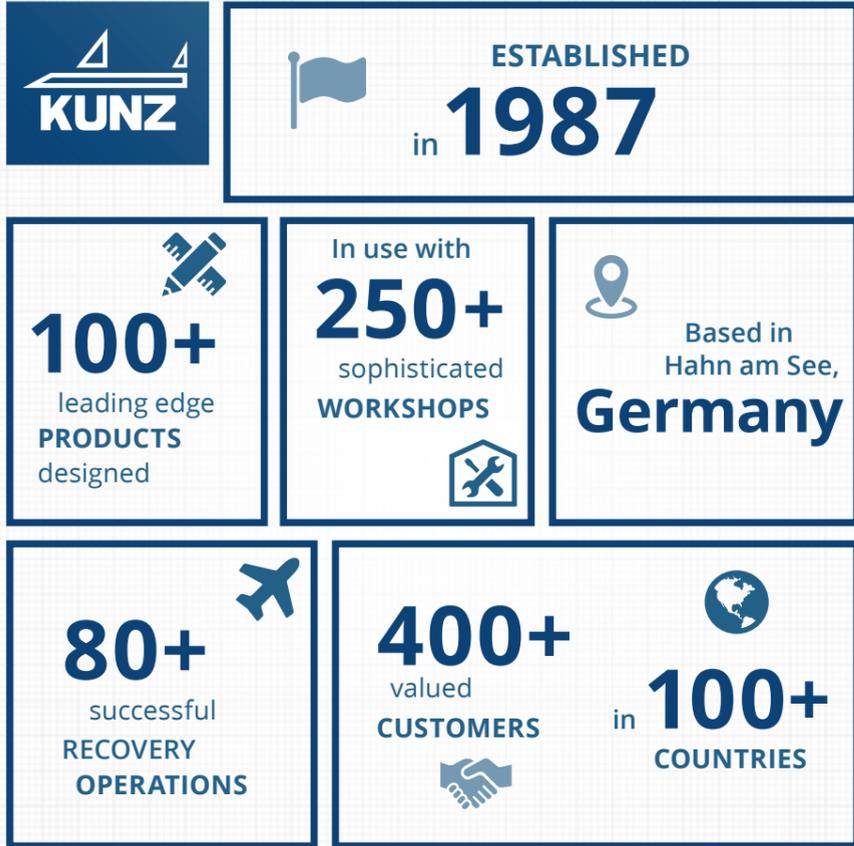




**KUNZ** GmbH aircraft equipment



## KUNZ GMBH AIRCRAFT EQUIPMENT

A family owned business since its establishment in 1987, KUNZ is the leading supplier of aircraft recovery equipment and aircraft wheel and brake servicing equipment.

KUNZ sets standards with leading edge technology for aircraft wheel and brake service and overhaul. KUNZ Aircraft Wheel and Brake Shop Equipment is in use with all major airlines and MRO's.

KUNZ is committed to technical excellence and continuous progress and development in order to reduce operational costs in component service and overhaul and to manufacture durable, solid and user efficient equipment.

KUNZ has the expertise to plan, design and deliver complete production lines for Wheel and Brake service and overhaul, based on a lean work flow concept.

The use of KUNZ Aircraft Recovery Equipment has proven many times to reduce the downtime of an entire airport or parts thereof in case of incidents and it also diminishes the risk of secondary damage to recoverable aircraft to a minimum. KUNZ offers the widest range of aircraft recovery equipment, carefully designed and engineered to meet airport and aircraft operator's requirements.

KUNZ Aircraft Recovery School's main focus is providing customers with a advanced training in Aircraft Recovery. Due to close cooperation with KUNZ GmbH, we are able to cover all conceivable recovery scenarios by means of KUNZ leading edge equipment.

# WHEELS

## KUNZ AIRCRAFT WHEEL SHOP EQUIPMENT

KUNZ provides a wide range of equipment for aircraft wheel maintenance. Our equipment is suitable for wheels and tires from all OEM brands.

