

Fuka brake Station - Dupar-



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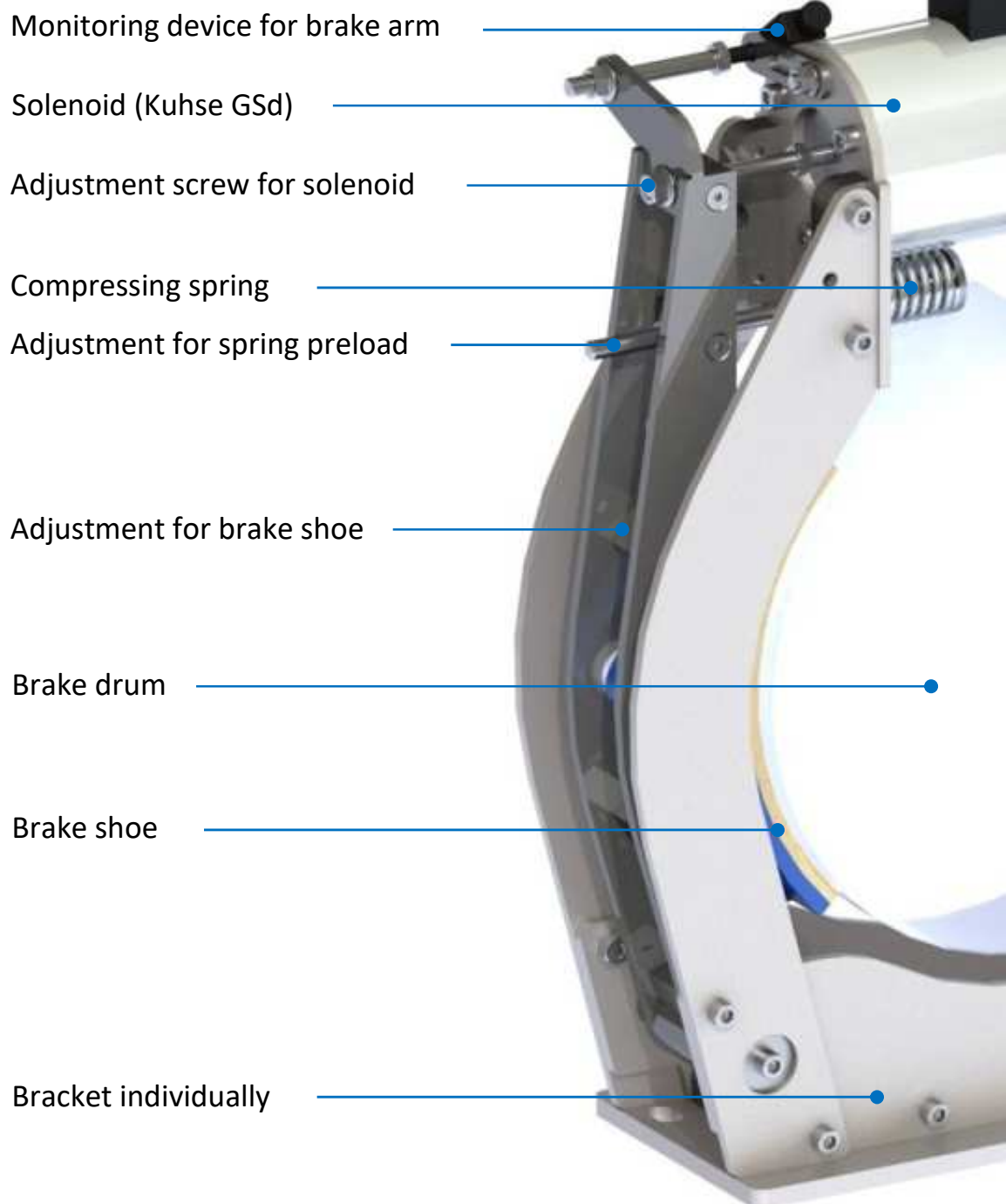
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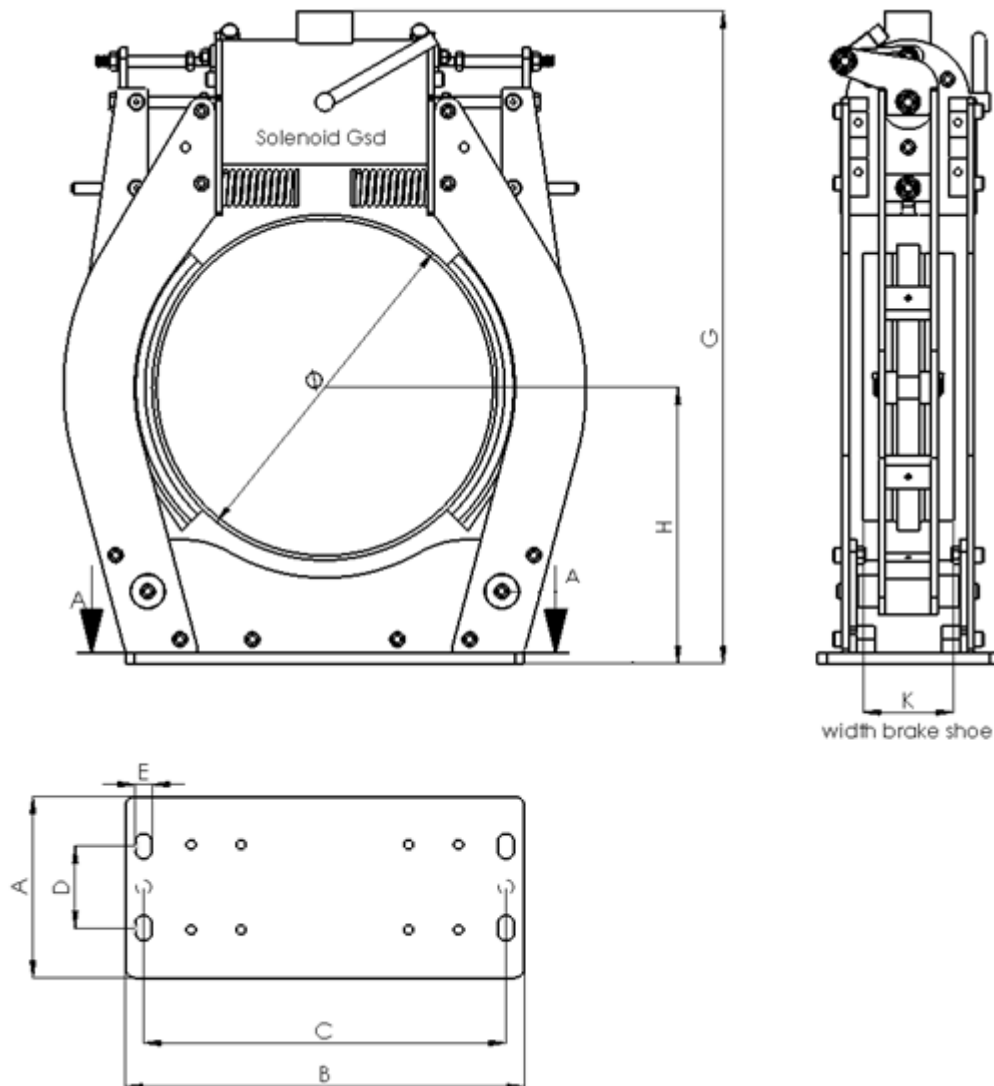
General data

