

Desk Proof 2026

Autonomous Desk Pro, measured by an independent lab and benchmarked against the premium sit-stand category: stability, weight capacity, and height range.



0.2344_{in}

WORST-CASE
OSCILLATION
STABILITY

450_{lb}

LOAD TEST
PASS
WEIGHT CAPACITY

29.25_{in}

HEIGHT RANGE
MEASURED SPAN
24.25-53.5 IN

Autonomous Desk Pro, measured on the bench.

Every headline number traces to one unit – sample A004296707-001, tested by TÜV Rheinland Vietnam, report VN26FTMK 001, Jun 11-15, 2026. Result: Pass.



STABILITY
0.2344in

Worst-case oscillation amplitude – 46 in height, 15 lb pull, 50 lb center load.



WEIGHT CAPACITY
450lb

Two 225 lb weights placed on both sides of the desk motor. Result: Pass.



HEIGHT RANGE
29.25in

24.25-53.5 in incl. top. Lab measured 23.125-52.125 in floor-to-underside.

EVIDENCE-ADJUSTED BENCHMARK SCORE

100

Anchored on independent stability disclosure, a measured height span, and a load-proof point – each traceable to one lab-tested sample.

A

INDEPENDENT LAB EVIDENCE

DeskProof 2026 opens with disclosed measurements, not a ranking: the protocol, the result, and what it means for daily workstation use – before any competitor enters the comparison.

VN26FTMK 001 TÜV RHEINLAND VIETNAM REPORT	102.52 lb SAMPLE WEIGHT	53 × 29 in WORKSURFACE (W × D)	\$599 PUBLIC STARTING PRICE
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SAMPLE A004296707-001 – RECEIVED COMPLETE AND UNDAMAGED

The platform behind the numbers.

The frame, desktop, controls, lift system, and build process customers use every day – the physical design that the bench results are tied to.



REAL WORKSTATION USE CASE



C-FRAME PLATFORM



EMBEDDED CONTROL + WRIST EDGE



CURVED FRONT EDGE



COLUMN & CABLE ROUTING



WORK SURFACE & CONTROLS



BUILD & MATERIAL PROCESS

34 mm

CURVED FRONT EDGE RADIUS

1.2 in

DESKTOP THICKNESS

450 lb

TÜV LOAD-PLACEMENT PASS

50,000

PUBLIC DURABILITY CYCLE REFERENCE

C-Frame

CLEARs THE FRONT KNEE ZONE

HDF

SEALED DESKTOP MATERIAL PLATFORM

SPCC

PUBLIC LISTED FRAME STEEL GRADE

<0.5

MG/L FORMALDEHYDE EMISSION REF.

How the benchmark is scored.

A desk is not stable because of one part; it is stable because the load path, frame geometry, motors, surface, and controls work together.

STABILITYBENCH	LOADPROOF	HEIGHTSPAN	QUIETMOTION	VALUEINDEX	EVIDENCEGRADE
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01 / STABILITYBENCH

Quantified wobble under force.

50 lb center load. Pull forces of 5, 10, and 15 lb. Heights of 30, 42, and 46 in. Primary score: worst-case oscillation amplitude.

03 / HEIGHTSPAN

Ergonomic range.

Floor to top of work surface, including the desktop. Primary score: measured travel from minimum to maximum height.

05 / VALUEINDEX

Premium performance per dollar.

Calculated from public starting prices and measurable performance. Primary readout: height span and load-proof per dollar.

02 / LOADPROOF

Heavy setup headroom.

Two 225 lb weights placed on both sides of the desk motor. Primary score: pass/fail under independent lab setup.

04 / QUIETMOTION

Shared-room lift quality.

Public product specification motor noise. Evidence type: manufacturer-disclosed specification, not TÜV measured in this report.

06 / EVIDENCEGRADE

Trust ranking.

A: independent lab data. B: manufacturer specification. C: calculated index. Untested competitor stability is not treated as direct evidence.

Autonomous Desk Pro vs the high-end set.

