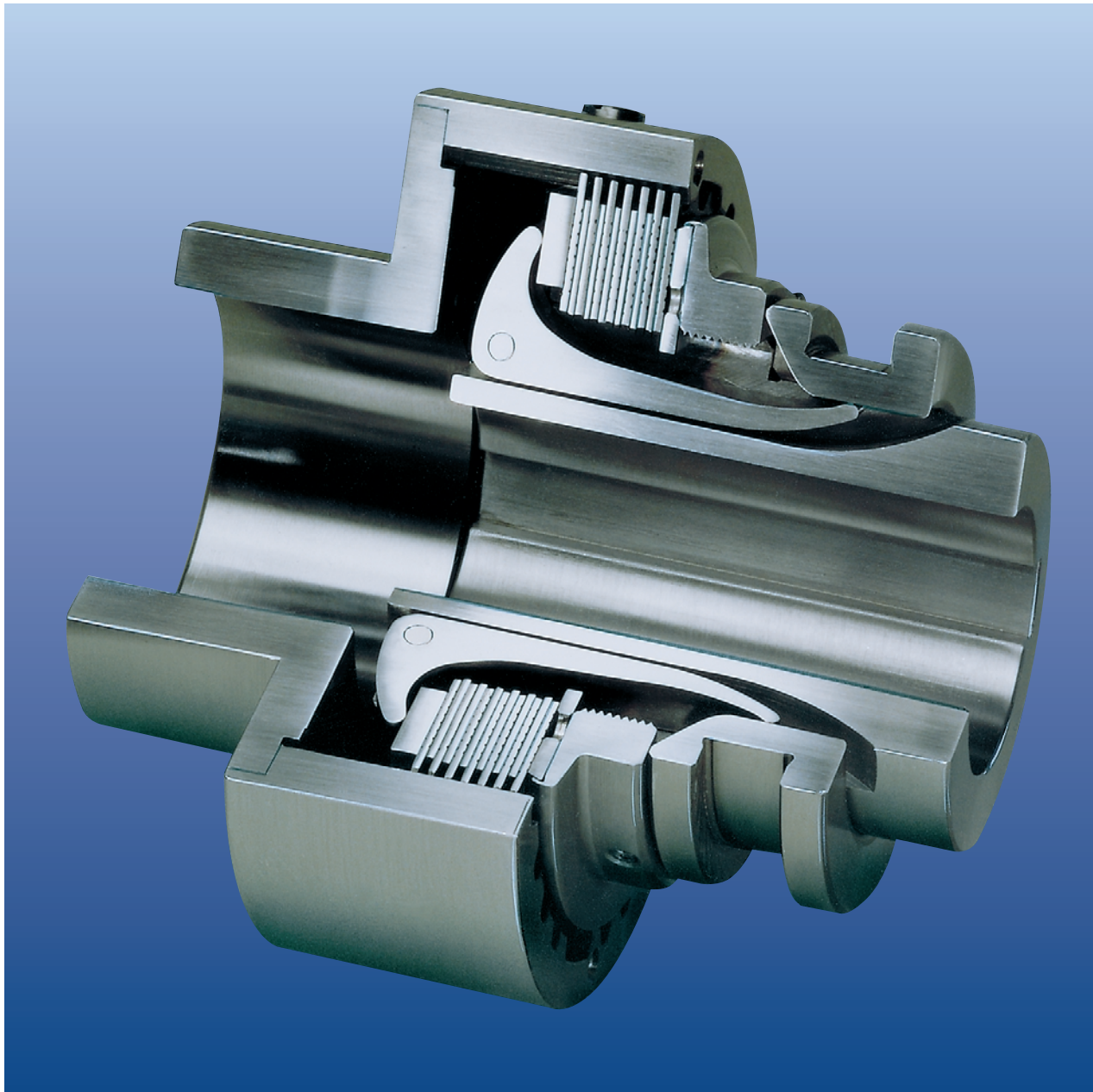
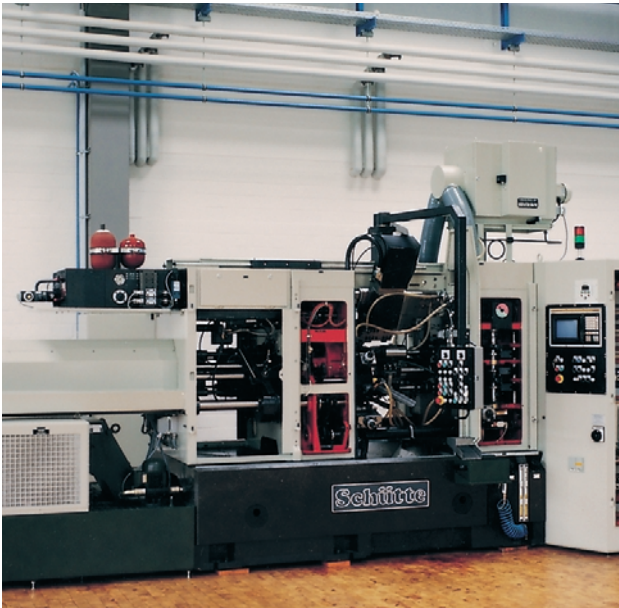


