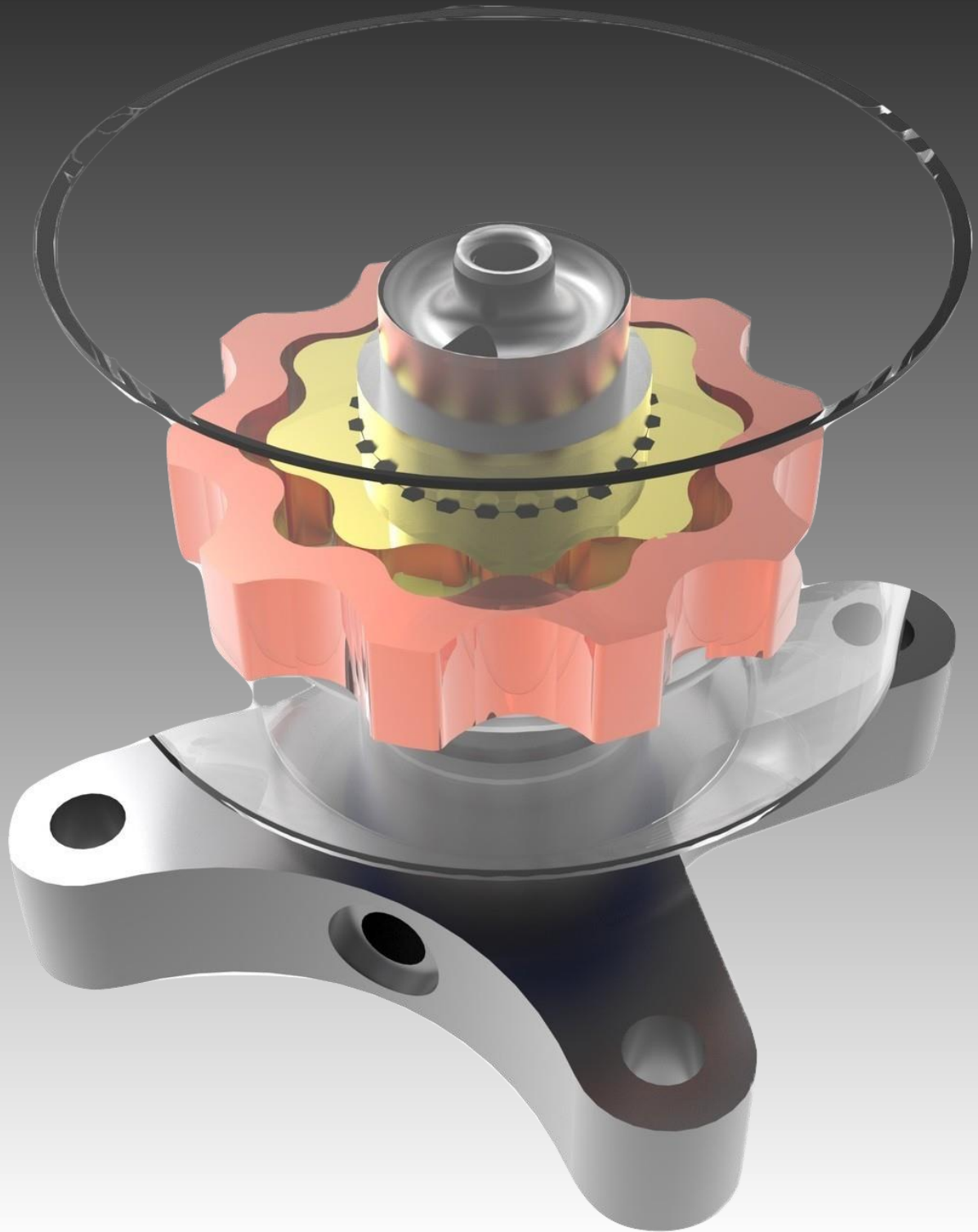


Rotators

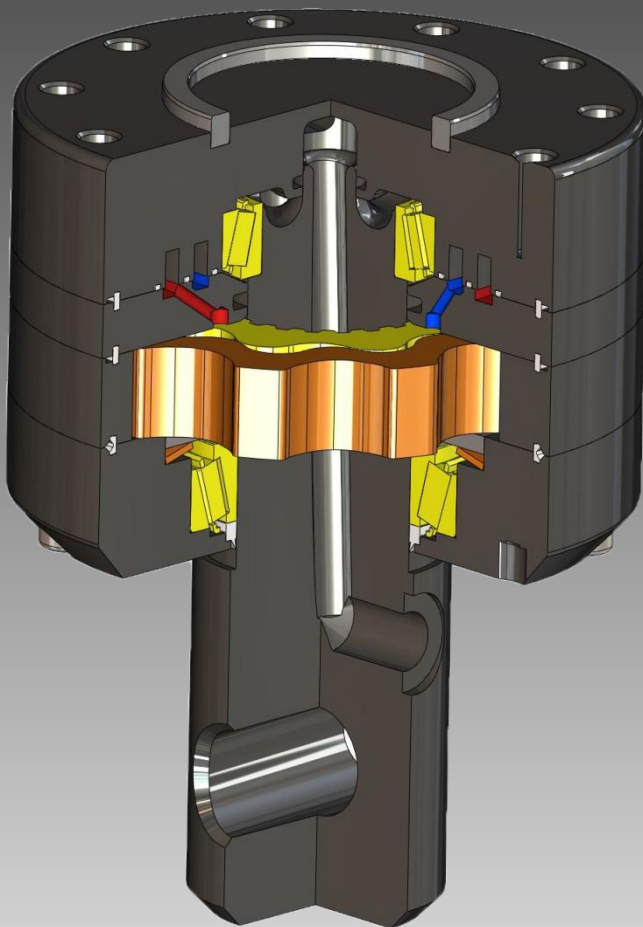
for Precise Positioning



The optimal solution for grapples with precise handling and lower energy consumption.

KGL

KGL rotators are made of high quality materials, each of them optimised and individually treated to match the requirements of a specific function perfectly, thus enhancing the overall performance. Due to an innovative design and high precision manufacturing KGL rotators achieve high volumetric efficiency regardless of the inlet pressure. Furthermore a specially