



EUROPEAN UNION  
European Structural and Investing Funds  
Operational Programme Research,  
Development and Education



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

## PURCHASE CONTRACT

This purchase contract ("**Contract**") was concluded pursuant to section 2079 *et seq.* of the act no. 89/2012 Coll., Civil Code ("**Civil Code**"), on the day, month and year stated below by and between:

- (1) **Institute of Physics of the Academy of Sciences of the Czech Republic, a public research institution,**

with its registered office at: Na Slovance 2, Praha 8, PSČ: 182 21,

registration no.: 68378271,

represented by: RNDr. Michael Prouza, Ph.D. – director

("Buyer"); and

- (2) **OptiXs, s.r.o.,**

with its registered office at: Křivoklátská 37, 199 00 Praha 9,

registration no.: 02016770,

represented by: Ing. Martin Klečka, CEO

enrolled in the commercial register kept by Municipal court in Prague, C212818

("Seller").

(The Buyer and the Seller are hereinafter jointly referred to as "**Parties**" and individually as "**Party**".)

### WHEREAS

- (A) The Buyer is a public contracting authority and the beneficiary of a grant of the Ministry of Education, Youth and Sports of the Czech Republic for a project "HiLASE Centre of Excellence", project reg. no. CZ.02.1.01/0.0/0.0/15\_006/0000674 within the Operational Programme Research, Development and Education and project Zkvalitnění strategického řízení Fyzikálního ústavu AV ČR, reg. No. CZ.02.2.69/0.0/0.0/16\_028/0006223).
- (B) For the successful realization of the Project it is necessary to purchase the Object of Purchase (as defined below) in accordance with the Rules for the Selection of Suppliers within the Operational Programme Research, Development and Education.
- (C) The Seller wishes to provide the Object of Purchase to the Buyer for consideration.



EUROPEAN UNION  
European Structural and Investing Funds  
Operational Programme Research,  
Development and Education



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

- (D) The Seller was selected as the winner of a public procurement procedure announced by the Buyer in accordance with the Act No. 134/2016 Coll., on Public Procurement, as amended (hereinafter the “**Act**”), for the public contract called “**Optical tables II.**” (hereinafter the “**Procurement Procedure**”).

#### IT WAS AGREED AS FOLLOWS:

##### 1. BASIC PROVISIONS

- 1.1 Under this Contract the Seller shall deliver to the Buyer products that are described in Annex 1 (*Technical Specification*) and Annex 2 (*Seller's Technical Specification*) to this Contract in the required quality, number (amount), and with the properties and related performance described therein (“**Object of Purchase**”) and shall transfer to the Buyer ownership right to the Object of Purchase, and the Buyer shall take over the Object of Purchase and shall pay the Seller the Purchase Price that is specified in Annex 3 (*Price Sheet*), all under the terms and conditions stipulated in this Contract.
- 1.2 Under this Contract the Seller shall also carry out the following activities (“**Related Activities**”):
- a) transport the Object of Purchase to the place of delivery;
  - b) installation of the Object of Purchase, and
  - c) cooperation with the Buyer during the performance of this Contract.

##### 2. THE PLACE OF DELIVERY

The place of delivery is at the address: Fyzikální ústav AV ČR v.v.i - HiLASE Centrum, Za Radnicí 828, 252 41 Dolní Břežany, Czech Republic or any other address in Dolní Břežany, Czech Republic, which the Buyer communicated to the Seller prior to the delivery of the Object of Purchase.

##### 3. THE TIME OF DELIVERY

- 3.1 The Seller shall deliver the Object of Purchase and shall carry out Related Activities within **13 weeks** from the effectiveness of this Contract.
- 3.2 The Seller shall inform in writing the Buyer of the exact date of delivery of the Object of Purchase at least two (2) weeks in advance. The Seller is not allowed to deliver the Object of Purchase until the the Buyer confirms the delivery time. In case the Parties do not agree on an earlier delivery date, the Seller is obliged to deliver the Object of Purchase on the last day of the delivery period.



#### 4. THE OWNERSHIP RIGHT

The ownership right to the Object of Purchase shall be transferred to the Buyer upon the signature of the handover protocol (delivery note).

