PNEUMATIC MODULAR FRAME Series BYC-400

The BYC-400 frame belongs to the MF-P (Modular Frame Pneumatic) family of modular pneumatic systems, designed to perform specific tests on components in the bicycle sector.
The system is optimized to perform static, fatigue, and stiffness tests on materials and assembled components; also in compliance with ISO 4210 and EN 15194 standards.



Specifiche tecniche

The BYC-400 test bench consists of a portal structure made with 4 telescopic and height-adjustable supporting columns. The movement is electric and facilitated by the appropriate jog pendant.

The upper crossbar can accommodate two actuators and allows all movements in the plane (X-Y). The portal structure ensures maximum rigidity, making the BYC-400 perfect for static and stiffness tests on components. The ability to position the actuators anywhere within the work area allows maximum versatility and usability of the BYC-400 test bench.

The workbench is equipped with a series of constant-pitch holes to facilitate the clamping of any component. With appropriate supports, it is also possible to perform tests with horizontal actuators.
The entire test area is protected by polycarbonate panels that allow perfect visibility during the execution of the tests.

The front and rear doors with double-leaf opening allow effective access to the work area for positioning the components under test. The interlock system of the openings ensures the complete safety of the operator.

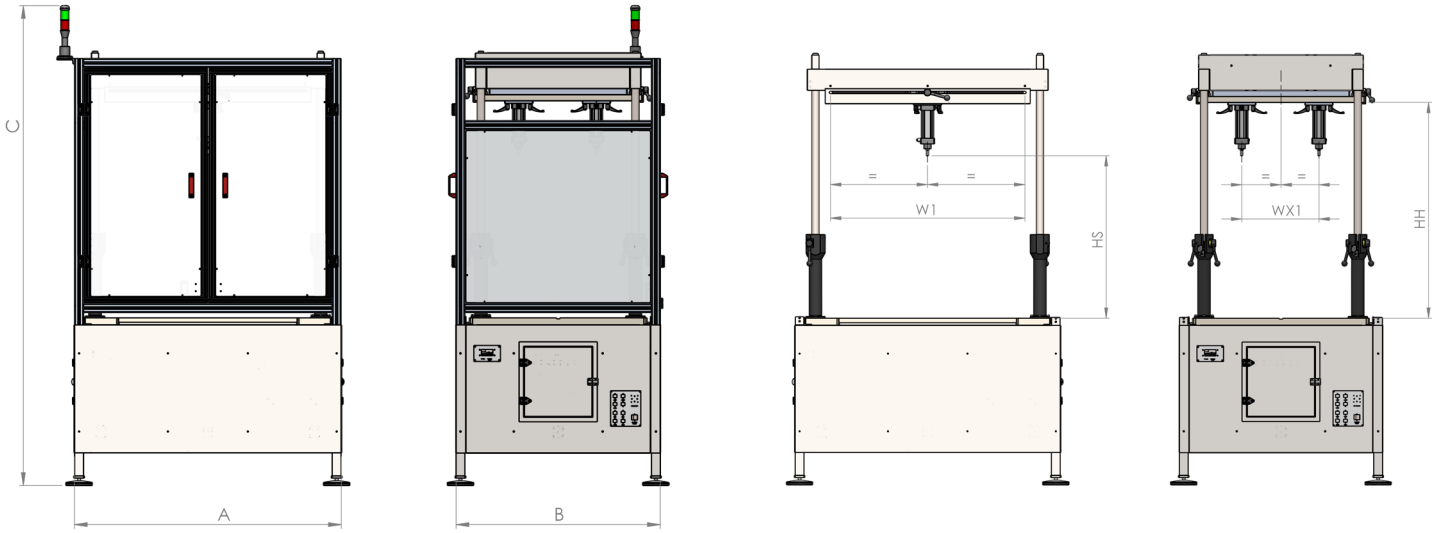
The system is compatible with the K-PN series of pneumatic actuator kits and related anchoring brackets.

