Tangential pay-off cantilevered shaft

To be loaded from the side, therefore no additional space required to the back. Version with lifting device possible.

Pay-off pintle type

Loading in line direction, therefore no additional space required to the side. Reels can be easily changed with lifting devices and opening of the pintles.

Pay-off for containers

Pay-off portal type

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Tangential Pay-off</th>
<th>Pay-off pintle type</th>
<th>Pay-off portal type</th>
<th>Pay-off for containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>wire diameter</td>
<td>0.05 – 8 mm</td>
<td>0.05 – 8 mm</td>
<td>on demand</td>
<td>0.1 – 3 mm</td>
</tr>
<tr>
<td>wire bundle / stranded wire</td>
<td>0.002 – 0.315 inch</td>
<td>0.002 – 0.315 inch</td>
<td>on demand</td>
<td>0.04 – 0.18 inch</td>
</tr>
<tr>
<td>max. speed</td>
<td>3,937 fpm</td>
<td>5,905 fpm</td>
<td>984 fpm</td>
<td>1,148 fpm</td>
</tr>
<tr>
<td>reels</td>
<td>1,200 m/min</td>
<td>1,800 m/min</td>
<td>300 m/min</td>
<td>350 m/min</td>
</tr>
<tr>
<td>reel bore</td>
<td>3.15 – 39.37 inch</td>
<td>3.15 – 78.74 inch</td>
<td>47.244 – 126 inch</td>
<td>max. 47.244 inch</td>
</tr>
<tr>
<td>max. reel weight</td>
<td>1,300 kg</td>
<td>3,000 kg</td>
<td>30,000 kg</td>
<td>–</td>
</tr>
<tr>
<td>tension</td>
<td>0.225 – 112.4 lbf</td>
<td>0.225 – 562.02 lbf</td>
<td>max. 4,496.18 lbf</td>
<td>–</td>
</tr>
<tr>
<td>reel clamping mechanics</td>
<td>pneumatic or hydraulics</td>
<td>pneumatic, hydraulics or electric motor</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

Values indicated delimit the range of possibilities, but never apply together for a single product. Also exceeding these limits is possible in individual cases.

APPLICATIONS

• spinning and taping lines
• galvanizing lines
• rolling mills
• rewinding units
• stranders
• extrusion lines
• annealing and sintering lines
• varnishing lines

SPECIAL CHARACTERISTICS

• optimal constancy of tension by means of application specific control
• tension independent of speed
• easy loading and unloading of the reels by lifting devices and quick release systems
• product leaves the reel by 90° if equipped with traversing reel

VERSIONS

• horizontal or vertical
• driven or braked
• with dancer, tension or speed control
• with traversing reel
• multiple pay-off

OPTIONS AND ACCESSORIES

• lifting device
• measuring devices and displays
• automatic height correction
• protection devices
• special models
Tangential Take-up with cantilevered shaft

To be loaded from the side, therefore no additional space required to the back. Version with lifting device and traversing reel possible.

Take-up pintle type

Loading in line direction, therefore no additional space required to the side. Reels can be easily changed with the lifting device and opening of the pintles.

Automatic Take-up

Automatic changing of the reels and restart.

