## GUIDE TO FREGHT

CAPABILITIES OF OUR AIRCRAFT AND TRUCKS







## **Volga-Dnepr**

Volga-Dnepr is one of the major cargo carriers with long-standing expertise in integrated logistics services. Throughout 30 years the company has been delivering cargo worldwide aboard An-124-100/150 and IL-76TD-90VD, as well as providing services in insurance, MRO, trucking, and training areas.

FLEET OF STRATEGIC PARTNER



2 An-124-150



VOLGA-TRUCKS



**Volga-Dnepr** - a team of experienced professionals offers individual logistics solutions tailored to the needs of its customers.

Get to know our services:

CHARTER CARGO OPERATIONS

SCHEDULED CARGO OPERATIONS

MULTIMODAL OPERATIONS

**INTERNATIONAL EXPRESS-DELIVERY** 

CUSTOMS CLEARANCE OF CARGO



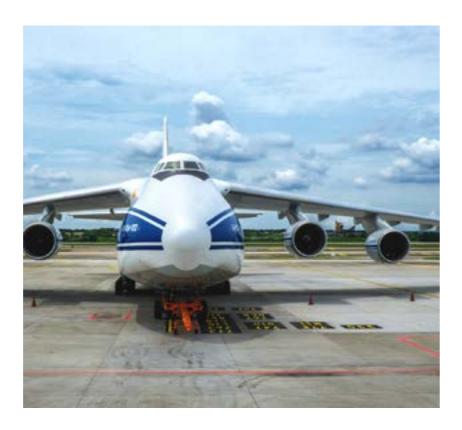
## **VOLGA-DNEPR**

## our fleet of freighters

## An-124-150



## An-124-100



## IL-76TD-90VD



## FLEET OF STRATEGIC PARTNER VOLGA-TRUCKS

## **VOLVO/MERCEDES**



## **VOLGA-TRUCKS**

An-124-100/150

4x Lotarev D-18 T	ENGINE TYPE
4x 24 T Σ = 96 T	ENGINE TAKE-OFF THRUST
392,000 / 402,000 kg	MAXIMUM TAKE-OFF WEIGHT
192,215 / 192,559 kg	OPERATING Empty weight
120,000 / 150,000 kg	MAXIMUM PAYLOAD INCL. Equipment weight
330,000 / 360,000 kg	MAXIMUM Loading weight
306,000 / 335,000 kg	MAXIMUM Zero fuel weight
750 km/h	CRUISING SPEED
31,000 – 35,000 ft	CRUISING Altitude
4,500 km	RANGE
20,000 kg	MAXIMUM SINGLE LIFT WITH INTERNAL CRANES
7 crew members	ENGINEERING CREW
6 crew members	FLIGHT CREW

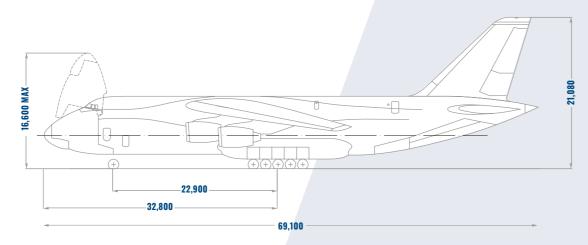
## An-124-100/150 🧲

**The An-124-100** is the **world's largest**, **mass produced**, **civil cargo aircraft** and is a recognized leader of the air cargo industry for its ability to transport oversized and super-heavy shipments.

The combination of exceptional characteristics such as its cargo compartment size, flight range and uplift capability (without the needs for special loading equipment) allows the An-124 to carry super-heavy and oversized cargoes including equipment up to 120 tonnes (An-124-100) and up to 150 tonnes (An-124-150).