Compliance with the standard DIN EN 81-1	✓
Infinitely adjustable brake spring	✓
Easy to maintain bushes with failsafe running functions	✓
equable release of brake shoes adjustable brake arms	✓
High braking effect due to high adhesion factor of brake pad Jurid 940	✓
All parts galvanized	✓
Brake arm monitoring	✓
Installation less than one hour	✓
Solenoid	Kuhse type GSd; 40% ED; various voltages
Compression spring	32 x 16 x 64; spring rate: R= 99 N/mm
Adhesion factor of brake pad	$\mu = 0,41$

Description of components







Dimensions



Drum →	6"	8"	9"	10"	12"	15"
A	100 mm	120 mm	115 mm	140 mm	150 mm	220 mm
B	230 mm	300 mm	340 mm	335 mm	410 mm	480 mm
C	203 mm	267 mm	298 mm	298 mm	356 mm	425 mm
D	51 mm	57 mm	76 mm	76 mm	85 mm	102 mm
G	416 mm	545 mm	579 mm	600 mm	677 mm	775 mm
H	160 mm	210 mm	229 mm	241 mm	292 mm	359 mm
K	70 mm	80 mm	90 mm	100 mm	120 mm	130 mm
Braking torque	50 Nm	156 Nm	176 Nm	191 Nm	219 Nm	487 Nm
Solenoid	Gsd 100	Gsd 135	Gsd 135	Gsd 135	Gsd 135	Gsd 136

