

WHEN FULL POWER IS NEEDED



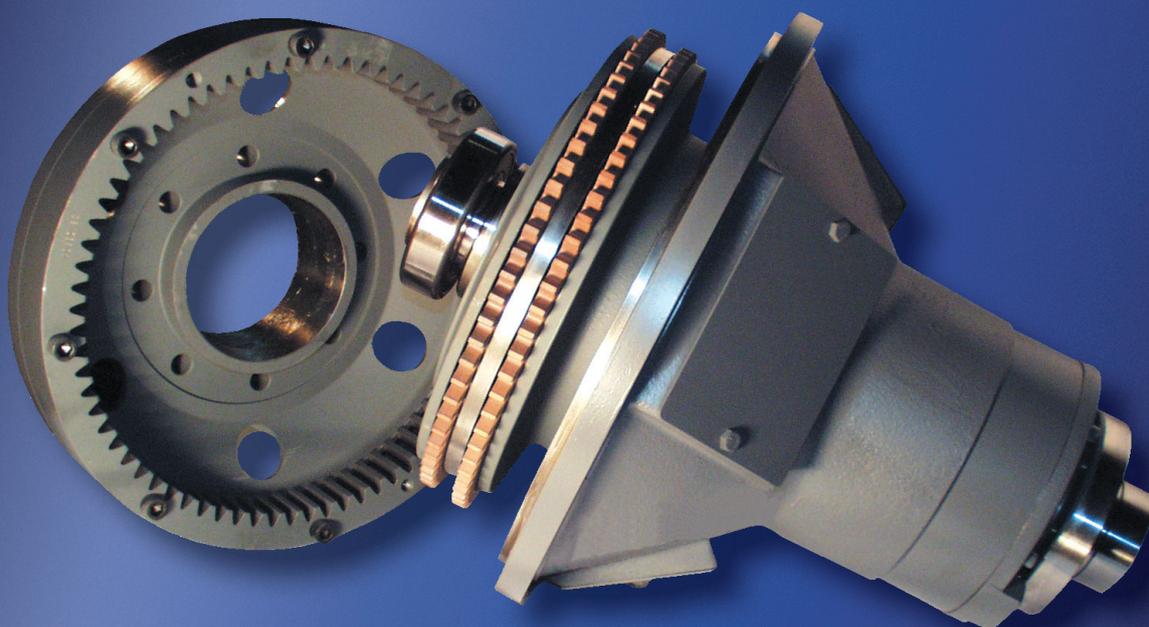
DRIVE TECHNOLOGY

DESCH Planox®-Friction Clutches

Type PH-hydraulically actuated

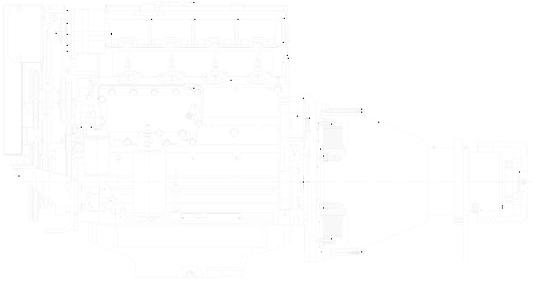


DCT

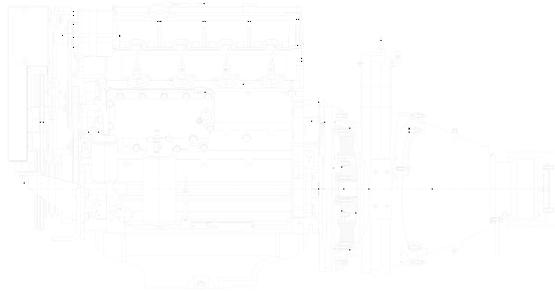


Technology PH-GB 06

Technology

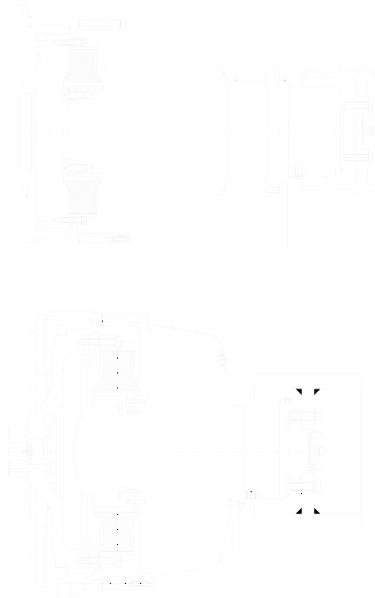


Drive system 1
directly mounted on motor



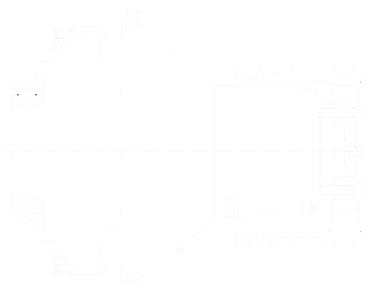
Drive system 2
mounted on pump drive

Examples of drive system 1

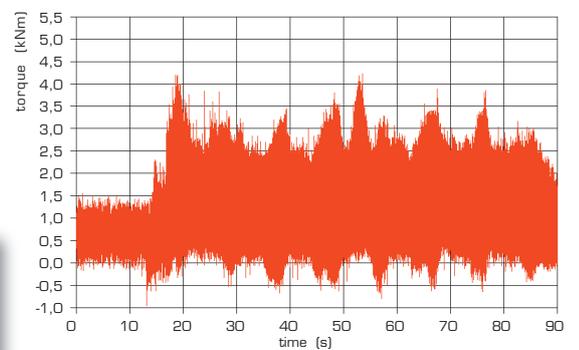


size	torque T_s at 35 bar Nm	max. speed PHA rpm	need of oil per gear shift		dimensions of installation	
			with new friction discs	with worn friction discs	SAE J 617 housing size	SAE J 620d, J 621 flywheel size