## Why KUNZ?

**70+** wheel PRODUCTS   
up to **50 %**  
HIGHER THROUGHPUT  
**+100%**  
RELIABLE



|1|



|2|



more about our products,  
further information  
and videos on:

 [www.KUNZ.aero](http://www.KUNZ.aero)

## EQUIPMENT FOR TIRE BEAD BREAKING

- |1| KUNZ UBB® Universal BeadBreaker
- |2| KUNZ SBB BeadBreaker for smaller aircraft tires
- |3| KUNZ DUBB® Dynamic Universal BeadBreaker

**EQUIPMENT FOR WHEEL TORQUING / NUT LOOSENING**

- |1| KUNZ UTS NGtronic® Universal Torquing System Next Generation |2| KUNZ UTT Universal Torque Tool  
|3| KUNZ UTT-L Loosening Tool |4| KUNZ ULT Universal Loosening Tool



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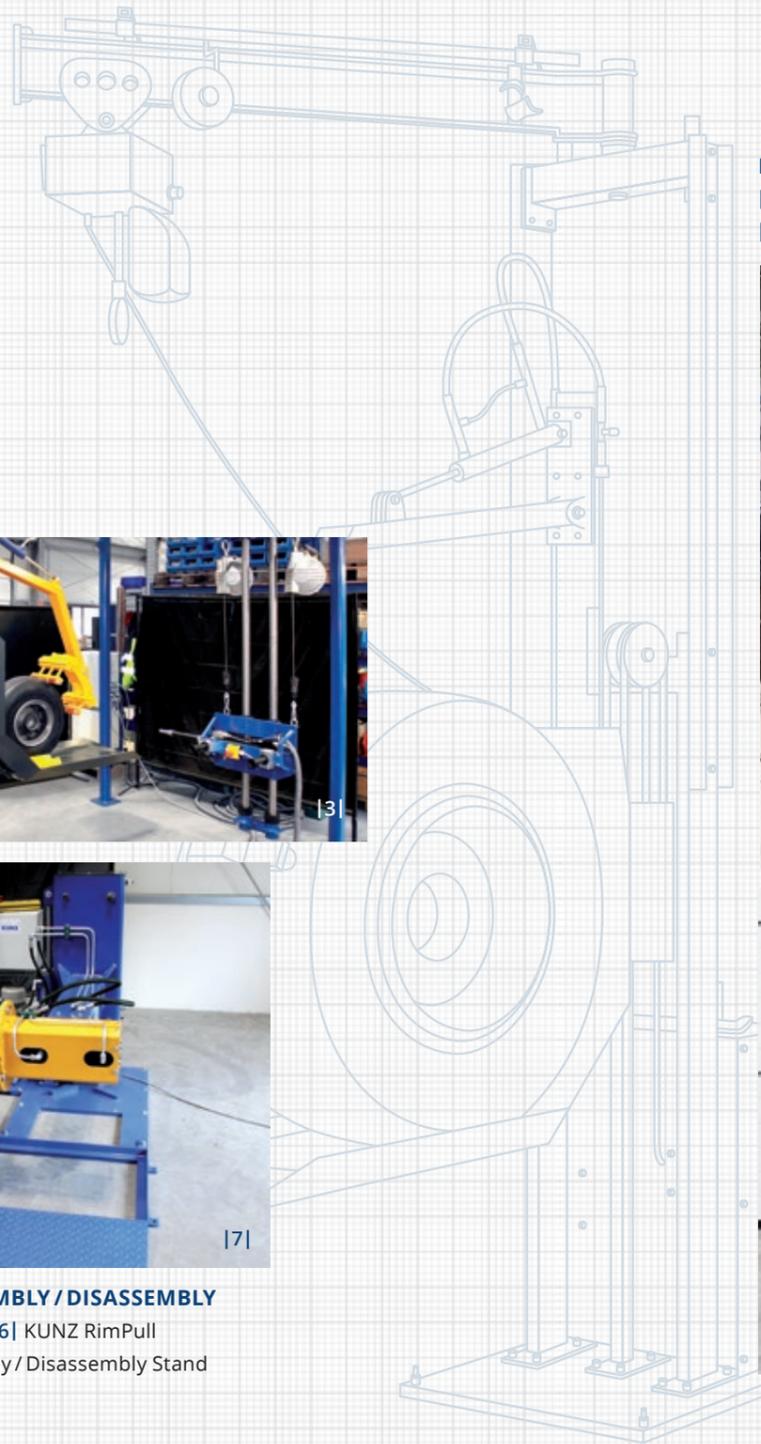
|6|



|7|

**EQUIPMENT FOR WHEEL ASSEMBLY / DISASSEMBLY**

- |5| KUNZ Wheel Adapter Rings |6| KUNZ RimPull  
|7| KUNZ UAS Universal Assembly/Disassembly Stand



