted with a lung clural hoop, which, when energized by a small auxiliary motor, was used for exploding magnetic mines. (Other German aircraft fitted with this degaussing structure included the Bu 138, the Ha 139 V3, and the Do 23 and all were used operationally by the Minesuckeyappe, which based on various parts of the French coast, remained The main routed on various parts of the French coast, remained

The man production version was the Ju 32 single, a pure transport aircraft capable of carrying IB troops or 12 stretchers. It was a development of the gist fitted with an automatic pilot, larger cabin doors and other general improvements. Armaneut was standardorsal position and two 79 mm. MG 15 machine guns firing through the side windows.

The Ju 523 pumber was a development of the gist.

The Ju 52/5mg6e was a development of the goe The Ju 52/5mg was used in all the phases of German nichorne assands; as a paratroop aircraft, a glider-tag, and a from-line transport to fly in support equipment once the Drop Zone was in German hands. Here Luftwaffe paratroopers are seen unloading what appear to be consisters of mortar ammunition from a





In its classic rôle—a Ju 52/3m flies straight and level at low altitude while a stick of Fallschirmjäger tumble from the door.

Norway and Denmark was initiated in the early hours of 9th April 1940 No less than 571 Ju 52/3m's from twelve transport Gruppen were operational for the assault, and each was allocated a particular task L/KGzbV 1 transported III Infanterie Regiment 159 from Utersen to Aalborg. The fifth and sixth Staffeln of KGzbV 1 (in the event the latter unit only managed to scramble eight aircraft from its base at Holtenau) dropped 1./Fallschirm Jäger Regiment 1 at Fornebu later returning with

fitted with more extensive glazing and unsnatted wheels. Initially powered by the BMW 132T. later aircraft were fitted with the 132Z; W.Nr.7730 and subsequent machines featured an MG 131 machinegun in the dorsal position. The g9e went into production in 1942 and was generally similar to the e8e: however, provision was made for glider-towing and the undercarriage was strengthened to permit a take-off weight of 25.350 lbs. The Ju 52/3mg10e was generally similar but could be operated on floats, while the g/2e was a troop transport powered by three BMW 132L. A small number of these latter were supplied to Lufthansa under the designation Ju 52/3m-12 during 1942-3. The last production version of the type was the BMW 132Z-powered Ju 52/3mg14e delivered in 1943 and 1944: it featured improved armour protection for the pilot and strengthened defensive armament. The g4e, g5e, g8e, g10e and alde could all be fitted with floats. German production of the machine continued until 1944, 2.804 of the 3,234 built being manufactured between 1939 and 1944. Detailed production figures were 145. in 1939, 388 in 1940, 502 in 1941, 503 in 1942, 887 in 1943 and 379 in 1944.

During the Austrian Anschlüss of March 1938, the Ju 52/3m took a prominent part in the Luftwaffe's show of strength. When Germany entered Poland in September 1993, it possessed a large number of Ju 52/3m's based mainly at Berlin-Templehof and in Silesia. Many aircraft were commandeered from Lufthansa, although the airline retained several moschines util at least 1944. The Junkers transports.

were used in the Polish campaign for general supply work, but their first really famous operation came

in April 1940.

Code named "Unternehmen
Weserubung", the invasion of

Despite its altimate success, the airborne avasual to Certe was something of a Pyhrir (victory; cassulties in men and aircraft were appallingly high, even though the British defenders of the island were weak in numbers and customent. In this dramatic photograph, at 1st 25/3m phanges to flames over 4 at 1st 25/3m phanges to flames over the control of the control of

fuel at Aalborg; 7./KGzbV 1 dropped 3./FJR 1 over Stavanger at 08.45 hours and 8./KGzbV 1 dropped 4./FJR 1 over Aalborg—dropping the remainder of the Komannie at Vordinsborg to ensure

German command of the famous bridge

The third and fourth Grapper of KGzbV 1 transported about 37,500 Imp. gais, of aviation fuel from Hagenow to Aalborg. KGrzbV 101's fifty-three aircraft were used to transport anti-aircraft guns and ammunition to Aalborg West and aviation fuel to Savanger-Sola. It was also used to transport that 11th Kompunic of 1R 324 to Fornebu, and during KGrzbV 102 transferred LIR 324 and some and aircraft capipment from Oldenburg to Fornebu, but lots several aircraft.

