

46. STRIGA Loureiro, Fl. Cochinch. 1: 22. 1790.

独脚金属 du jiao jin shu

Herbs, parasitic. Leaves opposite below, alternate above, narrow, sometimes reduced to scales. Flowers solitary in leaf axils or in spikes, usually with a pair of bracteoles. Calyx tubular, conspicuously 5–15-ribbed, 5-lobed. Corolla salverform; tube curved in middle or apically; limb patent, weakly 2-lipped; lower lip 3-lobed; upper lip shorter than lower, entire, emarginate to 2-lobed. Stamens 4, didynamous; anthers 1-loculed, base spurless, apex pointed. Stigma clavate. Capsule loculicidal. Seeds numerous, ovoid to oblong; seed coat reticulate.

About 20 species: Africa, tropical and subtropical Asia, Oceania; four species in China.

1a. Calyx 15-ribbed, 0.9–1.5 cm.

2a. Calyx lobes ca. 2 × as long as tube; corolla tube to 1.2 cm 2. *S. masuria*

2b. Calyx lobes almost as long as tube; corolla tube ca. 2 cm 3. *S. angustifolia*

1b. Calyx 5- or 10-ribbed, less than 0.8 cm.

3a. Calyx 10-ribbed; corolla tube curved near apex, limb bright yellow, rarely white or red 1. *S. asiatica*

3b. Calyx 5-ribbed; corolla tube curved above middle, limb white or pale pink 4. *S. densiflora*

1. *Striga asiatica* (Linnaeus) Kuntze, Rev. Gen. Pl. 466. 1891.

独脚金 du jiao jin

Buchnera asiatica Linnaeus, Sp. Pl. 2: 630. 1753;
Striga asiatica var. *humilis* (Benth) D. Y. Hong; *S. hirsuta* Benth; *S. hirsuta* var. *humilis* Benth; *S. lutea* Loureiro.

Annuals, 10–20(–30) cm tall, entirely hirsute. Stems erect, 1, rarely branched. Leaf blade linear to narrowly lanceolate, 5–20 × 1–4 mm, sometimes reduced to scales. Flowers axillary, solitary or in a spike upward. Calyx 4–8 mm, 10-ribbed; lobes 5, ± as long as tube, subulate. Corolla usually yellow, rarely red or white; tube 0.8–1.5 cm, apically strongly curved; upper lip 2-lobed. Capsule ovoid, enveloped in persistent calyx. Fl. autumn.

Crop fields, waste grasslands; below 800 m. Fujian, Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Taiwan, Yunnan [Bhutan, Cambodia, India, Nepal, Philippines, Sri Lanka, Thailand, Vietnam; Africa, America].

The whole plant is used for treating intestinal parasites. This species is harmful to crops, particularly to sugar cane.

2. *Striga masuria* (Buchanan-Hamilton ex Benth) Benth in Hooker, Companion Bot. Mag. 1: 364. 1836.

大独脚金 da du jiao jin

Buchnera masuria Buchanan-Hamilton ex Benth, Scroph. Ind. 41. 1835.

Perennials, 30–60 cm tall, entirely hispid. Stems erect, ± quadrangular, simple or weakly branched. Leaf blade linear, 2–3 cm, longest at middle of stem. Flowers solitary, rarely in a spike. Calyx ca. 1 cm at anthesis, to 1.5 cm in fruit, 15-ribbed; lobes ca. 2 × as long as tube, linear-elliptic. Corolla pink, white, or yellow; tube to 1.2 cm, apically curved forward; upper lip ca. 1/2 as long as lower, apex notched. Capsule ovoid, ca. 6 mm. Fl. summer–autumn.

Grassy slopes, hard forests; to 1100 m. Fujian, Guangdong, Guangxi, S Guizhou, Hunan (Hengshan Xian), S Jiangsu, SW Sichuan, Taiwan, Yunnan [Cambodia, India, Laos, Myanmar, Nepal, Philippines, Thailand, Vietnam].

3. *Striga angustifolia* (D. Don) C. J. Saldanha, Bull. Bot. Surv. India. 5: 70. 1963.

狭叶独脚金 xia ye du jiao jin

Buchnera angustifolia D. Don, Prodr. Fl. Nepal. 91. 1825.

Annuals, 15–45 cm tall. Stems erect, subquadrangular, simple, rarely apically branched, hispidulous. Leaves sessile, linear, 1.5–3.5 cm × 1–2 mm, lower ones smaller, scabrous hairy. Spikes 3- to numerous flowered, 3–15 cm; bracts similar to leaves in shape and size. Pedicel less than 2 mm. Bracteoles less than 1 mm, linear. Calyx 9–10 mm, 15-ribbed, hispidulous along ribs; lobes almost as long as tube, subulate. Corolla white, 1.2–1.5 cm; tube ca. 2 cm × 1 mm, apically curved forward; limb 4–6 mm; lower lip lobes 4–6 × 3–4 mm. Capsule obovoid-oblong, ca. 4.5 × 3 mm. Seeds brown, minute. Fl. Sep–Dec.

Grassy places; low elevations. Hainan (Dongfang Xian) [Bhutan, India, Myanmar, Nepal, Sri Lanka, Vietnam].

4. *Striga densiflora* (Benth) Benth in Hooker, Companion Bot. Mag. 1: 363. 1836.

密花独脚金 mi hua du jiao jin

Buchnera densiflora Benth, Scroph. Ind. 41. 1835.

?Perennials, ca. 25 cm tall, entirely hispid. Stems erect. Leaf blade linear, ca. 1 cm. Inflorescences terminal lax spikes; bracts longer than calyx. Calyx 5–6 mm, 5-ribbed; lobes nearly as long as tube, awn-shaped. Corolla tube ca. 1 cm, slightly curved above middle; upper lip emarginate. Capsule enveloped in calyx, oblong, ca. 2.5 mm.

Yunnan (Mengzi Xian) [India, Sikkim].

Only one specimen has been seen. Its characters of calyx, corolla tube, upper corolla lip, and capsule are consistent with the original description. However, the corolla of the specimen is not intact and the above description is incomplete.

