

CADEK DESIGN

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General description of the Locust bike:

The Locust is a design for a full-value bike that can be folded and stored in small spaces (e.g., cases and car trunks). Its main feature is the circular frame which makes the unusual folding mechanism possible. Both wheels have overhung mounting. After releasing the safety-lock nuts, the wheels are turned around the relevant axis and into the frame. Because the rear wheel folds, momentum transfer from the crankset to the rear wheel must be divisible. On the Locust, the conventional chain system found on other bikes is replaced by a belt system with outer toothings; the belt is mounted on two rollers. Both the "chainwheel" and the pinion have outer toothings, ensuring correct rotational direction as well as divisibility of the whole system. The rear hub contains an internally geared hub similar to the Shimano Nexus system. Gear shifting is of the GripShift type. The red safety lock releases the saddle support to fold the saddle down towards the frame. To fold the handlebars, the revolving safety-lock nut on the top of the head set is first released. The handlebars can then be moved back towards the frame. The Locust is equipped with a disc brake in front and a clamshell brake at rear, thus preventing blockage of the folding mechanism. The Locust will be welcomed by people in traffic-ridden cities, young people, and students on campus. It can be used to good effect in large industrial facilities, airports, and city centres as a rent bike, or as a "parasitic" means of transport: the user parks her/his car outside the city centre and bikes to work. The colour scheme was conceived with safety in mind.

Locust 1 and Locust 2:

Locust bike (bike you know: Locust 1) is just concept and it is not available for retail market.

However Locust 2 is under current development. Locust 2 sharing the same concept is vastly superior to Locust 1 in practicality, lightweight, simplicity and overall user experience.

Locust 2 is going to be available for global retail market.

Production will start in 2010. Bike will be made in Israel. It will be hi-tech bicycle with several unique and revolutionary features (apart from what you know from Locust 1).