

Wolf® TY-300 Portable Atex Led Inspection Light

The Wolf TY-300 is an ultra-compact and lightweight **next-generation** ex-proof inspection lamp, specifically engineered for detailed inspections, technical surveys, and maintenance operations in hazardous areas. Offered by **IST Safety Ltd**, the **official distributor of Wolf**, this leadlamp model provides exceptional maneuverability in confined spaces while ensuring maximum visibility.

Certified for Zone 1/21, the TY-300 provides total safety in explosive gas and dust atmospheres. Utilizing advanced LED technology, it delivers bright and uniform illumination. With its impact-resistant polycarbonate lens and ergonomic handle, it remains the most reliable equipment for personnel working under the toughest industrial conditions.

Usage Areas

- **Aviation & Aerospace:** Aircraft wing-tank inspections, engine maintenance, and fuselage surveys.
- **Oil & Gas:** Pipeline inspections, valve room monitoring, and small-scale tank surveys in refineries.
- **Marine:** Engine room checks, bilge inspections, and cargo tank surveys.
- **Industrial Maintenance:** Confined space entries and detailed technical surveys in chemical plants.

The TY-300 is a small, portable LED inspection lamp designed for use in dangerous areas (ATEX Zone 1/21). It can be held easily for close inspections or hung up with the swivel hooks to provide temporary lighting. Its simple, low-maintenance design makes it ideal for tough environments.

Certification

- **ATEX and IECEx Certified:** Safe for use in Gas Zones 1 and 2, Dust Zones 21 and 22.
- **IP Rating:** IP66 rated, resistant to dust and water.
- Complies with EN IEC 60079-0, EN IEC 60079-7, EN 60079-18 and IEC 60079-31



- EX II 2 G Ex eb mb IIC T4 Gb
II 2 D Ex tb IIIC T T80°C Db

Warranty and Technical Support

- **Warranty:** 2-year manufacturer's warranty.
- **Official Support:** Original spare parts and professional technical service are provided through IST Safety Ltd, the official distributor of Wolf in Turkey.

Standards



Ex-Proof (ATEX)



IECEx

TECHNICAL DETAILS

- Easy to maintain and service by the user.
- Available in two sizes: 640 mm or 910 mm.
- Available in 110V and 230V models.
- Compact and lightweight – ideal for close-up inspections.
- Comes with 2 swivel hooks – can be used to hang the lamp vertically or horizontally.
- Hexagonal end caps allow the lamp to rest on surfaces and be angled towards the work area.
- Comes with a 10-meter H07RN-F 3-core flexible 1.5mm² cable.
- Can be fitted with ATX, CEAG, Marechal, or Stahl Ex plugs.
- Designed for easy cable changes by the user.
- Ex Certified replaceable anti-static film available to protect against dirt, debris, and paint.
- Up to 1,390 lumens (brightness).
- Low glare thanks to patented DLO (Directional Linear Optics) technology.

PRODUCT REFERENCE	TY-300 /18/H0FR10/ATX110	TY-300 /26/H0FR10/ATX110	TY-300 /18/H0FR10/ATX230	TY-300 /26/H0FR10/ATX230
PRODUCT DESCRIPTION	ATEX LED Portable Inspection Light			
CODE	II 2 G Ex eb mb IIC T4 Gb II 2 D Ex tb IIIC T80°C Db			

CERTIFICATE NUMBERS	ExVeritas 24ATEX1826X / IECEx EXV 24.0024X / ExVeritas 24 UKEX 1827X			
AREA OF CLASSIFICATION (GAS)	Zones 1 & 2			
TEMPERATURE CLASS (GAS)	T4			
AREA OF CLASSIFICATION (DUST)	Zones 21 & 22			
LOWER AMBIENT TEMPERATURE	-20°C			
UPPER AMBIENT TEMPERATURE	+40°C			
MAX. SURFACE TEMPERATURE (DUST)	T80°C			
VOLTAGE RANGE (VAC)	88-140			
MAX INPUT CURRENT (A)	0.2	0.35	0.1	0.15
POWER FACTOR	>0.85	>0.90	>0.85	>0.90
LIGHT OUTPUT (LUMENS EMITTED)	1,005	1,390	1,005	1,390
INGRESS PROTECTION	IP66			

ENCLOSURE	Polycarbonate tube with anodised aluminium end caps			
LED TECHNOLOGY	1 x DLO	2 x DLO	1 x DLO	2 x DLO
WEIGHT (EXCLUDING CABLE)	1.6 kg	2.0 kg	1.6 kg	2.0 kg

What is ATEX Lighting?

What is ATEX and what does exproof mean? The **ATEX directive** is a set of European Union standards that define the safety requirements for equipment used in hazardous areas with explosive atmospheres. **Exproof** (Explosion-proof) refers to protection methods designed to prevent explosions by inhibiting the formation of sparks or electrical arcs in environments containing flammable gases, dust, or vapors. To ensure life and property safety in industrial facilities, the use of **ATEX-certified exproof devices** is a legal requirement.

What is ATEX Zone Classification?

ATEX Zone coding is a technical classification based on the frequency and duration of the occurrence of an explosive atmosphere in a given area. While the terms **Zone 0, 1, and 2** are used for risks originating from gas, vapor, and mist; the codes **Zone 20, 21, and 22** are designated for environments containing combustible dust. This classification is a legal standard that determines the required Equipment Protection Level (EPL) for devices. Accurate zone identification both optimizes operational costs and minimizes occupational safety risks.

What is IECEx Certification? How Does it Differ from ATEX?

In addition to ATEX certification, some projects may also require the IECEx Certification System (International Electrotechnical Commission Explosive Atmospheres System) certification. IECEx is an internationally recognized conformity assessment system for equipment intended for use in explosive atmospheres.

While ATEX is a European Union directive and a legal requirement within the European market, IECEx is a globally accepted certification system, widely preferred in regions such as the Middle East, Asia, and Australia.

From a technical perspective, both ATEX and IECEx are based on similar standards (e.g., the EN/IEC 60079 series).

However:

- ATEX is a mandatory legal directive, whereas
- IECEx is an international certification system (voluntary, but widely required)

Therefore, while ATEX certification may be sufficient for certain projects, international tenders or critical industries such as oil & gas often prefer or require products that are certified to both ATEX and IECEx standards.

The appropriate certification should be determined based on the project location, client requirements, and application area.