**EQUIPMENT FOR WHEEL / RIM HANDLING**

- |1| KUNZ WheelLift |2| KUNZ Wheel Inspection Stand |3| KUNZ LogMove®  
|4| KUNZ RLT Rim Lifting Tool |5| KUNZ RTR Rim Tilting Robot



|1|



|2|

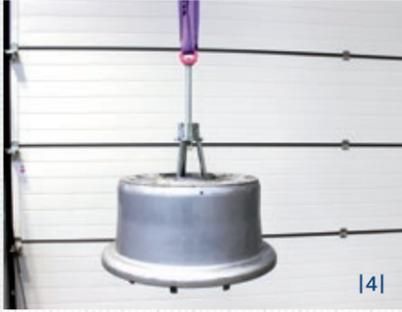


|3|



|5|

more about our products,  
further information and videos on:  
[www.KUNZ.aero](http://www.KUNZ.aero)



|4|

**EQUIPMENT FOR WHEEL ASSEMBLY TESTING**

- |6| KUNZ TTS Tire Test System



|6|

# BRAKES

## KUNZ AIRCRAFT BRAKE SHOP EQUIPMENT

KUNZ provides a wide range of equipment for aircraft brake maintenance. Our equipment is suitable for brakes from all OEM brands.

### Why KUNZ?

**35+** brake PRODUCTS 

**30%** faster brake MAINTENANCE

**100%** SAFE brake TESTING



|11|



|12|

## EQUIPMENT FOR BRAKE ASSEMBLY / DISASSEMBLY

- |1| KUNZ UTT Universal Torque Tool
- |2| KUNZ BDU Brake Drain Unit
- |3| KUNZ BBS Brake Build-Up Stand



|13|



|15|



|17|



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## EQUIPMENT FOR BRAKE HYDRAULIC TESTING

- |5| KUNZ BTS NGtronic® C Brake Test Stand
- |6| KUNZ BTS NEOtronic® Brake Test Stand
- |7| KUNZ BTS NGtronic® T Brake Test Stand
- |8| KUNZ BTS NG Trolley

more about our products,  
further information and videos on:  
 [www.KUNZ.aero](http://www.KUNZ.aero)

