

SMD

BRILLIANTLY AGILE!



EPICYCLIC GEARING





SEIMITSU MOTION DRIVES

SMD stands for **SEIMITSU MOTION DRIVES**. SMD Gearbox is solution provider whose satisfied customer scattered all around world. It is a Taiwan based company, major sales offices and representatives are available in India & other part of the world too. SMD gearboxes are used in different industries like automation, Pharmaceutical, Medical, Packaging, Aerospace, etc. SMD has a long list of satisfactory customers to whom we provided integrated solutions as per their requirements. We have experienced technical experts who can help you throughout the system upgradation.



EPICYCLIC GEARING

Epicyclic gearing is also known as Planetary Gearbox. The alignment of the gears can be compared to our solar system where the planets revolve around the sun, hence the name “Planetary Gearbox”. In the middle of the planetary gearbox, there is a “sun” gear also known as a central gear. This is often the input gear. Around the outside, there are 2 or more ‘planet’ gears or outer gears. Surrounding the planet gears there is a ring gear which holds the formation together. The planet gears are connected by a carrier which in turn is connected to the output shaft. It is used for motion control. Generally, it has been used when output and input both have same centre of rotation.



FEATURES OF SMD'S EPICYCLIC GEARING

Epicyclic gears are widely used when there is a need to transmit significant power with large speed reductions or multiplications. Epicyclic gearbox provide special output structure for rotating disc rigidity. It allows to attach load onto disc for rotating, save space and simplify mechanism. It has crossed roller bearing for rigid rotation, precise positioning and high axial and radial force capability. SMD provides two variant in Epicyclic gearbox, one with a flange end and another one with shaft end. These type of gears are used when input and output rotation should be on the same axis. Both are inline gears.



EPICYCLIC GEARING WITH FLANGE END



Designed for Precision Platform Rotation

- Nominal Output Torque : 25Nm to 350Nm.
- Backlash: Less than 1 Arc-min.
- Available reduction ratios from 1:3 to 1:100
- Easily coupled to servo gearmotor.
- High load carrying capacity.
- Highly rigid.



EPICYCLIC GEARING WITH SHAFT END



Product Description

- Nominal Output Torque : 12Nm to 530Nm
- Backlash: Less than 1 Arc-min.
- Available reduction ratios from 1:3 to 1:100.
- Design to use with various servomotors.
- Sealed shut design; self-lubricated and easy to install
- High torque capacity and low inertia.



INDUSTRIAL APPLICATIONS

SMD Gearbox provides their customer an integrated solution to fulfil requirement. The gearboxes can be used in different industries like Agricultural, Printing, Pharmaceutical and Medical industry, Machine tooling and Packing industry. SMD provided different solution for the mentioned industry.

SMD gearboxes are used to create a robotic arm. Different gearboxes like Planetary, right angle, Hollow rotary, Harmonic are used to create a successful model of robotic arms. Robotic arms are used when there is a repetitive task and need a high level of accuracy.



CONTACT US

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