

Figure 1 — Swivel drawbar eye

Table 1— Shapes, dimensions and allowable loads

Vertical load S (kg)	D value (kN)	ECE R55 Class	Swivel drawbar eyes						
			dimensions [mm]						
			d	b	c	e	i	t	h
			±0,5	min	min	max	max	min	±1
≤1000	≤35	r 1	22	40	80	30	30	43	20
≤2000	≤90	r2	35	50	100	60	40	62	30
≤3000	≤120	r3	50	55	140		55	72	35

### 1.1 Trailer shank articulation angles

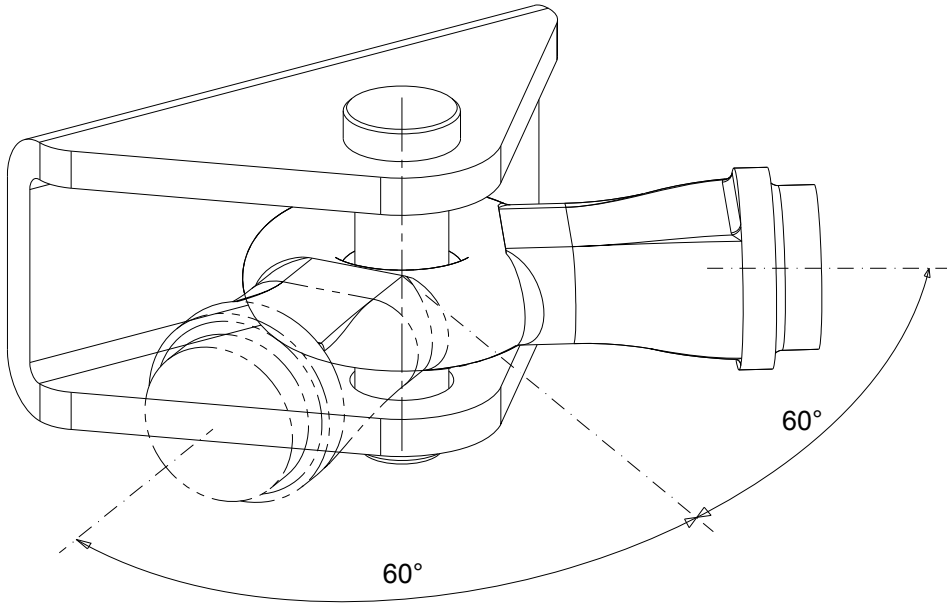
When the trailer shank fitted with the specified hitch ring is fixed to the self-propelled machine attachment, the shank shall be free to turn so that the angles formed with the horizontal situated in the self-propelled machine's plane of symmetry and passing through the coupling point have the following minimum values.

- Angle of yaw:** rotation around a vertical axis passing through the coupling point, minimum value of 60° on both sides (see Figure 3).
- Angle of pitch:** rotation around a horizontal axis passing through the coupling point and perpendicular to the machine's longitudinal plane of symmetry, minimum value 20° top and bottom (see Figure 4).

