



ATEX

Forklift Attachments

If you are using your forklift attachment or piece of material handling equipment in a potentially hazardous and explosive atmosphere, then you must ensure that your equipment is ATEX certified as required by the EU directive 94/9/EC (commonly known as the ATEX directive)

Here at Contact, we have experience in manufacturing our attachments to conform to the ATEX Directive

Classification of equipment:

The ATEX directive calls for equipment to be classified into groups and categories which are definable by the markings on the product – Please see page 2 for more details

Classification of an area:

Hazardous areas are divided into Zones (European and IECEX method) or Divisions (North American method) according to the likelihood of a potentially explosive atmosphere being present

What constitutes a hazardous area ?

An area where a potentially explosive mix of air and flammable gasses or air and dust or air, dust and gasses may occur

European & IECEX classification	Definition of zone or division	North American classification
Zone 0 (gases/vapours)	An area in which an explosive mixed atmosphere is consistently present for long periods	Class I Division 1 (gases)
Zone 1 (gases/vapours)	An area in which an explosive mixture is likely to occur in normal operation	Class I Division 1 (gases)
Zone 2 (gases/vapours)	An area in which an explosive mixture is not likely to occur in normal operation and if occurs, will persist for a short time	Class I Division 2 (gases)
Zone 20 (dusts)	An area in which explosive atmosphere in the form of cloud of combustible dust in air is consistently present for long periods	Class II Division 1 (dusts)
Zone 21 (dusts)	An area in which an explosive atmosphere in the form of a cloud of combustible dust in air is likely to occur in normal operation occasionally	Class II Division 1 (dusts)
Zone 22 (dusts)	An area in which an explosive atmosphere in the form of a cloud of combustible dust in air is not likely to occur in normal operation, but if does, will persist for a short time	Class II Division 2 (dusts)



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Product marking

The ATEX directive requires that your forklift attachment or piece of material handling equipment comes supplied 'CE' marked and bears the 'EX' mark as well as the coding as per the table below

Heading	Mark	Use
Explosion proof	EX	In accordance with the ATEX directive
Equipment proof	I	For use in underground mines
	II	For use in all other places
Category	1	Equipment that is intended for use in areas where an explosive atmosphere is present continuously, for long periods or frequently
	2	Equipment that is intended for use in areas where an explosive atmosphere is likely to occur in normal operation and must ensure a high level of protection
	3	Equipment that is intended for use in areas where an explosive atmosphere is unlikely to occur in normal operation and must ensure a normal level of protection
Gas / Dust	G	Equipment certified for use in flammable gases
	D	Equipment certified for use where dust is present in the atmosphere
Type of Protection	D	Flameproof
	la	Intrinsically safe
	e	Increased safety
Gas Group	I	Mines
	II	Surface above ground industries
Gas Sub Group	A	Less easily ignited gases e.g. propane
	B	Easily ignited gases e.g. ethylene
	C	Most easily ignited e.g. hydrogen or acetylene

We can help

If you require a forklift attachment manufactured to comply with the ATEX directive, then we can help, with over four decades experience in the forklift attachment and material handling industry, Contact Attachments have the experience to make sure your equipment conforms to your specific ATEX requirements