Compared against Herman Miller Renew, Herman Miller Jarvis Bamboo, Steelcase Ology, UPLIFT V3, Ergonofis Sway, Secretlab MAGNUS Pro, and Vari ComfortEdge. Autonomous Desk Pro is the only desk in the set with a published same-protocol stability figure.

01 / STABILITYBENCH
ONLY DISCLOSED SAME-PROTOCOL LAB STABILITY DATA

Autonomous Desk Pro		0.2344
Herman Miller Renew		N/A
Herman Miller Jarvis Bamboo		N/A
Steelcase Ology		N/A
UPLIFT V3		N/A
Ergonofis Sway		N/A
Secretlab MAGNUS Pro		N/A
Vari ComfortEdge		N/A

Worst-case TÜV oscillation in inches, lower is better. Competitors had no public same-protocol stability result in reviewed sources.

02 / LOADPROOF • UNIT: LB
+90 LB VS NEXT BEST • +200 LB VS HERMAN MILLER RENEW

Autonomous Desk Pro		450
Ergonofis Sway		360
UPLIFT V3		355
Herman Miller Jarvis Bamboo		350
Steelcase Ology		314
Secretlab MAGNUS Pro		265
Herman Miller Renew		250
Vari ComfortEdge		220

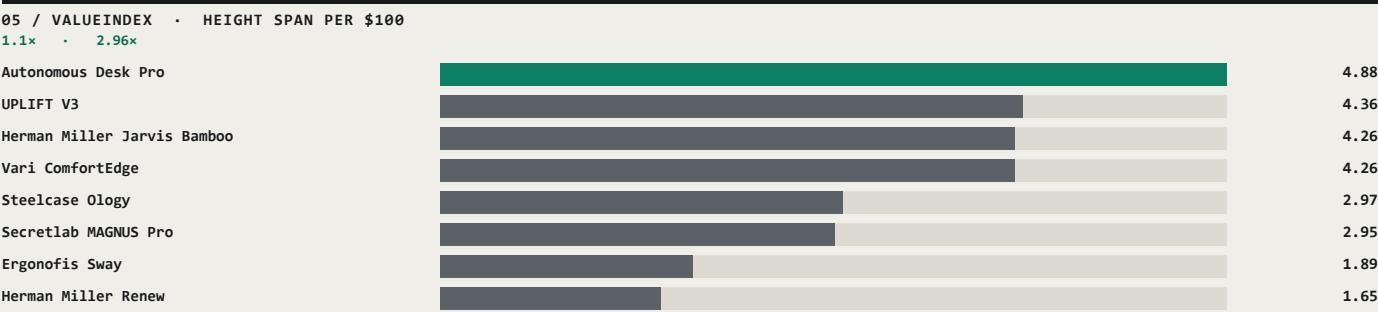
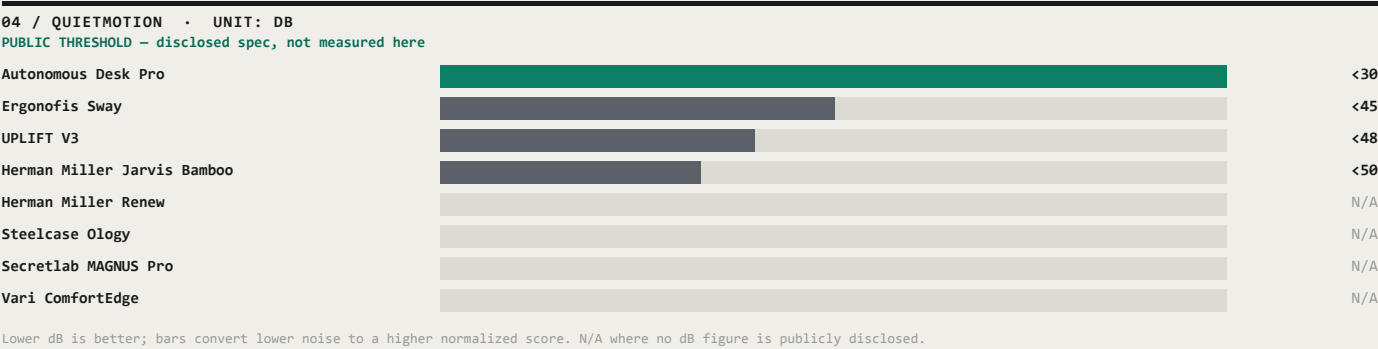
Load comparisons are directional – 450 lb is a TÜV pass at a placed load; competitor figures are rated capacities.