designed pressure plate was developed to minimise friction within the drive unit, which enables the KGL rotators to run with one of the highest overall efficiency in the class. Because of a high braking torque, KGL rotators are especially suitable for applications where precise positioning of the load is needed.



Compact design with small outer dimensions ensures low overall mass.

Modular assembly is sealed by specially developed seals used between each module.

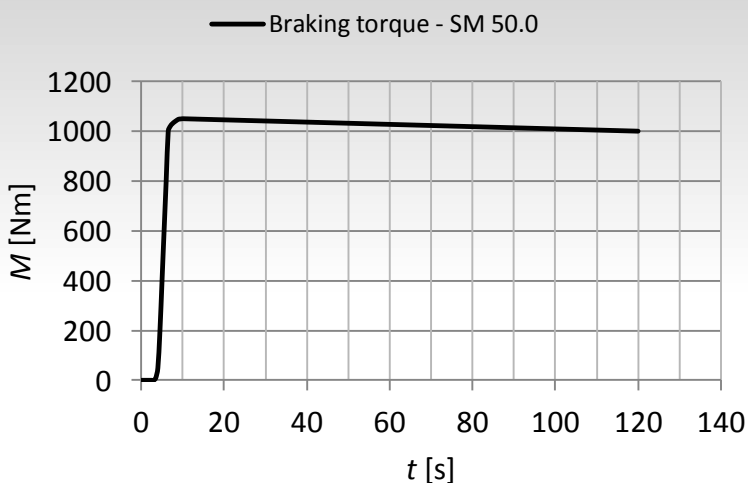
High capacity flow oil ducts for applications where high flow is needed.

