



***Holamptocrinus argutus* gen. et sp. n. (Crinoidea, col.)
from the Lower Devonian (Dalejan)
of the Barrandian area (Czech republic)**

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ABSTRACT. *Holamptocrinus argutus* gen. et sp. n. (col.), a new genus and a new species of a camptocrinid crinoid is described on the basis of isolated columnals and pluricolumnals from the Lower Devonian of the Barrandian area. Until present, the ossicles of this species were found only in the Třebotov Limestone of the Dalejan (= Upper Emsian) age.

KEY WORDS. Echinodermata, Crinoidea, col., *Holamptocrinus* gen. n., Lower Devonian, Dalejan, Upper Emsian, Barrandian area, Czech Republic.

INTRODUCTION

During current research of the crinoid assemblages from the Bohemian Lower Devonian, abundant isolated columnals and pluricolumnals of camptocrinid type were found in the washings from the weathered parts of Třebotov biomicrite limestones of the Dalejan (= Upper Emsian) age. These ossicles are described herein as a new genus and new species: *Holamptocrinus argutus* gen. et sp. n. (col.).

The classification of crinoids follows Moore & Jeffords (1968), morphological terminology follows Ubaghs (1978).

SYSTEMATIC PART

Subclass Camerata Wachsmuth et Springer, 1885

Order Monobathrida Moore et Laudon, 1943

(Group Varii Moore et Jeffords, 1968)

Family Dichocrinidae S. A. Miller, 1889

***Holamptocrinus* gen. n. (col.)**

TYPE SPECIES: *Holamptocrinus argutus* sp. n. (col.). Lower Devonian, Dalejan (= Upper Emsian), Bohemia.

DIAGNOSIS: Stem homeomorphic composed from high columnals, oval or semicircular in outline. Articular facets with perfectly developed coarse, but unsymmetrically arranged crenularium (the inner crenulae are more slender than the outer ones). Lumen circular, minute. Fulcrum straight, relatively wide and flat; both outer and inner ligamentary areas small and inexpressive. Latera slightly concave with low circular cirrus scars. Placement of these scars is mostly at mid-height of the latera.

***Holamptocrinus argutus* sp. n. (col.)**

(Pl. 1, Fig. 1A-E)

HOLOTYPE: NMP L 40293, isolated pluricolumnal figured on Figs A-B.

TYPE HORIZON: Třebotov Limestone, Lower Devonian, Dalejan.

TYPE LOCALITY: Praha-Holyně, abandoned "Prastav" quarry.

MATERIAL: In addition to the holotype and figured specimens about 200 isolated columnals and pluricolumnals from washings.

DESCRIPTION: See diagnosis of the genus.

REMARKS: The ossicles of this species were abundantly found in all localities of the Třebotov Limestone in the Barrandian area. They have not been discovered in the limestones of other Lower Devonian strata in Bohemia.

Table 1. Dimensions of the holotype and the paratypes of *Holamptocrinus argutus* gen. et sp.n. All measurements are in mm.

	L 40293	L 40294	L 40295	L 40296	L 40297
	Holotype	Paratype	Paratype	Paratype	Paratype
Height of columnal	1.4	1.0	1.4	1.2	1.2
Horizontal diameter	2.2	1.8	2.4	2.2	2.4
Vertical diameter	2.8	2.1	2.8	2.8	2.6