Take-up portal type

traversing reel available

Universal Take-up

for reels and containers

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>Tangential Take-up</th>
<th>Take-up pintle type</th>
<th>Take-up portal type</th>
<th>Take-up for reels and containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>wire diameter</td>
<td>0.05 – 8 mm</td>
<td>0.05 – 8 mm</td>
<td>on demand</td>
<td>0.5 – 5.5 mm</td>
</tr>
<tr>
<td></td>
<td>0.002 – 0.315 inch</td>
<td>0.002 – 0.315 inch</td>
<td></td>
<td>0.02 – 0.217 inch</td>
</tr>
<tr>
<td>wire bundle /</td>
<td>0.05 – 25 mm²</td>
<td>0.05 – 120 mm²</td>
<td>on demand</td>
<td>1.0 – 5.5 mm²</td>
</tr>
<tr>
<td>stranded wire</td>
<td>0.000078 – 0.039 inch²</td>
<td>0.000078 – 0.186 inch²</td>
<td></td>
<td>0.00155 – 0.0085 inch²</td>
</tr>
<tr>
<td>cable diameter</td>
<td>max. 30 mm</td>
<td>max. 30 mm</td>
<td>on demand</td>
<td>max. 5 mm</td>
</tr>
<tr>
<td></td>
<td>max. 1.181 inch</td>
<td>max. 1.181 inch</td>
<td></td>
<td>max. 0.197 inch</td>
</tr>
<tr>
<td>rectangular wire</td>
<td>0.5 – 50 x 0.1 – 10 mm</td>
<td>0.5 – 50 x 0.1 – 10 mm</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>0.02 – 1.97 x 0.004 – 0.393 inch</td>
<td>0.02 – 1.97 x 0.004 – 0.393 inch</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>max. speed</td>
<td>1,200 m/min</td>
<td>1,800 m/min</td>
<td>300 m/min</td>
<td>120 m/min</td>
</tr>
<tr>
<td></td>
<td>3,937 fpm</td>
<td>5,905 fpm</td>
<td>984 fpm</td>
<td>393.7 fpm</td>
</tr>
<tr>
<td>reels</td>
<td>80 – 1,000 mm</td>
<td>80 – 2,000 mm</td>
<td>1,200 – 3,200 mm</td>
<td>K250 – K500</td>
</tr>
<tr>
<td></td>
<td>3.15 – 39.37 inch</td>
<td>3.15 – 78.74 inch</td>
<td>47.244 – 126 inch</td>
<td>A200 – A630, M250 – M800</td>
</tr>
<tr>
<td>reel bore</td>
<td>16 – 250 mm</td>
<td>16 – 250 mm</td>
<td>30 – 350 mm</td>
<td>–</td>
</tr>
<tr>
<td>max. reel weight</td>
<td>1,300 kg</td>
<td>3,000 kg</td>
<td>30,000 kg</td>
<td>1,200 kg</td>
</tr>
<tr>
<td></td>
<td>2,866 lb</td>
<td>6,613 lb</td>
<td>66,138 lb</td>
<td>2,645 lb</td>
</tr>
<tr>
<td>tension</td>
<td>1.0 – 500 N</td>
<td>1.0 – 2,500 N</td>
<td>max. 20,000 N</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>0.225 – 112.4 lbf</td>
<td>0.225 – 562.02 lbf</td>
<td>max. 4,496.18 lbf</td>
<td>–</td>
</tr>
<tr>
<td>reel clamping</td>
<td>mechanics</td>
<td>pneumatic or hydraulics</td>
<td>pneumatic, hydraulics or electric motor</td>
<td>mechanics</td>
</tr>
</tbody>
</table>

Values indicated delimit the range of possibilities, but never apply together for a single product. Also exceeding these limits is possible in individual cases.

### APPLICATIONS

- spinning and taping lines
- galvanizing lines
- rolling mills
- rewinding units
- bunchers and stranders
- extrusion lines
- annealing and sintering lines
- varnishing lines

### SPECIAL CHARACTERISTICS

- optimal constancy of tension by means of application specific control
- tension independent of speed
- easy loading and unloading of the reels by the lifting device and quick release systems
- product leaves the reel by 90° if equipped with traversing reel

### VERSIONS

- horizontal or vertical
- with dancer, tension or speed control
- with traversing reel
- multiple take-up
- layer winding
- with integrated capstan
- automatic take-up with reel magazine

### OPTIONS AND ACCESSORIES

- lifting device
- measuring devices and displays
- automatic height correction
- protection devices
- optical reel flange scanner
- special models
Caterpillar
with 2 drives for rectangular wire lines

Cable Caterpillar
with 1 drive and flexible segments for optimum guiding of large-sized cables

Double Capstan
defines master line speed

Single Capstan
Tension control for maintaining a constant product tension. Used in rectangular wire lines for example.

APPLICATIONS
• spinning and taping lines
• galvanizing lines
• rolling mills
• rewinding units
• stranders
• extrusion lines
• annealing and sintering lines
• varnishing lines

VERSIONS
• with dancer, tension or speed control
• caterpillars with synchronization available
• different surfaces and contours depending on product
• integrated water cooling for applications with thermal processes

OPTIONS AND ACCESSORIES
• pressing belt for capstan, solid or pneumatic tensioning
• alternatively with gearless drive
• protective devices
• special versions