#### **DRAWING OF AIRCRAFT**



THE VOLGA-DNEPR'S FLEET OF AIRCRAFT

## An-124-100/150

#### **AIRCRAFT SPECIFICATION**



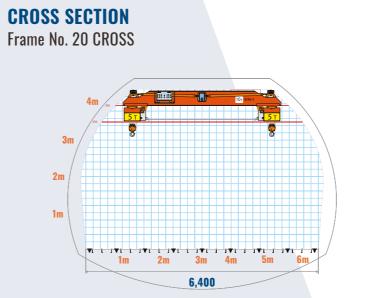
#### PAYLOAD INCL. Equipment weight

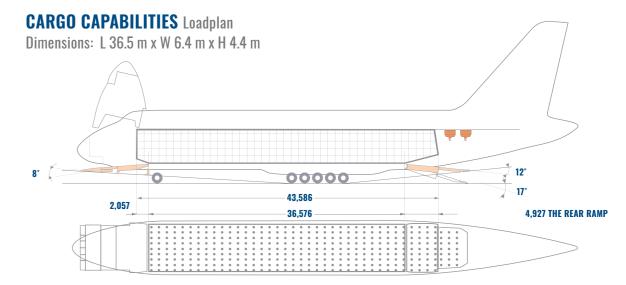
An-124-100 **120,000 kg** 

An-124-150 **150,000 kg** 

#### LOADING METHODS

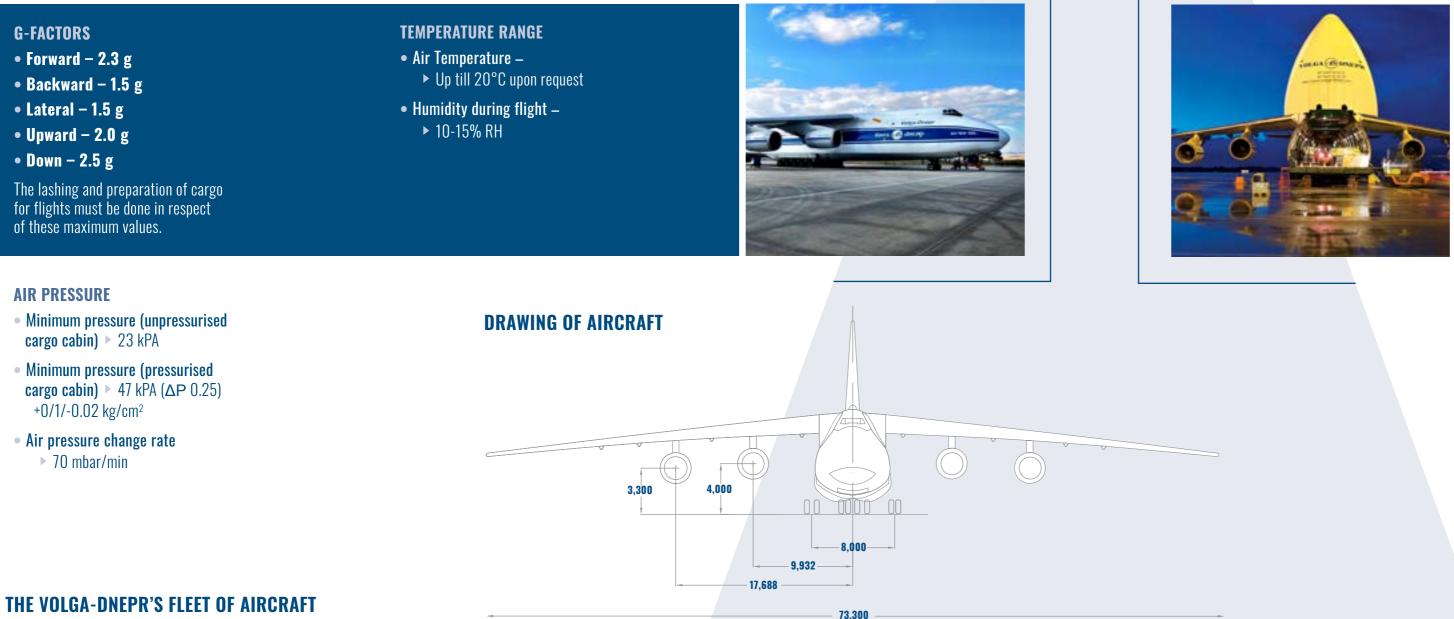
- Pallets & crates loaded by forklift
- ► Use of the internal crane system
- > Vehicles driven or winched into the aircraft
- Vehicles loaded on the Car Rack System
- Heavy or outsized items winched into the aircraft using the tracking system
- Floor roller system for transportation of general cargo aboard An-124-100/150