The 53 aircraft of KGrzbV 103 under Hytm. Wagner transported IL/IR 234 of Fornebu. The unit wagner transported IL/IR 234 of Fornebu. The unit was support from parachuse troops did not materialise owing to the bad weather. KGrzbV 104 transferred the Saba and L. IR. 193 and anti-aircraft equipment the Saba and L. IR. 193 and anti-aircraft equipment for KGrzbV 105 were used for recommissance sorties over Tronsheim, Oslo-Kjeller and Kristiansand, and ment at Tronsheim. The remaining eleven aircraft equipment for from the unit flew fuel and anti-aircraft equipment for from the unit flew fuel and anti-aircraft equipment for some control of the contr

KGrzbV 106's 51 aircraft transferred II./IR 193 from Utersen to Stavanger, but lost two aircraft.







K GrzbV 107 was a little luckier however. It was used to transfer Stab/IR 324 and L/IR 234 from Hamburg-Fuhlsbüttel to Stavanger and III./IR 324 (minus 11 Kompanie) to Fornebu. KGrzbV 108, with a mixture of He 59 and Ju 52/3m floatplanes, was used to land alpine troops in several Norwegian fjords where it would have proved impossible for landplanes to operated.

During the Norwegian campaign, 3.018 sorties were undertaken, 1,830 with troops and 1.188 with supplies of various kinds. A total of 29,280 men. 2,376 tons of supplies and 259,300 Imp. gals of aviation fuel were landed by the In 52/3m's taking part in the operation. Losses amounted to 150 aircraft.

GLIDERS IN THE WEST

Early in 1939, Hanna Reitsch, the famous woman test pilot then serving with the Deutsche Forschungsanstadt für Segelflug, tested an experimental troop carrying glider, the DFS 230. Designed by Hans Jakob the machine was towed behind the Ju 52/3m and heralded a new concept in aerial warfare. It could carry a crew of two plus eight fully-equipped troops and was capable of steep dives. Hanna Reitsch demonstrated the machine before Ritter von Greim, Kesselring, Model, Milch and Udet, and the aircraft so impressed the officers that they asked for a trip in it themselves, which was duly given them !

When Germany launched its invasion of France and the Low Countries on 10th May 1940, the gliderhorne troops were used for the first time to capture the important fort of Eben Emael which dominated the Albert Canal. The capture of the fort and the Albert Canal itself was entrusted to Sturm Abteilung Koch under Hptm. Koch. This was to comprise 1./FJR 1, the sapper parachute detachment from VII Fliegerkorps, a Schlepp Gruppe with its attached glider detachment and various ground support units. The glider pilots, who were all amateurs, trained under conditions of extreme secrecy at Hildesheim. Their gliders were then disassembled and transported to Cologne in furniture vans to make ready for the assault.

Nine gliders took off from Köln-Butzweilerhof and Köln-Ostheim at 04.30 hours but only seven (carrying 55 troops) actually arrived. A small dive bomber attack was made on the village of Eben Emeal while 1./FJR 1 captured three bridges. The sapper detachment (all volunteers) actually attacked the nine defended fortifications using 12.5 and 50 kg. charges. One of the minor ironies of the desert war was the fact that

(felow) an astonishingly similar photograph shows South African troops emplaning for the "Cape to Cairo" journey. (Photo below: A. Blake)



By 07,00 hours on 11th May, the fort had surrendered for the loss of only five of the attacking troops,

Approximately five hundred Ju 52/3m transports were made ready for the assault on France and the Low Countries, a large proportion being used against Holland. Paratroops were dropped on four major locations; north and south of the Moerdijk bridges. near Dordrecht, around Rotterdam/Waalhaven airfield and around The Hague, the latter with the intention of capturing the Dutch Royal Family. I, II and III./KGzbV 1 dropped a battalion of troops to the East of Waalhaven an hour after a bombing attack by KG 4 and L/KG 30. The Dutch troops put up a determined defence, but the airfield was soon







For a while the Ju 52's kept a tensions life-line open to the belangiared VI Armice in Stallingrad, but despite the most impressive feats of skill and conveye by no less than 17 transport Gruppen, the pocket was Thanks scaled off and annihilated. The nonv-camouflaged aircraft illustrated here appears to carry the insigning of Bindhugschule 2 on the nose—many second-line units were pressed into service during the desperate attempts to supply the Stallingrad garrison.

captured, the three *Gruppen* of KGzbV 1 losing forty-one aircraft.

