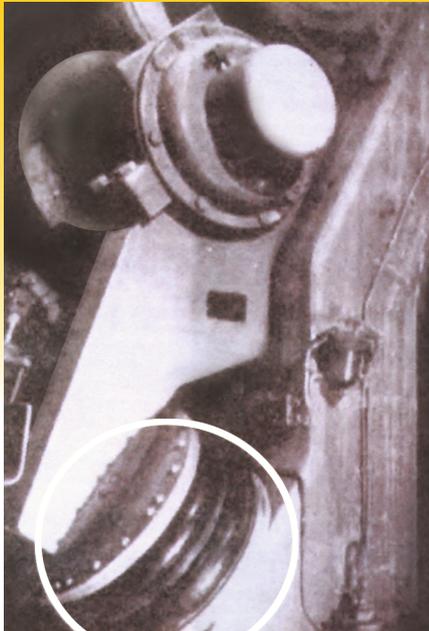


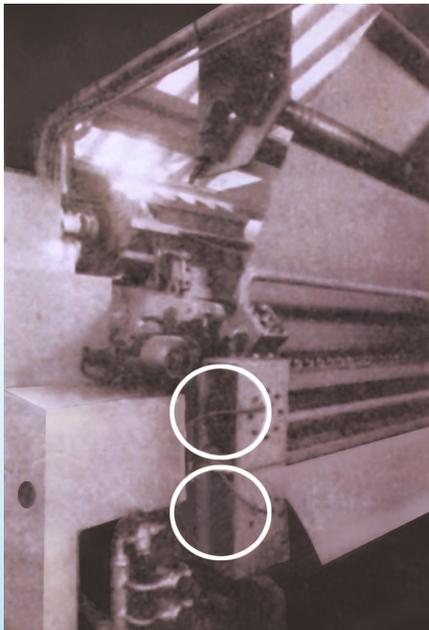
AIR SPRING SYSTEMS



PULP & PAPER INDUSTRY



PRESSING CYLINDER



TENSION CYLINDER OF UNDULATORY MACHINE

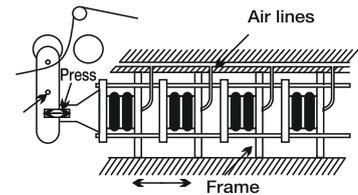
TYPICAL APPLICATIONS



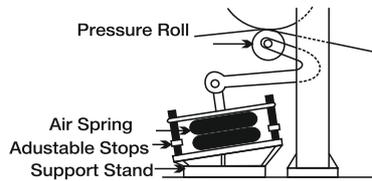
AUTO GUIDE



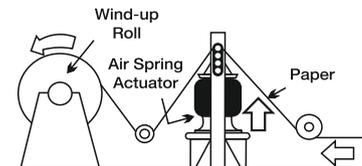
Pressure Control Calendar Rolls



Sizing Press



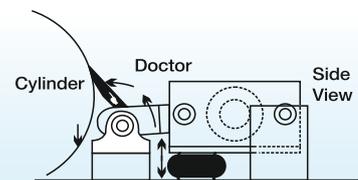
Pressure Roll for Calendar



Webb Tensioning Device



Lift Table



Oscillating Doctor for Calendar Roll

Wash Press in Pulp Mill

Couch Roll

Stretchers

Lamination Machine

Wire Tension

Dandy Bracket

Sludge Dewatering Section

Machine Glazing System

Press Waders

Clutches

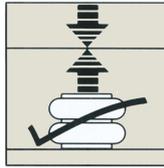
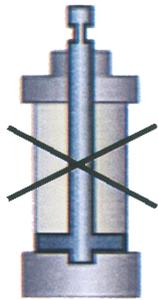
RESISTOFLEX
DYNAMICS PVT. LTD.

AIR SPRING SYSTEMS



AIR ACTUATOR

REDEFINING PNEUMATIC SYSTEMS



CONTI®Air Springs are used for all types of road and rail vehicles and to isolate vibrations for foundations and stationary machines.

Air Actuators are identical to Air Springs in design. In pneumatic applications they act as cylinders, e.g. to raise and lower loads.

CONTI®Air Springs are versatile products for pneumatic systems in widespread industrial use. The bellows design works without frictional loss.

Simple and compact design allows a favourable overall construction. They have a precise response, are robust and cut costs.



Scissor - Type Lifting Platform ▲

CONTI®AIR Actuators has resulted in considerable cost savings. The overall lifting height is 350 mm; the load bearing capacity is 50 kN.

