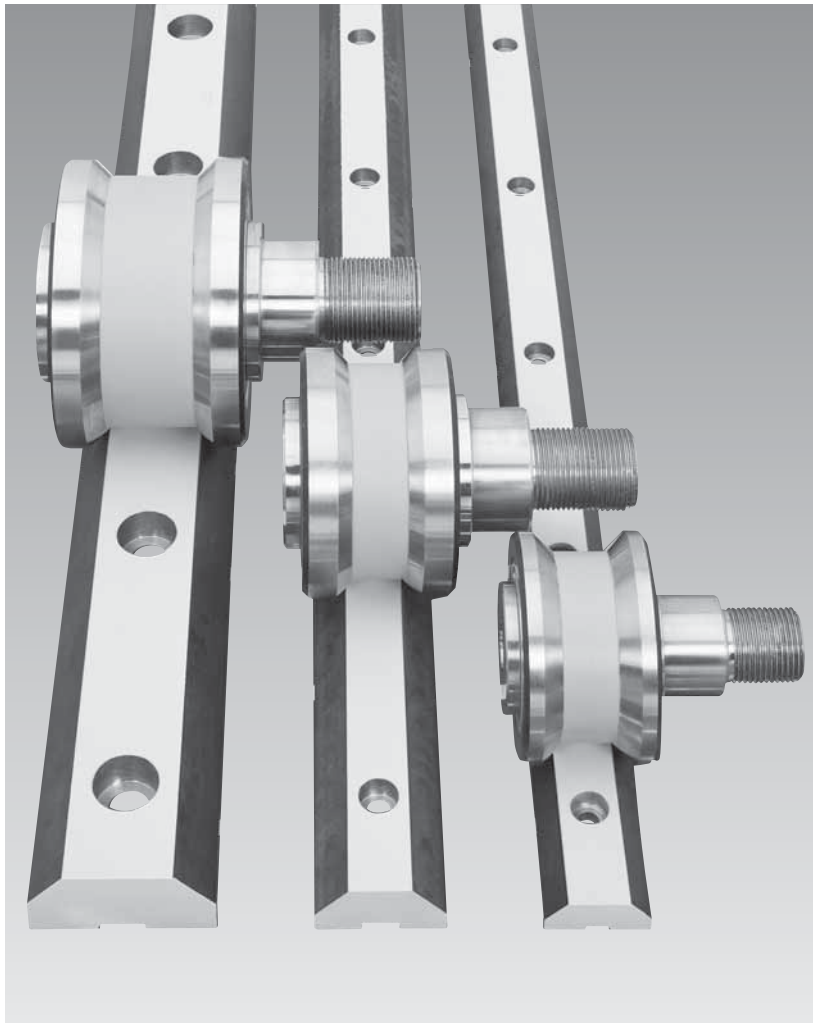
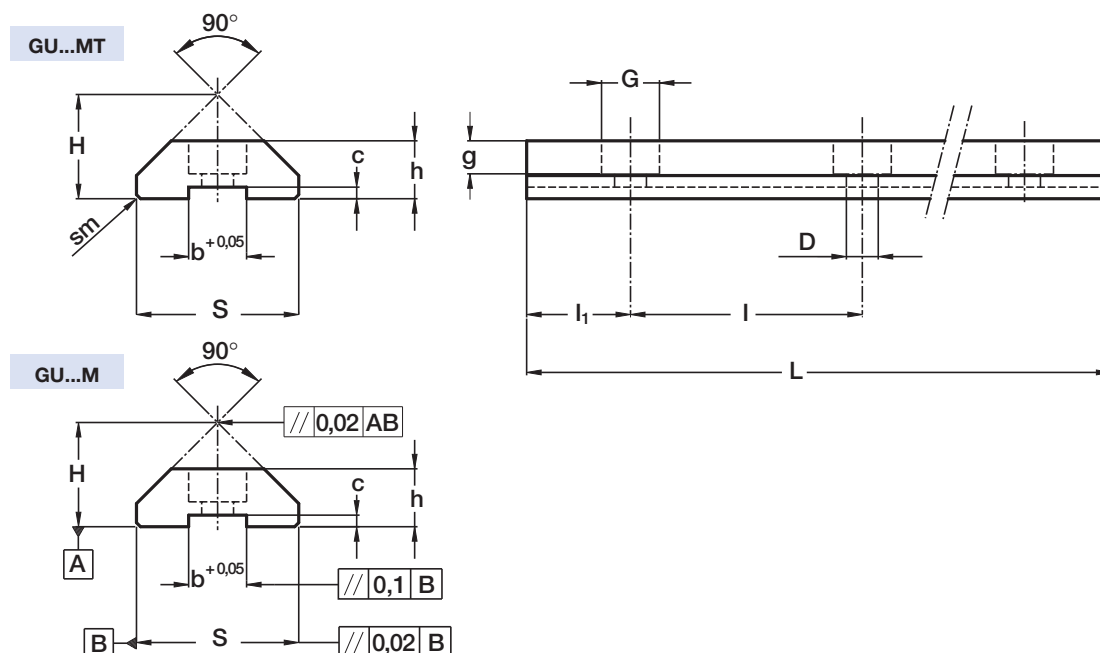