# ENGINEERING

## LEAN WORKFLOW AND TURN-KEY SOLUTIONS FOR WHEEL & BRAKE SHOPS

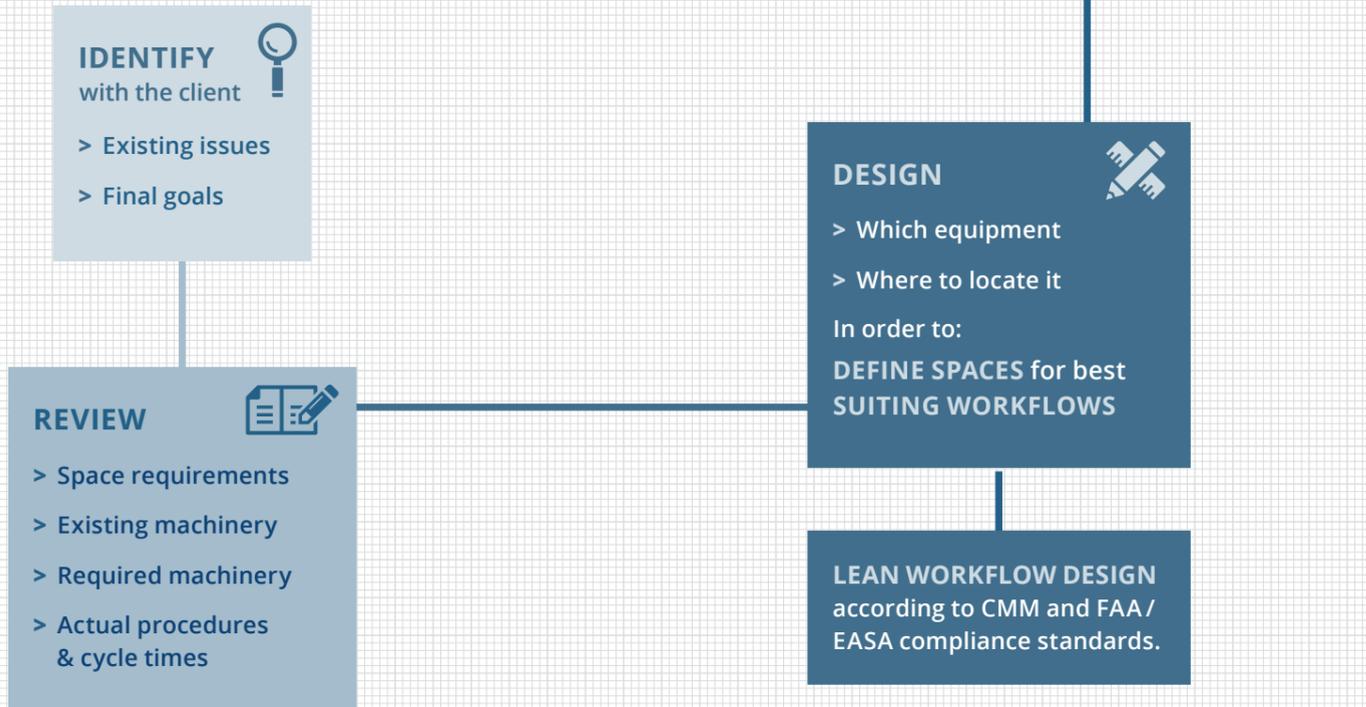
Benefit from our experience. We can help you achieve a higher level of efficiency with a new design/redesign of workflow and workshop according to lean principles.

### why KUNZ?

#### KUNZ IS A ONE-STOP SOLUTION

- World-market leader for Wheel & Brake Shop equipment
- Massive customer base (over 250) including OEMs and aircraft manufacturers
- Unique experience in delivering turnkey solutions for Wheel & Brake Shop all over the World for legacy carriers as well as third party MROs
- In-house workshop design capabilities
- Largest own product line for Wheel & Brake Shop equipment in the market
- Known for durable quality
- Huge network of renown suppliers to complement our existing range of equipment