Tapered roller bearings are used to withstand high axial loading.

The drive unit made of high stress steel with surface treatments enables smooth operation and improves durability.

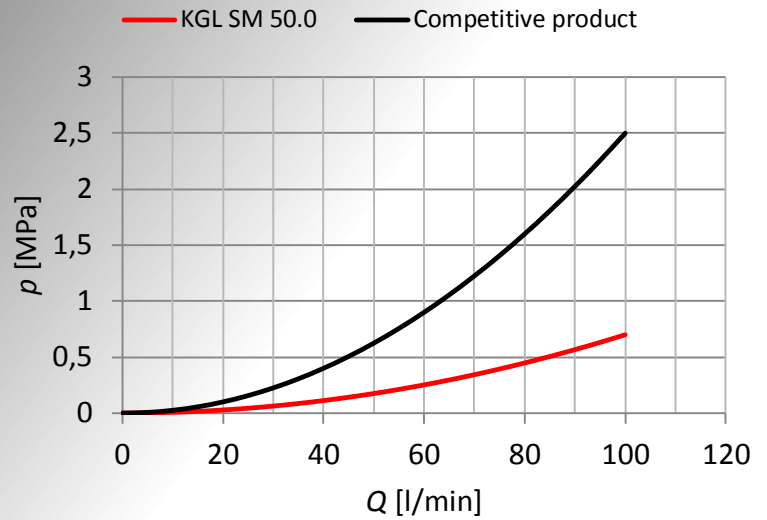
A high degree of sealing between the drive unit and distributor plate enables the motor to operate at a very high volumetric efficiency.

Specially designed pressure plate improves the overall efficiency of the motor regardless of the inlet pressure and increases braking torque.



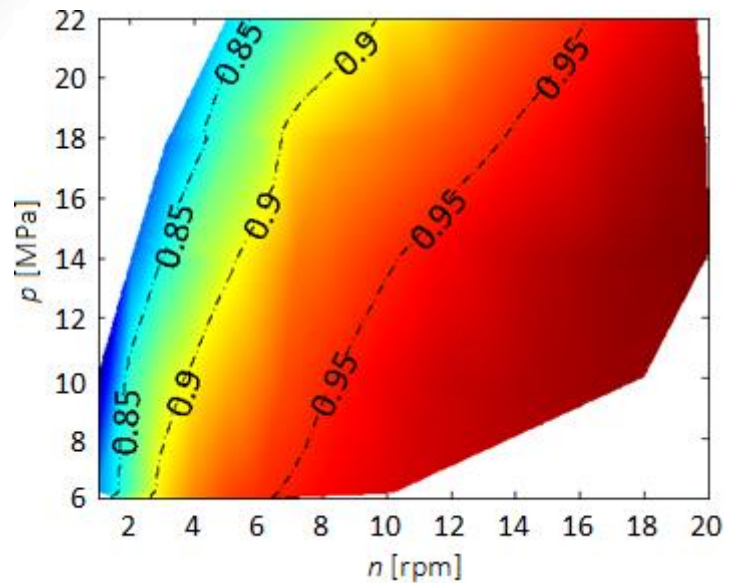
High oil flow capacity

One of the most important features that KGL rotators can offer is certainly high flow oil supply through the main shaft. With exceptionally large oil lines and enhanced passages they offer a world's leading in class performance and are very suitable for applications where high flow high pressure oil supply is needed.



