Tetron CD bearings
Sliding - Launching

- **Moving decks on permanent bearings**
- **No temporary sliding or launching equipment necessary**
- **Reduced construction time and costs**

Pot bearings

Fiche technique référence : FT Fr C V 4 5

Conventionally, bridge decks are launched or slid on slide chairs temporarily attached to the pier heads. The slide chairs are bulky and heavy and have to be removed once the bridge deck launching is complete.

To avoid these heavy operations and save space on the pier head, with certain adjustments, permanent pot bearings can be used as sliders.

Freyssinet has therefore developed special Tetron CD® pot bearings for bridge deck launching or sliding on permanent bearings.

Sliding

The bearings are fixed to the deck and guided onto a runaway path. The deck is then slid by drawing it along the runaway paths using the bearings, the underside of which is fitted with a guided or unguided slider. The deck is slid directly using Tetron CD® permanent bearings without any other additional bearings or temporary devices. During sliding operations, the moving parts of the bearings are immobilised using temporary stops.

All types of Tetron CD® pot bearings can be adjusted to enable bridge deck sliding.

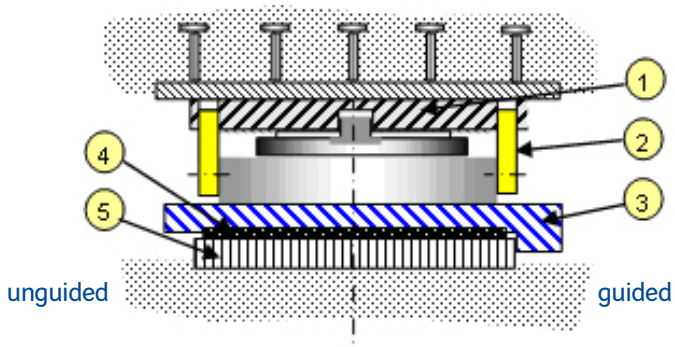
The devices are fitted with a slide chair equipped with a slider specifically designed by Freyssinet for its compression and creep resistance qualities, with a friction cœfficient close to that of PTFE.

Tetron CD® pot bearings are manufactured in accordance with EN 1337 and are covered by CE marking.

Sliding the Trient Bridge - SWITZERLAND

Instrumented jacking sliding bearings

Tetron CD® sliding bearing



1 - Tetron CD bearing
2 - Temporary stops
3 - Slide chair
4 - Slider
5 - Runaway path

After sliding, permanent stops are installed to hold the bearing in its final position.

Tetron CD bearings
Sliding - Launching

FREYSSINET
SUSTAINABLE TECHNOLOGY

Launching

All types of Tetron CD® pot bearings can be adjusted to enable bridge deck launching.

The top of the device is fitted with a slide chair bevelled at both ends, to which a polished stainless steel sheet is attached.

During deck launching, special 14.5mm thick laminated elastomeric bearing pads with a vulcanized PTFE sliding surface, produced by Freyssinet, are inserted between the deck and the slide chair.

Sliding bearings are immobilised during launching operations using temporary stops.

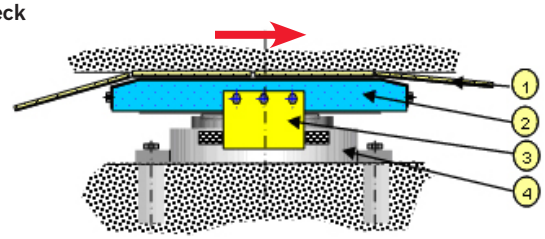
For launching very complex structures, Freyssinet can supply Tetron CD® launching bearings equipped with vertical load measuring devices in order to monitor changes in these loads throughout each launch phase.

Tetron CD® pot bearings are manufactured in accordance with EN 1337 and are covered by CE. marking.

Iron Cove bridge - Australia

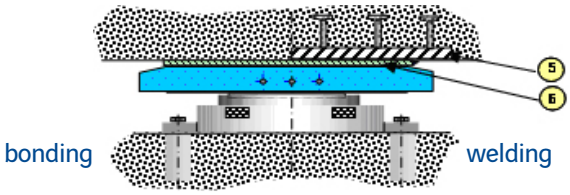
Tetron CD® launching bearing

1 - Moving the deck



1 - Sliding pads
2 - Slide chair
3 - Temporary stop
4 - Tetron CD® bearing
5 - Fixing plate
6 - Compensating plate

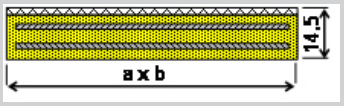
2 - Securing the bearing



After launching, the sliding pads are removed and replaced by a compensating plate secured to the slide chair using special bolts. Each plate can be secured to the deck by bonding or welding to a fixing plate positioned during prefabrication.

This fixing method has the advantage of making the Tetron CD® pot bearing removable.

Freyssinet sliding pads



Dimensions a x b (mm)	Vmax (kN)	Dimensions a x b (mm)	Vmax (kN)
100 x 100	75	200 x 400	1200
100 x 150	135	250 x 400	1500
150 x 200	385	300 x 400	1800
200 x 250	750	400 x 500	3000
200 x 300	900	500 x 600	4500

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