Heavy-Line

GU System





The **longitudinal slot**, made with + 0.05 tolerance, permits using reference elements SAG for guide positioning.

Type	Dimensions (mm)											Weight (kg/m) ⁽²⁾
	H ± 0.05	h ± 0.05	S ± 0.05	D + 0.1	G	g	b + 0.05	c ± 0.05	sm	I	I ₁	
GU 28 MT	19	11	28.8	5.5	10	5.7	10	2.5	0.7x45°	90	30	1.97
GU 35 MT	23.9	15.7	35.5	6.6	11	6.8	10	3.8	1x45°	90	30	3.35
GU 50 MT	35.5	21	50.8	11	18	11	16	4.3	1x45°	90	30	6.89

max length in single element L=6 000 mm (1)

Type	Dimensions (mm)										Weight (kg/m) ⁽²⁾
	H ± 0.05	h ± 0.05	S ± 0.05	D + 0.1	G	g	b + 0.05	c ± 0.05	l	l ₁	
GU 28 M	18	10	28	5.5	10	5.7	10	2	90	30	1.8
GU 35 M	23	15	35	6.6	11	6.8	10	3.3	90	30	3.2
GU 50 M	34.5	20	50	11	18	11	16	3.8	90	30	6.8
max length in single element L=4 020 mm (1)											

(1) Longer rails are supplied in sections with ground butt joints - (2) Weight without holes

Rails finishing

- drawn, induction hardened and sandblasted tracks (**MT**);
- drawn, induction hardened and ground (**M**)
- Induction hardening on raceways only

Hole layout

- holes according to catalogue (**SB**)
- finishes to drawing (**NZ**)
- without holes (**NF**)