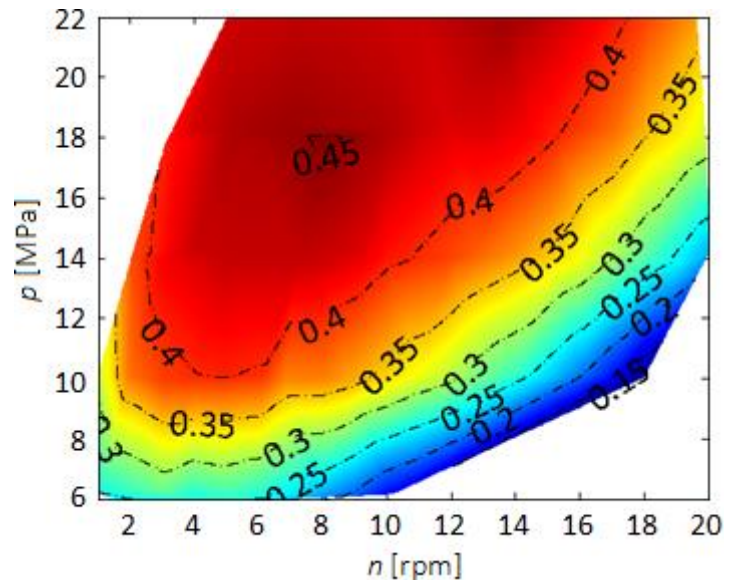
Volumetric efficiency

KGL rotators operate at a very high volumetric efficiency. Due to an innovative design sealing force between static parts and moving parts of the drive stays fairly constant regardless of the inlet pressure. With this feature KGL rotators achieve a volumetric efficiency of well above 0.9 for most part of the operational range.

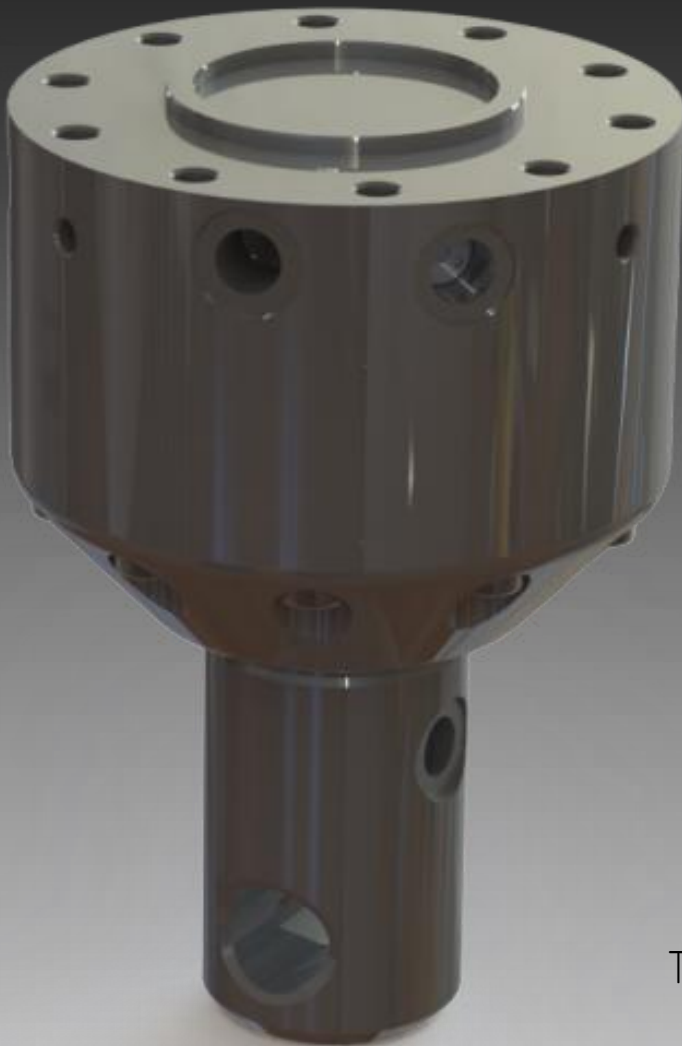


Overall efficiency

As a consequence of a high volumetric efficiency and surface treatments that enhance tribological contacts within the drive unit, KGL rotators achieve an overall efficiency up to 0.45 and operate above 0.4 in most conditions.



