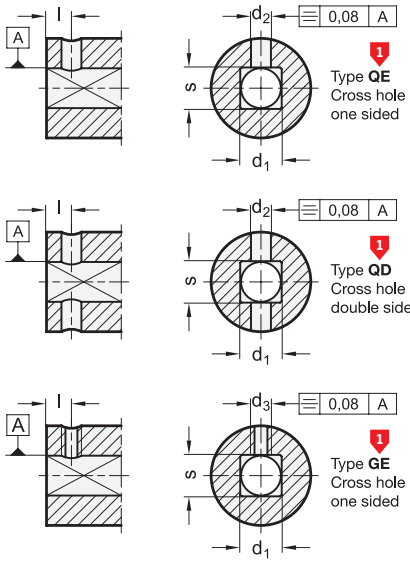
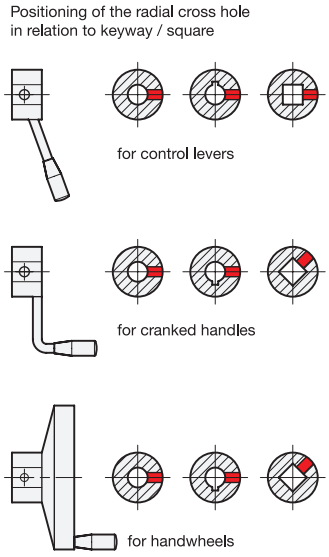
10.4 GN 110 and GN 110.1
Transversal holes

GN 110 – Cross holes for mounting of operating elements on shafts





d1 H7 / **s** H11		**d2** H11	**d3**	Length **l** Standard version	Length **l** Handwheels DIN 950 / GN 949 to Ø 250
6	7	2.5	M 3	4.5	–
8	9	3	M 5	5.5	4.5
10	11	3	M 5	5.5	4.5
12	13	4	M 6	6.5	5.5
14	15	4	M 6	6.5	5.5
16	17	5	M 6	8	7
18	19	5	M 6	8	7
20	21	5	M 6	8	7
22	23	6	M 6	10	9
24	25	6	M 6	10	9
26	27	6	M 6	10	9

Information

The connection between the operating element and the shaft consists very often of a cross pin or a grub screw.

As a result the user is faced with relatively high costs since cross holes on operating elements are in general not readily available.

Components with cross holes to GN 110 are not only offered at very competitive prices but they also save the manufacturer unnecessary drawing work. The geometrical form of some of the operating elements, however, does not lend itself to modification to this particular GN standard.

The pin hole d2 H11 is drilled to suit drive spring pins.

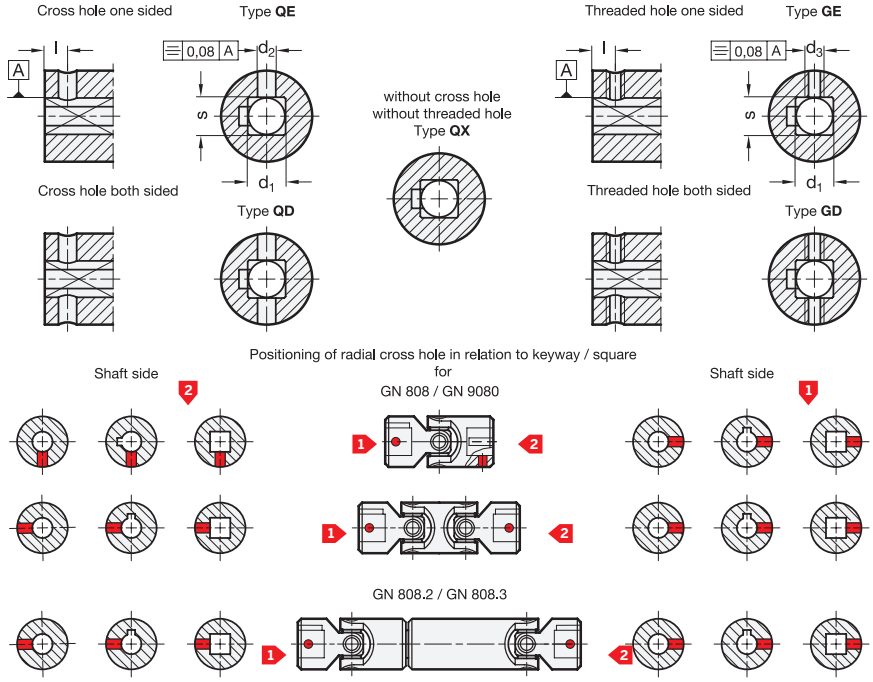
How to order

Handwheel DIN 950-GG-160-B14-A with cross drilled hole

GN 110-QE

Code No. | 1 Type

GN 110.1 – Cross holes for mounting of universal joint shafts and universal joints on shafts



d1 H7 / **s** H11		**d2** H11 for bore code		**d3**	Length **l** for bore code	
		K / V	B		K / V	B
6	–	2	2	M 3	4	4
8	–	3	3	M 5	5.5	5.5
10	–	3	4	M 5	5.5	6
12	14	4	5	M 6	6.5	7
16	18	5	6	M 6	8	9
20	–	5	8	M 6	8	10
22	–	6	8	M 6	10	10
25	–	6	10	M 8	10	14
30	32	6	12	M 8	14	16
35	–	6	12	M 8	16	16

Information

Cross holes in universal joint shafts and in universal shafts are ideal for the production of shaft-hub links using a pin or a thrust screw. For bore holes with a feather key groove or square, they serve to secure the axial position of universal joint and shaft.

The d2 pin bore with H11 tolerance is intended for use with coiled spring pins.

The position of the cross holes / the threaded hole with reference to the hub key slot / the square or of the universal joints is shown in the overview.

Should one of the joint sides be delivered without **transversal holes** / **threaded holes**, this is indicated with **QX** on the desired location of the article number.

How to order

Handwheel DIN 950-GG-160-B14-A with cross drilled hole

GN 110.1-QX-GE

Code No.	Shaft side 1	Shaft side 2