

ROLAND ELECTRONIC

Spring Mounted Sensor Bracket SHX42

for single-sided double sheet control in destackers and centering stations

- Decompressed condition: very stiff, for lateral acceleration up to 2g, precise putting on the sheet without canting, also on fanned sheets or tilted TWB stacks
- Compressed condition: very elastic and movable into all directions
- Compensation also of lateral motions up to approx. 1cm
- Minimal wear due to absence of lateral forces
- Fast suction and release of the sheets due to small air volume below the suction cup
- Same rubber lips and rubber pressure pad as in use with Roland SHS42GS
- Good access to the sensor from above, no counter-nuts required

THE ROLAND PLUS

- High flexibility
- Minimal wear
- Low weight



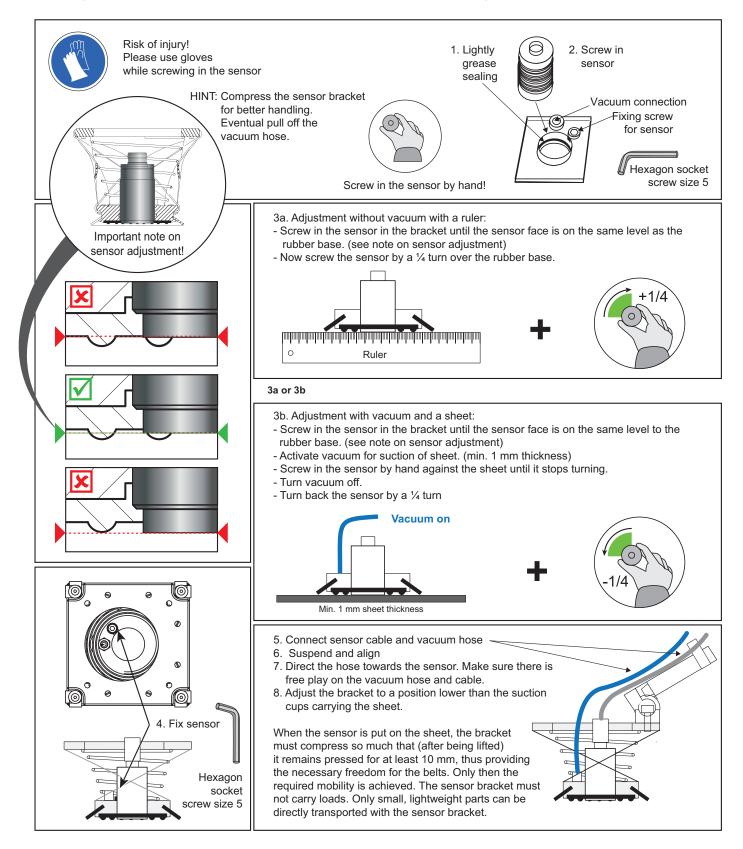




SENSOR BRACKET SHX42

Mounting of the sensor bracket:

The mounting plate has a total of 10 M8 tap holes at distances of 50 and 100 mm. At least 2 of them must be used for mounting. Adapters with \emptyset 19 and 25 mm stud for swivel arm are available. Other adapters may be ordered by request. Item 1 - 4 describes the mounting of the sensor into the sensor bracket and item 5 - 8 describes the mounting of the sensor bracket.

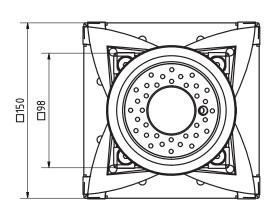


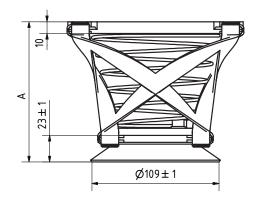
SENSOR BRACKET SHX42

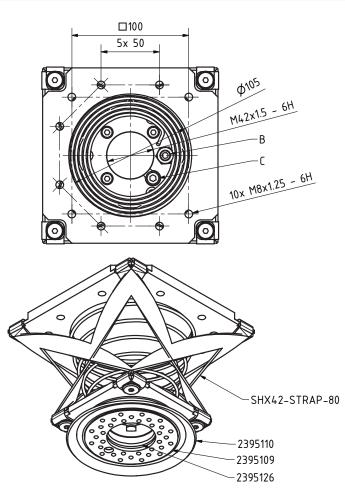
Technical Data:

SHX42				
Applicable sensors	P42GS, P42AGS, PW42GS, PW42AGS			
Diameter of suction cup	115mm			
Spring travel	approx. 70mm			
Total height	approx. 120mm			
Pressure force at 1/2 spring travel	approx. 25N (Pressure force and self-weight with sensor)			
Weight	850g without sensor, 1200g with sensor P42AGS			
Mounting of bracket	M8 tap holes in the mounting plate, use at least 2 of them for mounting			
Mounting of sensor	Thread M42×1.5 clamping by screw and NBR pressure pad			
Vacuum feed for suction cup	Plug fitting for outside calibrated hose 8 mm			

Dimensions:







Exchange of the wearing parts:

Pull the rubber lips (**order no. 2395110**) over the lower edge. Both sides can be used. Pay attention for undamaged sealing lips at the inner and outer edge as well as for uniform projection of the sealing edge. The rubber pressure pad (**order no. 2395109**) is bonded permanently in the suction area with Cyanoacrylate. When replacing the strap set (order no. **SHX42-STRAP-80**) the screws must be tightened with **5Nm**.