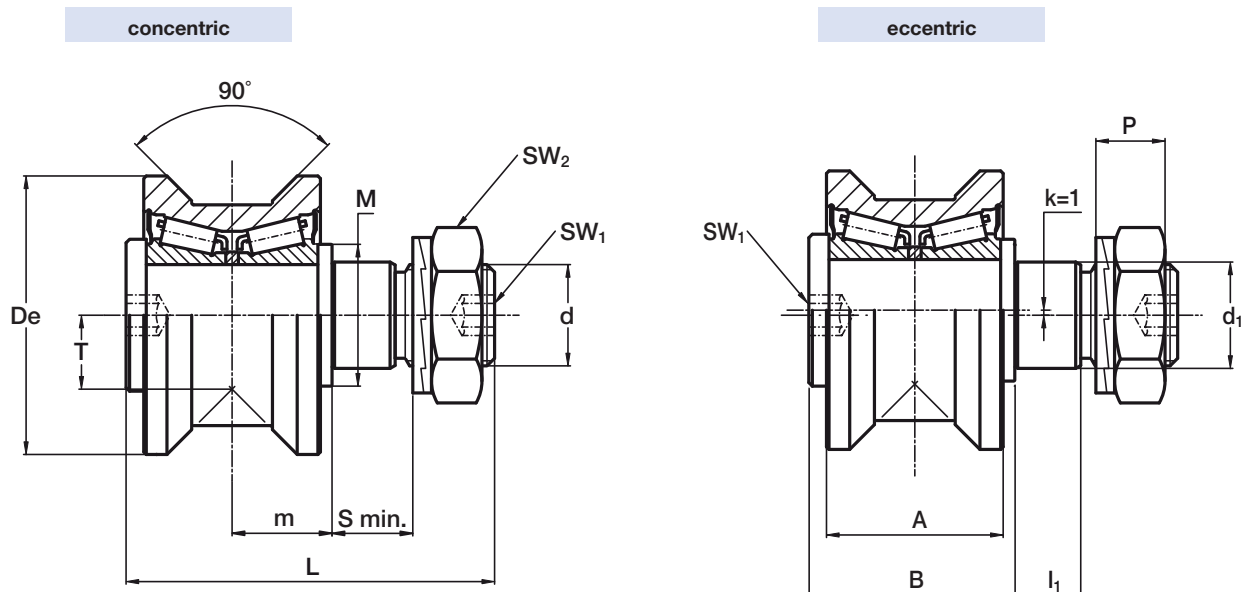
Optional features

- ground one end (**R**)
- ground both ends (**RR**)
- chemical Nickel-plating (**NW**)

Example of standard designation: **GU 35 MT 4300 SB**

See page 17 for standard codification

Guide rollers RKU



The sides of the race are convex with radius **R = 400**.

Type		Dimensions (mm)														
concentric	eccentric	De	d ₁ ⁽¹⁾	d	T	m	S min.	P	L	A	B	I ₁	M	SW ₁	SW ₂	k
RKU 55	RKUR 55	55	21	M 20 x 1.5	14.6	19.8	15	13.4	73	35	41	14	28	8	30	1
RKU 65	RKUR 65	65	27	M 24 x 1.5	18.7	20.8	19	15.4	83	37	44	18	35	10	36	1
RKU 75	RKUR 75	75	36	M 30 x 1.5	23.7	27	19	21.6	100	45	55	18	44	12	46	1
RKU 95	RKUR 95	95	38	M 36 x 1.5	25.5	30.8	24	24.6	115	53 ⁽⁵⁾	62	23	50	14	55	1
RKU 115	RKUR 115	115	42	M 36 x 1.5	33.5	34	33	24.6	135	60 ⁽⁵⁾	70	32	56	14	55	1

Type		Dynamic load (N)	Limit loads (N)		Life coefficients		Torque wrench ⁽²⁾ settings (Nm)	Weight (kg)
		C _w ⁽⁶⁾	radial F _r	axial F _a	X	Y		
RKU 55	RKUR 55	41 650	11 900	4 250	1	3.42	80	0.6
RKU 65	RKUR 65	46 800	22 100	6 800	1	3.06	160	0.9
RKU 75	RKUR 75	66 700	31 300	10 100	1	2.95	300	1.6
RKU 95	RKUR 95	116 800	43 700	12 600	1	3.74	450	2.8
RKU 115	RKUR 115	182 450	55 600	17 900	1	3.64	450	4.9

1) Housing bore tolerance: H7

2) The torque wrench settings are given for non-lubricated threads; for lubricated threads, multiply figure by 0.8

3) Standard seals: material NBR, RS type

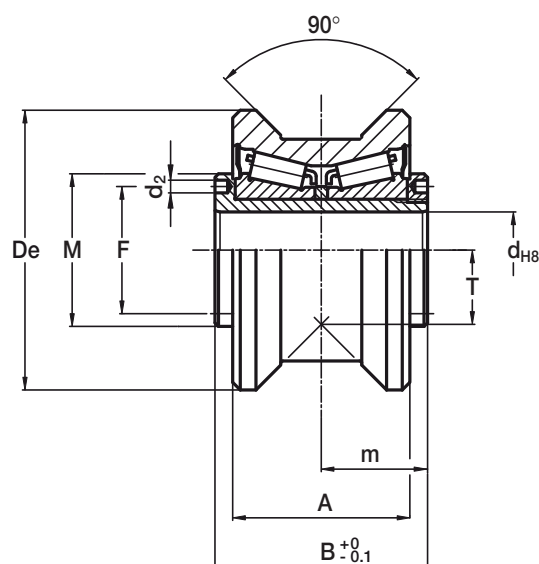
4) On request, the guide rollers can be supplied with external parts in stainless steel (suffix **NX**) and with Viton seals for operating temperatures up to 120°C (suffix **V**, not available for RKU 115). Internal rolling elements in standard bearing steel.

