



**MATERIAL**

AlSi 304 stainless steel, matte finish.

**FRICTION BEARINGS**

Self-lubricating bronze.

**STANDARD EXECUTIONS**

- **GN 7237-L**: left fixing.
- **GN 7237-R**: right fixing.

**TECHNICAL DATA**

The maximum load of the multiple joint hinges shown below applies in normal conditions of use and serves as a guide for other applications. The resulting force results in a slight elastic deformation that can be offset using the adjustment options where necessary.

**FEATURES AND APPLICATIONS**

GN 7237 pantograph jointed hinges are installed internally to the doors, shutters, or airtight containers, saving space and protecting against acts of vandalism.

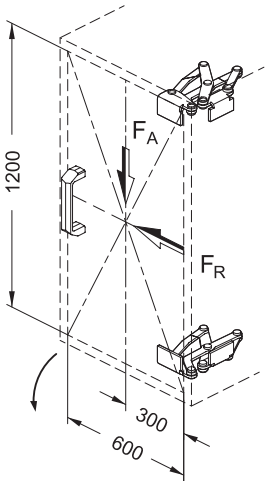
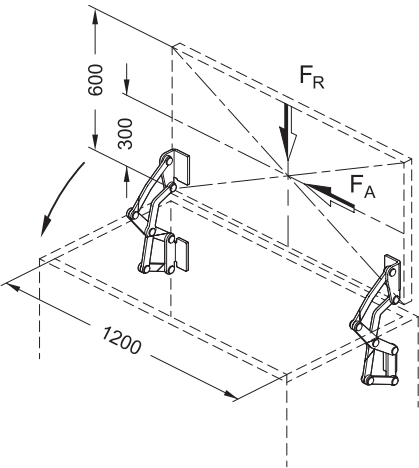
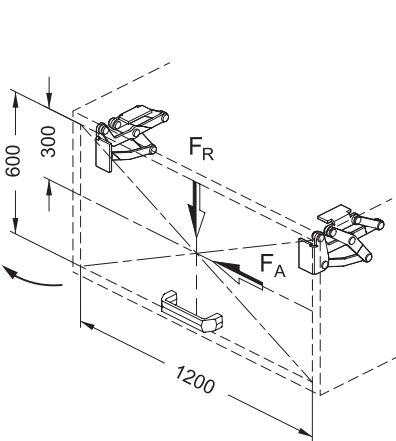
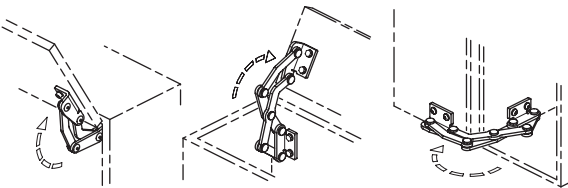
They have a 180° maximum angle of opening, which provides optimal accessibility and avoids blocking open door emergency exits.

The GN 7237 hinges are usually used in pairs. This means that for the opening of one door, a GN 7237-L hinge and a GN 7237-R hinge are used.

For increased loads, for example a large size door, they can be used with additional hinges of both types.

**SPECIAL EXECUTION ON REQUEST**

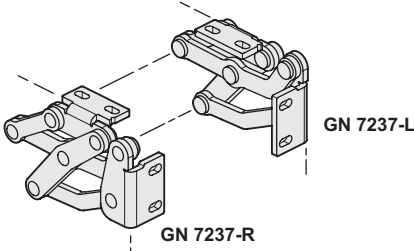
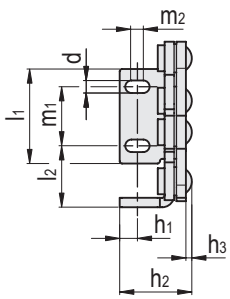
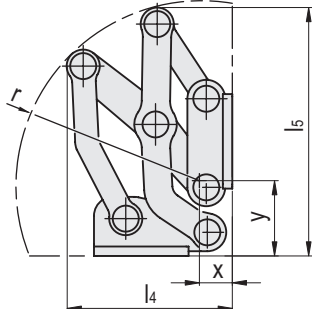
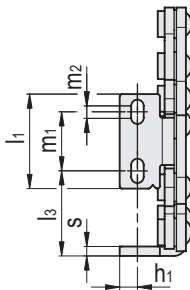
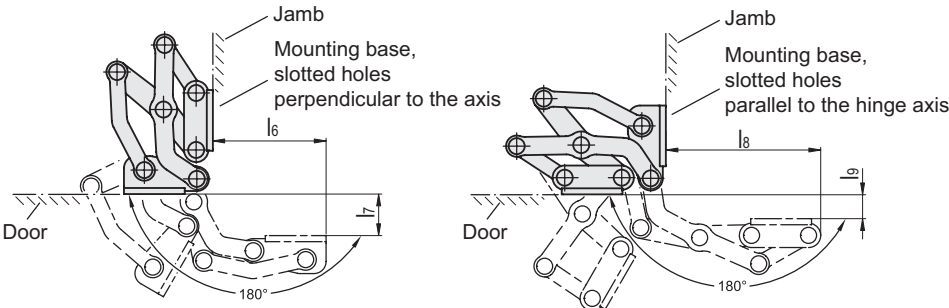
- Multiple joint hinges in various materials and/or finishes.
- Other opening angles.
- Various mounting bases.
- Other raising movements.
- With pneumatic spring connection.



