

Overview of spring loaded sensor brackets

for destackers and centering stations,
robot-loader, high-speed destackers,
inclined steel stacks


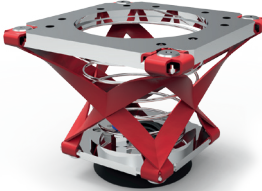
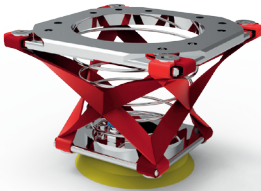
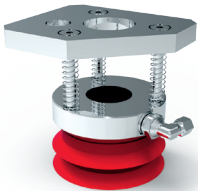




THE ROLAND PLUS

- ▶ High range of applications
- ▶ Minimal wear
- ▶ Low weight




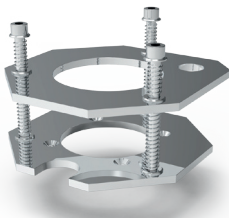
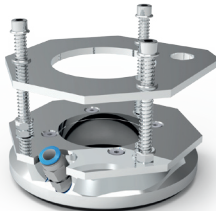



- The best suited mounting solution for each requirement - tailored to your individual measuring tasks.
- For best sensor contact, even at inclined or bended sheets.
- For reliable, durable and best measurement results. Together with the leading ROLAND ELECTRONIC measurement technology for Double Sheet Detection, for best protection of your subsequent production stages.
- Durable design and high quality components guarantee a minimum of maintenance and a maximum of reliability.
- Ensured availability of individual parts and maintenance-friendly design guarantees lowest operating costs.



Typ	SHX42	SHX42-85F	SHX42-DL	SHS42G-FB	SHS42G-FB80
					
Description	Spring loaded sensor bracket with rubber lip		Spring loaded sensor bracket with double-lip	Spring loaded sensor bracket with bellow suction cup (red)	
	Optimal flexibility			SHS42G-FB_GE (yellow)	SHS42G-FB80_GE (yellow)
Suited for	P42GS P42AGS PW42GS PW42AGS				
Mounting	Thread M42 x 1.5				
Total height (unloaded)	120mm	120mm	120mm	128mm	128mm
Spring travel + suction cup compression	approx. 70mm	approx. 70mm	approx. 70mm	approx. 34mm (plus approx. 20mm)	approx. 34mm (plus approx. 17mm)
Weight	approx. 0.85kg	approx. 0.85kg	approx. 0.85kg	approx. 1.2kg	approx. 0.75kg
Pressure force at 1/2 of spring travel	approx. 25N	approx. 25N	approx. 25N	approx. 60N	approx. 60N
Suction cup Ø (while applying vacuum)	115mm	85mm	105mm	105mm	80mm
Vacuum connection	Hose 8mm OD	Hose 8mm OD	Hose 8mm OD	Hose 8mm OD	Hose 8mm OD
Spare parts	Strap set SHX42-STRAP-80			Bellow suction cup 2395045 (red) Hardness: 45 shore	Bellow suction cup 2395100 (red) Hardness: 45 shore
	Sealing ring 2395126			Spring Kit 2395117	
	Rubber lip 2395110 (black)	Rubber lip 2395168 (black)	Bellow suction cup 2395218 (yellow) Hardness: 55 shore	Bellow suction cup 2395133 (yellow) Hardness: 55 shore	Bellow suction cup 2395216 (yellow) Hardness: 55 shore
	Rubber pressure pad 2395109	Rubber pressure pad 2395167			
Accessories	SHX-AZ2-25 Shank / Adapter for 25mm clamp collar / swivel arm. SHX-AZQ-19 / SHX-AZQ-25 Adapter with stud Ø 19mm / Ø 25mm    SHX-AZ-BILSING Adapter for Bilsing quick-change coupling				

SPRING LOADED SENSOR BRACKETS

SH42GS	SHS42GS	SHS42GS-85	SH75GS	SHS75GS	
					
Spring loaded sensor bracket	Spring loaded sensor bracket with flat suction cup		Spring loaded sensor bracket	Spring loaded sensor bracket with flat suction cup	Description
P42GS P42AGS PW42GS PW42AGS			P75VGS P75GS		Suited for
Ø 43mm	Thread M42 x 1.5		Ø 76 mm	Thread M75 x 1,5	Mounting
98mm, plus sensor excess length	141mm	129mm	98mm, plus sensor excess length	128mm	Total height (unloaded)
approx. 26mm	approx. 26mm	approx. 26mm	approx. 26mm	approx. 26mm	Spring travel + suction cup compression
approx. 0.75kg	approx. 1.25kg	approx. 0.95kg	ca. 0.7kg	approx. 1.5kg	Weight
approx. 48N	approx. 48N	approx. 48N	approx. 48 N	approx. 48N	Pressure force at 1/2 of spring travel
n.a.	115mm	85mm	n.a.	155mm	Suction cup Ø (while applying vacuum)
n.a.	Hose 8mm OD	Hose 8mm OD	n.a.	Hose 10mm OD	Vacuum connection
Spring Kit 2395117			Spring Kit S0023211	Spring Kit 2395117	Spare parts
	Rubber lip 2395110 (black)	Rubber lip 2395168 (black)		Foam rubber ring 2395038	
	Rubber pressure pad 2395109	Rubber pressure pad 2395167		Rubber pressure pad 2395039	
SHK Bracket clamp (for mounting of sensor brackets to destacking tools with crossing over clamp 25mm)					Accessories
					

General information

The suction delay time is strongly dependent on vacuum strength, tube resistance, contact angle and contact pressure to the sheet.

Never use the sensor brackets as a lifting device! (Except sheet is smaller than the area of 3 suction cups.)

Suited for	Vertical destacker	Robot loader	Inclinated sheet stacks	Notes
		High-speed destackers		
SH42GS No suction delay time	+	--	-	For narrow sheets and applications where weight is critical
SHS42GS Suction delay time approx. 0.1s	+	-	o	Strong hold on even sheets due to suction cup
SHS42GS-85 Suction delay time approx. 0.1s	+	-	o	
SHS42G-FB Suction delay time approx. 0.5s	+	o	+	Various rubber hardnesses for different surface requirements
SHS42G-FB80 Suction delay time approx 0.5s	+	o	+	
SHX42 Suction delay time approx. 0.1s	+	+	++	Highest tilt flexibility, highest spring travel, very lightweight, for high lateral acceleration (up to 2g). Minimal wear, durable designed, low lifecycle costs. (SHX42-DL is suited only for sheet thickness > 0.5mm aluminum and > 0.3mm steel)
SHX42-DL Suction delay time approx. 0.1s	+	+	++	
SHX42-85F Suction delay time approx. 0.1s	+	+	++	
SH75GS No suction delay time	+	--	-	Well-suited for big sheet thicknesses.
SHS75GS Suction delay time approx.0.1s	+	-		

(Legend: "--" = absolutely not suited / "-" = not suited / "o" = applicable / "+" = well suited / "++" = best suited)

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