Installation instructions

	<ul style="list-style-type: none">▪ install bracket to the machine bed- do not tighten the screws yet <p><i>The side panels can be removed for easier installation</i></p>
	<ul style="list-style-type: none">▪ install upper part of the brake station- loosen the lower screws on both sides- put upper part over brake drum <p><i>If enough space is available, the screws stay attached.</i> <i>The upper part is then positioned from the side of the drum</i></p>
	<ul style="list-style-type: none">▪ fasten upper part to bracket
	<ul style="list-style-type: none">▪ install brake arms with brake shoes▪ press brake shoes close against brake drum▪ adjust bracket centered

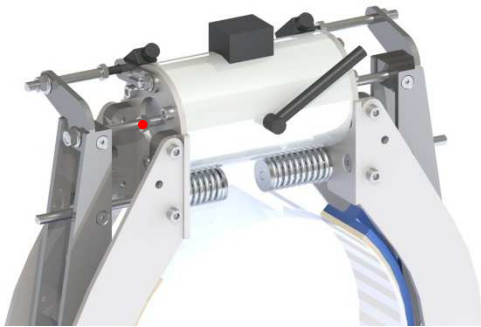
Installation instructions



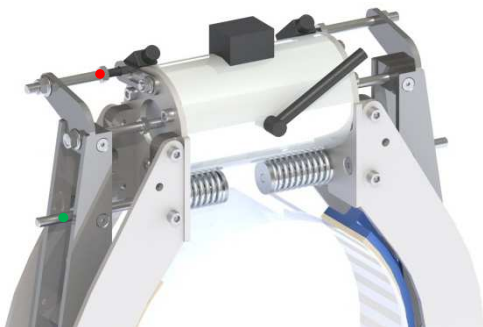
- tighten the **screws** firmly
- Bracket is set on the machine bed.



- press brake shoes close against brake drum
- tighten the screws to adjust the brake shoes



- press brake shoes close against brake drum
- turn **screw** to 1mm before plunger of solenoid
make sure that the plunger is in rear end position



- adjust spring pre-load with **adjustment screw**
- turn **screw** until just above the switch point
make sure that the plunger is in rear end position

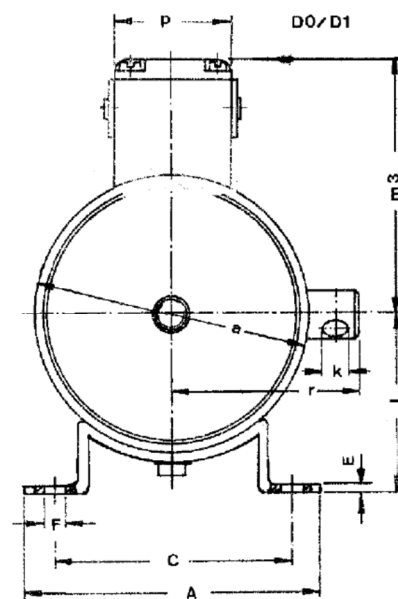
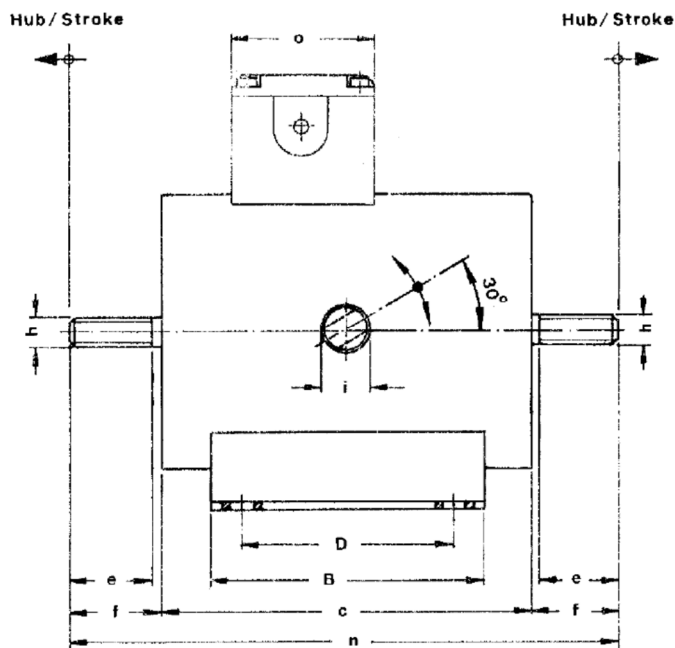
Twin brake release actuators



