

Welcome to the second lesson. We will now deal with the requirements and application ranges of industrial pneumatic tires and we want to answer the following questions:

- What demands are made on industrial pneumatic tires?
- What application ranges are there?
- What application criteria are there for industrial pneumatic tires?

The following knowledge informs you about the use of industrial pneumatic tires.

Place of use, application range and operating conditions determine **tire selection**. Moreover, manufacturers and operators have certain requirements of industrial pneumatic tires that result from everyday working life. These are:

- **high load-carrying capacity with small tire dimensions**
- **high stability**
- **good mileage performance**
- **low rolling resistance**
- **Resistance to injuries and punctures**
- **Maintenance-free operation**
- **Good riding comfort**
- **Transmission of high driving and braking forces**

As mentioned in Lesson 1.1, industrial pneumatic tires are used on **industrial trucks** such as forklift trucks, tractors or flat trucks. This results in a versatile application range. In order to clarify this for you, we would like to show you the following **application ranges** from practical situations.

Industrial pneumatic tires are suitable in the following workplaces:

- **Airports**
- **Sea ports**
- **Logistics centres**
- **Shipyards**
- **Industrial production**

They can transport diverse goods with large loads on secured and unsecured roadways.



fig. for industrial use

According to what **criteria** are industrial pneumatic tires selected? This is a result of the needs of the user:

- Lowering operating cost
- Lowering fitting down-times
- Improving traction
- Increasing riding comfort
- Avoiding follow-up costs

Possible follow-up costs:

- Damage to cargo
- more repairs
- lower handling performance

In order to **recommend** a particular Continental industrial pneumatic tire, **the tasks** this tire is intended to perform must be clarified first.

The following table is intended to show an **application recommendation** for Continental industrial pneumatic tires for you and help you to find the correct tires.

Transportation			
			IC 35/36
		IC 10/12 IC 40 IC 70 IC 80 ConRad HT ConRad	
unpaved ground	mixed ground	paved ground	smooth hall floor
IC 30			

fig. transportation

Do you not know these tires? No problem – in Lesson 3 you will learn more about tires and their technology.

Pneumatic industrial tires can be used for what tasks?

earthmoving

stacking/liftin

haulage

multi-purpose tasks

- **Workplace, application range and operating conditions determine the selection of the tire.**
- **The requirements of industrial pneumatic tires are high load-carrying capacity with small tire dimensions, high stability, good mileage performance, low rolling resistance and resistance to injuries and punctures.**
- **Industrial pneumatic tires are suitable at workplaces such as airports, sea ports, logistics centres, shipyards and in industrial production.**
- **In order to recommend a particular Continental industrial pneumatic tire, the tasks the tire is intended to perform must be clarified first.**