DIAMETER : 50 - 800 mm
LOAD RANGE : 1 - 240 kN
STROKE : upto 400 mm

USED FOR LIFTING, PUSHING, TURNING, TILTING, TWISTING AND OTHER MOTIONS IN :

Food and beverage processing industry

Iron and Steel Industry

Woodworking Industry

Power Transmission Industry

Chemical Industry including Mechanical Equipment

Plastics Processing Industry

Textile Machines

Materials Handling

Shipbuilding

Printing and Paper - Making Machines

Air-conditioning Systems

Mining Machinery

Ventilation Systems

The benefits :

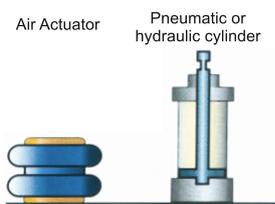
BETTER PERFORMANCE - THANKS TO

- individual solutions based on a wide product range
- the right solutions for sensitive levelling problems
- flexible solutions for various media
- maintenance -free solutions under difficult conditions
- reliable solutions for greater operational efficiency

LOWER COSTS - THANKS TO

- uncomplicated design
- simplified construction
- compact size
- absorption of lateral forces and isolation of vibrations
- easy installation
- long service life
- maintenance - free

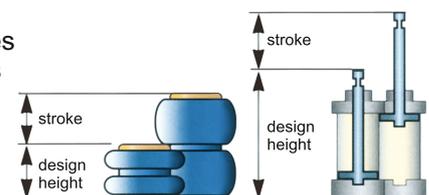
The correct solution for sensitive control problems



Cost saving thanks to simplified construction



Cost saving thanks to low space requirements



ContiTech air actuators can be used instead of pneumatic or hydraulic cylinders in a wide range of applications. They have effective diameters of between 60 mm and 950 mm, can execute strokes up to 455 mm and can exert forces of between 0.5 kN to 440 kN.

- **Maintenance-free**

ContiTech air actuators perform efficiently even when operating in difficult conditions. There are no sliding sealing elements. So ContiTech air actuators perform maintenance-free even under adverse conditions such as dirt, dust, granular materials, sediments, etc.

- **Great durability**

Dynamically, ContiTech air actuators are highly durable. They are unaffected by weathering, environmentally induced factors and numerous chemicals. Their materials have been tried and tested in the production of commercial and passenger vehicles as well as rolling stock. They have a long service life even when subjected to large loads.

- **Extensive product range**

ContiTech air actuators can be used instead of pneumatic cylinders in a wide range of applications. They have effective diameters of between 60 mm and 950 mm, can execute strokes up to 455 mm and exert forces of between 0.5 – 440 kN.

- **No friction = smooth operation**

ContiTech air actuators have no parts or seals that move against each other. Consequently, there is no breakaway friction to overcome (stick-slip-effect), so the actuators respond immediately and uniformly even to small variations in pressure.

- **Lateral misalignment possible**

ContiTech air actuators will continue to operate reliably with a misalignment of up to 20 mm. Unlike actuators based on pneumatic or hydraulic cylinders, air springs have no seals that are subject to blockage or wear. In addition, there is no need for precision guides which are sensitive to the effects of dust and other contaminants.

- **Easy economic installation**

When unpressurized, ContiTech air actuators can be installed quickly and easily, thereby saving time and money. They are flexible enough to compensate for any slight misalignments.

- **High operational safety**

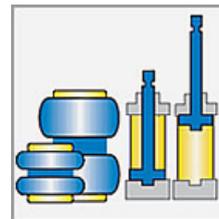
ContiTech air actuators can operate with oil-free compressed air and can therefore be used for special applications, e.g. in the food industry. As stipulated by safety standards, the burst pressure is several times greater than the maximum working pressure.

- **Resistance to various media**

Although designed primarily to be operated pneumatically using compressed air, ContiTech air actuators can be operated equally well with other gaseous media such as nitrogen. At low pressures, hydraulic media such as water and glycol can be used as well.

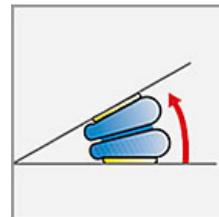
- **Low design height**

In comparison to conventional pneumatic cylinders, ContiTech air actuators contain no piston rod, making it possible to reduce the design height considerably. This allows compact constructions to be made.



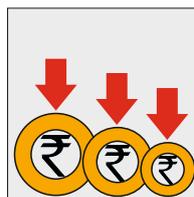
- **Tilt motion without adapter**

Depending on the type, ContiTech air actuators can be used for tilt angles up to 30°. This enables the designer to simplify the articulated construction.



- **Low purchasing costs**

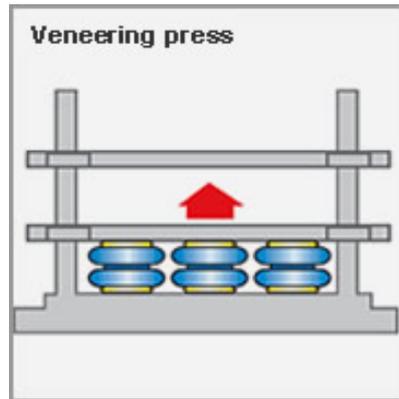
The purchasing costs are considerably less than for conventional pneumatic cylinders. And thanks to the long service life and freedom from maintenance, running costs are reduced as well.