#### 5. PRICE AND PAYMENT TERMS

5.1 The Purchase Price for the Object of Purchase is the maximum price and is stated in Annex 3 – (*Price Sheet*) without value added tax, (hereinafter the “**Purchase Price**”). VAT will be paid in accordance with the applicable legal regulations.

5.2 The Purchase Price cannot be exceeded and includes all costs and expenses of the Seller related to the performance of this Contract. The Purchase Price includes, among others, all expenses related to the handover of the Object of Purchase and execution of Related Activities, costs of copyright, insurance, customs, warranty service and any other costs and expenses connected with the performance of this Contract.

5.3 The Purchase Price for the Object of Purchase shall be paid on the basis of a tax document – invoice, to the account of the Seller designated in the invoice. **The Purchase Price shall be paid after the signature of the handover protocol (delivery note).**

5.4 The Buyer shall realize payments on the basis of duly issued invoices within 30 days from their receipt.

5.5 The invoice issued by the Seller as a tax document must contain all information required by the applicable laws of the Czech Republic. Invoices will be issued separately for the two projects HiLASE Centre of Excellence and a project Zkvalitnění strategického řízení Fyzikálního ústavu AV ČR, based on the instructions of the Buyer. Invoices issued by the Seller in accordance with this Contract shall contain in particular following information:

- a) Name and registered office of the Buyer,
- b) Tax identification number of the Buyer,
- c) Name and registered office of the Seller,
- d) Tax identification number of the Seller,
- e) Registration number of the tax document,
- f) Scope of the performance (including the reference to this Contract),
- g) Date of the issue of the tax document,
- h) Date of the fulfilment of the Contract,



EUROPEAN UNION  
European Structural and Investing Funds  
Operational Programme Research,  
Development and Education



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

- i) Purchase Price,
- j) Registration number of this Contract, which the Buyer shall communicate to the Seller based on Seller's request before the issuance of the invoice,
- k) Declaration that the performance of the Contract is for the purposes of a project „HiLASE Centre of Excellence”, project reg. no. CZ.02.1.01/0.0/0.0/15\_006/0000674, or a project Zkvalitnění strategického řízení Fyzikálního ústavu AV ČR, reg. No. CZ.02.2.69/0.0/0.0/16\_028/0006223).

5.6 In case that the invoice shall not contain the above mentioned information, the Buyer is entitled to return it to the Seller during its maturity period and this shall not be considered as a default. The new maturity period shall begin from the receipt of the supplemented or corrected invoice to the Buyer.

## 6. SELLER'S RIGHTS AND DUTIES

6.1 The Seller shall ensure that the Object of Purchase and Related Activities are in compliance with this Contract including all its annexes and applicable legal (e.g. safety), technical and quality norms.

6.2 During the performance of this Contract the Seller proceeds independently. If the Seller receives instructions from the Buyer, the Seller shall follow such instructions unless these are against the law or in contradiction to this Contract. If the Seller finds out or should have found out if professional care was exercised that the instructions are for any reason inappropriate or illegal or in contradiction to this Contract, then the Seller must notify the Buyer.

6.3 All things necessary for the performance of this Contract shall procure the Seller, unless this Contract stipulates otherwise.

## 7. HANDOVER OF THE OBJECT OF PURCHASE

7.1 Handover and takeover of the Object of Purchase shall be realized on the basis of a handover protocol (delivery note).

7.2 If the Seller fails to duly carry out all Related Activities or if the Object of Purchase does not meet requirements of this Contract, the Buyer is entitled to refuse the takeover of the Object of Purchase. In such a case the Seller shall remedy the deficiencies within ten (10) working days, unless Parties agree otherwise. The Buyer is entitled (but not obliged) to take over the Object of Purchase despite the above mentioned deficiencies, in particular if such deficiencies do not prevent the Buyer in the proper operation of the Object of Purchase. In such a case the Seller and the Buyer shall list the deficiencies in the handover



protocol, including the manner and the date of their removal (remedy). If the Parties do not reach agreement in the handover protocol regarding the date of the removal, the Seller shall remove the deficiencies within ten (10) working days.

