



LEGEND TECHNOLOGIES (INDIA) PVT LTD

(ABOVE AND BEYOND AEROSPACE TECHNOLOGY)

PIONEERS IN ENGINEERING SINCE 1992



Aerospace & Defense



SLIPRINGS

**“INDIGENOUS SLIPRING MANUFACTURER
IN INDIA WITH STATE OF ART TECHNOLOGIES”**

Legend Technologies always working to
develop affordable, durable, and trustworthy
indigenous solutions that will truly define us as

“Atmanirbhar.”



आत्मनिर्भर भारत



INTRODUCTION :

Legend Technologies (India) Pvt. Ltd, An ISO 9001-2015 & AS 91000 D Certified medium scale engineering industry, which offers end to end ,cost effective solutions for the design and manufacturing of aerospace assembly jigs, aerospace structures, and **high precision sliprings**. With 32+ years experience in Aerospace & Defence domain, Legend Technologies has been established as high end aerospace Industry in India & abroad. Legend Technologies involved in indigenized products like LCA, LCH, ALH, RLVTD, SARAS, IJT, SWIFT UAV, PSLV, GSLV, Gaganayan and also involved in licensed products like Cheetah, Chetak, Jaguar, meeting the requirements of aeronautical & aerospace including defence industry.

SLIPRING DIVISION:

While scanning the market for opportunities to expand and diversify, Legend Technologies was selected by **Vikram Sarabhai Space Center - ISRO** for the licensed production of precision sliprings to meet essentially their requirements. Now, Legend is revolutionised the design, manufacturing of sliprings across the country and globally as well.

A technology transfer agreement was concluded between the two organizations in June 2000. It is however noted that Legend Technologies is the only company to whom VSSC has so far transferred it's technology in this field. The license agreement expired in 2008. In the meanwhile, Legend Technologies has successfully assimilated the VSSC technologies. It is now designing, manufacturing, and supplying sliprings to various customers throughout the country. it has further improved the slipring technology to the state of the art international standard.

WHAT IS SLIPRING?

Slipring is an essential subsystem, to transfer the power, signals & data between the units at stationary side and the units on the continuously rotating platform. The slipring unit should transfer the Power & data with (a) very high reliability, (b) minimum voltage drop or insertion loss, (c) large isolation /minimum interference between the channels and (d) very long life to the tune of few million revolutions.

The requirements of customers were met by Legend Technologies with (a) power varying from very low current to more than 100A, (b) analogue signals upto few Mega Hertz bandwidth and (c) digital signals upto 1000 mbps (Mega Bits Per Second)".

SLIPRING MANUFACTURING & TESTING FACILITIES:

Legend Technologies is equipped with all the machinery for precision machining and also all the required electrical & electronic test instruments for testing & qualification of electrical parameters. The certification of slipring unit for environmental conditions is obtained from standard test laboratories, if required by the customer

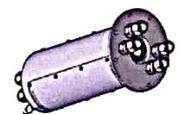
TYPES OF SLIPRINGS:

(A) SIZE WISE

- Miniature (Upto 20 channels, Diameter 50mm & height 100mm)
- Medium (Upto 150 channels, Diameter 250mm & height 500mm)
- Large (Upto 250 channels, Diameter 500mm & height 1500mm)

(B) CONSTRUCTION

- Cartridge
- Pedestal
- Coplanar



CUSTOMIZED SLIPRINGS

1. 117 WAY SLIPRING



TECHNICAL SPECIFICATIONS

SL.NO	PARAMETER	SPECIFICATION
1	NO. OF CHANNELS	117 CHANNELS
2	APPLICATION	MILITARY – ANTENNA PEDESTALS
3	TYPE OF MOUNTING	VERTICALLY STACKED
4	DIMENSIONAL	OD 456 MM x ID 220 MM x HT 540 MM
5	WEIGHT	50 KGS
6	OPERATING LIFE	BETTER THAN 5 MILLION REVOLUTIONS.
7	INGRESS PROTECTION	IP65

2. 55 WAY SLIPRING



TECHNICAL SPECIFICATIONS

SL.NO	PARAMETER	SPECIFICATION
1	NO. OF CHANNELS	55 CHANNELS
2	APPLICATION	DEFENCE - ANTENNA PEDESTALS
3	TYPE OF MOUNTING	VERTICALLY STACKED
4	DIMENSIONAL	OD 150 MM x ID 26 MM x HT 300 MM
5	WEIGHT	18 KGS
6	OPERATING LIFE	BETTER THAN 5 MILLION REVOLUTIONS.
7	INGRESS PROTECTION	IP65
8	SPECIAL REQUIREMENT	100 & 1000 Mbps ETHERNET CHANNEL

DESIGN FACILITIES & CAPABILITIES:

- The slip rings manufactured in Legend Technologies are designed in-house as per the requirement of customer.
- Use of Auto CAD & latest 3D software packages for drafting and modelling operations.
- Availability of special skilled workforce to Design, manufacture, Test and overhaul precision slip rings.

SLIP RING MATERIALS & MACHINING:

- Aerospace grade materials are used to manufacture the Slip rings. Fabrication of exotic materials like coin silver, phosphor bronze, beryllium copper, silver graphite, poxy and Teflon.
- All the components are machined only in precision machining centers.
- Soldering process will be carried out by skilled workforce using High Tech Soldering station.





LEGENDARY PATRONS



Legend Technologies (India) Pvt Ltd

(ABOVE AND BEYOND AEROSPACE TECHNOLOGY)

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