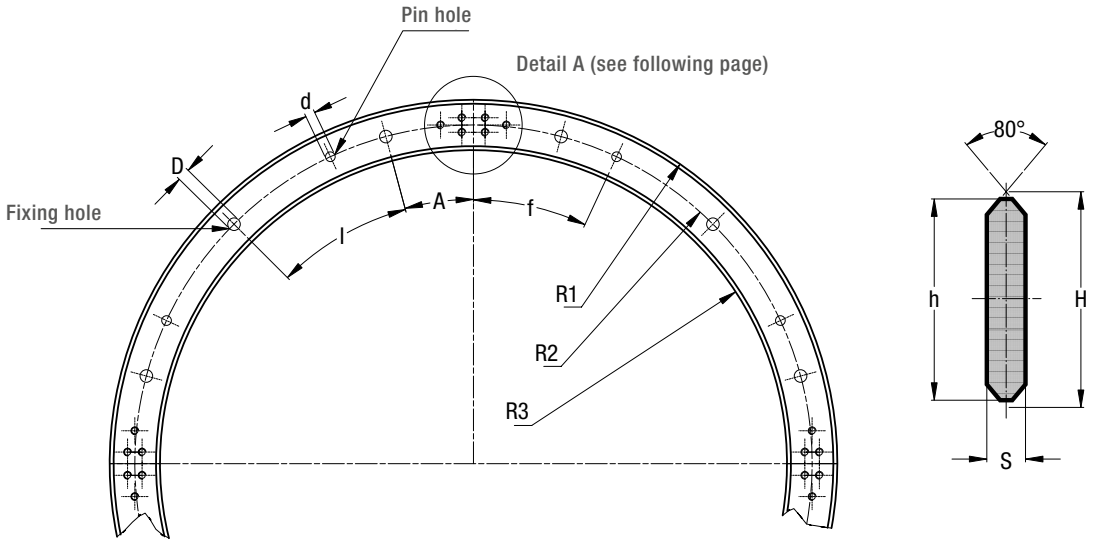
CIRCULAR RAILS FSR ... M

Circular rail in steel.

Available in stainless steel version. NX



Type	Dimensions (mm)											n° fixing holes / 360°	n° pin holes / 360°
	A	l	f	d H7	D	R1 1)	R2 1)	R3 1)	h	H	S		
FSR 22 M 075	22.5°	45°	45°	5	6.5	88	75	62	26	27.86	5	8	4
FSR 22 M 125	15°	30°	25°	5	6.5	138	125	112	26	27.86	5	12	8
FSR 22 M 175	15°	30°	25°	5	6.5	188	175	162	26	27.86	5	12	8
FSR 35 M 225	11.25°	22.5°	7.5°	8	9	248	225	202	46	47.86	8	16	8
FSR 35 M 300	11.25°	22.5°	7.5°	8	9	323	300	277	46	47.86	8	16	8
FSR 47 M 400	9°	18°	18°	10	11.5	438	400	362	76	78.58	10	20	8
FSR 47 M 500	9°	18°	18°	10	11.5	538	500	462	76	78.58	10	20	8

1) R1, R2, R3 are radius

RAILS FINISHING

- Steel
- Induction hardened on the raceways

HOLE LAYOUT

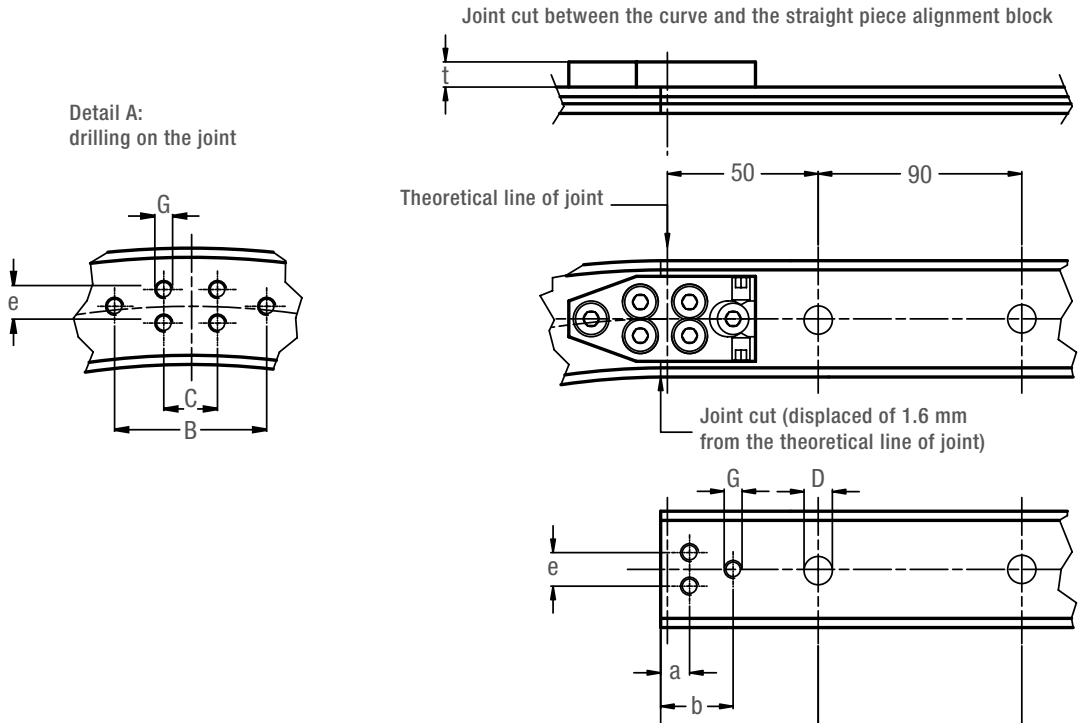
- Holes according to catalogue (SB)
- Finishes to drawing (NZ)