Model SM 50.0

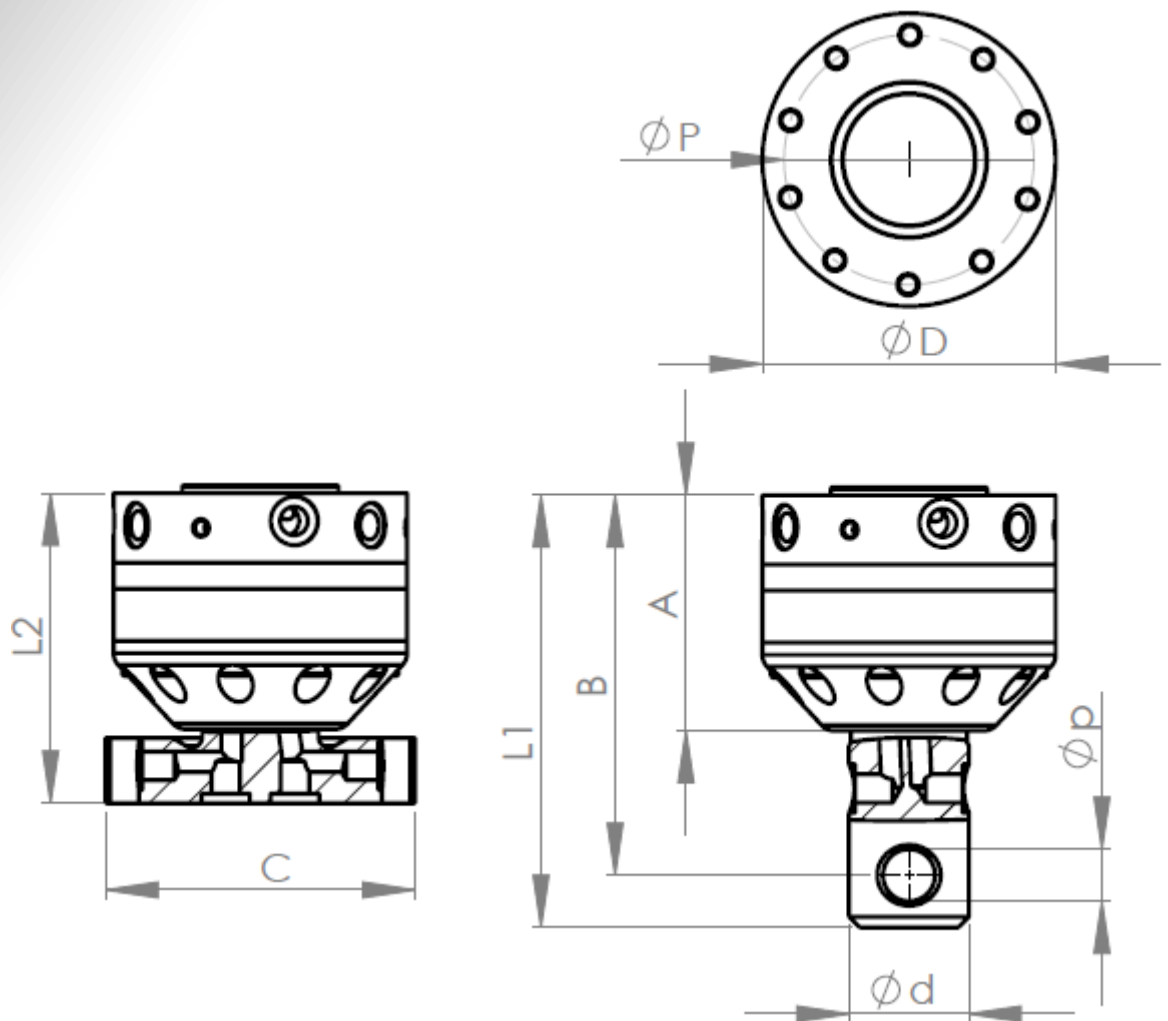


Technical data

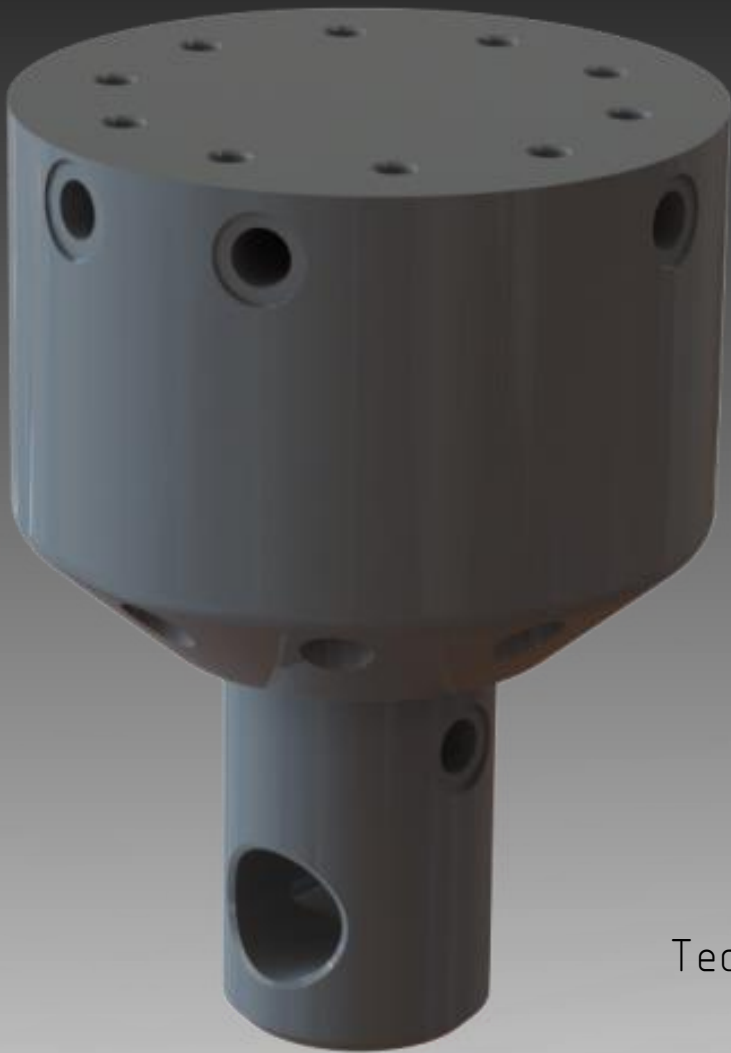
Mass	20 - 22 kg
Max. axial load	50 kN
Max. torque	1200 Nm
Braking torque	1000 Nm
Displacement	465 cm ³
Max. operational flow	9 l/min
Operating pressure	35 MPa
Rotation of the shaft	unlimited
Connections	G 1/2
Mounting holes	M12

Dimensions

L1	255 mm
L2	184 mm
ϕD	174 mm
ϕd	69 mm
A	141 mm
B	225 mm
C	178 mm
ϕP	144 mm
ϕp	30 mm