During the day, 250 Ju 52/3m's landed at Waalhaven, although heavy fire prevented the use of Ypenburg. Many transports landed on the main Rotterdam/The Hague highway near Delft. He 59's and Ju 52/3m floatplanes of KGrzbV 108 landed 150 troops on the Maas at 05.00 hours and succeeded in capturing the bridges, the Moerdijk bridges also falling to a battalion of German paratroops after heavy fighting. IV./KGzbV 1 and KGrzbV 12 were given the task of dropping paratroops on The Hague, but it was here that the Luftwaffe suffered its severest losses. IV./KGzbV 1 lost 18 aircraft, but KGrzbV 12 lost no less than 40 and was almost immediately disbanded. KGrzbV 9 lost 39 aircraft and the other transport Gruppe used in the invasion of Holland, KGrzbV 11, lost 11.

After the initial assault, transport operations in force began to tail off, although the Ju 52/30 was still most active in supplying the advanced units of the Weimmeld. No less than 16 Ta 52/30 we were lost assault, and Light-angle transport units were held in seasult, all Light-angle transport units were held in readiness for the proposed "Operation Sea Lion", the invasion of the British Isles. But in that fateful summer of 1940 the "Fee" successfully repulsed the angle and finally cancelled of the invasion of the angle of the season as posponed, and finally cancelled the threaston was posponed.

THE BALKANS, RUSSIA AND AFRICA

The transport units of the Luftwaffe were instruental in the quick transfer of German units to the Balkans for the onslaught on Yugoslavia and Greece. On 6th April the Sukawerbidae launched a continuous attack on Belgrade and eleven days later the country capitulated. Twenty-two days after the invasion began. Greece was evacuated, and only Crete stood in the way of German domination of the

At 07.00 hours on 20th May 1941, the Luftwaffe launched its greatest airborne assault of the war, "Operation Mercury"; the landing of 22,750 men on Crete. 493 Ju 52/3m's and about 80 DFS 230's from KGzbV 1, the specially formed KGrzbV 40 and 60,



On a snow-covered Russion airstrip, the crew of a Junkers watch while a light anti-tank gun is prepared for loading aboard. (Photo: Archiva Reyes)

KGrzbV 101, 102, 105, 106, KGzbV 172 and Luftlandgeschwader I were readied for the assault. The attack, under General-Oberst Student's XI Fliegerkorps, was planned in two waves, one directed against Maleme, the other on Canea, 750 troops were to be landed by glider, 10,000 by parachute, 5,000 in Ju 52/3m's and 7,000 by sea. The attack did not go at all according to plan and troops from the 2nd New Zealand and 6th Australian Divisions put up a defiant resistance. Had the Luftwaffe not possessed complete air superiority, the invasion might easily have failed. As it was, about 4,500 German troops were killed and 170 transport aircraft destroyed or seriously damaged. Although a brilliant success, the costly invasion of Crete sounded the death knell of Luftwaffe parachute operations. When Germany invaded Russia on 22nd June 1941,

IV. KGrzW 1, KGrzW 50, 102, 104, 106 and 105la with a 12-32-in were operational on the Eastern all with a 12-32-in were operational on the Eastern that most supplies had to be flown in by the Luftmedia that most supplies had to be flown in by the Luftmedia the most flamous operation by the Luftmedia removes. Perhaps the most flamous operation by the Luftmedia removes the energied 6-4 mes at Stallingard. Taking part in the operation were the Ju 52/Jim' of KGzbW 1, KGrzW 100 and 500; the V 200's of KGzbW 20, the 146 111's of KGrzW 3, 20 and 22 and the Ju 85's of KGrzW 21 and 22.

Asso ortogati into the objection where for her 17 is of KG 27, KG 55 and 1, KG 100 and even the of KG 27, KG 55 and 1, KG 100 and even the of KG 27, KG 55 and 1, KG 100 and even the objection of the objection o







seen (left) as a fuel transport in the Mediterranean; (below) as an ambulance in Poland; and (right) as a front line casualty evacuation aircraft in Russia. (Photos: via R. Ward, R. C. Seeley and Hans Obert!



to keep the Stalingrad garrison up to strength; and the horrors of the final fall of the city haunted German military minds until the end of the war. Luftwaffe transport units had always been most

Luftwaffe transport units had always been most active in the North African campaign, but in November 1942 no less than ten extra Gruppen were brought in to join the five units already stationed in the area. The five original units (III and IV./KGzbV I, KGrzbV 400, 600 and 800) were joined by I and II./KGzbV I, KGrzbV 102, 200, "Brindisi", "Frank-tur", "Naples", Reggio" and "Wittstock" plus the