## KUNZ scope of Services



Wheel & Brake Shop example 1

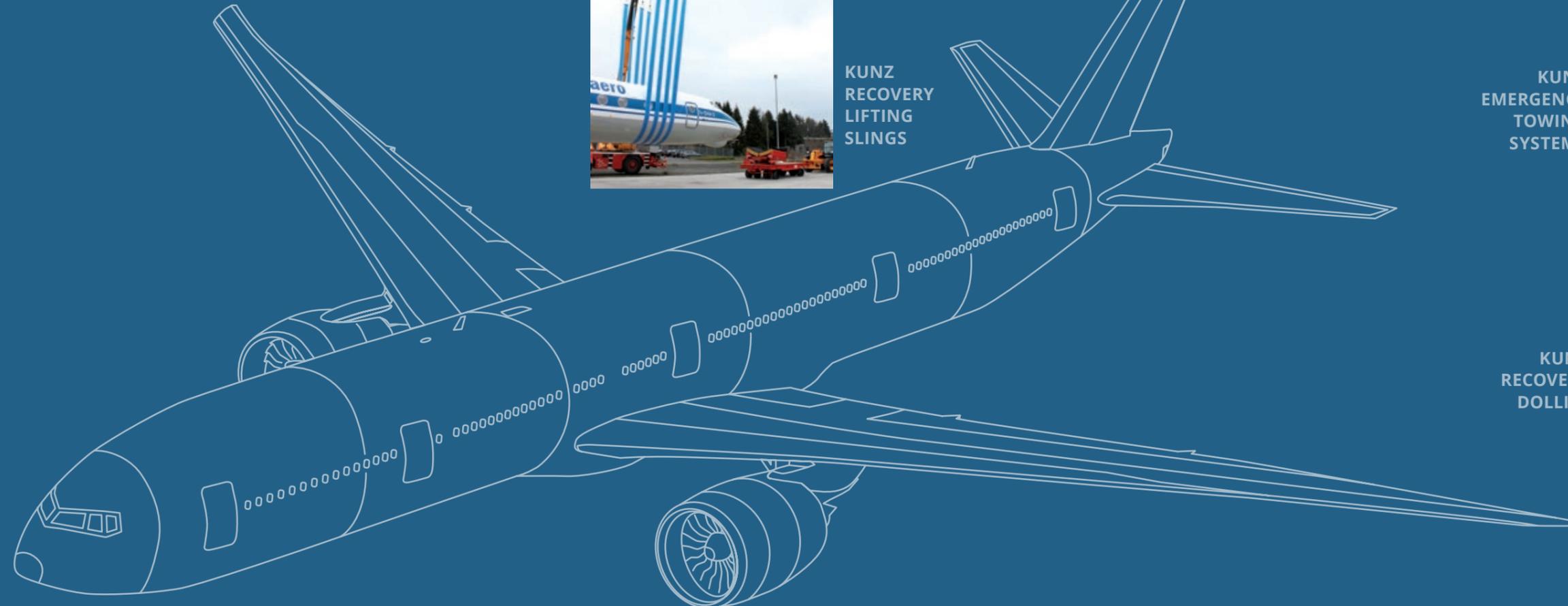


Wheel & Brake Shop example 2

# AIRCRAFT RECOVERY

## KUNZ AIRCRAFT RECOVERY EQUIPMENT

KUNZ provides a wide range of aircraft recovery equipment, such as Recovery Lifting Slings and Recovery Lifting Bags for aircraft lifting, Recovery Trailer and Recovery Dollies for aircraft movement in "damaged wheel" or "collapsed landing gear" scenarios, as well as De-Bogging Kits and Soft Ground Reinforcement Mats. The design of KUNZ aircraft recovery equipment meets international standards and recommendations.



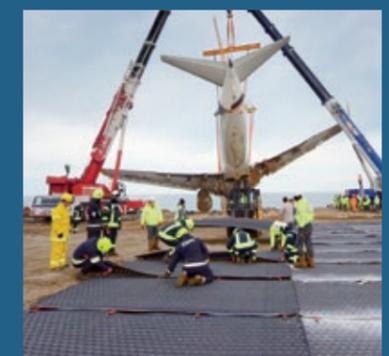
KUNZ RECOVERY LIFTING SLINGS



KUNZ EMERGENCY TOWING SYSTEMS



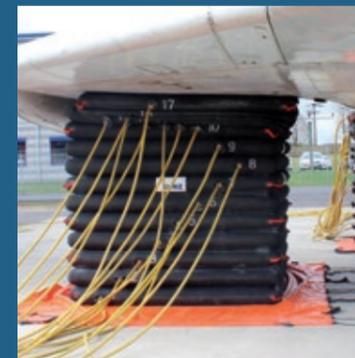
KUNZ RECOVERY DOLLIES



KUNZ SOFT GROUND REINFORCEMENT MATS



KUNZ TETHERING EQUIPMENT



KUNZ RECOVERY LIFTING BAGS



KUNZ RECOVERY TRAILERS

# AIRCRAFT RECOVERY TRAINING

|1|



## KUNZ AIRCRAFT RECOVERY SCHOOL GMBH

Founded in 2016 and based on 30 years of experience, KUNZ Aircraft Recovery School's main focus is providing customers with a well-funded training in Aircraft Recovery.

The Recovery School is situated in Hahn am See, Germany, close to KUNZ GmbH's headquarters and 35 minutes driving distance from Frankfurt Airport.

KUNZ Aircraft Recovery School's trainings are performed by recovery trainers with many years of experience, who will convey both theoretical and practical knowledge. Our customers will receive an official certificate after the training.

## THEORETICAL TRAINING

In theoretical training, customers are introduced to the recovery scenario. Experienced aircraft recovery trainers will provide them with the crucial knowledge required for a successful recovery.

## PRACTICAL TRAINING

In practical training, the customer learns the right way to solve recovery situations using KUNZ leading edge aircraft recovery equipment on a TU-134A, with a functional undercarriage.