## 8. **WARRANTY**

- 8.1 The Seller hereby provides a warranty of quality of the Object of Purchase for the period of 12 months. If on the warranty list or other document is the warranty period of longer duration, then this longer warranty period shall have priority over the period stated in this Contract.
- 8.2 The warranty period shall begin on the day of the signature of the handover protocol by both Parties.
- 8.3 The Seller shall remove defects that occur during the warranty period free of charge.
- 8.4 If the Buyer ascertains a defect of the Object of Purchase during the warranty period, the Buyer shall notify such defect without undue delay to the Seller. Defects may be notified on the last day of warranty period, at the latest.
- 8.5 The Buyer notifies defects in writing via e-mail. The Seller shall accept notifications of defects on the following e-mail address: [servis@optixs.cz](mailto:servis@optixs.cz).
- 8.6 In the notification the Buyer shall describe the defect and the manner of removal of the defect. The Parties shall agree on the manner of defects removal. If the Parties do not reach the agreement, the Buyer has the right to:
- a) request removal of the defect by the delivery of new Object of Purchase or its individual parts, or
  - b) request removal of the defect by repair, or
  - c) request adequate discount from the Purchase Price.

The choice among the above mentioned rights belongs to the Buyer. However, in case of a removable defect that occurs for the first time the Buyer shall not request removal of the defect by delivery of new Object of Purchase or its individual parts.

- 8.7 The Seller shall remove the defect within ten (10) working days. In cases where it is not possible for objective reasons proven to the Buyer by the Seller the Parties shall agree on another sufficient deadline.
- 8.8 Parties shall execute a protocol on the removal of the defect, which shall contain the description of the defect and the confirmation that the defect was removed. The warranty period shall be extended by a period of time that elapses between the



notification of the defect until its removal in cases where the Buyer was prevented from using the Object of Purchase for its intended purpose.

- 8.9 In case that the Seller does not remove the defect within stipulated time or if the Seller refuses to remove the defect, then the Buyer is entitled to remove the defect at his own costs and the Seller shall reimburse these costs within fifteen (20) calendar days after the Buyer's request to do so.
- 8.10 The warranty does not cover defects caused by unprofessional manipulation or by the failure to follow Seller's instructions for the operation and maintenance of the Object of Purchase.

## 9. **RIGHT OF WITHDRAWAL, CONTRACTUAL PENALTIES**

- 9.1 The Buyer is entitled to withdraw from this Contract, if any of the following circumstances occur:
- a) the Seller is in delay with the fulfilment of this Contract and such delay lasts more than four (4) weeks; or
  - b) the insolvency proceeding is initiated against the Seller.
- 9.2 In the event the Seller is in delay with term of delivery as stipulated in Art. 3 para 3.1 herein, the Seller shall pay to the Buyer the contractual penalty in the amount of 0.1 % of the Purchase Price for each, even commenced day of delay.
- 9.3 The Parties have agreed that the maximal amount of contractual penalties shall be limited to 10 % of the Purchase Price.

## 10. **SPECIAL PROVISIONS**

By signing this Contract, the Seller becomes a person that must cooperate during the finance control within the meaning of Section 2 letter e) of the act no. 320/2001 Coll., on finance control in the public administration, and shall provide to the Directing Body of the Operational Programme Research, Development and Education or other control bodies access to all parts of the bid, Contract or other documents that are related to the legal relationship formed by this Contract. This duty also covers documents that are subject to the protection in accordance with other acts (business secrets, secret information, etc.) provided that control bodies fulfil requirements stipulated by these acts. The Seller shall secure that all its subcontractors are also obliged to cooperate with control bodies in the above stipulated extent. The possibility of effective control must be preserved until the year 2027.