Important! After approx. one week, re-tighten the screws with the required tightening torque.

Ordering information:

Order number	Description		
SHX42	Sensor bracket (complete)		
SHX42-STRAP-80	Strap Set		
SHX-AZ2-25	Adaptor (Shank) 25mm		
SHX-AZ-BILSING	Adaptor (Quick change coupling)		
SHX-AZQ-19	Adaptor Ø 19mm stud for swivel arm		
SHX-AZQ-25	Adaptor Ø 25mm stud for swivel arm		
2395109	Rubber pressure pad		
2395110	Rubber lips		
2395126	Thread sealing ring		

PRODUCT PROGRAM SENSOR BRACKETS (Complete overview see separate data sheet)

Туре	SH42GS	SHS42GS	SHS42G-FB	SHX42-85F	SHX42-DL	
Description	Spring loaded sensor bracket	Spring loaded sensor bracket with flat suction cup	Spring loaded sensor bracket with bellow suction cup	Spring loaded sensor brackets with rubber lip respectively double lip. Read the <i>NOTE</i> at the bottom for SHX42-DL!		
Fits to		P42GS P42AGS PW42GS PW42AGS				
Sensor mounting	Ø 43mm	Thread M42 x 1.5	Thread M42 x 1.5	Thread M42 x 1.5	Thread M42 x 1.5	
Total height*	98mm plus sensor excess length	141mm	128mm	120mm	120mm	
Spring travel	approx. 26 mm	approx. 26 mm	approx. 34 mm	approx. 70mm	approx. 70mm	
Weight	approx. 0.75kg (1.65lbs)	approx. 1.25kg (2.75lbs)	approx. 1.2kg (2.64lbs) approx. 0.75 kg (1.65 lbs) (SHS42G-FB80)	approx. 0.85kg (1.87lbs)	approx. 0.85kg (1.87lbs)	
Pressure force at 1/2 spring travel	approx. 48N	approx. 48N	approx. 60N	approx. 25N	approx. 25N	
Suction cup diameter	n.a.	115mm 85mm (SHS42GS-85**)	105mm 80mm (SHS42G-FB80)	85mm	105mm	
Vacuum feed	n.a.	Hose 8mm OD	Hose 8mm OD	Hose 8mm OD	Hose 8mm OD	
Spare parts	Spring Kit 2395117	Spring Kit 2395117 Rubber lips (black) 2395110 2395168** Rubber pressure pad 2395109	Bellows suction cup 105 mm (red) 2395045 Bellows suction cup 80 mm (red) 2395100 (SHS42G-FB80)	Strap set SHX42-STRAP-80 Rubber lips (black) 2395168 Rubber pressure pad 2395167	Strap set SHX42-STRAP-80 Bellows suction cup 105 mm (yellow) 2395218	
Accessories	SHK Bracket clamp for mounting of sensor brackets to destacking tools		Adaptors: SHX-AZ2-25, SHX-AZ-BILSING, SHX-AZQ-19, SHX-AZQ-25			
Application properties						
For vertical destackers	+	+	+	+	+	
For Robot-Loader and high-speed linear destackers		_	+	+	+	
For inclined sheet stacks	-	0	+	+	++	
Suction delay time***	none	0.1s	0.5s	0.1s	0.1s	
Notes	For narrow sheets and applications where weight is critical	Strong hold on even sheets due to suction cup.	Suited for utmost sen- sor contact on inclined or undulated sheet stacks.	Highest tilt flexibility, highest spring travel. Rigid during approach. For high lateral acceleration (up to 2g), minimal wear.		
	** spare parts for SHS42 n vacuum strength, tube i		and contact pressure to	sheet		
	et as a lifting suction cup					

Never use sensor bracket as a lifting suction cup! (except sheet is smaller than area of 3 suction cups) NOTE: The colors of the suction cup points to different hardnesses: Red – 45 shore; Yellow – 55 shore; Black – 60 shore

NOTE: The sensor bracket SHX42-DL is suited only for sheet thickness >0.5mm (aluminum) and >0.3mm (steel)

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