## An-124-100/150 🧲

#### **ENVIRONMENT IN THE CARGO CABIN**



## An-124-100/150

#### **AIRCRAFT SPECIFICATION**

#### **LOADING EQUIPMENT**

- Internal Crane System consists of two gantries each with two lifting hooks. Capable of lifting single items of up to 20,000 kg. The containers must have suitable lifting points. The SPG system can be fitted to increase lifting capacity up to 30,000 kg but has further restrictions relating to the center of gravity of the container and location of lifting points.
- **Double-deck loading and transport system** designed and patented by Volga-Dnepr allows the An-124-100 to transport up to 35 cars (average sedan) on a single flight; loading does not require any additional equipment; alternatively, cars can be driven or winched through the nose.
- **Bearings for elements** of the front aircraft ramp or, to put it simply, under the front ramp of the An-124.
- **Extension ramps** of various types of cargo.
- Tracking systems (similar to railway tracks): 2 versions: low-profile and standard-profile
- **Skate beams and roller beams**
- Platforms of various design and load-carrying capacity
- Protective weight-distributing plating

#### IL-76TD-90VD

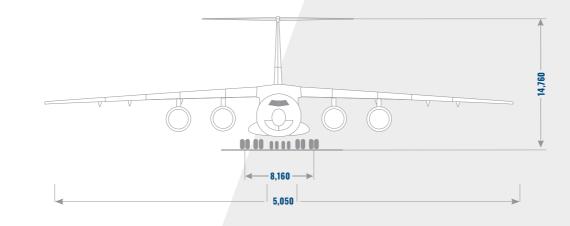
4x PS-90A-76	ENGINE TYPE
4x 16,000 kg Σ = 64,000	ENGINE TAKE-OFF Thrust
195,000 kg	MAXIMUM TAKE-OFF WEIGHT
97,243 kg	OPERATING Empty weight
50,000 kg	MAXIMUM PAYLOAD INCL. Equipment weight
155,000 kg	MAXIMUM Loading weight
144,800 kg	MAXIMUM ZERO FUEL WEIGHT
750 km/h	CRUISING SPEED
9,100 m – 10,600 m	FLIGHT LEVEL (TYPICAL)
4,500 km	RANGE
12,000 kg	CAPABILITY OF ONBOARD CRANE SYSTEM
4 crew members	ENGINEERING CREW
4 crew members	FLIGHT CREW

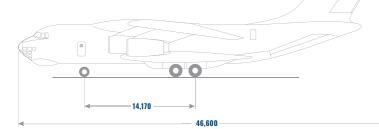


Volga-Dnepr participated in the cross-section modernization of the IL-76TD, **one of Volga-Dnepr's most successful cargo aircraft thanks to its cabin size, carrying capacity and autonomous loading capabilities.** The resulting product is the IL-76TD-90VD, equipped with new PC-90A-76 engines and modern avionics, approved for worldwide operations.



#### **DRAWING OF AIRCRAFT**





THE VOLGA-DNEPR'S FLEET OF AIRCRAFT

## IL-76TD-90VD

#### **AIRCRAFT SPECIFICATION**

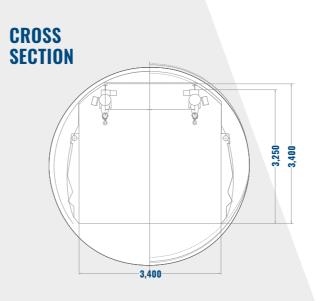


## MAX. LANDING WEIGHT 195,000 kg

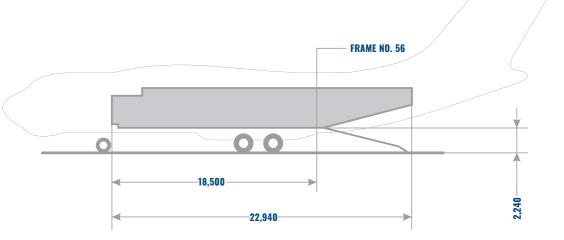
#### PAYLOAD INCL. EQUIPMENT WEIGHT 50,000 kg

**4,500 km** 

cruising speed 750 km/h



#### CARGO CAPABILITIES Loadplan



## IL-76TD-90VD 🧲

#### **V**ENVIRONMENT IN THE CARGO CABIN

#### **G-FACTORS**

- Forward 2.23 g (up to 6.0 g in case of emergency landing)
- Backward 1.5 g
- Lateral- 1.5 g
- Upward 2.0 g
- Down 2.5 g

The lashing and preparation of cargo for flights must be done in respect of these maximum values.