Me 323 Gruppe. As the Allied blockade of Axis shipping in the Mediterranean grew in intensity, the Luftwaffe was increasingly called upon to bring supplies to the hard pressed Afrika Korps. During one notable action towards the end of the

campaign, on 10th/11th April 1943; 24 Ju 52/3m's and 14 escorts were shot down by Allied fighten on 18th April, 52 out of about 100 Ju 52/3m's were shot down near Cape Bon, many of the aircraft blowing up in spectacular fashion. On 22nd April the Luftwaffe attempted to bring in fuel by using the giant Me 323 transport. Twenty-

one (all from the Me 323 Gruppe) were destroyed — virtually the total force employed. 432 transport aircraft were destroyed

Taken under the most exacting conditions, this photograph more than makes up in interest what it lacks in clarity is it sperhags one of the most remarkable it sperhags one of the most remarkable to the property of the second of the control of the second of the second of the World War. During the last stages of the Tamisian companies, the Lutter to transport fleet was called upon to evon and Scilly with totally insulequant fighter cover; and Allied aircraft to this photograph treet Jahren may be the photograph treet Jahren may ander heavy attack by a formation of

A.A.F. B-25 Mitchells (Photo: Imp. War Mus. NY8092)





SE-AFA "Svealand," one of seven Ju 52/3m's purchased by Sweden's A. B. Aerotransport, in orange wartime finish.

between 5th and 22nd April for the loss of 35 Allied

In May 1943 the Luftwaffe's Transportverband was re-organised. The Kampf Gruppen zur besonderen Verwendung (Bomber Groups on special employment) were re-named as Transport Gruppen (see Table Two). Each Gruppe still contained four Staffeln, and the Geschwader often comprised sixteen Staffeln. From the summer of 1943, Luftwaffe transport operations with the Ju 52/3m gradually declined and an abortive attempt was made to replace it on the production lines with the Ju 352. But "Iron Annie" remained as ubiquitous as ever on Luftwaffe airfields. In May 1944 two emergency transport units, Luft Vekehr Gesellschaft Bronkow and Mobil under Maj. Grauert were formed from the remnants of several defunct Gruppen. Both operated on the invasion front bringing urgently needed supplies to the defending troops, but by September they had been decimated. By 25th April 1945, only seven Ju 52/3m units were operational: I and II./TG 1, II./TG 2, II and III./TG 3 and See Transport Staffel 2. III./TG 2 was also listed as operational, but had no aircraft. IL/TG 1 and See Trans.Sta.2 were both equipped with the Ju 52/3m floatplane The end of the war was not the end of the Ju 52/3m

The end of the war was not the end of the Ju 52/5m however. The type was built by the Societé Amior in France as the A.A.C.1 "Toucan" and used both by *LArmée de PAir* and Air France. One hundred aircraft were built in Spain by *Construcciones Aero-

municas S.A. as the C-352-L powered by Elizaldebuilt B.M.W. 132 radials. These were used by the Spanish Air Force, Penhaps the most interesting were the ten captured Ju 52/3mg8e's rebuilt by Short Brothers at Belfast for use by B.E.A. Put into service in November 1946 on the Scottish services, the aircraft were replaced by Dakotas late in 1947.

TABLE production	ONE batch (W.Nrs.4001 to 4080)	
stotype Ju 52, 52 d series, va	single engine. rious engines.	

unnited to Prince Ribesco of Roumania, later YR, ARF

4004	D-2317	First Ju 52 c series, became SE-ADM.
4005	D-2356	Delivered to Reichsverband der Deutschen Luft
		fahrt-Industrie,
4006	CF-ARM	To Canadian Airways.
4008		To Lloyd Aereo Boliviano as "Juan del Valle".
4009		To Lloyd Aereo Boliviano as "Huanuni".
4013	D-2201	D.L.H. "Boelcke", later registered D-ADOM.
4014	OH-ALK	Aero O.Y. "Sampo", later registered OH-LAK.

4018 D-2468 DL.H. later D.AFTS "Gustav Doerr", duty D-2460 DL.H. later D.AFTS "Gustav Doerr", hicker b.AFTS "Gustav Doerr", bl.H. later D.AFTS "Gustav Doerr", bl.H. personal aircraft "Immelmann", later D.AHUT.

