



TENTE Institutional



Castors for Inflight Trolleys

Castors for Inflight Trolleys

Did you know that TENTE castors contribute to your comfort above the clouds?

Next time you fly, pay special attention to the “feet” of the in-flight trolley used to serve drinks and meals, by the friendly flight attendants. These castors roll quietly down the aisle to assure a peaceful trip for all passengers onboard. As expert, you will recognize the TENTE castors with one look.

The critical role of castors used on in-flight trolleys begins long before take-off. The thermo-plastic tread assures quiet, smooth, and reliable operation already on the ground, while taking their trip to the airplane. The robust swivel bearing and the shape of the TENTE in-flight castor support the trolley during ground catering and in-flight service. TENTE castors provide for a comfortable ride, with easy manoeuvrability, even in the tightest places and narrow aisles of an airplane.

By the way: In order to reduce CO₂ emissions and to protect our environment, TENTE castors become increasingly lighter.

Material Comparison

	Standard	Non Corrosion	Non Corrosion
Series:	2976	AVIANA Standard 5976	AVIANA Light 5976
Housing:	pressed steel, yellow passivated	high performance Polyamide	high performance Polyamide
Swivel bearing:	double ball bearing swivel head, with stainless steel balls	double ball bearing swivel head, upper ball race: balls made of stainless steel, lower ball race: balls made of POM	double ball bearing swivel head, upper and lower ball race: balls made of POM
Wheels:	UAE Wheel centre: Polyamide tread: polyurethane with threadguards	UAE Wheel centre: Polyamide tread: polyurethane with threadguards	UAE Wheel centre: Polyamide tread: polyurethane with threadguards
	PJE Wheel centre: TENTEprene (thermoplastic rubber) with threadguards	PJE Wheel centre: TENTEprene (thermoplastic rubber) with threadguards	PJE Wheel centre: TENTEprene (thermoplastic rubber) with threadguards
Bearing:	cone ball bearing, stainless-steel	cone ball bearing, stainless-steel	cone ball bearing, POM
Brake system:	central locking brake, all components are made of stainless or reinforced synthetic materials		
Weight per set: (4 castors)	UAE – 2,720 kg PJE – 2,560 kg	UAE – 2,080 kg PJE – 1,920 kg	UAE – < 1,600 kg PJE – < 1,440 kg



AVIANA Light

Characteristics:

- low weight
- low noise
- safe and easy maneuverability
- maintenance and corrosion free
- worldwide available
- central locking system
- corporate colouring on request



Result in:

- fuel savings
- passenger comfort
- smooth and efficient handling by cabin crew
- zero maintenance costs
- easy access of spare parts
- adjustable according to OEM specification
- individual design

Weight Comparison

Standard Castor 2976



Weight per Castor:
with PJE-Wheels: 0,640 kg
with UAE-Wheels: 0,680 kg

AVIANA Standard 5976



Weight per Castor:
with PJE-Wheels: 0,480 kg
with UAE-Wheels: 0,520 kg

AVIANA Light 5976



Weight per Castor:
with PJE-Wheels: <0,360 kg
with UAE-Wheels: <0,400 kg

Fuel Savings

It is said, that the use of AVIANA Light Castors has a significant impact on kerosene savings. This is our contribution to a cleaner and greener environment.

Awarded Design



High product quality
Interzum Award



The Design Award of the Federal
Republic of Germany – NOMINATED



Gute Gestaltung
Deutscher
Designer Club

Castors for Inflight Trolleys



Production and Testing

The AVIANA castor is manufactured and tested according to EN 12530. Furthermore, our customers and TENTE specify additional requirements, such as:

- Drop-Test
- Washability/Corrosion Resistance
- Dynamic Test
- Static Test
- Actuation Test
- Brake Test
- Surface pressure (Footprint)
- Roll- and Swivel Resistance