Production Swivel Joint (PSJ)
Allows free rotation of downhole equipment

Applications
- Perforating Jobs
- Minimisation of tool rotation due to wireline torque

Features and Benefits
- Combinable with other Sondex **Ultrawire™ logging tools**
- Special heads and connections supplied to individual customer requirements

The Sondex **Production Swivel Joint (PSJ)** allows free rotation between the upper and lower head while maintaining an electrical through connection. The unit is pressure balanced and oil filled to avoid any increase in seal friction at high ambient pressures and temperatures.

The top and bottom sub-assemblies are linked by a shaft. This shaft is free to rotate on a set of bearings which accommodate both vertical and lateral forces. The electrical continuity of both conductor and armour is maintained by rotating low resistance contacts.

A sliding sleeve relieves internal pressure changes caused by well pressure or expansion of the filling oil due to rising temperature. This prevents seal friction increases, minimising rotational resistance.

Braided electric line has the tendency to rotate as it is played out and pulled in. When it is important that the toolstring does not rotate during logging, a swivel joint is connected at the top of the toolstring directly beneath the cablehead. This allows the cable to rotate when necessary without the toolstring being forced to turn.

Specifications						
	PSJ008	PSJ010	PSJ011	PSJ012	PSJ014	PSJ016
Temperature	392ºF (200ºC)					
Pressure Rating	15,000 psi (103.4 MPa)				20,000 psi (137.9 MPa)	
Tool Diameter	1 11/16 in. (43 mm)		2 1/8 in. (54 mm)		1 11/16 in. (43 mm)	
Tool Length	10.86 in. (275.5 mm)		11.13 in. (283 mm)		10.86 in. (275.5 mm)	
Tool Weight	6 lb (2.7 kg)		9.8 lb (4.4 kg)		6 lb (2.7 kg)	
Torque Required to Turn	0.1 ft-lb (0.14 Nm)					
Maximum Tensile Load	10,000 lbs (4,539 kg)					
Upper thread connection	1 3/16 in. 12 UN 2B female					
Lower thread connection	1 3/16 in. 12 UN 2A male					
Material	Corrosion resistant throughout					