





Swing damper torque and vehicle angles

Car carrier vehicle



Ball coupling device:

S=1000 kg

Dc = 154 kN

V = 125 kN

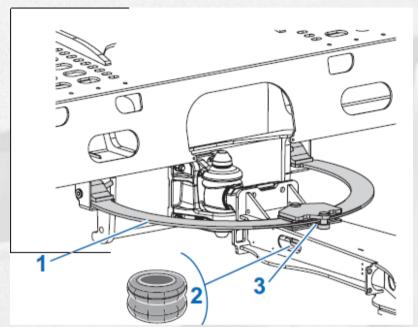
Outer stabilizer ring for yaw oscillation damping

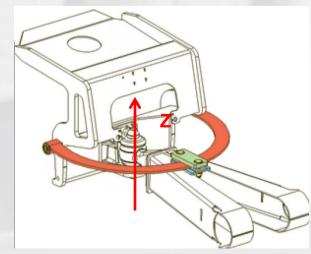
1 - metallic ring with bush mounting to the truck bodywork

- 2 pneumatic load
- 3 friction pads

Pneumatic load is constant and the yaw friction torque is:

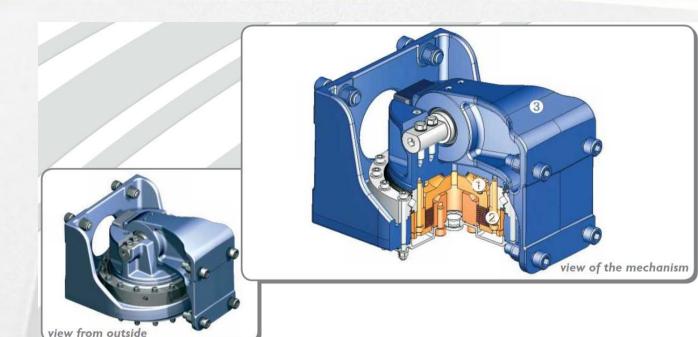
M/z = 2 870 Nm







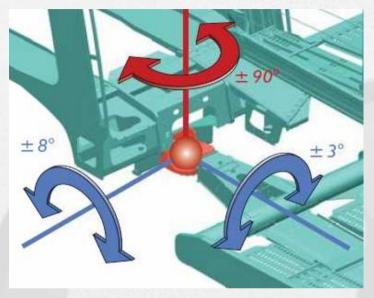
Coupling device
with friction discs
S=1000kg
Dc= 122 kN
V= 93 kN



Friction torque: M/z = 3540 Nm

These new characteristics demonstrate improved handling performances of the equipment. The system is composed of the superimposition of discs (I) compressed by strong springs. The damping (2) action is achieved by the lubricated friction of the discs. The whole system is protected in the casted housing (3).





**Articulation angles** 

	Device angles	Vehicle angle limits
Horizontal angle / vertical	+/- 90°	+/- 90°
Vertical angle / transverse	+/- 8°	+/- 5°
axial angle / longitudinal	+/- 3°	+/- 3°