#### **AIR PRESSURE**

- Maximal pressure
  - ▶ 73.5 kPa (2,500 m)
- Air pressure change rate
   66.5 Pa/sec

#### **TEMPERATURE RANGE**

- Air temperature –
   up till 25°C upon request
- Humidity during flight –
   ▶ 10-15% RH

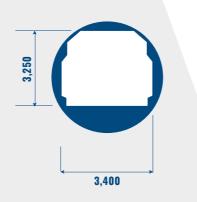




## IL-76TD-90VD

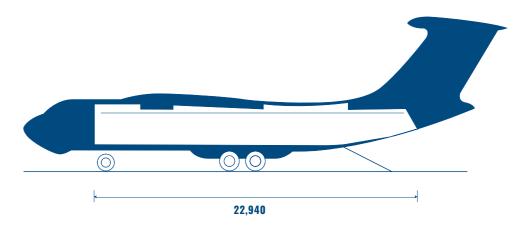
#### **AIRCRAFT SPECIFICATION**





#### LOADING EQUIPMENT

- Internal Crane System The onboard system of overhead cranes consists of 4 electric hoists with 3-tonne lifting capacity each, they are capable of lifting single items of up to 12,000 kgs
- The freighter is equipped with 2 onboard electric winches of 3-tonne hauling capacity each
- ► Loading of wheeled vehicles, trailers and tracked vehicles
- Ramp enables wheeled vehicles to be loaded using their own power
- Extension ramp can be applied for the loading of long and high vehicles
- Loading of heavy and outsize cargo
- Use of special Volga-Dnepr Airlines' loading equipment for loading of heavy and outsize cargo subject to usage of mobile crane(s) and additional trailers
- Floor roller system for transportation of general cargo up till 8 PMC per flight

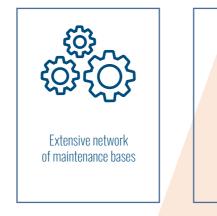


## **VOLGA-TRUCKS**



**Volga-Trucks** is **one of the major trucking companies** in Privolzhsky Federal District which has been working in the market since 1994. The Company specializes in cargo transportations across Russia and CIS, including possibility to deliver the goods to the largest hub airports. Its extensive route network, modern fleet and experienced employees allow the company to offer customized logistics solutions.

- Transportation of temperature-sensitive cargo load space | capacity: < 20 tonnes | < 90m<sup>3</sup> | < 33 europallets -20 - +20°C
- Refrigerated road transportation service load space | capacity: < 20 tonnes | < 90m<sup>3</sup> | < 33 europallets</p>
- Transportation of cargo with special loading requirements load space | capacity: < 96m<sup>3</sup> | < 22 tonnes</p>
- Dangerous goods transportation load space | capacity: 1.5 - 20 tonnes | 20 - 90 m<sup>3</sup>
- Outsized cargo transportation superheavy, out-of-gauge and long items of cargo
- Liquid cargo transportation (tanks with thermal protection) capacity: < 20 tonnes







Transport movement monitoring



#### FLEET OF STRATEGIC PARTNERS

#### **TRUCKS FLEET**



## TRUCK TRACTORS VOLVO FH MERCEDES ACTROS

### SEMI-TRAILERS KRONE SD SCHMITZ SKO

CAPABILITIES



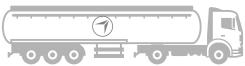
Experienced team and high competence













# IF PALLETIZED CARGO FLIGHTS TRANSPORTATION OF UP TILL 8 PMC PER FI







CARGO

PARADROPS

## **CONTACT US**

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