03 / HEIGHTSPAN • UNIT: IN
+3.0 IN VS NEXT BEST • +5.7 IN VS SECRETLAB MAGNUS PRO

Autonomous Desk Pro		29.25
Ergonofis Sway		26.3
Steelcase Ology		26.1
UPLIFT V3		26.1
Herman Miller Renew		26.0
Herman Miller Jarvis Bamboo		25.5
Vari ComfortEdge		25.5
Secretlab MAGNUS Pro		23.6

Quiet motion, value, and evidence quality.

These criteria compare motor-noise disclosure, price-performance, and the strength of the evidence behind each result.



StabilityBench: less than a quarter inch at the hardest measured point.

TÜV MEASURED

0.2344in

Worst-case recorded oscillation amplitude: 46 in desk height, 15 lb pull force, with a 50 lb center load.

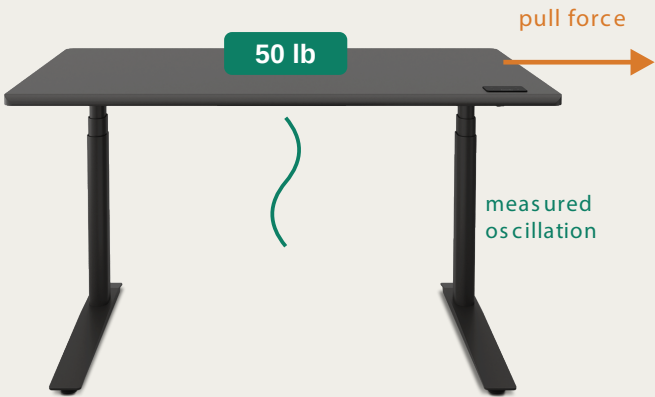
FIELD	PROTOCOL
Sample	Autonomous Desk Pro, A004296707-001
Lab	TÜV Rheinland Vietnam
Period	Jun 11-15, 2026
Method	In-house stability method

autonomous.ai/s/tuv-rheinland

The lab did not publish a vague "stable" rating. It recorded oscillation amplitude under increasing force and height.

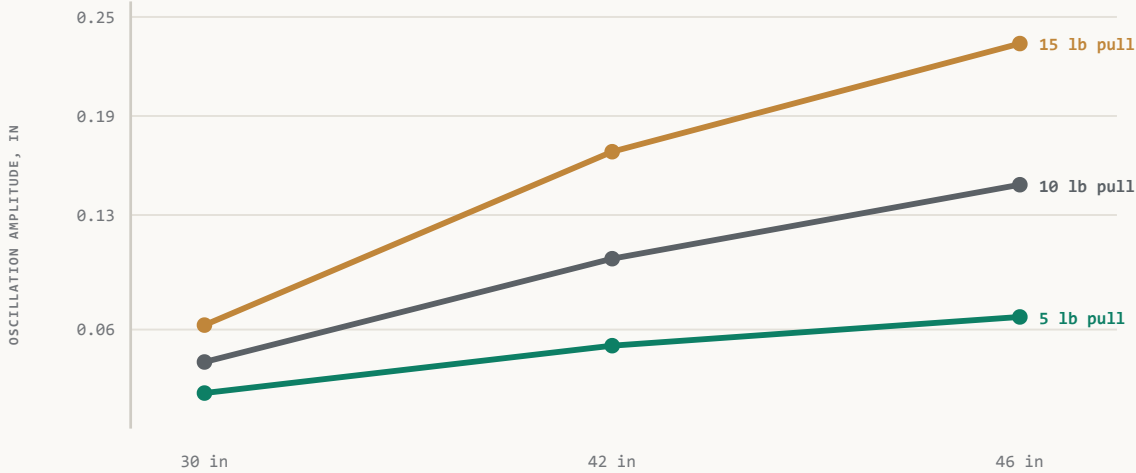
PULL	30 IN	42 IN	46 IN
5 lb	0.0216	0.0505	0.0680
10 lb	0.0405	0.1034	0.1485
15 lb	0.0630	0.1685	0.2344