■ Mechanically actuated clutches



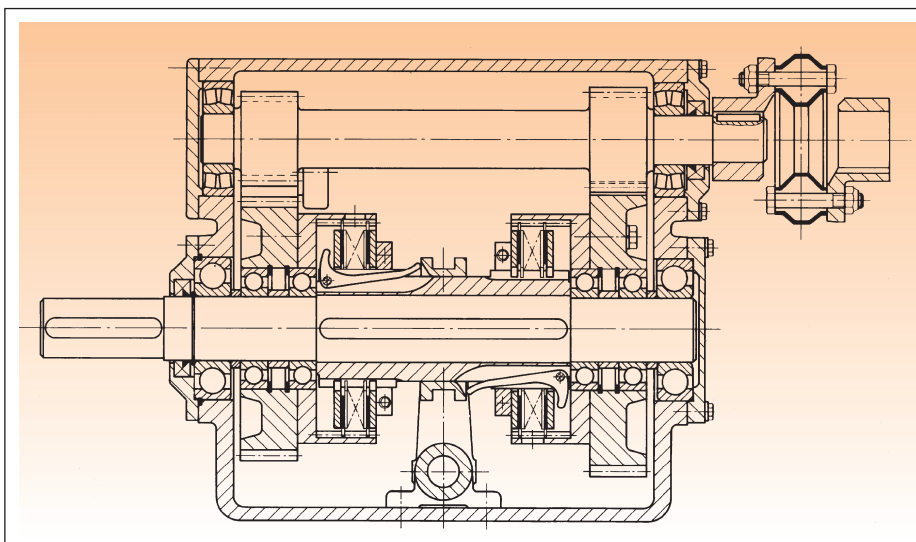
■ Mechanically actuated clutches



For many years Ortlinghaus mechanical clutches have been extremely popular and problem free. They offer a free choice in terms of the selection of the friction combination and the method of generating the engagement force.

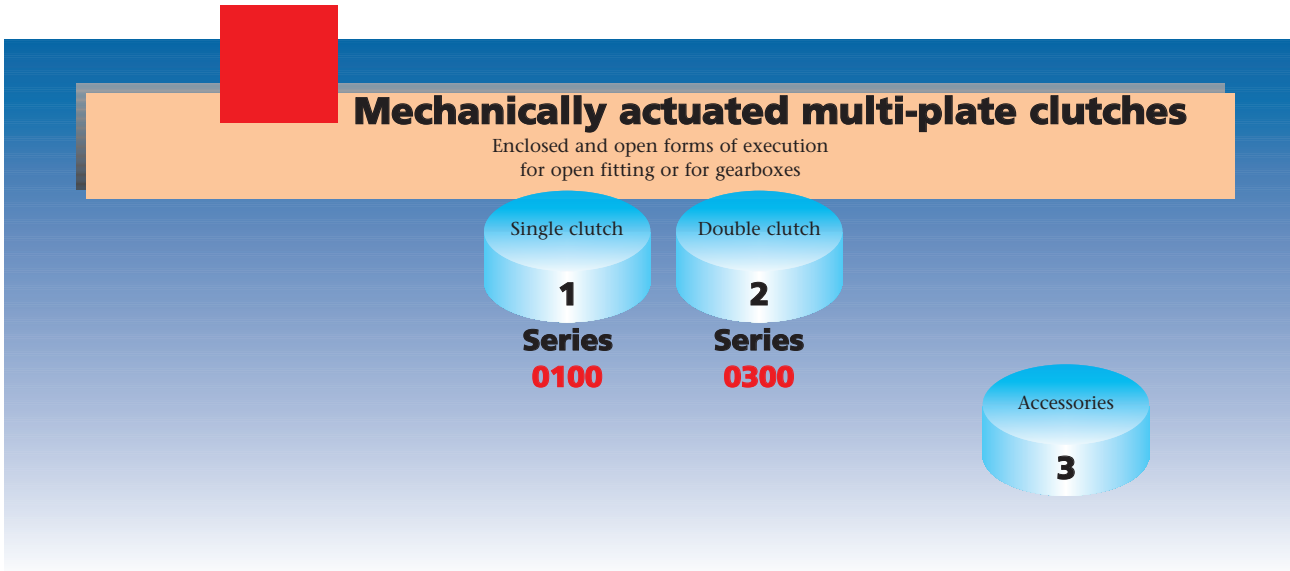
They are supplied with the friction combinations steel/steel, steel/sintered lining and steel/organic lining and as a result are suitable for wet-running and dry-running, i.e. they can be used in either an open design or a closed design.