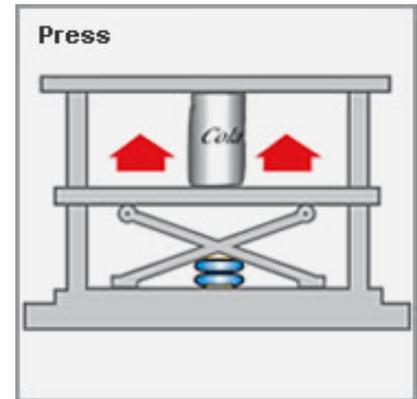
ContiTech air actuators can be used in nearly all branches of industry. Ideal for applications with adverse ambient conditions and high force requirements.

Some applications include:

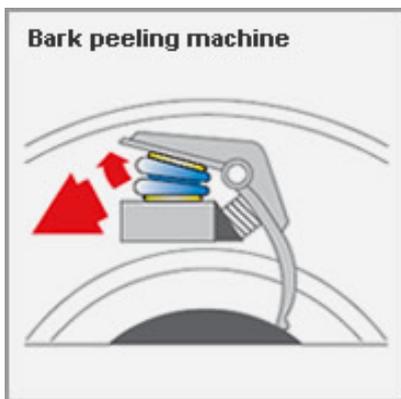
- vehicle applications
- materials handling equipment
- agricultural machinery
- food industry
- paper and textile equipment
- punch and forming presses
- sawmill machinery...



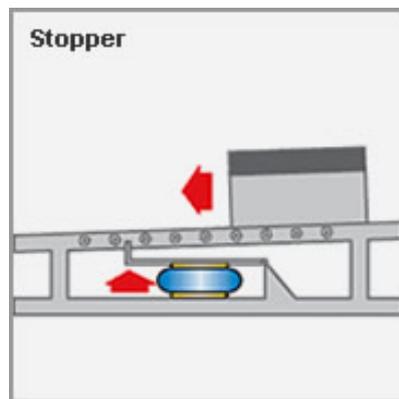
Force can be multiplied several times simply by connecting several air actuators in parallel.



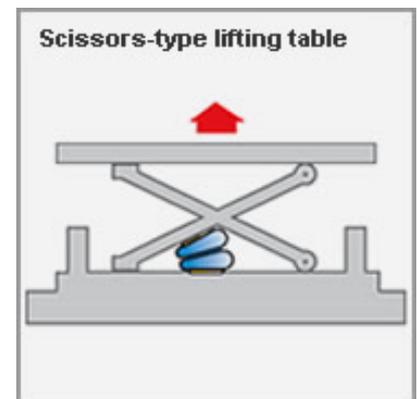
Pressure force is easy to adjust via a wide lift range.



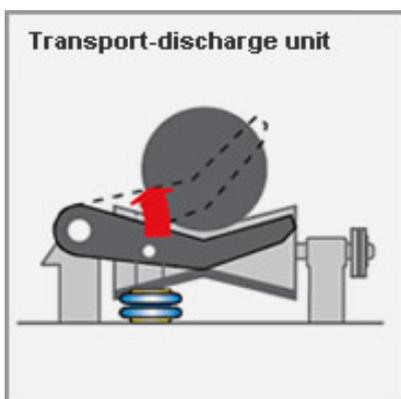
High clamping force and flexibility; long service life despite rough ambient conditions.



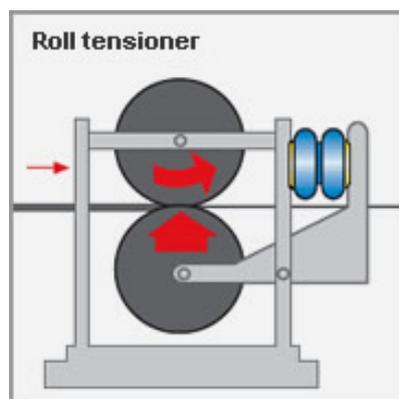
Low minimum height; fast stroke movement.



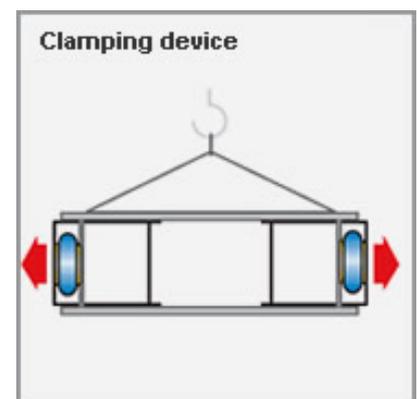
Tilt angles up to 30° possible.



Large stroke; long service life despite rough ambient conditions.



Presses the rolls together. Irregularities in the material to be treated are offset thanks to the spring characteristics of the ContiTech air actuator.



Environmentally hazardous media do not escape in the event the ContiTech air actuator is damaged.

For more detailed information and technical assistance, please contact our Applications Engineering Group.