All values are oscillation amplitude in inches from the TÜV test record table. Lower is better. Competitor desks were not tested under this same protocol in the public sources reviewed.



Wobble rises predictably, then stays below the headline threshold.

Charting the TÜV table as a curve makes the result easier to read than a general stability statement. Lower oscillation is better.



TÜV Rheinland Vietnam stability table, with a 50 lb center load. The hardest measured point was 46 in height and 15 lb pull force.



FRAME PROFILE

0.0680	0.1485	0.2344	<0.25
46 IN HEIGHT, 5 LB PULL	46 IN HEIGHT, 10 LB PULL	46 IN HEIGHT, 15 LB PULL	WORST-CASE STAYS UNDER A QUARTER INCH

LoadProof and HeightSpan.

Load and range are difficult to compare without a measured protocol. The TÜV report gives Autonomous Desk Pro a measured reference point for both.

TÜV MEASURED

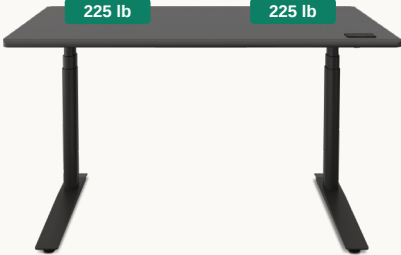
450_{lb}

Weight capacity pass.

The lab placed two 225 lb weights on both sides of the desk motor. Result: Pass.

225 lb

225 lb



HEIGHTSPAN • TÜV-SOURCED

29.25_{in}

Full vertical range.

Floor to top of work surface (incl. desktop): **24.25-53.5 in.**
TÜV height-range test, floor to underside: **23.125-52.125 in** (29.0 in travel).

METRIC	RESULT
Min height (incl. top)	24.25 in
Max height (incl. top)	53.5 in
HeightSpan (floor to top)	29.25 in
TÜV floor-to-underside test	23.125-52.125 in • 29.0 in
Product dimensions in report	53 x 29 in top; 102.52 lb sample