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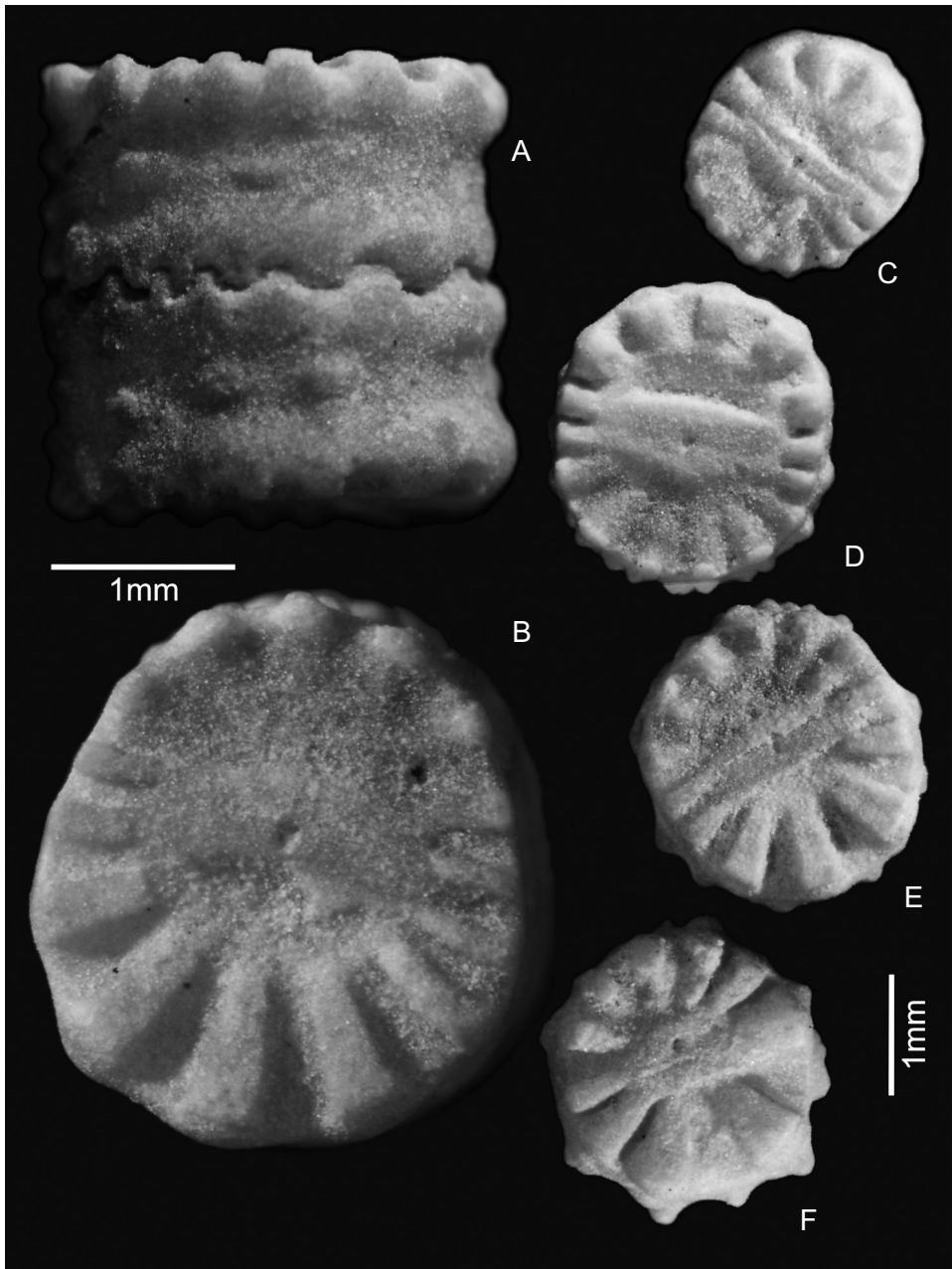


Fig. 1 *Holamptocrinus argutus* gen. et sp. n. (col.). A-B: holotype, NMP L 40293, isolated pluricolumnal, x 25; C: isolated columnal NMP L 40294, x 17; D: isolated columnal NMP L 40295, x 17; E: isolated columnal NMP L 40296, x 10; F: isolated columnal NMP L 40297, x 10. Lower Devonian, Dalejan, Třebotov Limestone. Praha-Holyně, abandoned „Prastav“ quarry. All specimens are deposited in the collections of the Palaeontological Department of the National Museum (abbrev. NMP), catalogue L. Photographs by the author.