			L	L		
81	625	3200	0,021	0,039	5-4-3	8"
101	1035	3000	0,035	0,064	4-3-2-1	10"
111	1161	2850	0,035	0,064	4-3-2-1	11½"
112	2354	2850	0,035	0,092	3-2-1-0	11½"
113	3522	2850	0,035	0,092	3-2-1-0	11½"
142	4293	2500	0,058	0,145	1-0-00	14"
143	6425	2500	0,058	0,189	1-0-00	14"
163	9100	2200	0,073	0,279	0-00	16"
183	11170	1960	0,080	0,308	0-00	18"
213	14260	1600	0,087	0,398	00	21"

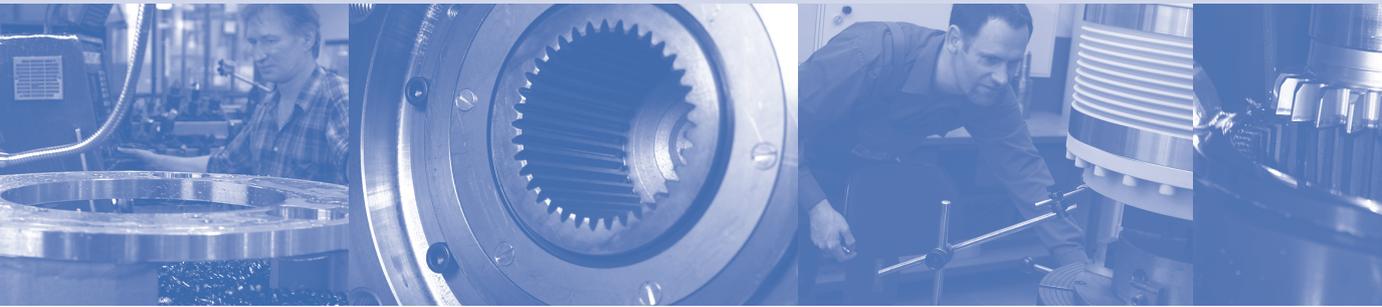
Example of drive system 2



Measurement of
vibration and torque
through telemetry

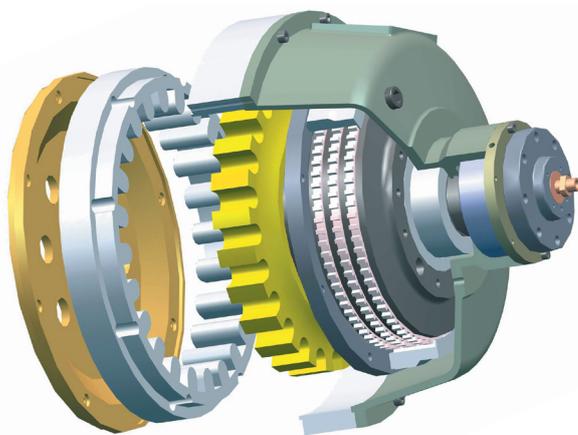


Torque measurement at site



DESCH Planox® Friction Clutches

DESCH Planox® friction clutches are engageable resp. disengageable dry-friction clutches with transmit torque by friction.