- +3.0 in

MORE SPAN THAN ERGONOFIS SWAY
- +3.2 in

MORE SPAN THAN UPLIFT V3
- +3.3 in

MORE SPAN THAN HERMAN MILLER RENEW
- +5.7 in

MORE SPAN THAN SECRETLAB MAGNUS PRO
- A

INDEPENDENT EVIDENCE GRADE

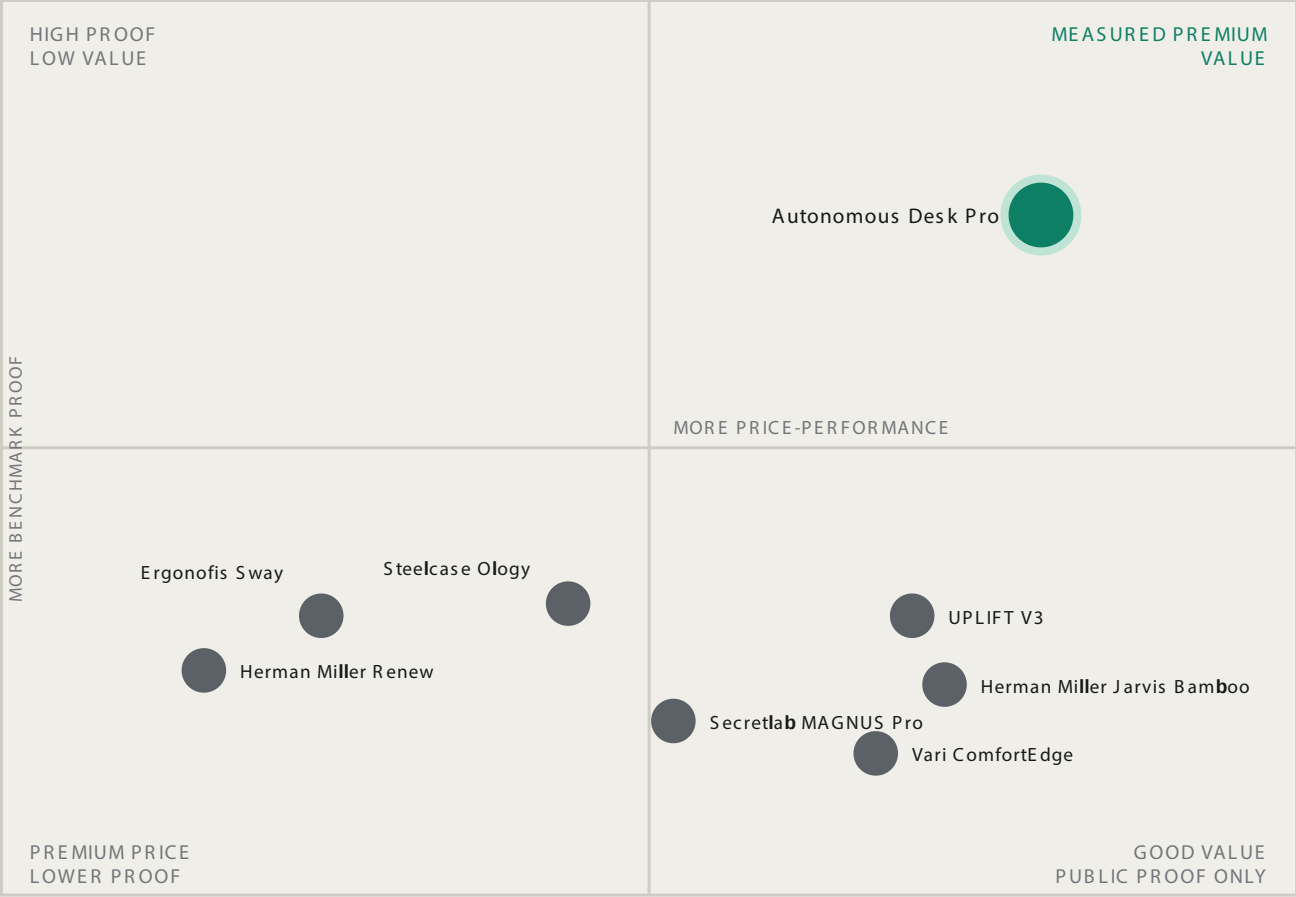
The selected premium set, source by source.

Each row lists source type, starting price, range, load or capacity, and the practical readout used in the benchmark.

PRODUCT	EVIDENCE	PRICE	RANGE (IN)	LOAD / CAPACITY	READOUT
Autonomous Desk Pro	TÜV + PUBLIC	\$599	24.25–53.5	450 lb pass	Benchmark leader
UPLIFT V3	PUBLIC SPEC	\$599 ref.	21.6–47.7	355 lb	Strong spec-sheet rival
Herman Miller Jarvis Bamboo	PUBLIC SPEC	\$599 ref.	25.5–51	350 lb	Strong capacity, low price
Vari ComfortEdge	PUBLIC SPEC	\$599 ref.	25–50.5 ref.	220 lb	Budget value, lower capacity
Secretlab MAGNUS Pro	PUBLIC SPEC	\$800 ref.	25.6–49.2	265 lb	Integrated cable tray, lower range
Steelcase Ology	PUBLIC SPEC	\$880 ref.	22.6–48.7	314 lb ref.	Strong ergonomic range
Ergonofis Sway	PUBLIC SPEC	\$1,395 ref.	22–48.3	360 lb	Premium materials, higher price
Herman Miller Renew	PUBLIC SPEC	\$1,575 ref.	22–48	250 lb	Premium price, lower capacity

Autonomous Desk Pro is the measured-value outlier.