5) Dimensions relating to the stainless-steel rollers (suffix **NX**)

6) C_w basic load for 100 km

7) The guide rollers include self-locking washers and hexagonal nut (DIN 439B) for fitting

8) Pressure angle α for load calculation: 45°



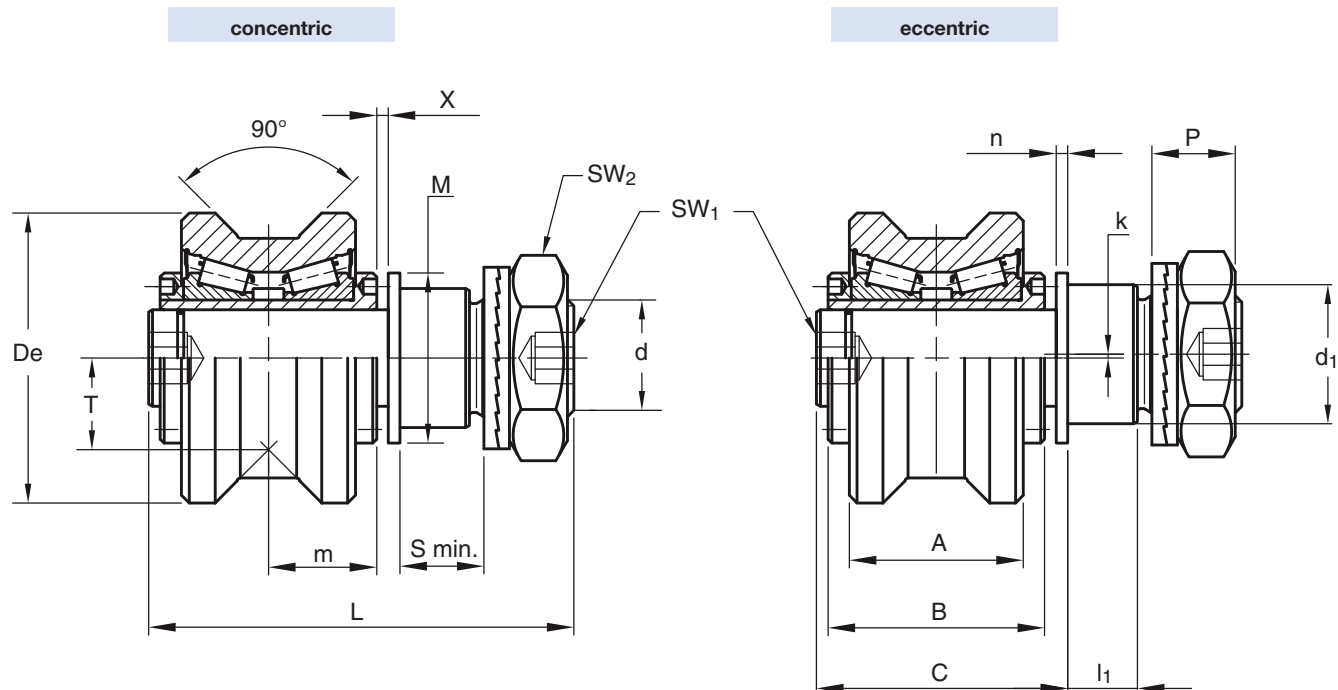
The sides of the race are convex with radius **R = 400**.

Type	Dimensions (mm)								
	De	d	T	m	A	B	F	d ₂ ⁽⁴⁾	M
FKU 55	55	15	14.6	21	35	42	25	2.5	30
FKU 65	65	20	18	22.5	37	45	29	3	35
FKU 75	75	25	23.7	28	45	56	37	4	44
FKU 95	95	28	25.5	32	53	56 ⁽²⁾	42	4	49
FKU 115	115	35	33.5	36	60	63 ⁽²⁾	52	4	59

Type	Dynamic load (N)	Limit loads (N)		Life coefficients		Weight (kg)
	C _w ⁽³⁾	radial F _r	axial F _a	X	Y	
FKU 55	41 650	11 900	4 250	1	3.42	0.5
FKU 65	46 800	22 100	6 800	1	3.06	0.6
FKU 75	66 700	31 300	10 100	1	2.95	1.2
FKU 95	116 800	43 700	12 600	1	3.74	2.3
FKU 115	182 450	55 600	17 900	1	3.64	3.9

