PTO- Gearboxes and Clutches

K A T S A

K a t s a - Geared for You
Technical Rating

- Max. Power 300kW
- Gear ratios $i = 0.46 \ldots 2.2$
- Max. Speed 4000rpm
- Centre distance 150mm
- Orientation vertically or horizontally
- Weight approx. 180kg

Input Options

- Engine Bell Housing connection
  J617 SAE 1 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Output Options
• Hydraulic Pump connection
  J744 SAE A to SAE C
• Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options
• Oil-pump & Pressure lubrication
• Integrated Dry Clutch at Input connection
L350 Series

Technical Rating
• Max. Power 1200kW
• Gear ratios $i = 0.5 \ldots 2.0$
• Max. Speed 4000rpm
• Centre distance 350mm
• Orientation vertically or horizontally
• Weight approx. 500kg

Input Options
• Engine Bell Housing connection
  J617 SAE 0 to SAE 3
• Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Output Options
• Hydraulic Pump connection
  J744 SAE A to SAE C
• Engine Bell Housing J617 SAE 0 to SAE 3
• Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options
• Oil-pump & Pressure lubrication
• Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque 16 000Nm
• Intermediate shaft for Output rotation direction optimization
Technical Rating
• Max. Power 2000kW
• Gear ratios $i = 0.25 \ldots 4.0$
• Max. Speed 4000rpm
• Centre distance 490 – 525mm
• Orientation vertically or horizontally
• Weight approx. 750kg

Input Options
• Engine Bell Housing connection
  J617 SAE 00 to SAE 3
• Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Output Options

- Hydraulic Pump connection J744 SAE A to SAE D
- Engine Bell Housing J617 SAE 0 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options

- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque 32 000Nm
- Intermediate shaft for Output rotation direction optimization
L700 Series

Technical Rating
- Max. Power 1200kW
- Gear ratios $i = 0.5 \ldots 25$
- Max. Speed 4000rpm
- Centre distance 700mm
- Orientation vertically or horizontally
- Weight approx. 900kg

Input Options
- Engine Bell Housing connection
  J617 SAE 00 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Output Options
- Hydraulic Pump connection
  J744 SAE A to SAE D
- Engine Bell Housing J617 SAE 0 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options
- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque 16 000Nm
- Intermediate shaft for Output rotation direction optimization
Technical Rating
• Max. Power 280kW
• Gear ratios $i = 0.5 \ldots 1$
• Max. Speed 4000rpm
• Centre distance 345mm
• Weight approx. 200kg

Input Options
• Engine Bell Housing connection
  J617 SAE 1 to SAE 3
• Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Output Options

- Hydraulic Pump connection
  J744 SAE A to SAE C
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options

- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input connection
  - Max. Hydraulic Clutch Torque 4000Nm
Technical Rating

- Max. Power 800kW
- Gear ratios $i = 0.6 \ldots 1.1$
- Max. Speed 4000rpm
- Centre distance 350mm
- Weight approx. 850kg

Input Options

- Engine Bell Housing connection J617 SAE 0 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Output Options

- Hydraulic Pump connection J744 SAE A to SAE C
- Engine Bell Housing J617 SAE 0 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options

- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque 11 000Nm
- Intermediate shaft for Output rotation direction optimization
Technical Rating

- Max. Power 1000kW
- Gear ratios $i = 0.66 \ldots 1.4$
- Max. Speed 4000rpm
- Centre distance 400mm
- Weight approx. 450kg

Input Options

- Engine Bell Housing connection
  - J617 SAE 0 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Output Options

- Hydraulic Pump connection J744 SAE B to SAE E
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options

- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque 4000Nm
- Intermediate shaft for Output rotation direction optimization
PTO500 Series

Technical Rating

- Max. Power 900kW
- Gear ratios $i = 0.66 \ldots 1.4$
- Max. Speed 4000rpm
- Centre distance 500mm
- Weight approx. 400kg

Input Options

- Engine Bell Housing connection
  J617 SAE 0 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
Three Outputs with Options

- Hydraulic Pump connections J744 SAE B to SAE E
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options

- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque at Input 16 000Nm
  - Max. Hydraulic Clutch Torque at Output 4000Nm
Technical Rating

- Max. Power 1200kW
- Gear ratios $i = 1$
- Max. Speed 4000rpm
- Centre distance 525mm
- Weight approx. 765kg

Input Options

- Engine Bell Housing connection
  J617 SAE 00 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange
One to Five Outputs with Options

- Hydraulic Pump connection J744 SAE B to SAE D
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options

- Oil-pump & Pressure lubrication
Technical Rating

- Max. Power, Diesel-Engine 570kW
- Max. Power, Electric-Motor 355kW
- Gear ratios $i = 0.6 \ldots 1.0$
- Max. Speed 2500rpm
- Centre distance 800mm
- Freewheel Mechanical Engagement of Inputs
- Weight approx. 800kg

Input Options

- Engine Bell Housing connection
  J617 SAE 00 to SAE 3
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

PTO800 Hybrid Series
Output Options
- Hydraulic Pump connection J744 SAE B to SAE E
- Open Shaft connection
  - Keyway
  - Spline, external / internal
  - Driveshaft Flange

Accessory Options
- Oil-pump & Pressure lubrication
- Integrated Wet Clutch at Input / Output
  - Max. Hydraulic Clutch Torque at Input 16 000Nm
  - Max. Hydraulic Clutch Torque at Output 4000Nm
Accessories for Katsa Gearboxes

Oil-Pump
- Integrated Gear Oil-Pumps for Pressure Lubrication and Clutch Operation

Oil-Cooling
- Oil – Water Heat Exchanger (Sea Water suitable)
- Oil – Air Cooler

Oil-Filtering
- Single / Double Pressure Filters

Clutch Manifold
- Standard Manifold with Hydraulic block & Proportional Valves
- Advanced Manifold with Local Gauges, Manual Override and Integrated Filter

Clutch Control Unit
- Microprocessor Controller
- Stand-Alone with Option for self-contained controller to Cabin or Control Bridge.
- Integrated via CAN-BUS

Remote Condition Monitoring
- Monitoring Unit
- IOT-Platform
Katsa Oy designs and manufactures power transmission components and complete gearbox solutions for world-class customers in the following business areas:

Main Business Areas

- Marine & Offshore
- Steel & Metals
- Pulp & Paper
- Energy
At Your Service

Katsa Oy designs and manufactures gear units and power transmission components. Since the establishment in 1955, Katsa Oy has been focusing on high-accuracy gearwheels and tailor-made gearboxes. Today, products can be found wherever True Expertise is needed.