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Caterpillar</th>
<th>Cable Caterpillar</th>
<th>Double Capstan</th>
<th>Single Capstan</th>
</tr>
</thead>
<tbody>
<tr>
<td>speed</td>
<td>0 – 250 m/min</td>
<td>0 – 250 m/min</td>
<td>0 – 1,500 m/min</td>
<td>0 – 250 m/min</td>
</tr>
<tr>
<td>tension</td>
<td>max. 1,000 N</td>
<td>max. 1,500 N</td>
<td>max. 1,000 N</td>
<td>max. 1,500 N</td>
</tr>
<tr>
<td></td>
<td>max. 224 lbf</td>
<td>max. 337 lbf</td>
<td>max. 224 lbf</td>
<td>max. 337 lbf</td>
</tr>
<tr>
<td>surface</td>
<td>rubber, silicone</td>
<td>rubber, silicone</td>
<td>rubber, carbide metal, ceramics, stainless steel</td>
<td>rubber, carbide metal, ceramics, stainless steel</td>
</tr>
<tr>
<td>pressing length / diameter</td>
<td>300 – 1,000 mm</td>
<td>max. 1,500 mm</td>
<td>80 – 900 mm</td>
<td>250 – 900 mm</td>
</tr>
<tr>
<td></td>
<td>11.811 – 39.37 inch</td>
<td>max. 59.06 inch</td>
<td>3.15 – 35.433 inch</td>
<td>9.84 – 35.433 inch</td>
</tr>
</tbody>
</table>

Values indicated delimit the range of possibilities, but never apply together for a single product. Also exceeding these limits is possible in individual cases.
### Control Dancer

With 1 thread, swiveling or static

### Linear Dancer

In case of space problems

### Wire Accumulator

### Control Dancer

- with 1 thread, swiveling or static

### Linear Dancer

- with several threads

### Wire Accumulator

- in case of space problems

---

#### Technical data

<table>
<thead>
<tr>
<th></th>
<th>Control Dancer</th>
<th>Linear Dancer</th>
<th>Wire Accumulator</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>tension</strong></td>
<td>1 – 500 N</td>
<td>10 – 500 N</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>0.225 – 112.5 lbf</td>
<td>2.25 – 112.5 lbf</td>
<td>–</td>
</tr>
<tr>
<td><strong>pulley diameter</strong></td>
<td>80 – 700 mm</td>
<td>80 – 500 mm</td>
<td>80 – 500 mm</td>
</tr>
<tr>
<td></td>
<td>3.15 – 27.56 inch</td>
<td>3.15 – 19.685 inch</td>
<td>3.15 – 19.685 inch</td>
</tr>
<tr>
<td><strong>pulley material</strong></td>
<td>POM, aluminium, ceramically coated</td>
<td>POM, aluminium, ceramically coated</td>
<td>POM, aluminium, ceramically coated</td>
</tr>
<tr>
<td><strong>number of threads</strong></td>
<td>1 – 4</td>
<td>1 – 4</td>
<td>3 – 20</td>
</tr>
<tr>
<td><strong>max. length of accumulator</strong></td>
<td>3 m</td>
<td>5 m</td>
<td>200 m</td>
</tr>
<tr>
<td></td>
<td>9.84 ft</td>
<td>16.4 ft</td>
<td>656 ft</td>
</tr>
</tbody>
</table>

Values indicated delimit the range of possibilities, but never apply together for a single product. Also exceeding these limits is possible in individual cases.

### APPLICATIONS

- spinning and taping machines
- galvanizing machines
- rolling mills
- rewinding units
- stranders
- extrusion lines
- annealing and sintering machines
- varnishing machines

### VERSIONS

**DANCER:**
- swinging or linear dancer
- number of threads to be adapted to the needs of the product
- adjustment of the tension by counter weight or air pressure possible
- use of a precision pressure regulator for setting the tension from the PLC

**ACCUMULATOR:**
- operating mode as accumulator only or with dancer
- vertical standard version
- horizontal wire accumulator by request

### OPTIONS AND ACCESSORIES

- covers
- tension measurement with display
- automatic wire clamps
- protective devices
- special versions
AUTOMATIC PAPER DISPENSER

For avoiding damage to the surface, the paper supply automatically slides a layer of paper between each (umpteenth) wire layer. Both the time of inserting and the length of the paper can be adjusted.

In addition to integrating in our take-ups, it is also possible to mount it on take-ups from other manufacturers.

### Technical Data

<table>
<thead>
<tr>
<th>Speed</th>
<th>max. 25 m/min</th>
<th>max. 82 fpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper width</td>
<td>80 – 250 mm, by request up to 450 mm</td>
<td>3.15 – 9.84 inch, by request up to 17.71 inch</td>
</tr>
<tr>
<td>Reel diameter</td>
<td>350 mm</td>
<td>13.78 inch</td>
</tr>
<tr>
<td>Paper feeding</td>
<td>adjustable per layer</td>
<td></td>
</tr>
</tbody>
</table>
Factory 1: Hydro-Power
Albersrieth 27 | 92727 Waldthurn
Germany/Bavaria
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Fax: +49 (0) 9657/930-123
info@lukas-anlagenbau.de
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Factory 2: Wire & Cable
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