OPTIONAL FEATURES

- Stainless steel (NX)
- Nickel plating (NW)
- Spacers for rails FS and FSH

Example of standard designation: FSR 35 M 225 180
Circular rail sector FSR 35 M, radius R2 225 mm, sector angle 180°

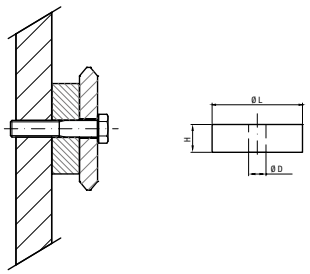
MULTI-MOTION-LINE – FSR SYSTEM
ALIGNMENT BLOCKS FOR FSR



Type	Dimensions (mm)								Suggested combinations
	C	B	e	G	D	a	b	t	
FSR 22 M 075	12	34	7.5	M4	6.5	7.6	18.6	5.8	FR 22 EU, FRN 22 EI
FSR 22 M 125	12	34	7.5	M4	6.5	7.6	18.6	5.8	FR 22 EU, FRN 22 EI
FSR 22 M 175	12	34	7.5	M4	6.5	7.6	18.6	5.8	FR 22 EU, FRN 22 EI
FSR 35 M 225	18	38	20	M6	9	10.6	19.6	8	FR 32 EU, FRN 32 EI, FR 40 EU, FRN 40 EI
FSR 35 M 300	18	38	20	M6	9	10.6	19.6	8	FR 32 EU, FRN 32 EI, FR 40 EU, FRN 40 EI
FSR 47 M 400	18	58	43	M6	11.5	8.6	18.1	9	FR 40 EU, FRN 40 EI, FR 52 EU, RKY 52
FSR 47 M 500	18	58	43	M6	11.5	8.6	18.1	9	FR 40 EU, FRN 40 EI, FR 52 EU, RKY 52

The joint cut is displaced of 1.6 mm from the theoretical line of joint.
The alignment block allows an easy mounting of the joint.