In this 2x2 comparison, better moves up and right. Autonomous Desk Pro is the only desk in the selected premium set with both high benchmark proof and high price-performance.



Product geometry and cost efficiency.

The desk dimensions and cost-per-inch calculation show how the measured height range translates into value.



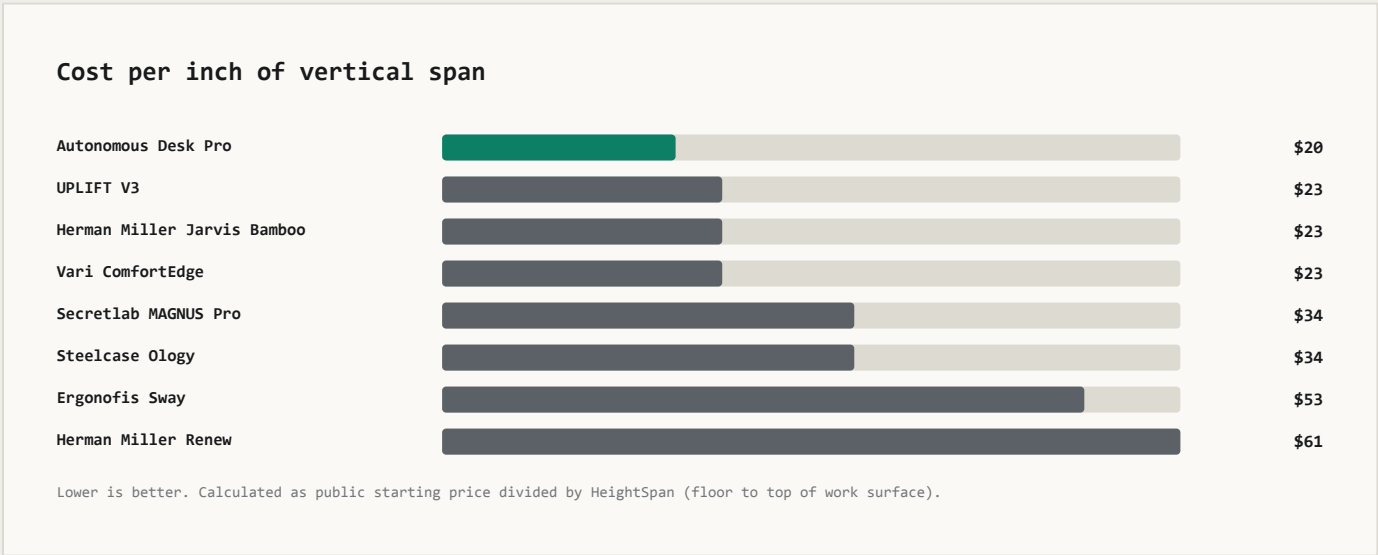
PRODUCT GEOMETRY

53-70.5 in
WORKSURFACE WIDTH

29 in
WORKSURFACE DEPTH

24.25-53.5 in
HEIGHT, FLOOR TO TOP

29.25 in
HEIGHTSPAN



Translate lab data into real work.

Raw numbers are most useful when translated into situations buyers understand. These are scenario interpretations, not additional lab tests.

01	Dual-monitor engineering desk Monitor arms can amplify small desk motion. StabilityBench reports the actual oscillation envelope under pull force and height.	0.2344 in
02	Studio and hardware-heavy setup Audio interfaces, speakers, towers, displays, and mounts add up. LoadProof gives a high-load proof point beyond ordinary desktop use.	450 lb
03	Shared room or video-call workspace Public Autonomous Desk Pro specifications report sub-30 dB motor noise, positioning the desk for quiet movement during calls and shared work.	<30 dB
04	Multi-user ergonomic fit HeightSpan covers 24.25-53.5 in floor to top of work surface, exceeding the selected premium set's public height-span disclosures.	29.25 in
05	Premium alternative purchase At the public starting price, Autonomous Desk Pro is roughly 2.63x lower than Herman Miller Renew while leading the evidence-adjusted benchmark.	2.63x

The benchmark result is not simply a lower price. It is measured performance, ergonomic range, and price-performance in the same product.

