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.

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

Enclosed and open forms of execution
for open fitting or for gearboxes

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.

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.

<table>
<thead>
<tr>
<th>No.</th>
<th>Series</th>
<th>Torque range</th>
<th>Hub bore</th>
<th>Outside diam.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>0100- a. 0300-000-001</td>
<td>20 to 5300</td>
<td>10 to 130</td>
<td>70 to 435</td>
</tr>
<tr>
<td></td>
<td>-002/-003</td>
<td>900 to 5300</td>
<td>28 to 130</td>
<td>210 to 435</td>
</tr>
<tr>
<td></td>
<td>-004/-005</td>
<td>20 to 1400</td>
<td>10 to 80</td>
<td>65 to 260</td>
</tr>
<tr>
<td></td>
<td>-006/-007</td>
<td>20 to 1400</td>
<td>10 to 80</td>
<td>65 to 260</td>
</tr>
</tbody>
</table>
**Fax questionnaire for clutches and brakes**

Please complete in block capitals!

<table>
<thead>
<tr>
<th>Sender:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name, first name</td>
</tr>
<tr>
<td>Company</td>
</tr>
<tr>
<td>Department</td>
</tr>
<tr>
<td>Fax</td>
</tr>
</tbody>
</table>

**Recipient:**

Ortlinghaus-Werke GmbH
Kenkhauser Straße 125 · Postbox 14 40
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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:**
- [ ] mechanaic
- [ ] electromagnetic
- [ ] hydraulic
- [ ] pneumatic
- [ ] spring-loaded

**Driving machine:**
- Electric motor
- Combustion engine
- Hydraulic motor
- Other:__________________________

**Transmission situation:**

**Fitting situation:**
- Axis of rotation horizonta
- 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:**

________________________________________________________________________________

________________________________________________________________________________

________________________________________________________________________________