- 1) On request, the guide rollers can be supplied with external parts in stainless steel (suffix **NX**) and with Viton seals for operating temperatures up to 120°C (suffix **V** not available for FKU 115). Internal rolling elements in standard bearing steel
- 2) Dimensions relating to the stainless-steel rollers (suffix **NX**)
- 3) C_w basic load for 100 km
- 4) To prevent rotation between roller and shaft a pin can be fitted in one of the holes "d₂" positioned in the side flange
- 5) Pressure angle α for load calculation: 45°
- 6) Standard seals: material NBR, RS type

Floating guide rollers RKUL



Type		Dimensions (mm)																	
concentric	eccentric	De	d ₁ ¹⁾	d	T	m	n	X	S min.	P	L	A ⁴⁾	B	C	l ₁	M	SW ₁	SW ₂	k
RKUL 55	RKULR 55	55	21	M 20 x 1.5	14.6	21.0	3	3	15	13.4	83	35	42	51	14	30	8	30	1
RKUL 65	RKULR 65	65	27	M 24 x 1.5	18.0	22.5	3	3	19	15.4	93	37	45	54	18	35	10	36	1
RKUL 75	RKULR 75	75	36	M 30 x 1.5	23.7	28.0	3	3	19	21.6	110	45	56	65	18	44	12	46	1
RKUL 95	RKULR 95	95	38	M 36 x 1.5	25.5	32.0	4	3.5	24	24.6	128	53	56 ⁴⁾	64	23	49	14	55	1
RKUL 115	RKULR 115	115	42	M 36 x 1.5	33.5	36.0	4	3.5	33	24.6	148	60	63 ⁴⁾	72	32	59	14	55	1

Type		Dynamic load (N)	Limit load (N)	Torque wrench settings ²⁾ (Nm)	Weight (g)
		C _w ³⁾	radial F _r		
RKUL 55	RKULR 55	41650	3050	80	800
RKUL 65	RKULR 65	46800	6850	160	1100
RKUL 75	RKULR 75	66700	11200	300	1800
RKUL 95	RKULR 95	116800	13800	450	3000
RKUL 115	RKULR 115	182450	24000	450	5100

1) Housing bore tolerance: H7

2) The torque wrench settings are given for non-lubricated threads; for lubricated threads multiply figure by 0.8

3) C_w = Basic load for 100 KM

4) Dimensions for stainless steel (NX) version

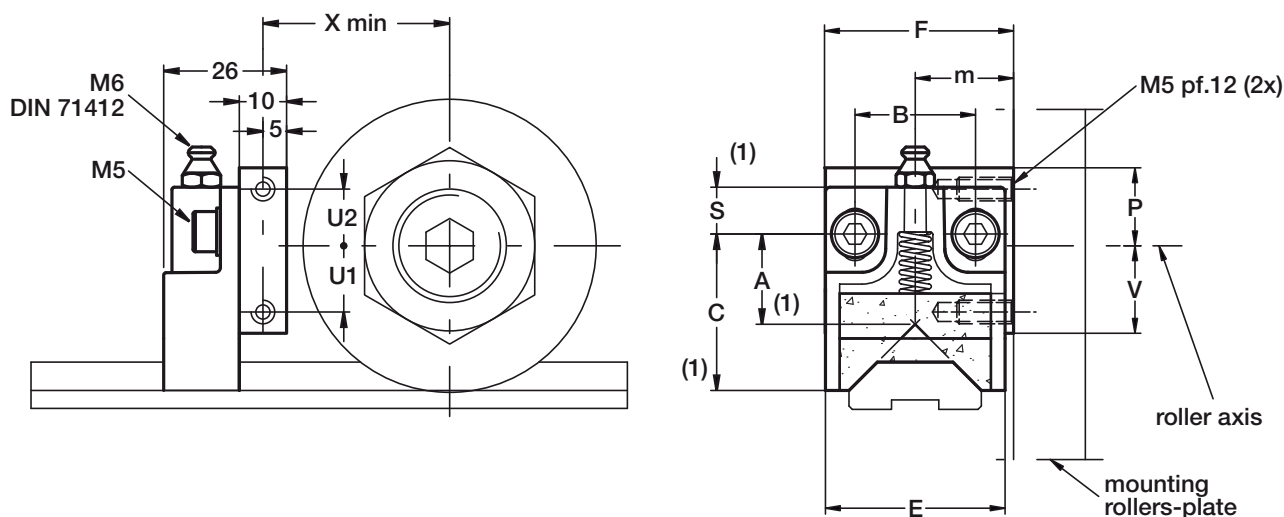
On request the guide rollers can be supplied with external parts in stainless steel (suffix **NX**). Internal rolling elements in standard bearing steel

