

## ***Nanodesma chinensis* sp. nov. (Coleoptera: Bostrichoidea: Ptinidae), the first species of this genus from the Palaearctic Region**

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### **Taxonomy, new species, Coleoptera, Ptinidae, *Nanodesma*, China, Palaearctic Region**

**Abstract.** A new species from genus *Nanodesma* Zahradník, 2019, *Nanodesma chinensis* sp. nov. (China, Guizhou Province), the first species of this genus from the Palaearctic Region is described, illustrated and compared with other species from this genus.

### INTRODUCTION

The genus *Nanodesma* Zahradník, 2019 belongs to the subfamily Anobiinae Fleming, 1821, tribe Nicobiini White, 1982, which contains four genera - *Anobiopsis* Fall, 1905, *Nanodesma* Zahradník, 2019, *Nicobium* LeConte, 1861 and *Trichodesma* LeConte, 1861. Key to these genera presents Zahradník (2019). The genus *Nanodesma* Zahradník, 2019 contains ten species. This genus was distributed only in Oriental Region, *N. chinensis* sp. nov. is the first species of this genus from Palaearctic Region. Key of species *Nanodesma* Zahradník, 2019 is given by Zahradník (2019, 2021).

### MATERIAL AND METHODS

I had available and I studied all the type species materials of the genus *Nanodesma* Zahradník 2019.

The habitus photographs were made by 3D Microscope with Full HD Camera.

The new species described here is provided with a red, printed label showing the following words: "Holotype"; on the second white, printed label, there is the text: "*Nanodesma / chinensis*, sp. n. / P. Zahradník det.

The holotype is deposited in the author's collection.

### RESULTS

#### ***Nanodesma chinensis* sp. nov.**

(Figs. 1a-d)

**Type material.** Holotype (♀): China, Guizhou NE, 20 km NW of Jiangkou, Fanjing Shan -Kusichang, 27.v.-3.vi.1995, E. Jendek & O. Šauša lgt.

**Description.** Female (holotype). Shortly oval, almost rounded, convex, body length 4.0 mm, the greatest width 2.1 mm. Ratio elytra length : width of 1.4. Body piceous, antennae, palpi and legs slightly lighter. Pubescence white. Habitus as in Figs. 1a, 1b, 1c.

Head almost flattened, with longitudinal and transversal slight keel in middle of head created cross, surface dense and shortly pubescent and with a few long erect hairs. Surface matt, with

dense coarse punctuation, punctures almost touching. Eyes large, globular, with dense short brown erect setae. Front 4 times wider than width of eye in dorsal view. Antennae filiform, consisting of eleven antennomeres (Fig. 1d). The last three antennomeres enlarged. The 1<sup>st</sup> antennomere robust, 1.5 times longer than wide, the 2<sup>nd</sup> and the 3<sup>rd</sup> antennomeres equal in length, the 2<sup>nd</sup> 1.3 times wider than 3<sup>rd</sup>, only half long as the 1<sup>st</sup> and narrower. The 4<sup>th</sup> twice shorter than previous and twice as long as wide. The 5<sup>th</sup>-8<sup>th</sup> similar, 1.1 times longer than wide, as wide as 4<sup>th</sup> antennomere. The 9<sup>th</sup> antennomere 1.5 times shorter than 4<sup>th</sup> to 8<sup>th</sup> together, slightly serrate, twice as long as wide. The 10<sup>th</sup> 1.2 times longer than previous one, 0.9 times narrower, also slightly serrate. The last, antennomere twice longer than 9<sup>th</sup> antennomere, 4.0 times longer than wide, slightly narrower than previous, spindleform. The 1<sup>st</sup> antennomere with dense semierect pubescence, other antennomeres almost glabrous.



Figs. 1a-d. *Nanodesma chinensis* sp. nov.: 1a- habitus, dorsal view; 1b- habitus, frontal view; 1c- habitus, lateral view; 1d- antenna.

Pronotum transverse, ratio length : width 0.7, the widest at 2/3 of length, rhomboidal, wider in the first third, anteriorly narrower, posteriorly wider than anterior part. Middle of pronotum with sharp bump inclined backwards. From top of bump with slight narrow elevation achieving to lateral margin of pronotum. Between top of bump and anterior margin with very narrow line. Each side of pronotum with two depressions, divided by transversal elevation. Surface of pronotum covered by two types of hairs - the first semierect, dense, irregularly arranged, the second consisting of erect shortly long setae on margin of pronotum. Lateral margin of bump with short dense erect dark brown setae, triangular, setae, inclined backwards, arranged in comb. Before bump with two small symmetric rounded spots of short dense erect dark brown setae. Surface of pronotum obsoletely shining, with large shining bulges, their diameter twice larger than distance between them.

Scutellum trapezoidal, small, 1.1 times longer than wide, with short semierect pubescence.

Elytra shortly longer than wide, with small shoulders, shining, with 10 slightly visible striae from large punctures, distance between these punctures same as their diameter. Pubescence of elytra of two types - the first short white semierect, arranged in small triangular aggregation, sharpened backwards, the second sparse, long, erect, brown. Each elytron with three small aggregation of dense brown setae.

All legs the same, stout, femora thick and flattened, tibia slim, longer than femora. All tarsi with five tarsomeres, 1.3 times shorter than tibia. The 1<sup>st</sup> tarsomere twice longer than 2<sup>nd</sup>, the 2<sup>nd</sup> to 4<sup>th</sup> similar, as long as wide, the 4<sup>th</sup> on apex emarginate. The 5<sup>th</sup> the largest, as long as 3<sup>rd</sup> and 4<sup>th</sup> together, slightly wider as previous. Two claws robust with broad basal tooth.

**Male.** Unknown.

**Differential diagnosis.** The new species differs from all other species of this genus by irregular pubescence on elytra, without different spots and areas, almost glabrous. The pronotum is also different from other species by transversal elevation and characters of bump (Fig. 1 b).

**Name derivation.** Derived from name of country of its distribution - China.

**Distribution.** China (Guizhou Province).

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