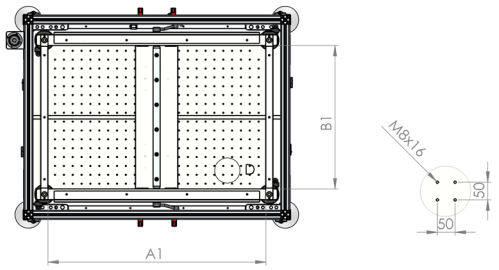
Caratteristiche

- OIL FREE
- MASSIMA FLESSIBILITÀ E CONFIGURABILITA'
- SEMPLICE DA USARE

Al fine di migliorare le prestazioni tecniche del prodotto, la società si riserva di apportare variazioni senza preavviso.
In order to improve the technical performances of the product, the company reserves the right to make any change without notice.

Dimensions Frame BYC -400





DIMENSIONS FRAME BYC-400			
A [mm]	**B [mm]**	**C [mm]**	**W1 [mm]**
1500	1190	2700	900
HS [mm]	**WX1 [mm]**	**HH [mm]**	**A1 - B1 [mm]**
900	600	HH max: 1200 HH min: 900	1200 - 800

Fields of application

The BYC-400 system is a multi-function test bench for static, dynamic, and stiffness tests.

The workbench is equipped with a series of constant-pitch holes, making it flexible and ready for clamping the most complex components.

The upper crossbar allows the positioning of the two vertical actuators at any point (X-Y) of the work area. The telescopic columns (electrically operated) ensure the convenient vertical positioning of the system (Z) and the necessary rigidity for the correct execution of all tests.

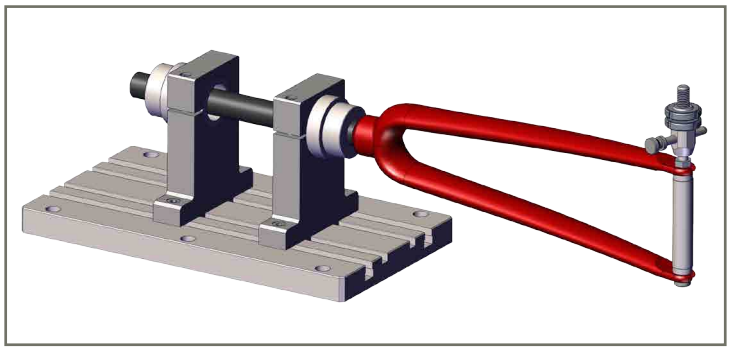
The actuators can also be mounted horizontally, ensuring maximum flexibility in the most complex tests. All necessary accessories are available.

The BYC-400 system finds its natural application in the bicycle and motorcycle sector. Thanks to the presence of a wide range of grips, it proves to be particularly suitable for the following tests:

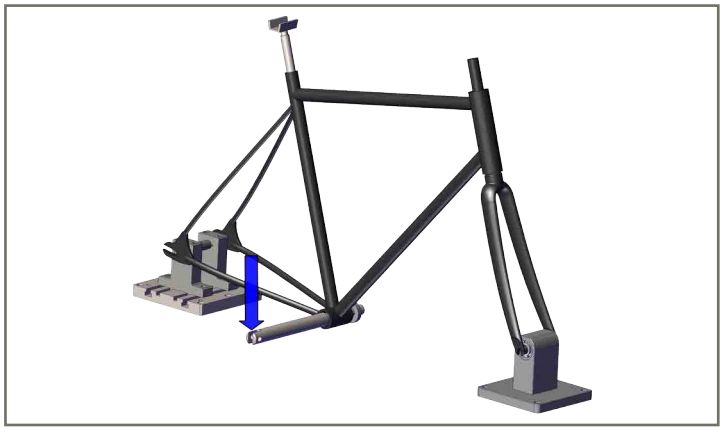
- Static, fatigue, and stiffness tests on the front fork;
- Static, fatigue, and stiffness tests on frames;
- Static, fatigue, and stiffness tests on seat post;
- Static, fatigue, and stiffness tests on braking systems - brake lever;
- Static, fatigue, and stiffness tests on pedal groups.

