

## Twiflex Compact Disc Brake Caliper Range

Founded in 1946, Twiflex specialises in the design and production of a range of mechanical power transmission components that includes industrial disc brakes, centrifugal clutches and resilient couplings.

The core business is built on the world's broadest range of caliper brakes; from light-duty, hand-applied holding brakes for the textile industry to spring-applied hydraulic emergency brakes for mining applications.

### Customer Service and Application Support

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The **MU** caliper is the smallest lever brake in the Twiflex range. Typically it is used for light duty stopping and holding on 8 mm or 12.7 mm thick discs.

Max. braking force: 2.75 kN

| MU        | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ○              | ●              |
| Pneumatic | ●              | ●              |
| Hydraulic | ○              | ○              |
| Electric  | ○              | ○              |



The **MS** (aluminium construction) and **MS100** (cast iron construction with pivoting shoes) calipers are designed to be used with 12.7 mm thick discs.

Max. braking force: 2.76 kN

| MS/MS100  | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ●              | ●              |
| Pneumatic | ●              | ●              |
| Hydraulic | ●              | ●              |
| Electric  | ○              | ○              |



The **MR** brake is a base-mounted (the **SMR** is available for side-mounting) lever type design. Discs of 12.7 mm or 25.4 mm thickness should be used.

Max. braking force: 10.8 kN

| MR/SMR    | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ●              | ●              |
| Pneumatic | ●              | ●              |
| Hydraulic | ●              | ●              |
| Electric  | ○              | ●              |



The **MX** range of calipers can accommodate 12.7 mm, 25.4 mm, 30 mm and 40 mm thick discs, and features a side-mounted option (**SMX**) for installation flexibility.

Max. braking force: 14.3 kN

| MX/SMX    | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ●              | ●              |
| Pneumatic | ●              | ●              |
| Hydraulic | ●              | ●              |
| Electric  | ○              | ●              |



The **GMX** is a large-pad version of the MX range, for use where higher power dissipation is required. Disc thickness should be 25.4 mm, 30 mm, or 40 mm.

Max. braking force: 14.3 kN

| GMX       | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ●              | ●              |
| Pneumatic | ●              | ●              |
| Hydraulic | ●              | ●              |
| Electric  | ○              | ●              |



The **GMR** caliper is Twiflex's largest lever brake design for heavy-duty stopping and holding duty. It is used on discs of 25.4 mm or 40 mm thickness.

Max. braking force: 36.0 kN

| GMR       | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ○              | ●              |
| Pneumatic | ●              | ●              |
| Hydraulic | ●              | ●              |
| Electric  | ○              | ●              |



The **T2** is the smallest modular (piston and cylinder type) design in the Twiflex range. Suitable for disc thickness over 5 mm, it may be operated using air or oil.

Max. braking force: 2.0 kN

| T2        | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ○              | ○              |
| Pneumatic | ●              | ○              |
| Hydraulic | ●              | ○              |
| Electric  | ○              | ○              |



The **T20** is a side-mounted brake for use on discs from 12.7 mm upwards. The split caliper design also permits centre-mounting on discs exceeding 20 mm thick.

Max. braking force: 20.0 kN

| T20       | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ○              | ○              |
| Pneumatic | ○              | ○              |
| Hydraulic | ●              | ○              |
| Electric  | ○              | ○              |



The **T40** brake requires a minimum disc thickness of 20 mm. The brake modules are mounted each side of a central plate of the same thickness as the disc.

Max. braking force: 45.0 kN

| T40       | Direct Applied | Spring Applied |
|-----------|----------------|----------------|
| Manual    | ○              | ○              |
| Pneumatic | ○              | ○              |
| Hydraulic | ●              | ○              |
| Electric  | ○              | ○              |

Note: The stated braking force is the nominal value based on  $\mu = 0.4$