## 11. FINAL PROVISIONS

- 11.1 This Contract is governed by the laws of the Czech Republic, especially by the Civil Code.
- 11.2 The Seller shall duly archive all written material prepared in connection with the execution of this Contract and to provide access to the Buyer to these archived documents until 2027. The Buyer shall be entitled to take possession of these documents after ten years from the completion of the Contract from the Seller free of charge; cooperate during financial inspections carried out in accordance with Act 320/2001 Coll., on Financial Inspections, as amended, i.e. to allow the Managing Authority of the Operational Program Research, Development and Education (hereinafter the "Sponsor") to access also those portions of the bid submitted within the Procedure, the Contract, Orders and related documents which may be protected by special legal regulation, given that all requirements set forth by legal regulation with respect to the manner of executing such inspections will have been observed; the Seller shall bind any of its sub-contractors to comply with this obligation accordingly.
- 11.3 All disputes arising out of this Contract or out of legal relations connected with this Contract shall be preferable settled by a mutual negotiation. In case that the dispute is not settled within sixty (60) days, such dispute shall be decided by courts of the Czech Republic in the procedure initiated by one of the Parties.
- 11.4 All modifications and supplements of this Contract must be in writing.
- 11.5 If any of provisions of this Contract are invalid or ineffective, the Parties are bound to change this Contract in such a way that the invalid or ineffective provision is replaced by a new provision that is valid and effective and to the maximum possible extent correspond to the original invalid or ineffective provision.
- 11.6 This Contract is executed in four (4) counterparts and every Party shall receive two (2) counterparts.
- 11.7 An integral parts of this Contract are Annex 1 (Technical Specification), Annex 2 (Seller's Technical Specification) and Annex 3 (Price sheet). If Annex 1 (Technical Specification) uses the term "Contracting Authority" or "contracting authority" it means Buyer. If Annex 1 (Technical Specification) uses the term "Supplier" or "supplier" it means Seller.
- In case of any discrepancies between this Contract and its annexes, the provisions of this Contract shall prevail. In case of any discrepancies between Annex No. 1 and the other annexes of this Contract, the provisions of Annex No. 1 shall prevail.
- 11.8 This Contract shall be valid and effective on the date of the signature of both Parties.



EUROPEAN UNION  
European Structural and Investing Funds  
Operational Programme Research,  
Development and Education



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

11.9 The Parties agree to publish the full text of this Contract, including its annexes, in the Register of Contracts pursuant to Act No. 340/2015 Coll., on Special Conditions for the Effectiveness of Certain Contracts, the Disclosure of These Contracts and the Register of Contracts, as amended (Act on the Register of Contracts).

**IN WITNESS WHEREOF** attach Parties their handwritten signatures:

**Buyer**

Signature: \_\_\_\_\_

Name: RNDr. Michael Prouza, Ph.D.

Position: director

Date:

**Seller**

Signature: \_\_\_\_\_

Name: Ing. Martin Klečka

Position: CEO

Date:





### ANNEX 1 – BUYER'S TECHNICAL SPECIFICATION

Parameter name	Desired value
<b>Properties of optical table type 1</b>	
Quantity	2
<b>Bench</b>	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1500x3000x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with minimum sheet thickness of 4.5 mm
Flatness	± 0.1 mm over 600 mm square
Vibration damping	Yes (Broadband vibrational damping)
First resonance frequency min.	150 Hz
Maximum dynamic deflection coefficient	$0.8 \cdot 10^{-3}$
Maximum relative motion value	$< 2.0 \cdot 10^{-3}$ mm
Compliance level	$< 5 \cdot 10^{-5}$ mm/N
Deflection under load	$< 1.3 \cdot 10^{-3}$ mm
<b>Number of supports</b>	4 for each table
Height of bench desk from the floor level	Value must fit the height of existing table set in the laboratory (approximately 900 mm)
Roller casters	No



Parameter name	Desired value
<b>Properties of optical table type 2</b>	
Quantity	1
Bench	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1200x3000x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with the minimal thickness of 4.5 mm
Flatness	± 0.1 mm over 600 mm square
Vibration damping	Yes (Broadband vibrational damping)
First resonance frequency min.	150 Hz
Maximum dynamic deflection coefficient	$0.4 \times 10^{-3}$
Maximum relative motion value	$< 8.0 \times 10^{-8}$ mm
Compliance level	$< 5 \times 10^{-4}$ mm/N
Deflection under load	$< 2 \times 10^{-3}$ mm
<b>Pneumatic vibration isolator</b>	Yes (Self-leveling pneumatic isolator)
Number of supports	4
Height of bench desk from the floor level	Value should be in a range of 880 – 950 mm
Self-centering	Yes
Tie-bar flange	No



Parameter name	Desired value
<b>Properties of optical table type 3</b>	
Quantity	6
Bench	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1200x1800x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with the minimal thickness of 4.5 mm
Flatness	± 0.1 mm over 600 mm square
Vibration damping	Yes (Broadband vibrational damping)
First resonance frequency min.	200 Hz
Maximum dynamic deflection coefficient	$0.8 \times 10^{-3}$
Maximum relative motion value	$< 2 \times 10^{-7}$ mm
Compliance level	$< 1.0 \times 10^{-5}$ mm/N
Deflection under load	$< 1.3 \times 10^{-3}$ mm
<b>Pneumatic vibration isolator</b>	Yes (Self-leveling pneumatic isolator)
Number of supports	4 per table
Height of bench desk from the floor level	Value should be in a range of 880 – 950 mm
Self-centering	Yes
Tie-bar flange	No