CUSTOMER TAKEAWAY

Credibility comes from saying exactly what was tested.

The methodology below states what was tested, how competitor data was collected, and where comparisons are directional rather than same-protocol. Mechanical results apply to both Desk Pro and Desk Pro AI, which share the same frame. The sensor hub was not part of this test.

Independent lab basis

The full report is published unredacted at [autonomous.ai/s/tuv-rheinland](#). TÜV Rheinland Vietnam tested the Autonomous Desk Pro sample A004296707-001 for mechanical safety using in-house stability, height range, and weight capacity methods. The report result was Pass.

Stability protocol

A 50 lb weight was placed at the center of the desk. Oscillation amplitude was recorded at 30, 42, and 46 in desk heights under 5, 10, and 15 lb pull forces. Worst-case amplitude: 0.2344 in.

Height protocol

HeightSpan is floor to top of work surface, including the desktop: 24.25-53.5 in (29.25 in), matching the floor-to-top public specs used for competitors. The TÜV height-range test separately measured floor to underside of tabletop: 23.125-52.125 in (29.0 in travel).

Capacity protocol

The weight capacity setup placed two 225 lb weights on both sides of the desk motor. The result was Pass.

Competitor comparison

Competitor prices, height ranges, capacities, and noise figures were collected from public manufacturer pages, official product sheets, and listed procurement references. The set is the premium sit-stand category: Herman Miller Renew, Herman Miller Jarvis Bamboo, Steelcase Ology, UPLIFT V3, Ergonofis Sway, Secretlab MAGNUS Pro, and Vari ComfortEdge.

Limits

Competitor desks were not tested under the same TÜV protocol in the reviewed public sources. Direct same-protocol comparisons require retail-purchased competitor units run through the same lab protocol. Prices can change; ValueIndex and cost-per-inch use public starting prices.

A: Independent lab B: Public manufacturer spec C: Calculated index

Research base.

Sources were reviewed on Jun 16, 2026.
Prices can change; current store pages
should be checked before purchase.

1. TÜV Rheinland Vietnam, Test Report VN26FTMK 001, Autonomous Desk Pro sample A004296707-001, issued Jun 15, 2026, [autonomous.ai/s/tuv-rheinland](#)

2. Autonomous Desk Pro product page: [autonomous.ai/standing-desks/desk-5-pro](#)

3. Herman Miller Renew Sit-To-Stand Desk: [store.hermanmiller.com/standing-desks/renew-sit-to-stand-desk](#)

4. Herman Miller Renew product sheet: [hermanmiller.com – renew_sit_to_stand_tables_product_sheet.pdf](#)

5. Herman Miller Jarvis Bamboo Standing Desk: [store.hermanmiller.com/standing-desks/jarvis-bamboo-standing-desk](#)

6. Steelcase Ology product page: [steelcase.com/products/height-adjustable-desks/ology-desk](#)

7. Steelcase Ology procurement reference: [uhs.berkeley.edu – bbologyrecorder21.pdf](#)

8. UPLIFT V3 commercial frame spec: [upliftdesk.com – V-series commercial frame specs](#)

9. Ergonofis Sway comparison: [ergonofis.com/pages/compare-ergonofis-desks](#)

10. Secretlab MAGNUS Pro specifications: [secretlab.co/pages/magnus-pro](#)

11. Vari ComfortEdge / electric standing desk: [vari.com – electric standing desk specs](#)

BENCHMARK SUMMARY

Autonomous Desk Pro combines independent stability data, heavy-load proof, full-range ergonomic coverage, and price-performance that the selected premium set does not match.