## TRAINING AT CUSTOMER'S SITE

KUNZ also offers training with supervisor on site according to your requirements.



|2|

- |1| FULL LIFTING WITH LIFTING BAGS
- |2| TETHERING
- |3| DEBOGGING
- |4| FLAT TIRE SCENARIO
- |5| GROUND REINFORCEMENT
- |6| NLG COLLAPSED SCENARIO



|4|



|3|



|6|



|5|

# KUNZ WORLDWIDE

## Our valued CUSTOMERS



around  
the **WORLD**



in **100+**  
COUNTRIES

# KUNZ - OUR VALUED CUSTOMERS

## Airports

AENA (several locations)  
 Almaty Airport  
 Ankara Airport  
 Antalya Airport  
 Aosta Airport  
 Athens Airport  
 Bahrain Airport  
 Barcelona Airport  
 Beijing Capital Airport  
 Berlin Airport Tempelhof  
 Berlin Airport (TXL, SXF)  
 Bologna Airport  
 Borispol Airport  
 Bremen Airport  
 Cancun Airport  
 Chengdu Shuangliu Airport  
 Chicago Midway Airport - Signature Flight Support  
 Chicago O'Hare Airport - Signature Flight Support  
 Cochin Airport  
 Cologne-Bonn Airport  
 Copenhagen Airport  
 Curacao Airport  
 Dalian Airport  
 Dresden Airport  
 Dubai International  
 Dushanbe Int'l Airport  
 Düsseldorf Airport  
 Emiliano Airport  
 Erfurt Airport  
 Frankfurt/Main Airport  
 Funchal Airport  
 Fuerteventura Airport  
 Geneva Airport  
 Graz Airport  
 Guangzhou Bai Yun Airport  
 Guilin Liangjiang Airport  
 Hamburg Airport  
 Hannover Airport

Hong Kong KaiTak Airport  
 Hong Kong International Airport  
 Istanbul, Atatürk Airport  
 Istanbul Sabiha Gökken Airport  
 Jayapura Airport  
 Kassel Calden Airport  
 Krasnodar Airport  
 Lehigh Valley Airport, Allentown, PA  
 Leipzig Airport  
 Linz Airport  
 Ljubljana Airport  
 Luxembourg Airport  
 Lviv Airport  
 Madrid Airport  
 Manila Airport  
 Melilla Airport  
 Moscow Sheremetyevo Airport  
 Moscow Vnukovo Airport  
 Munich Airport  
 Ninoy Aquino International Airport  
 Nuremberg Airport  
 Oslo Airport  
 Palma de Mallorca Airport  
 Pontianak Airport  
 PT Angkasa Pura  
 Rome FCO Airport  
 Sabiha Gokcen Airport  
 Saransk Airport  
 Sentani Airport, Jayapura  
 Shanghai Hong Qiao Airport  
 Sheremetyevo Airport  
 Simferopol Airport  
 Sofia Airport  
 Sochi Airport  
 Stuttgart Airport  
 Tbilisi Airport  
 Tenerife Norte Airport  
 Tenerife Sur Airport  
 Tianjin Xingang Airport  
 Tokyo (NRT) Airport

Venice Airport  
 Vienna Airport  
 Warsaw Frederic Chopin Airport  
 Yakutsk Airport

## Airlines

ACES  
 Aeroflot  
 Aero Mexico  
 Air Algérie  
 Air Arabia / HS-AECO  
 Air Astana  
 Air Atlanta Icelandic  
 Air Baltic  
 Air Berlin  
 Air Caledonie  
 Air Canada  
 Air China  
 Air Corsica  
 Air Dolomiti  
 Air France  
 Air Iceland  
 Air India  
 Air Macao  
 Air Madagascar  
 Air Mauritius  
 Air New Zealand  
 Air Tanzania  
 Aircompany Polet  
 Airphil Express  
 Alsaqer Aviation  
 American Airlines  
 Angola Airlines  
 Antonov Salls GmbH  
 Arkia Israeli Airlines  
 Asiana Airlines  
 ATA Airlines  
 Aurora Airlines  
 Austrian Airlines  
 Avianca Airlines  
 Aviadynamics  
 Azerbaijan Airlines  
 Azul Linhas Aereas Brasileiras S.A.  
 Aviation Partnership Phils Corp  
 Belavia Belarussian Airlines