Parameter name	Desired value
<b>Properties of optical table type 4</b>	
Quantity	1
<b>Bench</b>	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1500x1800x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with the minimal thickness of 4.5 mm
Flatness	± 0.1 mm over 600 mm square
Vibration damping	Yes (Broadband vibrational damping)
First resonance frequency min.	200 Hz
Maximum dynamic deflection coefficient	$0.8 \times 10^{-3}$
Maximum relative motion value	$< 2 \times 10^{-7}$ mm
Compliance level	$< 1.0 \times 10^{-5}$ mm/N
Deflection under load	$< 1.3 \times 10^{-3}$ mm
<b>Number of supports</b>	4
Height of bench desk from the floor level	Value should be in a range of 880 – 950 mm
Roller casters	No
Tie-bar flange	No



EUROPEAN UNION  
European Structural and Investing Funds  
Operational Programme Research,  
Development and Education



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

Subject of this public tender is a purchase of 10 pieces of optical tables with specified dimensions with spill-free optical bench and M6 Tapped holes on 1-inch (25 mm) grid, including table supports. The top and bottom of the plate material of the table must be made of stainless steel with minimum sheet thickness of 4.5 mm.

There are no additional requirements for **the table type 1 and 4**.

**The table type 2 and 3** must be equipped with air vibration isolators specified in the table above.

The optical benches, support dimensions, and all parameters including vibration damping for bench, air vibration isolators, flatness precession, etc. are specified above. **All tables must comply the above mentioned specifications.**

**The price includes transportation costs to Hilase centre in Dolni Brezany and installation in the laboratory. The tables of the type 1 will be installed in ground floor (laser hall, clean room), tables 2 - 4 in experimental labs in the first floor.**



**ANNEX 2**  
**SELLER'S TECHNICAL SPECIFICATION**

<b>Parameter name</b>	<b>Desired value</b>	<b>Offered value</b>
<b>Properties of optical table type 1 – 781-675-12R +13-135-00</b>		
Quantity	2	2
<b>Bench</b>	Spill free optical bench with closed shell honeycomb core	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1500x3000x300 ± 5 mm</b>	<b>1500x3000x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with minimum sheet thickness of 4.5 mm	Ferromagnetic stainless steel with sheet thickness of 5 mm
Flatness	± 0.1 mm over 600 mm square	± 0.1 mm over total length
Vibration damping	Yes (Broadband vibrational damping)	Yes (Broadband vibrational damping)
First resonance frequency min.	150 Hz	150 Hz
Maximum dynamic deflection coefficient	$0.8 \cdot 10^{-3}$	$0.8 \cdot 10^{-3}$
Maximum relative motion value	$<2.0 \cdot 10^{-3}$ mm	$<2.0 \cdot 10^{-3}$ mm
Compliance level	$<5 \cdot 10^{-5}$ mm/N	$<3 \cdot 10^{-5}$ mm/N
Deflection under load	$<1.3 \cdot 10^{-3}$ mm	$<1.3 \cdot 10^{-3}$ mm
<b>Number of supports</b>	4 for each table	4 for each table
Height of bench desk from the floor level	Value must fit the height of existing table set in the laboratory (approximately 900 mm)	approximately 900 mm
Roller casters	No	No



Parameter name	Desired value	Offered value
<b>Properties of optical table type 2 – 781-659-12R + 14-135-00</b>		
Quantity	1	1
Bench	Spill free optical bench with closed shell honeycomb core	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1200x3000x300 ± 5 mm</b>	<b>1200x3000x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with the minimal thickness of 4.5 mm	Ferromagnetic stainless steel with the thickness of 5 mm
Flatness	± 0.1 mm over 600 mm square	± 0.1 mm over total length
Vibration damping	Yes (Broadband vibrational damping)	Yes (Broadband vibrational damping)
First resonance frequency min.	150 Hz	150 Hz
Maximum dynamic deflection coefficient	$0.4 \times 10^{-3}$	$0.4 \times 10^{-3}$
Maximum relative motion value	$< 8.0 \times 10^{-8}$ mm	$< 8.0 \times 10^{-8}$ mm
Compliance level	$< 5 \times 10^{-4}$ mm/N	$< 3 \times 10^{-5}$ mm/N
Deflection under load	$< 2 \times 10^{-3}$ mm	$< 2 \times 10^{-3}$ mm
<b>Pneumatic vibration isolator</b>	Yes (Self-leveling pneumatic isolator)	Yes (Self-leveling Micro-g pneumatic isolator)
Number of supports	4	4
Height of bench desk from the floor level	Value should be in a range of 880 – 950 mm	Yes in a range of 880 – 950 mm
Self-centering	Yes	Yes
Tie-bar flange	No	No