Model SM 100.0

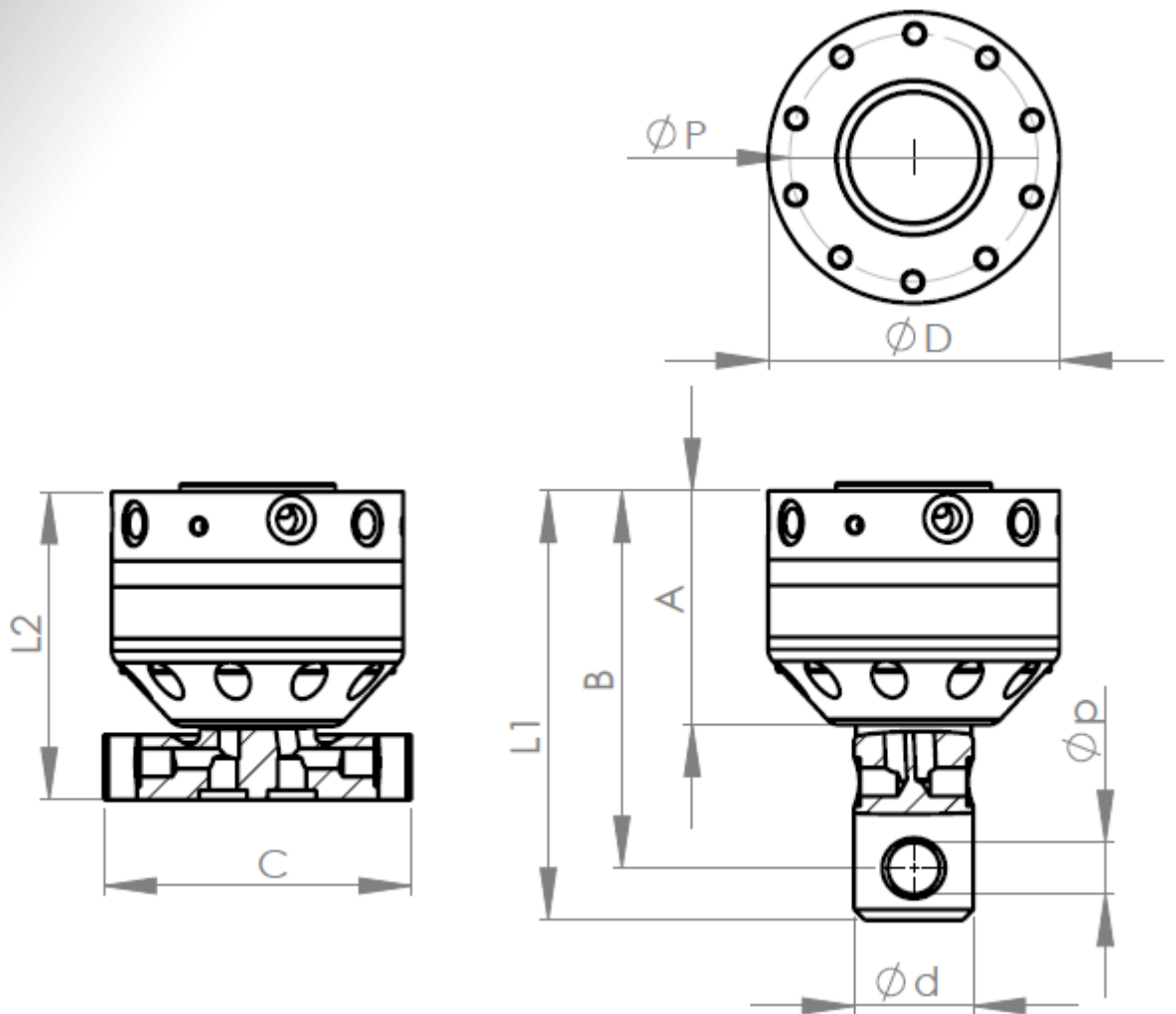


Technical data

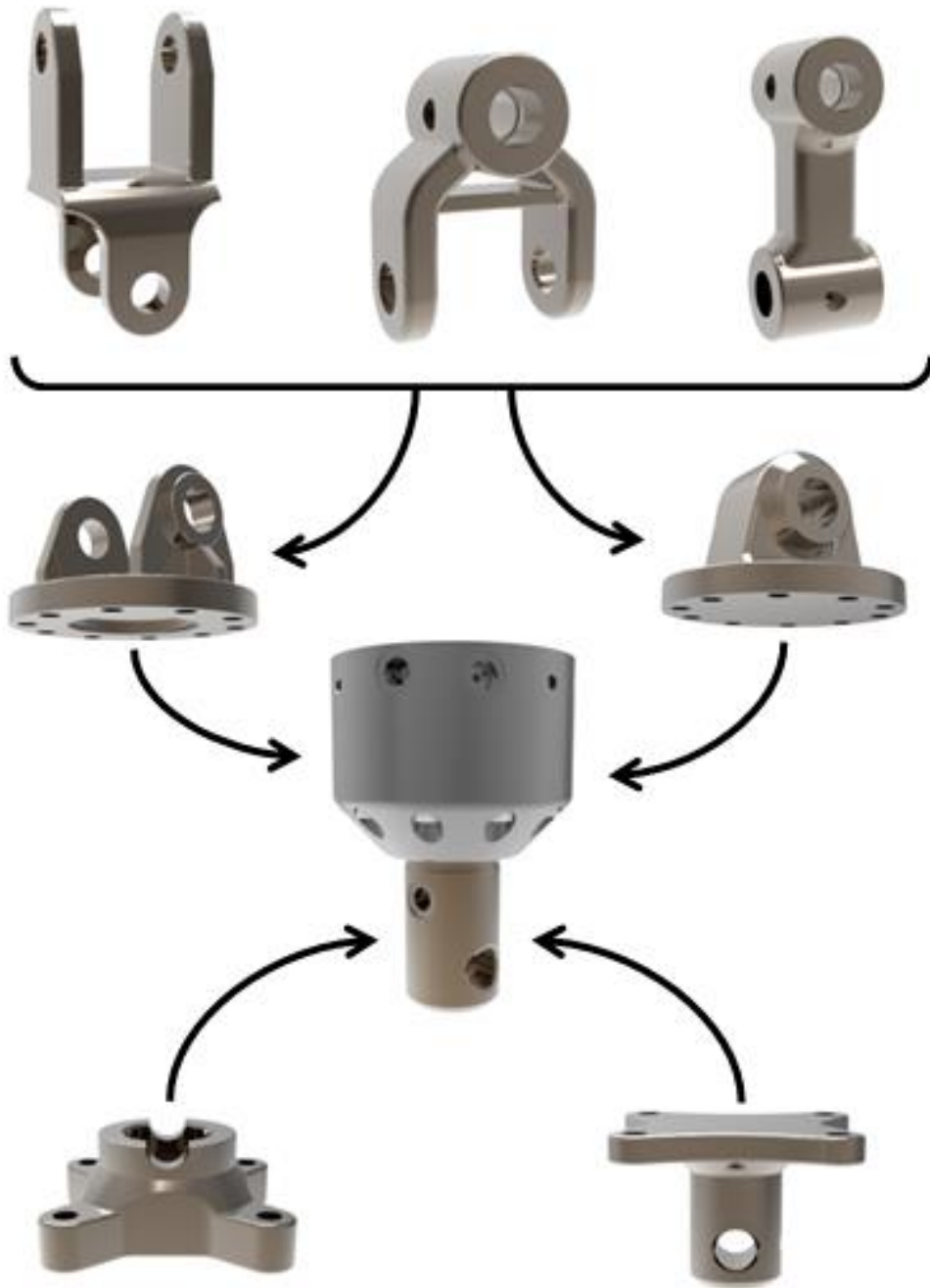
Mass	25 - 27 kg
Max. axial load	100 kN
Max. torque	2400 Nm
Braking torque	1500 Nm
Displacement	930 cm ³
Max. operational flow	15 l/min
Operating pressure	35 MPa
Rotation of the shaft	unlimited
Connections	G 1/2
Mounting holes	M12

Dimensions

L1	255 mm
L2	184 mm
ϕD	199 mm
ϕd	79 mm
A	141 mm
B	225 mm
C	178 mm
ϕP	144 mm
ϕp	30 mm



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