These clutches permit rapid acceleration of the driven machines or machinery groups as well as reliable torque transmission. Machines connected with friction clutches are protected against damage which can occur through peak torques during operation or during the engaging/disengaging process. The toothed ring must always be fitted at the input side of the clutch.

Hydraulically actuated

Hydraulically actuated Planox® clutches, type PH, have the design and mode of operation as the pneumatically actuated Planox® clutches. The cylinder chamber and seals are adapted to the specified pressure and to the medium oil. The oil is supplied through a central bore in the shaft. The torque indicated in the tables is reached at an oil pressure of 35 bar.

The release springs inside the clutch cause the oil to be displaced during the disengaging process, thus resulting in perfect disengagement.

The wear is offset by the length of the piston path increasing during the engaging process.

DESCH
Planox® friction clutch
Type PH-143/1-SZ
with highly flexible coupling

Examples



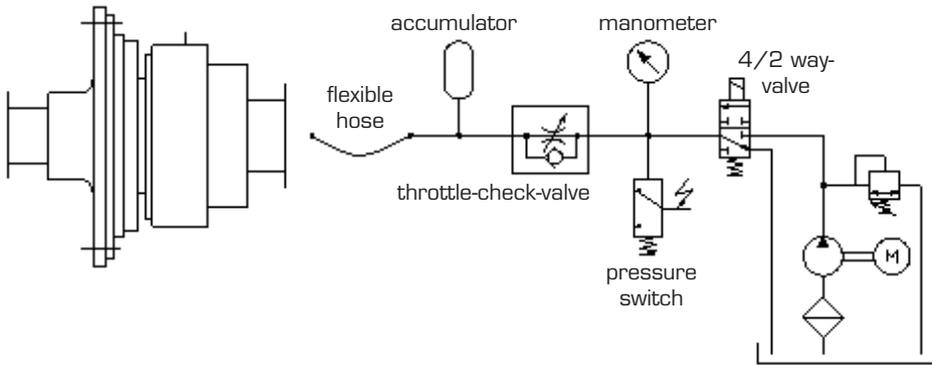
Road Milling Machine



Crusher



Chopping machine



Example of hydraulic actuating device

The hydraulic control of the clutch in the example consists of a 4/2-way-valve, an adjustable throttle-check-valve and an

accumulator. A manometer and pressure switch are used for pressure monitoring. The clutch is connected to the hydraulic unit by a rotary union and a short flexible hose.

To ensure a smooth engagement, the pressure build-up can be controlled via the throttle-check-valve. The accumulator is used to absorb pressure peaks and adjust pressure fluctuations. For disengagement the oil is to be led back pressure free into the tank.

For accelerating large masses a „smooth starting option“ can be applied alternatively where the pressure build-up can be individually controlled.

Product Range

Switch Clutches

- Planox® friction clutches
- Conax® friction clutches
- Centrex® centrifugal clutches

Flexible Couplings

- Hadeflex® couplings
- Habix® couplings
- Orpex® couplings
- DESCH Flex couplings
- DESCH HRC couplings

Rigid Couplings

Press Drives

- Lutex® clutch/brake combinations
- Complete press drives

Gears

- Planetary gears
- Special gears

Complete Transmission Solutions

- Flywheel back gears for no-delay units
- Drive stations for stretcher
- Levelling units
- Back gears with engageable/disengageable clutches

Belt Drives

- V-belt pulley drives
- Timing belt drives
- Flat belt drives
- V-belt pulley drives with taper bushes
- V-belt pulley and flywheels to customers' specification
- V-belts and timings belts
- Bolt-on-hubs
- Weld-on-hubs

Bearings

- Grease lubricated plain bearings

Telephone numbers of our head office in Arnberg

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DGP DESCH Gearbox and Press Drives	+49 (0) 29 32 300 - 153	300 - 811

DESCH is a member





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