Biman Bangladesh Airlines  
 bmi British Midland  
 British Airways  
 Canadian Airlines  
 Cargolux  
 Carpatair  
 Cemair  
 Chautauqua Airlines  
 China Airlines  
 China Eastern Airlines

China Southern Airlines (several locations)  
 China Southwest Airlines  
 Comair Airlines  
 Corsair  
 Czech Airlines  
 Delta Air Lines  
 DHL Aviation, Bahrain  
 Don Avia  
 Eastar Jet  
 Egypt Air  
 EL AL  
 Emirates Airline  
 Estonian Air  
 Ethiopian Airlines  
 Etihad Airways  
 Eural Air  
 Eurowings  
 Eznis Airways  
 Far Eastern Air Transport  
 Felix Airways  
 Finnair  
 Flydubai  
 Garuda Indonesia  
 GOL Linhas Aereas  
 Gulf Air  
 Hainan Airlines  
 Iberia  
 Icelandair

Iran Aseman Airlines  
 Jamal Aviation  
 JAMCO  
 Japan Airlines  
 Jeju Air  
 Jet Aviation  
 Job Air Logistics  
 Jordan Aviation  
 Kallitta Air  
 KD Avia  
 Kenya Airways  
 KLM  
 Korean Air  
 Kunming Airlines  
 Kuwait Airways  
 LAN Chile  
 LATAM Airlines  
 Lauda Air  
 Libyan Arab Airlines  
 Lion Airlines  
 Luxair  
 Mahan Air  
 Malaysian Airlines  
 Malev Hungarian Airlines  
 Middle East Airlines  
 MNG Airlines  
 Monarch Aircraft Engineering  
 Mongolian Airlines  
 Middle East Airlines  
 Northwest Airlines  
 Olympic Airways  
 Oman Air  
 Onur Air  
 Oren Air  
 Presidential Air Fleet Nigeria  
 Pal Express  
 Qantas Airways  
 Qatar Airways  
 Rossiya Russian Airlines  
 Royal Brunei Airlines  
 Royal Flight Bahrain  
 Royal Jordanian  
 SAS Copenhagen, Oslo, Stockholm  
 Saudi Arabian Airlines  
 Shaheen Air International Ltd.  
 Shanghai Airlines  
 Shanghai Hute Airlines  
 Shenzhen Airlines  
 Shenzen Donghai Airlines  
 Siberia Airlines

Sichuan Airlines  
 Singapore Airlines  
 SmartLynx Airlines  
 South African Airways  
 Spanair  
 Sri Lankan Airlines  
 Sriwijaya Air  
 SunExpress Airlines  
 Syrian Arab Airlines  
 TACA Airlines  
 TAM Linhas Aereas S.A.  
 TAP Air Portugal  
 TAROM  
 Tassili Airlines, Algeria  
 TEAM Aer Lingus  
 Thai Airways  
 Tianjin Airlines  
 Travel Service  
 TUifly  
 Tunis Air  
 Turkish Airlines Technic Inc  
 Turkmenistan Airlines  
 T'way Air  
 Ukraine International Airlines  
 United Airlines  
 Ural Airlines  
 UPS  
 UT Air  
 Vietnam Airlines  
 Vladivostok Airlines  
 Widerøe Airlines  
 Xiamen Airlines  
 Yakutia Airlines  
 Yangon Myanmar  
 Yemen Airways  
 Yunnan Airlines

