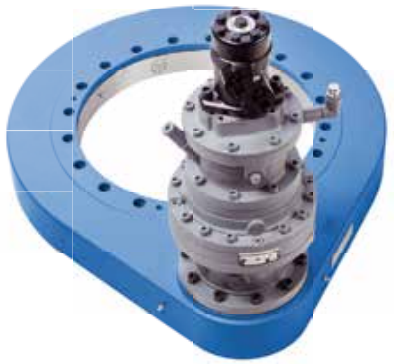
Series overview

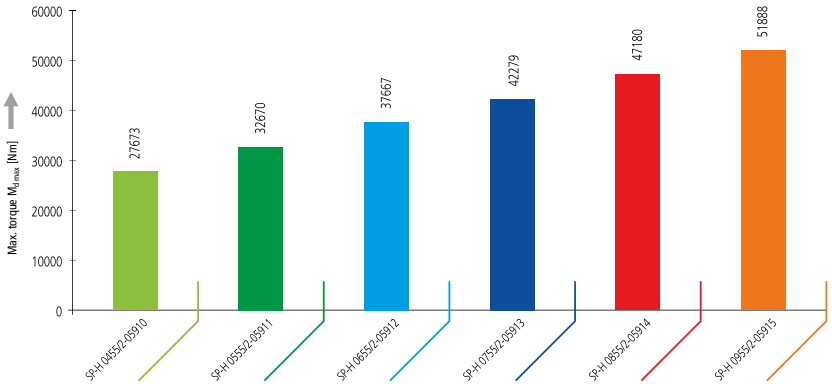
SP – H 0455 / 2 – 05910

- Drawing end number
- Type of gearing
  2: Quenched and tempered
- Raceway diameter [mm]
  455, 555, 655, 755, 855 and 955 mm
- H: Heavy duty series
- SP: Spur gear driven type



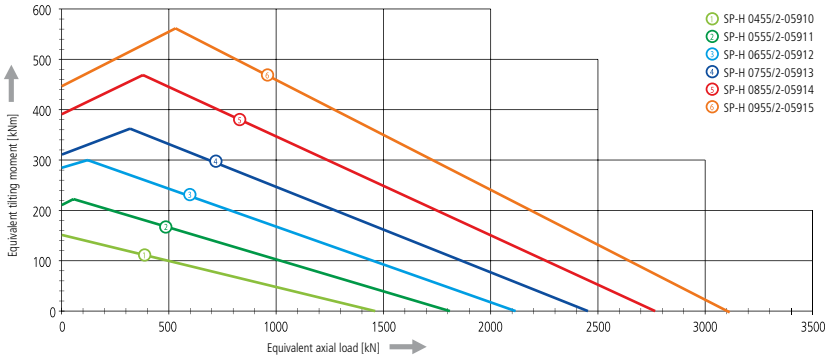
Maximum torque $M_{d\,max}$ of the individual sizes

CAUTION: The duty per minute is limited.
Please always observe the explanations in the Technical Information section (from page 60).

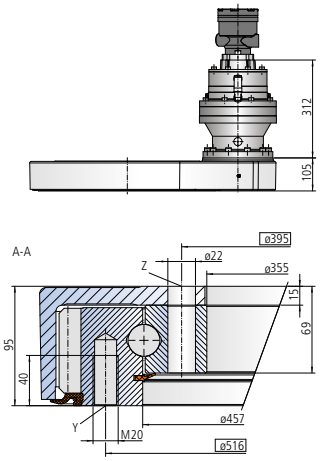


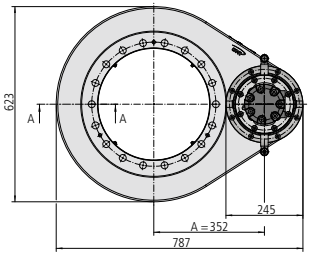
Limiting load diagrams of the individual sizes for compressive loads

Please always observe the explanations in the Technical Information section (from page 60).



Size SP-H 0455





The mounting structure must support the housing to at least ø455.

The seal must be supported by the mounting structure to at least ø610, in order to ensure the full sealing effect.
A recess in the mounting structure of 10 mm above the housing is recommended.

Mounting holes
Y = 18 drill holes M20-40 deep, evenly distributed
Z = 18 drill holes ø22, evenly distributed

Lubricating ports
4 conical grease nipples on internal diameter
2 conical grease nipples on housing exterior
Slew drive supplied pre-lubricated

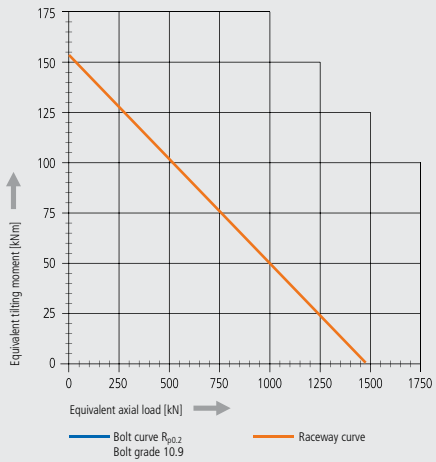
			Drawing number SP-H 0455/2-05910
Module	**m**	[mm]	8
Number of teeth, wheel	z_2	[-]	72
Number of teeth, pinion	z_1	[-]	15
Slew drive gear ratio	**i**	[-]	4.8
Overall gear ratio incl. gear box	i_{tot}	[-]	86.88
Max. torque	$M_{d\,max}$	[Nm]	27673
Nom. torque $S_F = 1$ at $n = 3\ min^{-1}$	$M_{d\,nom}$	[Nm]	18115
Max. holding torque*	$M_{h\,max}$	[Nm]	27673
Static load rating, radial	$C_{o\,rad}$	[kN]	552
Static load rating, axial	$C_{o\,ax}$	[kN]	1477
Dynamic load rating, radial	C_{rad}	[kN]	280
Dynamic load rating, axial	C_{ax}	[kN]	326
Weight, incl. 11 kg for hydraulic motor RE160		[kg]	207

* Optionally with brake

The hydraulic/electric motor is selected according to the actual requirements and customer specification.
Selection example:
Performance data with hydraulic motor RE160

Pressure differential	**Δp**	[bar]	165
Oil flow	**Q**	[l/min]	45
Output speed	**n**	[min $^{-1}$]	3
Max. achievable torque	M_d	[Nm]	27673

Limiting load diagram for compressive loads



Please always observe the technical information!

SP-H