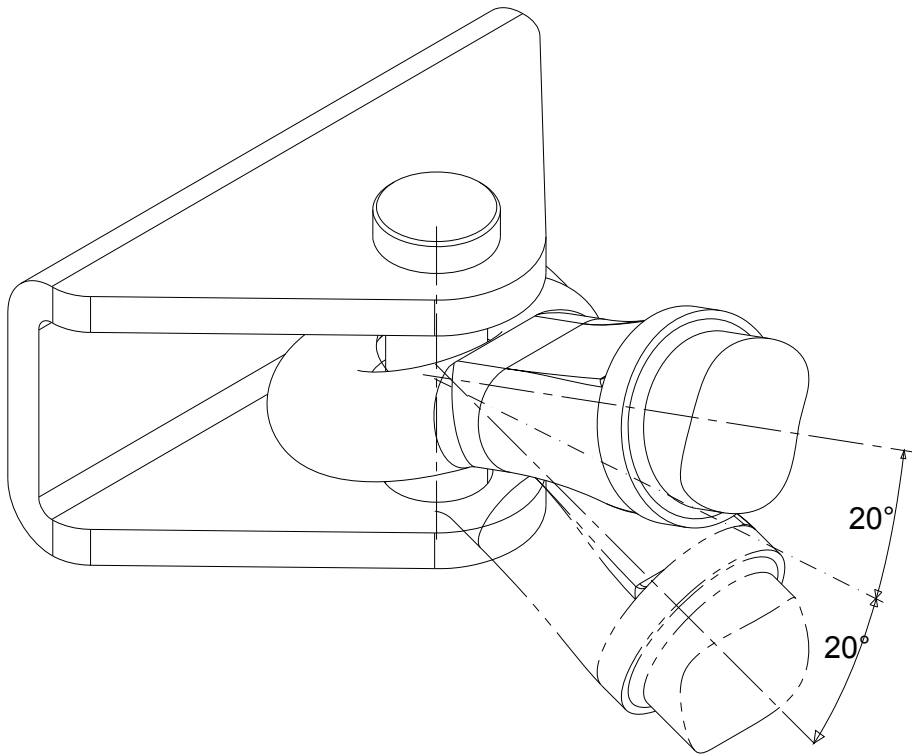
Allowance should be made for the towing vehicle being up to ± 3° from horizontal, due to front/rear tyre sizes.

- Angle of roll:** rotation around a horizontal axis passing through the coupling point and located in the machine's plane of symmetry, minimum value 20° top and bottom (see Figure 5).

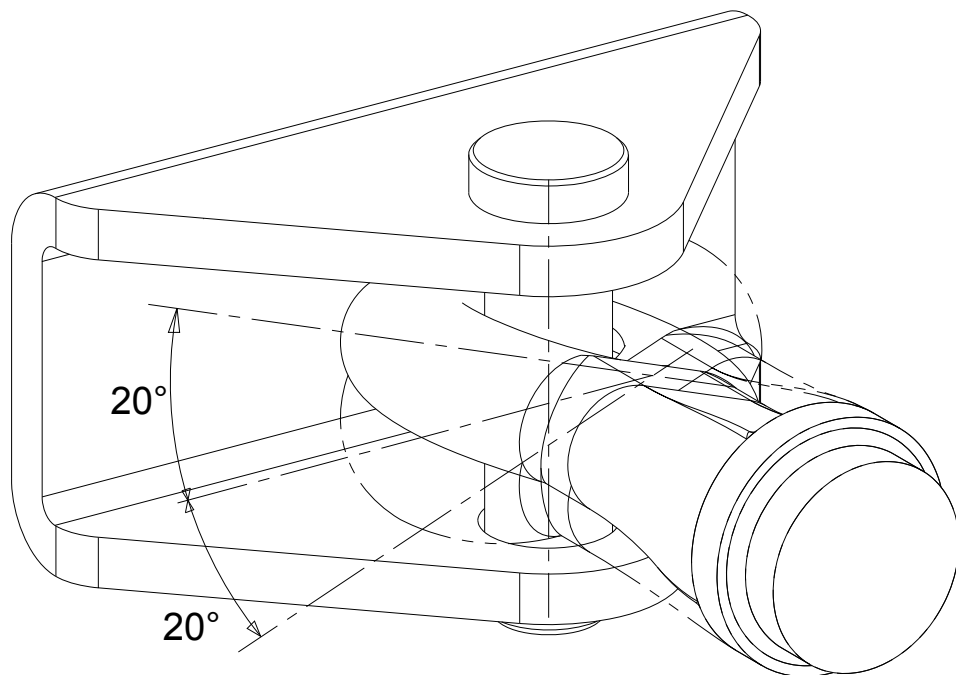
**NOTE: information on standard flange to be added.**



**Figure 1 — Angle of yaw**



**Figure 2 — Angle of pitch**



**Figure 3 — Angle of roll**