4022 D-2527 DL.H. "Manfred von Richtofen", later D-AGUK

D.L.H. "Rudolf Berthold", Jacer D-AJAN.
D.L.H., Jacer D-AZEV.
D.L.H. "Hermann Göring", Jacer D-AJUX "Ulrich
Neckel".

An unusual vinter commuligae finish displayed by a wrecked Junders, thought to be an aircraft of 8 Staffel, TG. 3. The pranductival appearance of American troops examining an aircraft in Russian Front mankings (note vigiles area under the wing tip) may indicate that the photograph was taken in the last weeks of the war when the Lultwaffe was fighting on two swiftly-closing fronts and had no intent to observe the finer points of livery.

(Photor, K. C. Secley Collection)



'Fritz Rümey'', later D-AKEP. 'Paul Bäumer'', later D-AKOK D.L.H. "Heinrich Gostermann", later D-ALAS. D.L.H. "Kurt Wingens", later D-ALUN. D.L.H. "Kurt Wüsthoff", later D-AMAM. Syndicate Confer." D-3051 PP-CAV D-3123 D-3127 Syndicato Condor "Caicara".

D.L.H. "Ostor Parschav", later D-ANAL.

D.L.H. "Otto Parschav", later D-APAR.

D.L.H. "Whenner Voss", later D-AFAR.

D.L.H. "Paul Billik", later D-ASEN, finally to Syndicato Condor as PP-CAY "Marinma". D-ABIS L.H., later to Syndicato Condor as PP-CAX

'Gurupira''. D.L.H. "Emil Thüy" "Emil Thuy .
"Emil Schaefer" J.L.H. "Emil Schaefer". J.L.H. "Kari Allmenröder", later to Deruluft as "Flamingo". J.L.H. "Franz Büchner", later re-registered D-AFES. J.L.H. "Wilhelm Schmidt" and "Max von Müller",

D.L.H. "Heinrich Kroll", to Deruluft as "Milan". D.L.H. "Hermann Göring". D.L.H. "Hans Berr", to Deruluft as "Kondor". D.L.H. "Immelman", later D.AHIT "H. J. D-ATON D.L.H. "Erwin Böhme"

J.L.H. "W. Honndort". "Lord Charles Somerset", S.A.A. "Jan van Riebeek", S.A.A., later to Varig as ZS-AFD "Sir Benjamin d'Urban", to D.L.H. as D-ACBO "You Neibrandt",
"Simon van der Stel", S.A.A., to D.L.H. as "Otto
Parshau" D-AGFD, finally to Iberia as EC-AAI ZS-AFC

Lloyd Aereo Boliviano, "Bolivar". L-REZI

4043

4044 D-ARAN

4049 D-AHUS

4053

4059

4060

D-ASIS D-APEF

D-ABIZ D.L.H. "Erich Albrecht". D.L.H. "Manfred von Richtofen". Quivir". D.L.H. "Wilhelm Cuno"

D.L.H. "Manfred von Ri D.L.H. "Adolf Schirmer D.L.H. "Erich Pust". D.L.H. "Fritz Erb". D.L.H. "Fritz Erb". D.L.H. "Bruno Rodschinka", to Iberia as "Guadal

D.L.H. "Karl Kassel", to Syndicato Condor as PP-CBG "Page" Iberia. D.L.H. "Franz Simon", to D.N.L. as LN-DAE "Havorn", Syndicato Condor "Tupan", D.L.H. "Olaf Bieberstein", Jazer PP-CBF "Arocy",

D.L.H. "Wedige von Froreich TABLE TWO Luftwaffe Transport Units equipped with the Ju 52/3m.

s equipped with the Ju \$2/3m.
Notes
Became Stab/TG 1 in May 1943.
Became II, TG 1 in May 1943.
Became III, TG 1 in May 1943.
Became III, TG 1 in May 1943.
Became III, TG 1 in May 1943.
Became IV, TG 1 in May 1943.
Became IV, TG 2 in May 1943.
Formed the Stabstafiel of TG 4 in May 1943. Stab/KGzbV 1 IV./KGzbV 1 KGrzbV 2 Formed the statusarus — May 1943, Became TGr 30 in May 1943, Disbanded March 1942.

