

### PRODUCT INFO

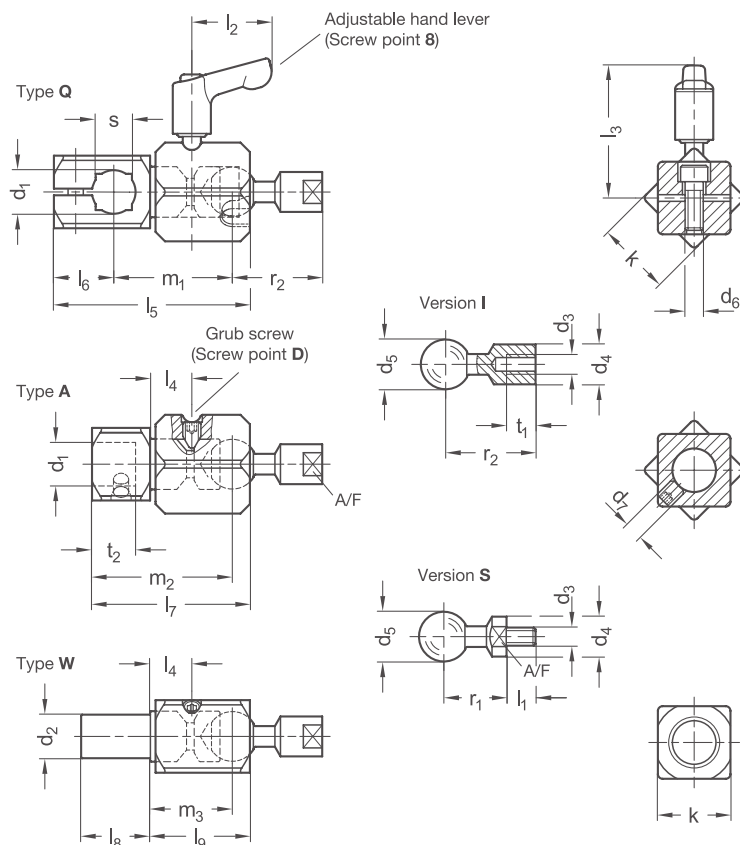
**Swivel ball joint clamp mountings TGK** are made of drawn aluminum profiles and have a clamping point machined by cutting methods.

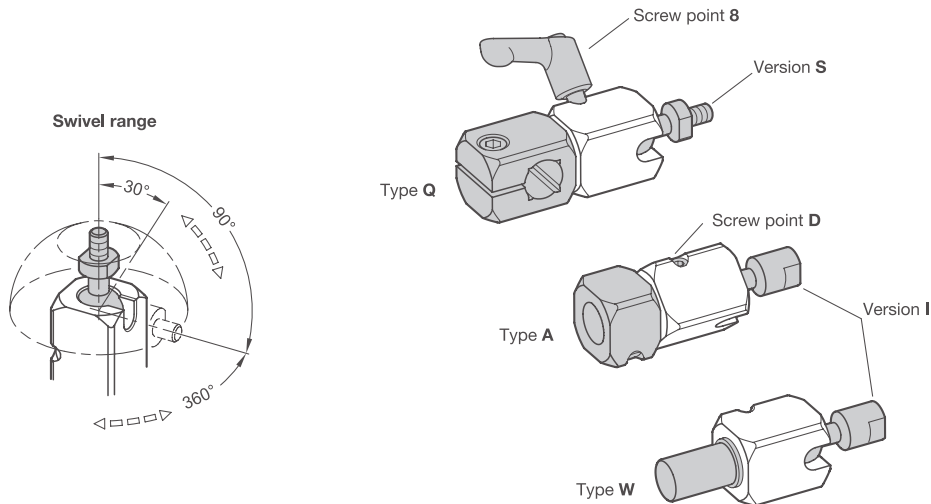
Swivel ball joint clamp mountings allow precise and stepless adjustment of the ball pivot within the swivel range. This makes it easy to position and adjust components such as scanners, cameras and lighting.

Thanks to the efficient clamping mechanism, even small amounts of tightening torque result in comparatively strong clamping forces on the ball. To readjust the joint, the clamping must be completely released. The hand lever can be used to easily operate the clamping mechanism without tools.

For a permanent high stop torque, the contact surfaces of the balls must be kept free of grease. Exceeding the recommended tightening torques increases the stop torque but may result in increased wear of the clamping mechanism.

**RoHS-compliant product**





Clamping point																
d <sub>1</sub> Type A / Q	d <sub>2</sub> Type W	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	d <sub>6</sub>	d <sub>7</sub>	k	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	l <sub>8</sub>	l <sub>9</sub>
B 10	10	M 5	11	14	M 5	M 5	20	8	22	37	11,5	53	15,5	42,5	17	27,5
B 12	12	M 5	11	14	M 5	M 5	20	8	22	37	11,5	54	16,5	43,5	19	27,5
B 15	15	M 6	14	18	M 6	M 6	25	10	22	41	14,5	67,6	20	55,1	21	35,1
B 16	16	M 6	14	18	M 6	M 6	25	10	22	41	14,5	67,6	20	55,6	24	35,1
B 20	20	M 8	15	24	M 6	M 6	30	12	30	50	18,6	81	22	67	26	44

d <sub>1</sub> Type A / Q	d <sub>2</sub> Type W	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>	r <sub>1</sub>	r <sub>2</sub>	s	sw	min t <sub>1</sub>	t <sub>2</sub>	Recommended tightening torque of the clamping (Screw point) in Nm ≈	Resulting stop torque on the ball in Nm ≈
B 10	10	32,7	37,7	22,7	17,3	24,8	8	9	8	10	1,5	4,5
B 12	12	32,7	38,7	22,7	17,3	24,8	10	9	8	12	1,5	4,5
B 15	15	41,8	49,3	29,3	21,5	32,5	12	12	10	15	2,5	6,5
B 16	16	41,8	49,8	29,3	21,5	32,5	-	12	10	16	2,5	6,5
B 20	20	51,3	59,3	36,3	30,8	36,5	16	13	12	16	2,5	10

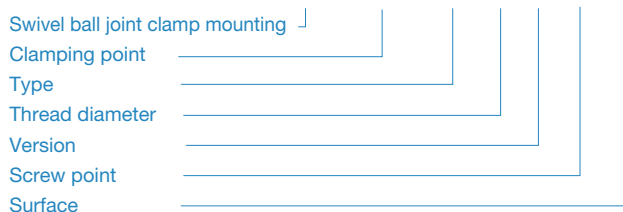
Type t	
Q	With cross hole
W	With bolt, aluminum

Version a	
I	Ball element with internal thread
S	Ball element with external thread

Screw point z	
8	With adjustable hand lever, lever zinc-die-cast textured powder-coated, Silver RAL 9006
D	Grub screw with stainless steel hex socket (DIN 913)

Surface o	
AL	Anodized natural color
S	Anodized black

**ORDER KEY** TGK - d<sub>1</sub> / d<sub>2</sub> - t - d<sub>3</sub> - a - z - o



**ACCESSORIES**

- Retaining tubes **RK** see *catalog page 178*