



## Rollover Restraint Seat & Harness

SAE J2292 accredited

Patent Pending



# The Third Generation Roll Over Restraint Seat And Harness

Introducing our third generation Roll Over Restraint seat and harness - probably the first Roll Over Restraint that most operators will willingly wear.

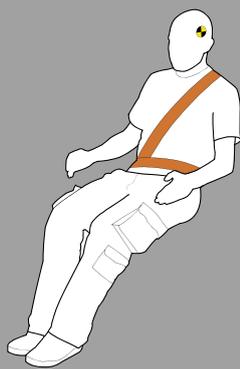
The value of wearing a full harness in terms of safety has been well understood for many years, the problem however has always been the discomfort experienced by a plant operator whilst wearing one. It is all well and good pointing to an F1 driver belted up for a grand prix, but he does not need to wear it for eight hours a day whilst experiencing a ride similar to a bucking bronco.

Our challenge was how to manufacture the most effective belt system whilst retaining comfort levels which would be acceptable to operators when worn on a daily basis. The final design centred around a three point harness and to ensure acceptability in all applications three new mounting options were developed. As we strived for the highest levels of comfort a 'New type' high back operator seat was incorporated into the design allowing for seamless integration of the R.o.R to ensure longevity of the webbing. Several suspension options are also available to relieve driver fatigue and other issues associated with whole body vibration.

Next a prototype was installed into a customer's dump truck and an experienced operator put it through its paces. Reports back initiated a couple of small design changes before finally being fit for purpose. These done the operator commented, "I noted at times that I could not feel any discomfort at all, you could not tell if the harness was being used."



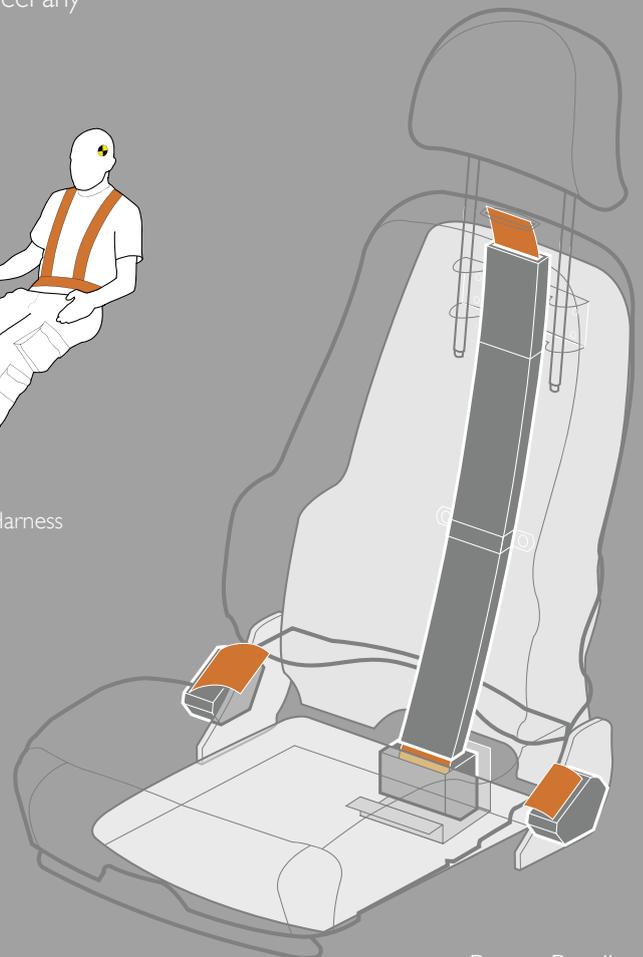
Lap Belt



3 point Belt



3 point Harness



# Safety features

Rear webbing runs through the seat back to prevent damage and dirt ingress

Adjustable shoulder straps

Webbing colour highlights usage

Comfortable 3 reel design (standard)  
Optional 1 & 2 reel arrangements

# Seat features

Adjustable headrest

Document holder

Lumbar options

Seat cushion angle adjustment

Seat back adjustment

Seat cushion adjustment

Suspension bases  
Electric/air base standard

**Suspension options:-**  
Standard  
Heavy Duty (Metal bearings)  
Intelligent (HD +, Auto weight adjustment and Fore + Aft suspension)

Adjustable suspension damper

# SAE J2292 Accredited

To pass SAE J2292 the ROR needed to withstand a simultaneous pull of 9,000 Newtons on the lap webbing and 7,000 Newtons on the shoulder webbing for a period of ten seconds

After successfully achieving SAEJ2292 accreditation it was time for the biggest test of all, driver acceptance. A number of preproduction ROR seats were fitted into customer's machines, in real work situations and most importantly with real operators.