Design

Expanding solenoids of model range type GSd are produced in sizes of 99 mm to 164 mm diameter, and with stroke lengths between 2,5 mm and 4,0 mm. So, these solenoids are featuring higher rated forces as compared with solenoids of type GS of similar diameters.

The armature movements from stroke starting- to stroke limit-positions are performed by electromagnetic force; for resetting, an external power source (spring or weight) is needed.



Abmessungs-Tabelle / Dimension Table [mm]

Type↓	a	c	e	f	h	i	k	l	m1	m2	m3	n	o	p	r	A	B	C	D	E	F
GSd 100	99	155	34	36,5	M 10	14	8	60	66	99	98	228	60	50	70	125	105	100	80	2.5	9
GSd 115	114	156	34	37,5	M 12	20	8	75	73	106	105	231	60	50	77	125	115	100	90	2.5	9
GSd 135	137	166	40	46	M 12	20	10	90	85	117	118	258	60	50	90	135	145	110	120	2.5	9
GSd 136	137	226	35	44,5	M 12	22	10	90	85	117	118	315	60	50	90	135	145	110	120	2.5	9
GSd 165	164	278	50	60	M 20	26	14	105	98	131	137	398	60	50	112	200	190	170	160	12	11

Twin brake release actuators

Technische Daten
Technical Data
Typenreihe GSd
Type Group GSd

Type: GSd ...	100		115		135		136		165	
max. Hub/ max. Stroke [cm]	0,25		0,3		0,3		0,4		0,4	
ED / Rel. On-time ¹⁾ [%]	100	40	100	40	100	40	100	40	100	40
Anfangskraft / Starting Force [N] ²⁾	255	500	350	600	710	1050	710	1250	1350	2200
Haltekraft / Holding Force [N]	540	820	700	1100	1130	1480	1550	1800	2700	3100
Hubarbeit / Moment [Ncm] ²⁾	80	145	123	255	213	315	284	500	540	980
Leistung/ Power [W] ²⁾	30	66	32	80	44	82	50	158	70	170
Anzugszeit/ Attraction Time [ms]	295	270	335	320	380	350	515	455	645	560
Abfallzeit/ Drop-out Time [ms] ³⁾	185	120	245	155	255	165	265	195	280	210
Gesamtgewicht/ Total Weight [kg]	8,0		11,0		16,5		22,5		44,5	
Ankergewicht/ Weight o. Armature [kg]	0,9		1,0		1,5		2,2		3,8	
Schutzart/ Degree o. Protection	Standard (Gerät): IP 42 (Möglich: IP 54) Standard (Unit): IP 42 (Possible: IP 54)									
Einbaulage/ Mounting Position	Beliebig / Any									
Kraftabnahme/ Force Direction	Axial (sonst erhöhter Lagerverschleiß) / In Stroke Direction (otherwise increased bearing abrasion)									
Nennspannung/ Rated Voltage	Vorzugsweise: 200 V DC ⁴⁾ / Preferably: 200 V DC ⁴⁾									
Isolierstoffklasse/ Insulation Class	B (andere auf Anfrage) / B (others on request)									

Power values listed in this table are related to one single coil system.

- 1) Relative on-time ED is providing a maximum duty cycle of 5 minutes.
- 2) When mounted vertically, the listed forces are changing by the value of armature weight.
- 3) The release times are to be understood for DC circuit switching.
- 4) Coils for other DC voltages (or for 230 V AC, with built-in rectifiers in junction box or in connector casing) are possible against extra price.
In case of other voltages, deviations in solenoid forces may occur.

Contact:

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Warranty:

The warranty period for components and spare parts shall be 12 months after passing of risk, but max. 6 months after taking the system into operation.

The "General sales and delivery terms" of Rudolf Fuka GmbH apply generally.

Download at http://www.fuka.de/index.php/infos_downloads.html