Became I./TG 3 in May 1943. Formed for the invasion of Holland, disbanded immediately afterwards. The Amiot-built A.A.C.I "Toucan" was used as both a transport and a bomber by the French Air Force during its operations

against the Viet-Minh in Indo-China during the early post-war years. This aircraft served in both rôles with G.T. "Maine". based at Bach-Mai (Hanoi) airfield in 1949. (Photo via Jean Cuny)



A damaged Ju 52/3m in Prague, 1945; and (below) a machin service the Ju 52/3m was designated D-52. (Photos: Jaroslav Zazvonil and Zdenek Titz)



KGrzbV 40 Formed for the invasion of Crete. disbanded immediately afterwards. Became II./TG 3 in May 1943. Formed for the invasion of Crete, Recame III /TG 3 in May 1943 became itl. IG 3 in May 1943. Took part in the invasion of Norway, disbanded on 5th May 1940. Became II. TG 5 in May 1943. Became IV. TG 4, May 1943. Became III. TG 2 in May 1943. KGrzbV 104

1940, remains KGrzbV 108 Became TGr 20 in May 1943. Became IV./TG 3 in May 1943 I./KGzbV 172 II./KGzbV 172 KGrzbV 200 KGrzbV 300 Became Blindflugschule 6 at Crete.

KGrzbV 406 KGrzbV 800 came II./TG 2 in May 1943. KGrzbV 900

K Greb V 999 A "Toucan" of the French Aéronavale in flight. In this photo graph the loading doors on the starboard side may be seen to

(Photo: F.C.A. via Jean Cunv)











The Spanish Air Force of of the "Iron Annie" first used in the late 1930's, the type of the "Iron Anne; pris used in the tale 1500 s, toe type soldiers on today as the C.A.S.A.-352, in both transport and experience veryings. (Photos: Archivo Reves)

KGrzbV S-7	Disbanded in January 1943, remainder to KGrzbV 400. The "S" in the designation refers to "Sid" or
KGrzbV S-11	South-i.e. the North African front. Disbanded December 1942.
KGrzbV S-13 KGrzbV Brindisi	Disbanded December 1942.
KGrzbV Frankfurt	Disbanded in February 1943 in North

Disbanded in April 194 Disbanded in April 1942 Dishanded February 1943

Geschwader and Gruppen (all formed in May 1943) Formed from KGrzbV 2. Formed from KGrzbV 800. Formed from KGrzbV 104. Formed from KGrzbY 102.
Formed from L/KGzbY 172.
Formed from KGrzbY 3.
Formed from KGrzbY 500,
Formed from KGrzbY 600. III./TG Stab/TG '/TG Formed from the Me 323 Gruppe. To have been formed from KGrzbV (Equipped only with the Savoia Marchetti SM.81). Formed from KGrzbV 108. TGr 20 LVG Bronkow Special emergency transport units

In addition many other units, training schools, Luftflotten, Luftgoukem-mando, Karrierstoffeln etc. were equipped with the Ju 52/3m, It is beyond the stope of this Prefit to attempt to list all of these units D. J. Richard Smith, 1967

SPECIFICATION

Dimensions: Span 95 ft. 12 ins. Length 60 ft. 82 ins. Wing area 1.248 sq. fr. Powerbient: One 755 h.p. B.M.W. Villay twelve cylinder liquid

Weights: Empty 8,576 lbs. Loaded 15,432 lbs. Performance: Maximum speed 118 m.p.h. Cruising speed 99 m.p.h. Landing speed 48 m.p.h. Service ceiling 9,186 ft. Normal range 912 miles.

Junkers Ju 52/3mg7e

Junkers Ju 526e

Dimensions: Span 95 ft. 10 ins. Length 62 ft. 0 ins. (63 ft. 72 ins. for the floatplane). Height 14 ft. 10 ins. Wing area 1.190 sp. ft. Preservicers: Three 830 h o. 8 M W. 1377 nine calindar air contail.

Armoment: One 13 mm. MG 131 machine gun in an open dorsal position and two 7.9 mm. MG 15 machine gunt firing through the Weights: Empty 14,325 lbs. Loaded 24,320 lbs.

Performance: Maximum speed 189 m.p.h. Cruising speed 160 m.p.h. Landing speed 60 m.p.h. Service ceiling 18,000 ft. Normal range 930 miles at 8,200 ft. Climb to 9,840 ft. was 19 minutes.

One of the most interesting versions of the series was the Ju 52/3mg6e, which could be fitted with a dural ring for mine-sweeping duties. Based on the French coast, the Minensuchgruppe remained operational until late 1944. (Photo: R. C. Seeley Collections)



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