Standard seals: material NBR, RS type

On request guide rollers can be supplied with Viton seals for operating temperatures up to 120°C (suffix **V**, not available for RKUL 115)

The guide rollers include self-locking washers and hexagonal nut (DIN 439B) for fitting

Pressure angle α for load calculation: 45°



Type	Dimensions (mm)												Weight (g)	Suggested combinations
	X	U1	U2	F	m	B	S	C	A	E	V	P		
LUBU 55	35	12	14	40	19.8	25.5	10	34	20	38	16.5	18.5	65	RKU 55 RKUR 55 FKU 55
LUBU 65	40	14	12	40	20.8	25.5	10	34	20	38	18.5	16.5	65	RKU 65 RKUR 65 FKU 65
LUBU 75	45	19	11	50	27	25.5	1	43	25.4	44	24	16	85	RKU 75 RKUR 75 FKU 75
LUBU 95	55	21	9	60	30	30	16.5	50	24.9	58	31	19	140	RKU 95 RKUR 95 FKU 95
LUBU 115	65	30	0	63	34	30	16.5	50	24.9	58	40	10	140	RKU 115 RKUR 115 FKU 115

1) The dimension of the plastic part refers to the centre of the regulation-slot. Allows a translation of +/- 3 mm.

2) The lubricator is supplied with the felt already lubricated. The lubricant has a mineral oil base.

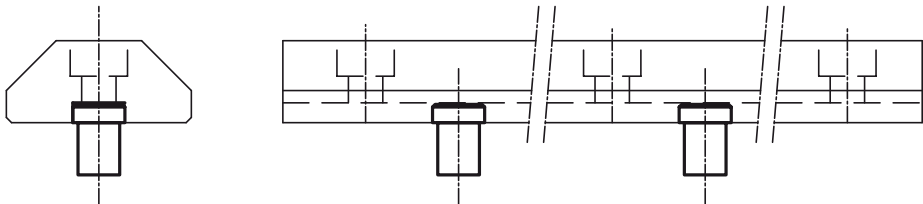
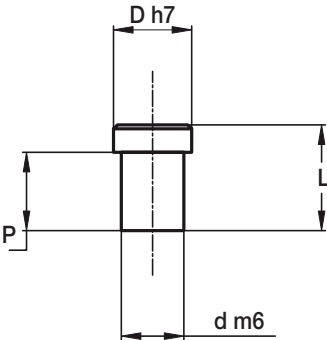
3) During the mounting fix the aluminium support to the rollers plate, adjust the height of the plastic part in order to put it in contact with the raceways and then block it in that position with the M5 screws.

Optional features

- felt without lubricant (**D**)

Heavy-Line

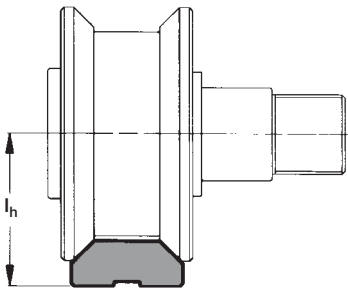
Guide pins SAG



Pin type	Guide type	Dimensions (mm)			
		D	d ⁽¹⁾	P	L
SAG 28	GU 28 MT	10	8	10	12.3
SAG 35	GU 35 MT	10	8	10	13.5
SAG 50	GU 50 MT	16	10	11.2	15

1) Housing bore tolerance: H7

Guide roller combinations (RKU, FKU, RKUL)



Guide \ Roller	I _h (mm)				
	RKU, FKU, RKUL 55	RKU, FKU, RKUL 65	RKU, FKU, RKUL 75	RKU, FKU, RKUL 95	RKU, FKU, RKUL 115
GU 28 MT	33.6	37	–	–	–
GU 28 MT	32.6	36	–	–	–
GU 35 MT	–	41.9	47.6	–	–
GU 35 MT	–	41	46.7	–	–
GU 50 MT	–	–	–	61	69
GU 50 MT	–	–	–	60	68



Mounting Examples