Resistance tests		Axial Stress		Radial Stress	
Description		FA [N]		Fr [N]	
GN 7237-40		175		650	
GN 7237-50		175		750	
GN 7237-60		150		550	

INSTALLATION AND HINGE PIVOT TYPE

The hinge is installed via slotted holes in the mounting base, either perpendicular or parallel to the hinge axis, allowing for two different types of hinge pivot type.



Conversion Table	
1 mm = 0.039 inch	
l1	
mm	inch
40	1.57
50	1.97
60	2.36

GN 7237-L

Code	Description	l1	l2	d	h1	h2	h3	l3	l4	l5	l6	l7	l8	l9	m1	m2	r	s	x	y	Δ
GN.32401	GN 7237-NI-40-L-MT	40	26	5.3	7.5	28	2.5	36	70.1	105.2	74.5	27.4	101.9	16	25	5	78.5	4	13	29.5	250
GN.32405	GN 7237-NI-50-L-MT	50	35	6.5	10	35	2.5	46	92.3	140	102.8	39.3	134.7	27.8	30	6	105	5	18	38	550
GN.32409	GN 7237-NI-60-L-MT	60	40	8.5	12.5	40	2.5	61	116.5	179.5	125.2	51.3	172.2	37.2	36	8	137.5	5	19	47	700

GN 7237-R

Code	Description	l1	l2	d	h1	h2	h3	l3	l4	l5	l6	l7	l8	l9	m1	m2	r	s	x	y	Δ
GN.32403	GN 7237-NI-40-R-MT	40	26	5.3	7.5	28	2.5	36	70.1	105.2	74.5	27.4	101.9	16	25	5	78.5	4	13	29.5	250
GN.32407	GN 7237-NI-50-R-MT	50	35	6.5	10	35	2.5	46	92.3	140	102.8	39.3	134.7	27.8	30	6	105	5	18	38	550
GN.32411	GN 7237-NI-60-R-MT	60	40	8.5	12.5	40	2.5	61	116.5	179.5	125.2	51.3	172.2	37.2	36	8	137.5	5	19	47	700

## DESIGN VARIANTS

The doors or shutters can be inserted, surface-mounted, or angled. The largest shims for the doors/jambs and the fold dimensions for the sheet construction depend on the respective type of installation.

- Hinge fitted to the jamb with base with slotted holes perpendicular to the hinge axis (see fig. 1).
- Hinge fitted to the jamb with base with slotted holes parallel to the hinge axis (see fig. 2).

The design variants indicated in fig. 1 and fig. 2 represent the standard installation conditions.

If the hinge installation position is changed or one of the two wall shim dimensions is smaller, the maximum obtainable dimensions change independently of each other. In some cases this allows for working with wall shim dimensions that are greater than specified when the hinge dimensions remain the same.

However, it is recommended to check the design with CAD or a configuration test.

## ADJUSTMENT AND FIXING OPTIONS

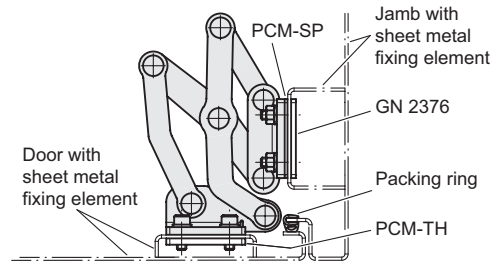
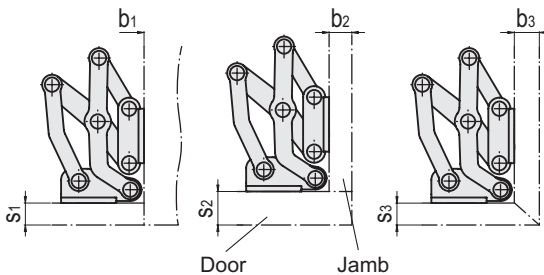
The jointed hinges can be adjusted on three different planes during installation.

This allows for:

- tolerance adjustment or determination of the compression force required by the packing ring;
- adjustment on the two fixing planes via the parallel or perpendicular slotted holes in the mounting base;
- correction of the positioning via the spacer plates for hinges in stainless steel PCM-SP (see page -).

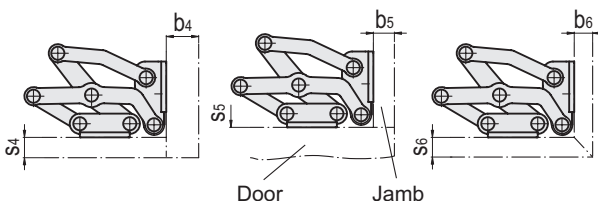
Also available to fix the hinges are spacer plates with threaded holes PCM-TH (see page -) and plates for jointed hinges GN 2376 (see page -). The latter can also be welded or inserted from outside the jamb and fixed in position.

Fig.1



Description	S1 max.	b1	S2 max.	b2 max.	S3 max.	b3 max.
GN 7237-40	13	1 ... ∞	24	10	10	10
GN 7237-50	19	1 ... ∞	34	17	16	16
GN 7237-60	25	1 ... ∞	44	24	21	21

Fig.2



Description	S4 max.	b4 max.	S5	b5 max.	S6 max.	b6 max.
GN 7237-40	9	27	1 ... ∞	13	10	10
GN 7237-50	17	35	1 ... ∞	19	16	16
GN 7237-60	23	45	1 ... ∞	25	21	21