SPACERS FOR FSR

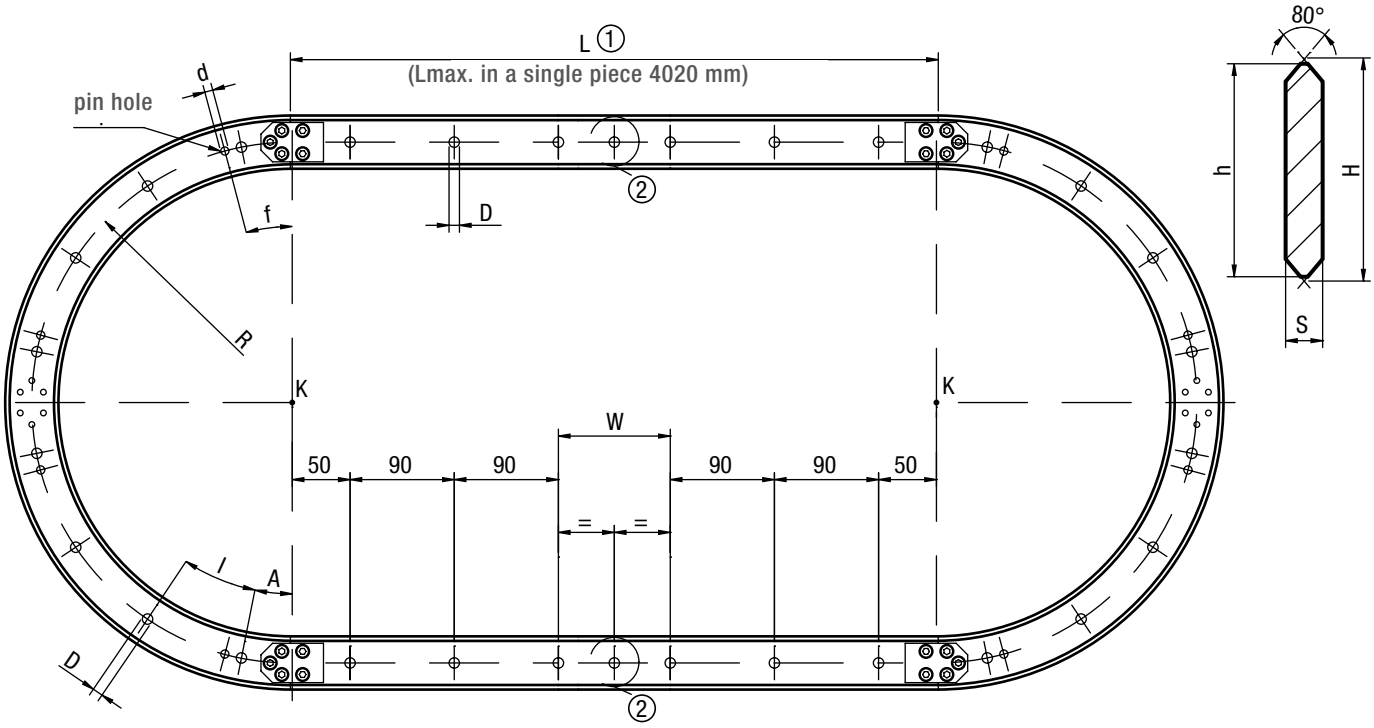


Spacers DIST FS can be used to mount the rails FSR (spacers for rails FS and FSH). See page 61

OVAL CIRCUIT FSRO

Oval circuit composed of linear and circular pieces of rail.

Available in stainless steel version. NX



Type				Dimensions (mm)					
	A	I	f	Radius R	D	d H7	S	h	H
FSRO 22 M 075 ...	22.5°	45°	45°	75	6.5	5	5	26	27.86
FSRO 22 M 125 ...	15°	30°	25°	125	6.5	5	5	26	27.86
FSRO 22 M 175 ...	15°	30°	25°	175	6.5	5	5	26	27.86
FSRO 35 M 225 ...	11.25°	22.5°	7.5°	225	9	8	8	46	47.86
FSRO 35 M 300 ...	11.25°	22.5°	7.5°	300	9	8	8	46	47.86
FSRO 47M 400 ...	9°	18°	18°	400	11.5	10	10	76	78.58
FSRO 47M 500 ...	9°	18°	18°	500	11.5	10	10	76	78.58

The oval circuit is composed by: two sectors of circular rails (180° with center in K) and two straight pieces of rails. The circuit is supplied complete of alignment blocks (with the proper screws), and all the pieces are marked in order to obtain the correct sequence during the mounting.

① The length of the straight pieces is higher than the distance between the centers K (1.6 mm x 2) in order to cover the thickness of rail lost during the cutting of the circular sectors.

STANDARD HOLE LAYOUT (SB) FOR THE STRAIGHT RAILS

- First and last hole of 50 mm, starting from the centers K
- Hole pitch 90 mm
- Central hole ② only if the last hole pitch W is ≥ 120 mm
- The W pitch can not be less than 60 mm

RAILS FINISHING

- Circular rail FSR ... M
- Guide rail FS ... M
- Aligment blocks for FSR

HOLE LAYOUT

- Standard holes according to catalogue (SB)
- Finishes to drawing (NZ)

