

Brake calculation data sheet

Agricultural and forestry towed vehicles

Date _____

Inquiry

Order

Calculation as per

§ 41 StVZO (e. g. for national individual approval in Germany)

EU 2015/68 (e. g. for EU type approval)

Calculation for

Already existing air brake systems/components

New air brake systems

1. General data

Company _____ Contact person _____
Customer no. _____ (if available) Phone _____
ZIP-Code and city _____ E-mail _____
Street, house number _____

2. Trailers

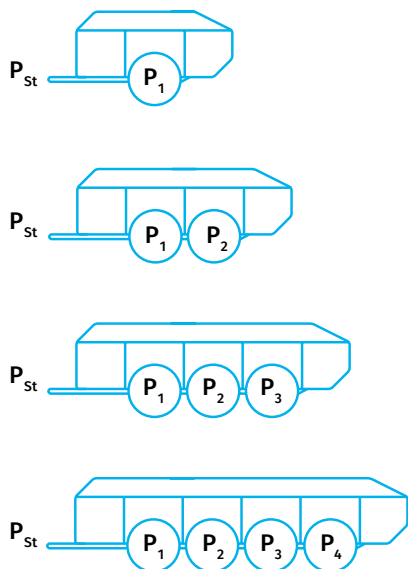
Vehicle manufacturer _____
Vehicle type _____

Max. permissible speed

- ≤ 25 km/h
- ≤ 30 km/h
- ≤ 40 km/h
- ≤ 60 km/h
- > 60 km/h (ABS required)

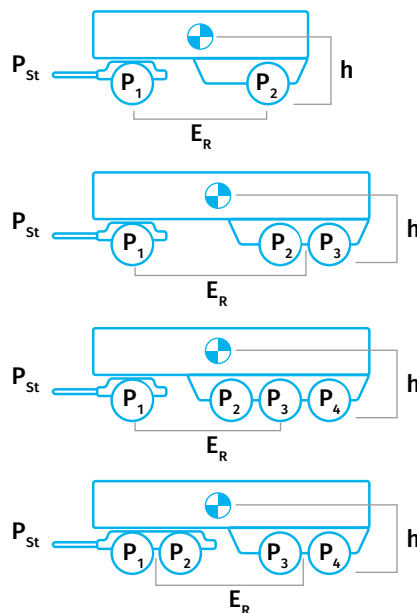
3. Load data

Centre-axle trailer



	unladen	laden
Total mass (P)	_____ kg	_____ kg
Drawbar load (P _{st})	_____ kg	_____ kg
Axle load (P ₁)	_____ kg	_____ kg
Axle load (P ₂)	_____ kg	_____ kg
Axle load (P ₃)	_____ kg	_____ kg
Axle load (P ₄)	_____ kg	_____ kg

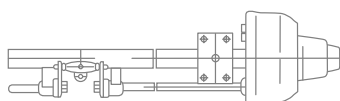
Drawbar trailer



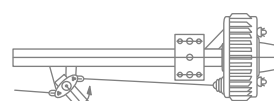
	unladen	laden
Total mass (P)	_____ kg	_____ kg
Drawbar load (P _{st})	_____ kg	_____ kg
Axle load (P ₁)	_____ kg	_____ kg
Axle load (P ₂)	_____ kg	_____ kg
Axle load (P ₃)	_____ kg	_____ kg
Axle load (P ₄)	_____ kg	_____ kg
Centre of gravity height (h)	_____ mm	_____ mm
Existing wheel base (E _R)	_____ mm	_____ mm

4. Brake type

S-cam brake

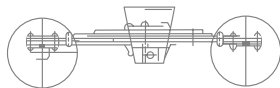


Spread-lever-brake

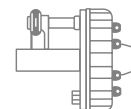


5. Aggregate type

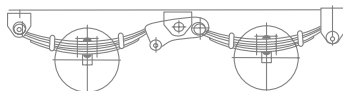
Bogie



Stub-axle



Assembly without dynamic suspension



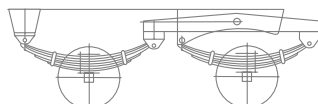
Suspension

mechanical

hydraulic

pneumatic

Assembly with dynamic suspension



Wheel brake manufacturer _____ (BPW, Knott, Peitz, ADR ...)

Wheel brake type _____ (see type label on anchor plate )

Required for brake calculation

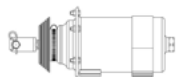
TDB-No. _____ (certificate of wheel brake)

Tyre size and manufacturer _____

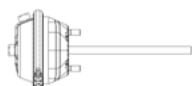
Please specify existing lever lengths _____ mm (see example below)

Required cylinders

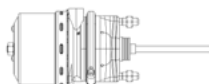
Piston cylinder



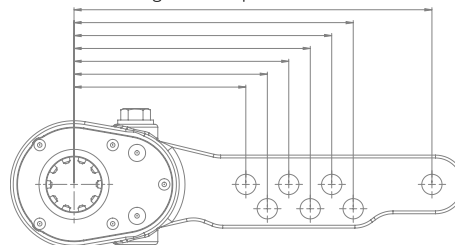
Membran-type cylinder



Spring brake cylinder



Lever lengths examples



Load sensing

Manual control device

Air supply for second trailer (air connection)

Yes

ABS/EBS system

ABS

Automatic load sensing valve

No

EBS

Which axle is braked

Cylinder quantity on this axle

Which axle is braked	Cylinder quantity on this axle		
Axle 1	0	1	2
Axle 2	0	1	2
Axle 3	0	1	2
Axle 4	0	1	2

Any other info you would like to share

Feel free to contact us
if you have any questions.

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