## Companies, Manufacturers and Military Organizations

AAA Aerospace USA Inc.  
 Abu Dhabi Aircraft Technologies  
 ACE Aeroplex of Central Europe  
 Aermeccanica S.R.L.  
 Aero Wheel & Brake Service Corporation  
 Aerocontractors Nigeria  
 Aero-Dienst GmbH  
 Aerohelice Lda.  
 AeroRepair Corp.  
 AIRBUS  
 Airbus Defence and Space  
 Aircraft Technical Services  
 Aviadynamics  
 Avial Services  
 Aviation Australia / Riyadh College of Excellence  
 Avior Tech Services  
 ALROSA, Russia  
 AMAC Aerospace  
 AMECO Beijing  
 Amiri Fleet Kuwait  
 AMMROC  
 Antavia SAS  
 Apella S.A.  
 Austrian Air Force  
 Aviadynamics  
 AviaServices  
 Aviation Component Rep. Serv.  
 BAE Systems  
 Baimtec Material Co.  
 Balashikha BLMZ  
 Beijing Andawell Science and Technology Co., Ltd.  
 Beijing Cronda New Technology Co., Ltd.  
 Beijing Kailan Av. Tech.  
 Beijing KeRongDa Tech.  
 Beijing Kunlun High Tech Co., Ltd.  
 Belgian Air Force  
 BF Goodrich, (several locations)  
 BOEING  
 Bower Aero  
 Canadian Air Force  
 Civil Aviation Authority Bahrain  
 Cobham Aviation Services  
 Collins Aerospace  
 Czech Air Force  
 Daher Aerospace  
 Domodedovo Technique  
 EADS

EADS CASA  
 EAN Jet Center Nigeria  
 Egypt Air Force  
 Embraer Executive Jet Service  
 Falcon Aviation Services  
 Finnish Air Force  
 Flybe Aviation Services  
 French Air Force  
 GAMECO  
 Gazprom Avia  
 German Air Force  
 GOAM Ace Air  
 Goodrich Asia-Pacific Ltd.  
 Gulf Air Technical Services  
 Haveus Aerotech India  
 Hellenic Aerospace Industry  
 Honeywell  
 Horizon Aerospace Ltd.  
 Hua Cheng Auto Repair  
 Indian Air Force  
 Indian Navy  
 Irkut Corporation  
 Israel Aerospace Industries  
 Israel Air Force  
 Italian Air Force  
 Japan Air Self Defence Force  
 Jet Aviation (several locations)  
 JAMCO  
 JorAMCo  
 Jordan Aeronautical Systems Company  
 Kanchan Enterprises  
 Kearsley Airways  
 Kiev Aircraft Repair Plant 410  
 Kuwait Air Force  
 LAO Airlines Engineering  
 Leonardo Company  
 LOT Aircraft Maintenance Services  
 Lufthansa Technik (several locations)  
 Magnetic MRO  
 Magnum Aviation  
 Max Air  
 Mazerer Aero Equipment  
 M.C.M. - Maintenance Center Malta  
 M.C.M. - Maintenance Center Munich  
 Meggitt Aerospace  
 MyTechnic Aircraft MRO Services  
 NATO AWACS E3A  
 Nayak Aircraft Services

Northrop Grumman  
 Oigma Industries  
 Oman Air Force  
 Oman Aviation Services  
 Pakistan Air Force  
 Polish Air Force  
 PT Anekasa Pura II  
 RIX Mro  
 Rotable Repairs Ltd  
 Royal Air Force of Oman  
 Royal Air Force of UK  
 Royal Brunei Flight  
 Royal Netherlands Air Force  
 Royal Saudi Air Force  
 Royal Thai Air Force  
 Royal Thai Navy  
 Röder Präzision  
 RUAG Aviation  
 Sabena Aerospace  
 Safran Landing Systems  
 SAS (several locations)  
 Saudi Arabian Air Force  
 Shanghai Hute Aviation  
 Sibir Technics Ltd.  
 Silk Way Technics  
 Simpherol  
 Sky Wheels UK  
 Spanish Air Force  
 S-Pro  
 SR Technics (several locations)  
 ST Aerospace Solutions  
 Sukhoi Civil Aircraft  
 TAE Aerospace  
 TAMPA Cargo S.A.  
 Tasman Aviation Enterprises  
 Technic Aviation  
 TP Aerospace Technics (several loca-tions)  
 TS Aircraft Shop  
 Turkish Airlines Technic  
 Turkish Air Force  
 United Space Alliance  
 US Air Force (several locations)  
 US Navy (several locations)  
 UTG Maintenance & Engineering  
 Volga-Dnepr Technics  
 Vertical Force

# Committed to technical **excellence**



KUNZ GmbH aircraft equipment

Gerhard-Kunz-Str. 1a, 56244 Hahn am See, Germany  
Phone +49-2666-911770, e-mail: sales@kunz-aircraft.com, www.KUNZ.aero