Parameter name	Desired value	Offered value
<b>Properties of optical table type 3 – 781-651-12R + 14-135-00</b>		
Quantity	6	6
Bench	Spill free optical bench with closed shell honeycomb core	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1200x1800x300 ± 5 mm</b>	<b>1200x1800x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with the minimal thickness of 4.5 mm	Ferromagnetic stainless steel with the thickness of 5 mm
Flatness	± 0.1 mm over 600 mm square	± 0.1 mm over total length
Vibration damping	Yes (Broadband vibrational damping)	Yes (Broadband vibrational damping)
First resonance frequency min.	200 Hz	200 Hz
Maximum dynamic deflection coefficient	$0.8 \times 10^{-3}$	$0.8 \times 10^{-3}$
Maximum relative motion value	$< 2 \times 10^{-7}$ mm	$< 2 \times 10^{-7}$ mm
Compliance level	$< 1.0 \times 10^{-5}$ mm/N	$< 0.9 \times 10^{-5}$ mm/N
Deflection under load	$< 1.3 \times 10^{-3}$ mm	$< 1.3 \times 10^{-3}$ mm
<b>Pneumatic vibration isolator</b>	Yes (Self-leveling pneumatic isolator)	Yes (Self-leveling Micro-g pneumatic isolator)
Number of supports	4 per table	4 per table
Height of bench desk from the floor level	Value should be in a range of 880 – 950 mm	Yes in a range of 880 – 950 mm
Self-centering	Yes	Yes
Tie-bar flange	No	No





Parameter name	Desired value	Offered value
<b>Properties of optical table type 4 – 781-671-12R + 13-135-00</b>		
Quantity	1	1
<b>Bench</b>	Spill free optical bench with closed shell honeycomb core	Spill free optical bench with closed shell honeycomb core
Hole pattern	Honeycomb breadboard with M6 hole pattern	Honeycomb breadboard with M6 hole pattern
<b>Dimensions</b>	<b>1500x1800x300 ± 5 mm</b>	<b>1500x1800x300 ± 5 mm</b>
Material and thickness of upper and lower plate of the bench	Ferromagnetic stainless steel with the minimal thickness of 4.5 mm	Ferromagnetic stainless steel with the thickness of 5 mm
Flatness	± 0.1 mm over 600 mm square	± 0.1 mm over total length
Vibration damping	Yes (Broadband vibrational damping)	Yes (Broadband vibrational damping)
First resonance frequency min.	200 Hz	200 Hz
Maximum dynamic deflection coefficient	$0.8 \times 10^{-3}$	$0.8 \times 10^{-3}$
Maximum relative motion value	$< 2 \times 10^{-7}$ mm	$< 2 \times 10^{-7}$ mm
Compliance level	$< 1.0 \times 10^{-5}$ mm/N	$< 0.9 \times 10^{-5}$ mm/N
Deflection under load	$< 1.3 \times 10^{-3}$ mm	$< 1.3 \times 10^{-3}$ mm
<b>Number of supports</b>	4	4
Height of bench desk from the floor level	Value should be in a range of 880 – 950 mm	Yes in a range of 880 – 950 mm
Roller casters	No	No
Tie-bar flange	No	No