The results were very encouraging, with operator comfort ratings of the new harness arrangement equal or better than that of the operators usual lap belt comfort.



BACKVIEW



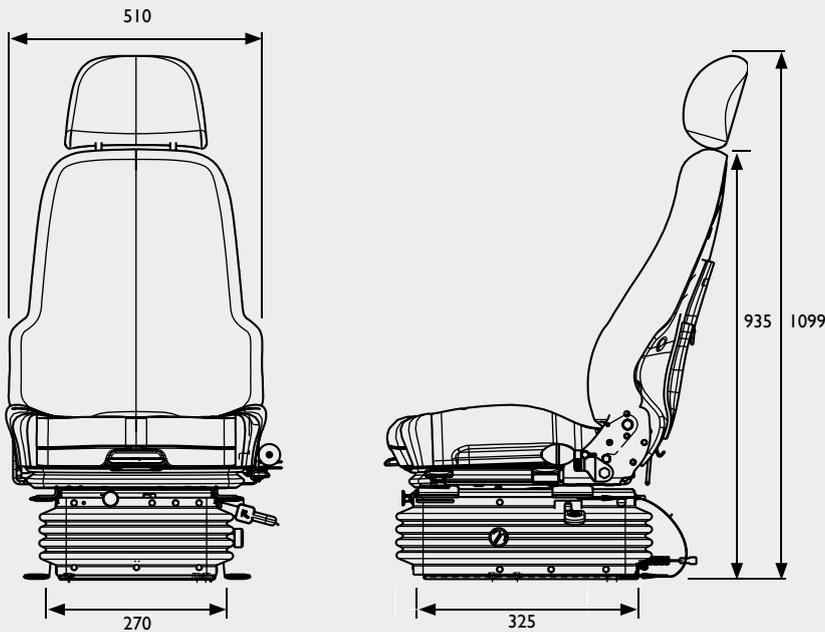
SIDEVIEW

# Options

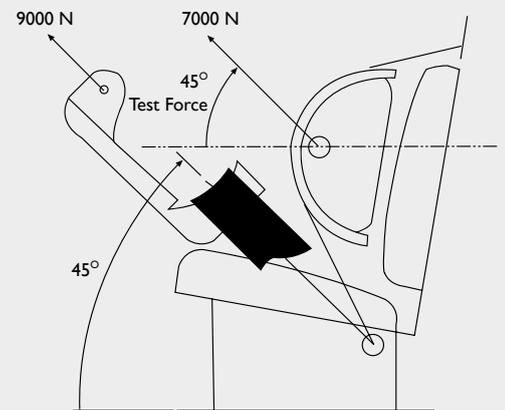
The Spillard Restraint seat is available in three standard designs with different options to allow you to tailor them to your individual requirements.

		Spillard ROR Seat & Harness Options		
		Part no. 9060	Part no. 9070	Part no. 9080
	Suspension units		Heavy duty	Intelligent
Harness options	3 combination reels	•	•	•
	2 combination reels & 1 elastic mount	○	○	○
	1 combination reel & 2 elastic mounts	○	○	○
	Adjustable backrest	•	•	•
	Adjustable cushion depth and angle	•	•	•
	Headrest - adjustable	•	•	•
	Arm rests - height & tilt adjustable	○	○	○
	Pod mounting system (locates OEM controls)	○	○	○
	Electric - air bag lumbar	○	○	○
	Air suspension with 12v compressor	○	○	N/A
	Operator presence switch	N/A	N/A	○
	Document pouch	○	○	○
	Installation	○	○	○

○ = OPTIONAL • = STANDARD



Seat dimensions (mm)



Test method

# Services available

- Customised solutions for your safety issues.
- Nationwide installation service by our experienced team of in-house engineers.
- Machine visibility assessments.
- Mobile plant safety systems audits.
- Operator seat vibration measurement.

# Spillard product range

- Operator seating
- Replacement seatbelts
- Reversing camera systems
- Mobile vision solutions
- Convex mirrors
- Radar & Ultrasonic detection systems
- Strobe safety lighting
- Diesel Engine management systems

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