OPTIONAL FEATURES

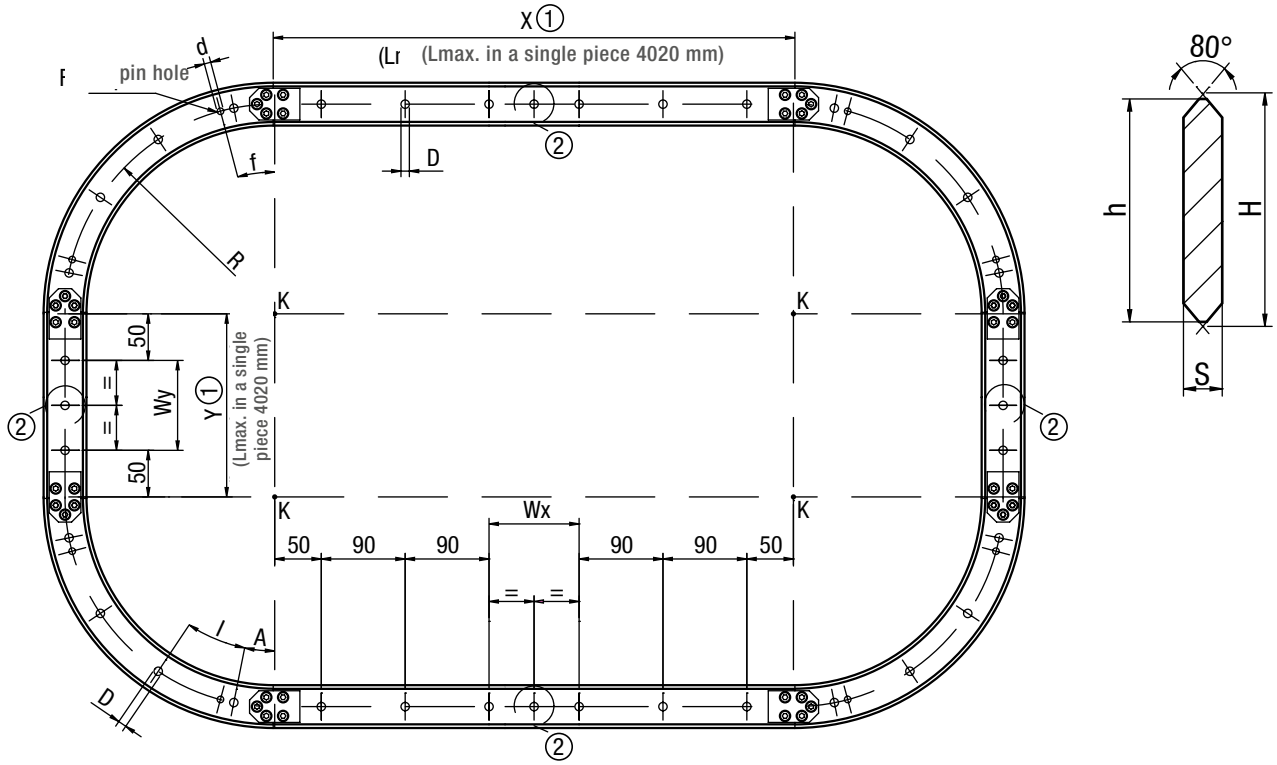
- Stainless steel (NX)
- Nickel plating (NW)

Example of standard designation: FSRO 35 M 225 2000 SB
Oval circuit, size 35, radius 225 mm, distance between the centers K equal to 2000 mm ①, standard holes.

MULTI-MOTION-LINE – FSR SYSTEM
RING CIRCUIT FSRQ

Ring circuit composed of linear and circular pieces of rail.

Available in stainless steel version. NX



Type				Dimensions (mm)					
	A	l	f	Radius R	D	d H7	S	h	H
FSRQ22 M 075 ...	22.5°	45°	45°	75	6.5	5	5	26	27.86
FSRQ22 M 125 ...	15°	30°	25°	125	6.5	5	5	26	27.86
FSRQ22 M 175 ...	15°	30°	25°	175	6.5	5	5	26	27.86
FSRQ35 M 225 ...	11.25°	22.5°	7.5°	225	9	8	8	46	47.86
FSRQ35 M 300 ...	11.25°	22.5°	7.5°	300	9	8	8	46	47.86
FSRQ47 M 400 ...	9°	18°	18°	400	11.5	10	10	76	78.58
FSRQ47 M 500 ...	9°	18°	18°	500	11.5	10	10	76	78.58

The ring circuit is composed by: four sectors of circular rails (90° with center in K) and four straight pieces of rails. The circuit is supplied complete of alignment blocks (with the proper screws), and all the pieces are marked in order to obtain the correct sequence during the mounting.

① The length of the straight pieces is higher than the distance between the centers K (1.6 mm x 2) in order to cover the thickness of rail lost during the cutting of the circular sectors

STANDARD HOLE LAYOUT (SB) FOR THE STRAIGHT RAILS

- First and last hole at 50 mm, starting from the centers K
- Hole pitch 90 mm
- Central hole ② only if the last hole pitch
  (Wx in horizontal and Wy in vertical) is ≥ 120 mm
  (Wx in horizontal and Wy in vertical) cannot be < 60 mm

RAILS FINISHING

- Circular rail FSR ... M
- Guide rail FS ... M
- Aligment blocks for FSR

HOLE LAYOUT

- Standard holes according to catalogue (SB)
- Finishes to drawing (NZ)

OPTIONAL FEATURES

- Stainless steel (NX)
- Nickel plating (NW)

Example of standard designation: FSRQ 35 M 225 2000 1000 / SB
Ring circuit, size 35, radius 225 mm, horizontal distance between the centers K equal to 2000 mm ①, vertical distance between the centers K equal to 1000 mm ①, standard holes.