Application examples

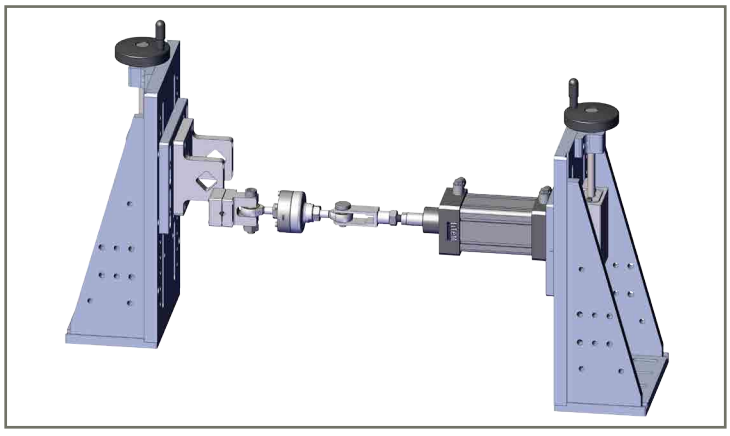
Front fork: static, fatigue and stiffness test



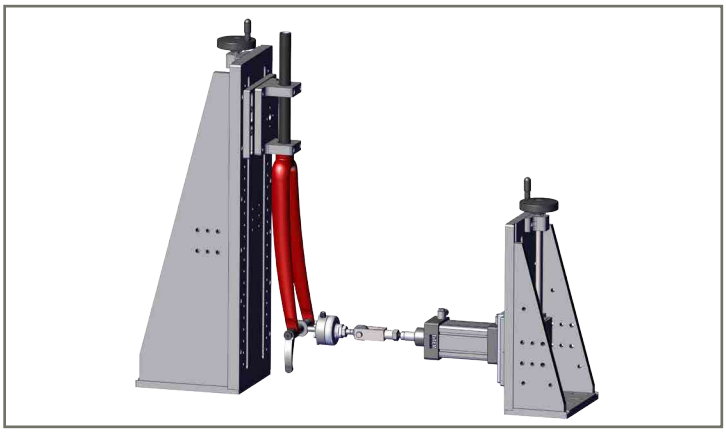
Frame: vertical stiffness test



Braking systems: static, fatigue and stiffness test



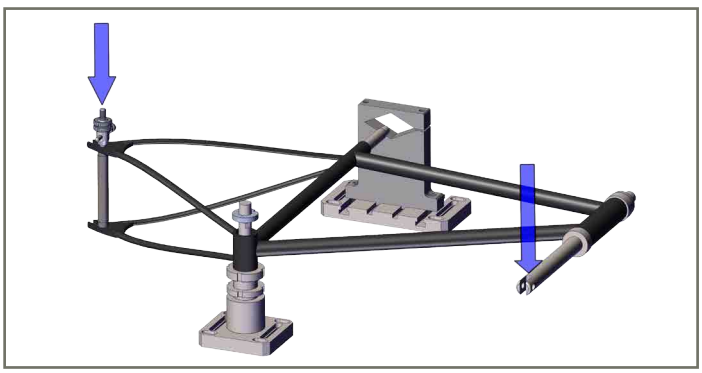
Front fork: static, fatigue and stiffness test



Frame: seat post vertical stiffness test



Frame: horizzontal stiffness test



Related systems

The entire series of PN-MF modular pneumatic frames is compatible with all the pneumatic actuator kits and related accessories - K-PN product category (see www.litem.info/accessories).

Real Time Controller RTC 9002



Real Time Controller TX-2 bi-axial (2 indipendent or simultaneous axes) complete with PC, monitor 27", mouse and keyboard.

Includes SX Software Suite - standard version.
Additional Software Tools are available (for details visit: www.litem.info/software-and-tools/)

Pneumatic Actuator Kit



Pneumatic actuator Kit complete with contactless displacement sensor, load cell, proportional servo-valve and air handling unit.

TUTORIAL VIDEO

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