

HSG - 315 ...500 **High Performance Saw Gearbox** suitable for HSS and HM







1. Application

SPONTAN designs and manufactures, in-house, saw gearboxes which are suitable for cutting pipes, profiles, rolled rings and solid material in virtually all imaginable installation locations and types of machine. The saw gearboxes can be operated both in a swivelling axle bearing and via linear feeds.

2. System description

Depending on the application, the saw gearboxes are designed as a spur gear multilevel with an upstream toothed belt transmission.

All Spontan's saw gearboxes have an extremely low backlash.

This is achieved by the use of precision-ground gear wheels and inhouse production of gearbox cases. Spontan's saw gearboxes which have been developed in-house have a backlash of <0.04.

Depending on the design, three-phase AC motors or servo motors are used as drive sources.

3. Workpieces

Materials

Geometries : almost independent Pipes and profiles : max. 160 x160 mm Wall thicknesses : 0.75 – 12.00 mm : steel, stainless steel, non-ferrous metal, etc.

- 4. Tools Saw blades Saw blade Ø Saw blade width Mount Ø
- : HSS coated / HM tipped : 275 – 500 mm : 1.6 – 4 mm : according to customer requirements



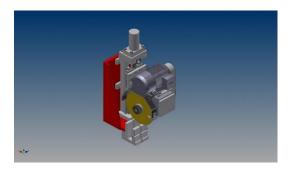
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5. Model and drive power Type 315

Saw blade Ø Drive power Gear ratio

: 200 – 340 mm : up to max. 10,5 kW : 1.2 - 26.8

: 275 – 450 mm

: 7.8 - 27.65

: up to max. 11 kW

Type 400/450 Saw blade Ø Drive power Gear ratio

Type 450/500 Saw blade Ø Drive power Gear ratio

: 275 – 500 mm : up to max. 18 kW : 9.3 - 17.35

Type 500 linear Saw blade Ø Drive power

: 315 – 500 mm : up to max. 8,6 kW : up to max. 11,0 kW : up to max. 20,0 kW – servo : 9.3 - 17.35

Gear ratio

6. Equipment features and components

Saw gearboxes in cast or welded steel design Low-backlash saw gearboxes in swivelling design Servo motors for feeding and speed Saw blade mounts according to customer requirements Saw blade attachment with central clamping screw Special designs for customer-specific modifications

7. Accessories available as an option

Hydraulic clamping nut for saw blade attachment Microlube Advantage MMKS systems (manufacturer Spontan) Aircooler for extra saw blade cooling Saw blade guidance Complete swivelling axle bearings Pulse generator modules for stroke control and lots more