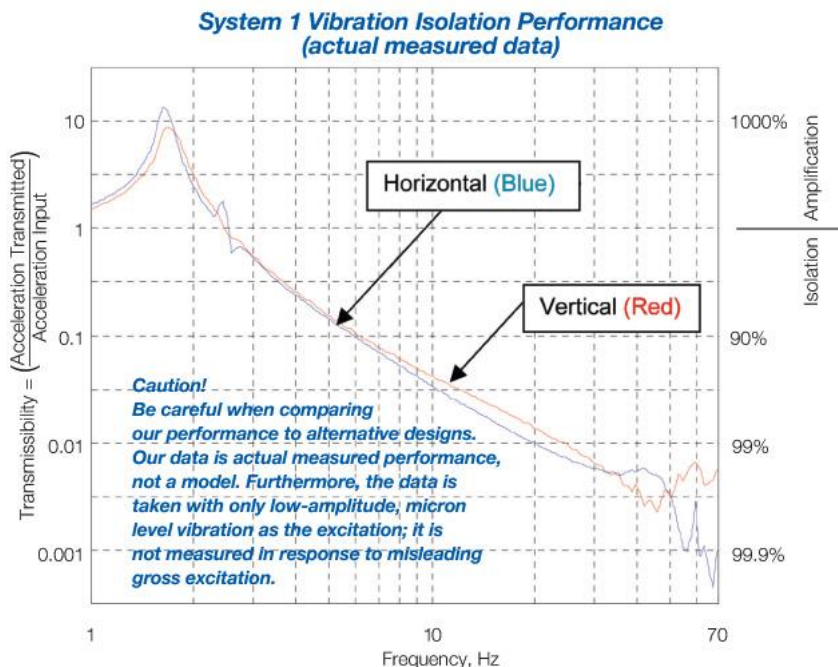
## 1. TECHNICKÝ POPIS TMC OPTICKÝ PNEUMATICKÝ STŮL 781



- Materiál 430 feromagnetické nerez ocel
- Celooceľová konštrukcia štandardne spĺňa požiadavky na použitie v čistých priestoroch dle standardu cleanroom 10000
- Metrická sieť otvorů s závitů M6 s roztečí 25mm
- Sieť závitů hermeticky uzavřená pomocí nylonových kalíšků, t.z. technologie CleanTop, hloubka všech závitů min. 25mm
- Rovinnost vrchní desky  $\pm 0,13$  mm na celou délku stolu, nebo v libovolném jiném směru
- 5 mm tlustá svrchní i spodní ocelová deska
- 2 mm tlusté ocelové bočnice
- Ocelové voštinové jádro, tzv. honeycomb s max. velikostí buňky  $1,2\text{cm}^2$  v přímém kontaktu s vrchní a spodní deskou (přímé mech. spojení oceli což zajišťuje optimální termální design)
- hustota voštinového jádra min.  $230\text{Kg/m}^3$
- Širokopásmové „suché“ tlumení vibrací (technologie minimalizující amplitudu vibrací, které se dostanou do desky stolu)
- ocelová konstrukce izolátorů o výšce 600mm (pro dosažení požadované pracovní výšky okolo 900mm)
- V tomto případě nabízíme samostatně stojící nohy / izolátory
- Účinnost horizontální i vertikální izolace samonivelačním pneumatických izolátorů minimálně na 5 Hz 80%, na 10Hz 95-99%



- Provoz pneumatických izolátorů na stlačený vzduch či dusík o tlaku 6bar.



### Předinstalační požadavky:

- V místě instalace musí být zajištěn přívod dusíku či stlačeného vzduchu o tlaku min. 8 baru.
- Výstup musí být zakončen tlakovým regulátorem umožňujícím zašroubování fittingu ¼ NTP

### Obsah dodávky:

- Optické desky dle specifikace
- Rigidní samostatně stojící izolátory dle specifikace
- Samonivelační samostatně stojící pneumatické izolátory dle specifikace
- Každý celý stůl je vybaven přívodním vzduchovým částicovým filtrem
- Každý celý stůl má k dispozici cca 10m dlouhé 1/4" hadičky a potřebné fittingy
- Doprava (balné, transport, pojištění) do místa plnění
- Technika pro závoz dodávky do přízemí a do prvního patra skrz nákladní vstup
- Stěhovací služba pro nastěhování a instalaci stůlů do přízemí a prvního patra



EUROPEAN UNION  
European Structural and Investing Funds  
Operational Programme Research,  
Development and Education



MINISTRY OF EDUCATION,  
YOUTH AND SPORTS

**ANNEX 3**  
**PRICE SHEET**

***The content of Annex 3 is subject to trade secret.***

**Total purchase price is CZK 1,458,640,10 excluding VAT.**