Engagement and disengagement of the clutches is by means of a „sliding sleeve“ with a cam profile which is moved axially over resilient angle levers, these in turn transmit the required force to the set of plates. A limited amount of plate wear is compensated for by the resilient bending of the levers so that the torque capable of being transmitted remains constant to a large extent and adjustment is only necessary after an extended period of time. The engaging/disengaging movement can be introduced by means of hand levers, pneumatic or hydraulic cylinders or electromechanical actuation systems.



Fitting example

Mechanically actuated Ortlinghaus Sinus® multiplate double clutch and a highly elastic coupling fitted in a marine reversing gear.



Mechanically actuated multi-plate clutches for wet- and dry-running

1/2 Series 0100 and 0300

The many different design variations of the plate stack, driving housing and actuating elements, makes this clutch versatile for all applications. They are to be found in the transmission systems of construction and agricultural machines. As a double clutch on one common clutch hub, they can be used, for example, to permit a speed change or one of the two sides can be used as a brake.

3 Accessories

We can supply the following accessories for manual actuation of the clutches:

- Actuation rings which surround the sliding sleeve.
- Hand levers
- Sliding blocks of steel or bronze

These elements can also be used as the basic elements when designing hydraulic, pneumatic or electromechanical operating systems.

| No. | Series | Torque range Nm | Hub bore mm | Outside diam. mm |
|------------|------------------------|--------------------|----------------|---------------------|
| 1/2 | 0100- a. 0300-000/-001 | 20 to 5300 | 10 to 130 | 70 to 435 |
| | -002/-003 | 900 to 5300 | 28 to 130 | 210 to 435 |
| | -004/-005 | 20 to 1400 | 10 to 80 | 65 to 260 |
| | -006/-007 | 20 to 1400 | 10 to 80 | 65 to 260 |

Fax questionnaire

for clutches and brakes

Please complete in block capitals!

Ortlinghaus SINCE 1898

THE TECHNOLOGY OF CONTROLLED TORQUE

Sender:

Name, first name

Company

Department

Telephone (extension)

Fax

Recipient:

Ortlinghaus-Werke GmbH
Kenkhauser Straße 125 · Postbox 14 40
42907 Wermelskirchen · Germany
Tel. +49 2196 85-0 · Fax +49 2196 855-444
info@ortlinghaus.com · www.ortlinghaus.com

for the attention of (if known)

Fax-No. +49 2196 855-444

Actuation type:

mechanica

electromagnetic

hydraulic

pneumatic

spring-loaded

Driving machine:

Electric motor

Combustion engine

Hydraulic motor

Other: _____

Transmission situation:

Fitting situation:

Axis of rotation horizontal

vertical

exposed

in closed housing

Shaft diameter:

on input side $d_1 =$ _____ mm

on output side $d_2 =$ _____ mm

Motordaten:

Output $P =$ _____ kW

Speed $n =$ _____ min^{-1}

Torques on clutch or brake:

capable of being switched $M_S =$ _____ Nm

capable of being transmitted $M_U =$ _____ Nm

load moment $M_L =$ _____ Nm

progression of M_L , if this changes: _____

Initial input speed:

$n_{10} =$ _____ min^{-1}

Initial output speed:

$n_{20} =$ _____ min^{-1}

Maximum relative speed:

$\Delta n =$ _____ min^{-1}

Condition at switching:

stationary

full load

without load

switching frequency $S_h =$ _____ h^{-1}

acceleration/deceleration time $t_3 =$ _____ s

Moments of inertia about clutch/brake shaft axis:

input side $J_A =$ _____ kgm^2

output side $J_L =$ _____ kgm^2

Progression of J_A , J_L , if these change: _____

Further details:

