

500042-2026 - Competition

Switzerland – Checking and testing apparatus – A universal testing machine for tensile and compressive load tests, equipped with two additional actuators (1 unit)

OJ S 137/2026 20/07/2026

Contract or concession notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: ETH Zürich - Abt. Procurement & Export Services

Email: publictender@ethz.ch

Legal type of the buyer: Body governed by public law

Activity of the contracting authority: Education

2. Procedure

2.1. Procedure

Title: A universal testing machine for tensile and compressive load tests, equipped with two additional actuators (1 unit)

Description: The Department of Steel and Composite Structures at ETH Zurich is planning to procure a new universal testing machine for the construction hall at the Hönggerberg site. The equipment is intended to test large-scale components under realistic static and dynamic loads, thereby supporting future research in steel, composite and earthquake engineering. The main applications include “centric and eccentric compression tests [...] with the optional ability to apply tensile forces”. The project is being led by Dominik Werne, Head of the Construction Hall. The machine must provide a spacious test chamber capable of accommodating test specimens up to “B: 1500 mm, H: 1500 mm, L: 5000 mm”. Clamping heights ranging from 500 to 5000 mm allow for both compression and tensile tests. The test chamber must be fully visible to enable the use of optical measurement systems such as DIC. The hydraulic system comprises a vertical cylinder with “10 MN compressive load, 6 MN tensile load and 400 mm cylinder stroke”, as well as two horizontal cylinders, each with “1 MN compressive/tensile load and 500 mm cylinder stroke”. The system must be capable of dynamic tests up to 10 Hz and speeds of up to 250 mm/s. Precise control with a sampling rate of at least 5 kHz, accuracy class 1/0.5 and modern digital interfaces (e.g. EtherCAT) is required to support force- and strain-controlled tests as well as hybrid testing. The test rig will be connected to ETH's existing servo-hydraulic power unit. The supplier will provide “all necessary support for proper integration”, including hydraulic design, a safety concept and coordination of the valve system. The mechanical structure must safely withstand extremely high forces, provide a rigid frame construction and allow for hydraulic crossbeam adjustment. At the same time, easy access for the installation of test specimens must be ensured, as emphasised in the document: “Access should be as easy as possible [...]” Assembly will take place in test hall HIF C 51. Delivery will be via HIF C 54, delivery point 27. The components will be delivered by lorry and transported using the hall cranes. Both cranes have a lifting capacity of 10 t each, a maximum hook height of 7.4 m and a minimum hook spacing of 8 m. Due to work being carried out in parallel, the operating time is limited to 3–4 hours. Furthermore: “The hall cranes may only be operated by the contractor's trained personnel.” The floor load is limited to 10 kN/m² in the handling area and 7 kN/m² in parts of the hall, supplemented by permissible wheel loads of 135 kN over an

area of 0.4 m × 0.4 m. The contractor shall provide at least one tool container for the site facilities; staff rooms will not be provided, but toilets will be. A voluntary site visit will enable tenderers to familiarise themselves with the site layout, though no questions relating to the tender procedure will be answered. For further details, please refer to the specifications and annexes.

Procedure identifier: 269c1d5c-cfe0-493b-92b5-671e139fa2de

Type of procedure: Open

The procedure is accelerated: no

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38500000 Checking and testing apparatus

2.1.2. Place of performance

Town: Zürich ETH Hönggerberg

Postcode: 8093

Country subdivision (NUTS): Zürich (CH040)

Country: Switzerland

Additional information: see Annex 3 of the tender documents

2.1.4. General information

Additional information: Other requirements The project's readiness for procurement and the availability of credits remain reserved.

Legal basis:

Directive 2014/24/EU

2.1.6. Grounds for exclusion

Sources of grounds for exclusion: Procurement Document

5. Lot

5.1. Lot: LOT-0000

Title: A universal testing machine for tensile and compressive load tests, equipped with two additional actuators (1 unit)

Description: The Department of Steel and Composite Structures at ETH Zurich is planning to procure a new universal testing machine for the construction hall at the Hönggerberg site. The equipment is intended to test large-scale components under realistic static and dynamic loads, thereby supporting future research in steel, composite and earthquake engineering. The main applications include “centric and eccentric compression tests [...] with the optional ability to apply tensile forces”. The project is being led by Dominik Werne, Head of the Construction Hall. The machine must provide a spacious test chamber capable of accommodating test specimens up to “B: 1500 mm, H: 1500 mm, L: 5000 mm”. Clamping heights ranging from 500 to 5000 mm allow for both compression and tensile tests. The test chamber must be fully visible to enable the use of optical measurement systems such as DIC. The hydraulic system comprises a vertical cylinder with “10 MN compressive load, 6 MN tensile load and 400 mm cylinder stroke”, as well as two horizontal cylinders, each with “1 MN compressive/tensile load and 500 mm cylinder stroke”. The system must be capable of dynamic tests up to 10 Hz and speeds of up to 250 mm/s. Precise control with a sampling rate of at least 5 kHz, accuracy class 1/0.5 and modern digital interfaces (e.g. EtherCAT) is required to support force- and strain-controlled tests as well as hybrid testing. The test rig will be connected to ETH's existing servo-hydraulic power unit. The supplier will provide “all necessary support for proper

integration”, including hydraulic design, a safety concept and coordination of the valve system. The mechanical structure must safely withstand extremely high forces, provide a rigid frame construction and allow for hydraulic crossbeam adjustment. At the same time, easy access for the installation of test specimens must be ensured, as emphasised in the document: “Access should be as easy as possible [...]” Assembly will take place in test hall HIF C 51. Delivery will be via HIF C 54, delivery point 27. The components will be delivered by lorry and transported using the hall cranes. Both cranes have a lifting capacity of 10 t each, a maximum hook height of 7.4 m and a minimum hook spacing of 8 m. Due to work being carried out in parallel, the operating time is limited to 3–4 hours. Furthermore: “The hall cranes may only be operated by the contractor’s trained personnel.” The floor load is limited to 10 kN/m² in the handling area and 7 kN/m² in parts of the hall, supplemented by permissible wheel loads of 135 kN over an area of 0.4 m × 0.4 m. The contractor shall provide at least one tool container for the site facilities; staff rooms will not be provided, but toilets will be. A voluntary site visit will enable tenderers to familiarise themselves with the site layout, though no questions relating to the tender procedure will be answered. For further details, please refer to the specifications and annexes.

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38500000 Checking and testing apparatus

Additional classification (cpv): 38000000 Laboratory, optical and precision equipments (excl. glasses)

Options:

Description of the options: according to tender documents

5.1.2. Place of performance

Town: Zürich ETH Hönggerberg

Postcode: 8093

Country subdivision (NUTS): Zürich (CH040)

Country: Switzerland

Additional information: see Annex 3 of the tender documents

5.1.3. Estimated duration

Other duration: Unknown

5.1.4. Renewal

Maximum renewals: 0

5.1.6. General information

Reserved participation:

Participation is not reserved.

The names and professional qualifications of the staff assigned to perform the contract must be given: Not yet known

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.9. Selection criteria

Sources of selection criteria: Procurement Document

5.1.10. Award criteria

Criterion:

Type: Quality

Description: Award criteria

Description of the method to be used if weighting cannot be expressed by criteria: The award criteria are defined in the documentation.

5.1.11. Procurement documents

Access to certain procurement documents is restricted

Information about restricted documents is available at: <https://www.simap.ch/de/redirect?context=eyJwYWdlIjoicHJvamVjdCIsInJvbGUiOm51bGwslm9yZ0lkIjpudWxsLCJwcm9qZWNO0SWQ>

Ad hoc communication channel:

Name: Simap.ch

5.1.12. Terms of procurement

Terms of submission:

Electronic submission: Allowed

Address for submission: <https://www.simap.ch/de/redirect?context=eyJwYWdlIjoicHJvamVjdCIsInJvbGUiOm51bGwslm9yZ0lkIjpudWxsLCJwcm9qZWNO0SWQ>

Languages in which tenders or requests to participate may be submitted: English, German

Electronic catalogue: Not allowed

Variants: Allowed

Tenderers may submit more than one tender: Not allowed

Deadline for receipt of tenders: 26/08/2026 12:00:00 (UTC+02:00) Eastern European Time, Central European Summer Time

Duration during which the tender must remain valid: 180 Days

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: Not yet known

Conditions relating to the performance of the contract: Further details in the official publication on simap.ch

Electronic invoicing: Required

Electronic ordering will be used: no

Electronic payment will be used: yes

Financial arrangement: Further details in the official publication on simap.ch

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: Tribunal administratif fédéral

Information about review deadlines: Instructions on legal remedies In accordance with Article 56 paragraph 1 of the Public Procurement Act (PPA), a written appeal against this decision can be lodged with the Federal Administrative Court, P.O. Box, 9023 St. Gallen, Switzerland, within 20 days of notification. Any appeal is to be submitted in duplicate and must include what is being sought, the grounds for appeal, evidence and the signature of the person lodging the appeal or his or her representative. A copy of this decision and available evidence must be included. The provisions of the Administrative Procedure Act (APA) on legal holidays do not apply in accordance with Article 56 paragraph 2 of the PPA.

Organisation providing additional information about the procurement procedure: ETH Zürich - Abt. Procurement & Export Services

8. Organisations

8.1. ORG-0001

Official name: ETH Zürich - Abt. Procurement & Export Services

Registration number: c71ebb2a-7438-416c-8ddb-cf54c21efe32

Postal address: Binzmühlestrasse 130

Town: Zürich

Postcode: 8092

Country subdivision (NUTS): Zürich (CH040)

Country: Switzerland

Email: publictender@ethz.ch

Telephone: +41446321111

Internet address: <https://www.ethz.ch>

Roles of this organisation:

Buyer

Organisation providing additional information about the procurement procedure

8.1. ORG-0002

Official name: Tribunal administratif fédéral

Registration number: BVGER

Postal address: Postfach

Town: St. Gallen

Postcode: 9023

Country subdivision (NUTS): St. Gallen (CH055)

Country: Switzerland

Email: info@bvger.admin.ch

Telephone: +41584652626

Internet address: <https://www.bvger.ch>

Roles of this organisation:

Review organisation

8.1. ORG-0003

Official name: Simap.ch

Registration number: CH001

Postal address: Holzikofenweg 36

Town: Bern

Postcode: 3003

Country subdivision (NUTS): Bern / Berne (CH021)

Country: Switzerland

Email: support@simap.ch

Telephone: +41584646388

Internet address: <https://www.simap.ch>

Roles of this organisation:

TED eSender

Notice information

Notice identifier/version: 6f28156a-b891-4786-9ff9-0e7803d9205e - 01

Form type: Competition

Notice type: Contract or concession notice – standard regime

Notice subtype: 16

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Languages in which this notice is officially available: German, French, English

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