

生砸 1 号（生砸无蔓金丝瓜）品种介绍



金丝瓜属于西葫芦变种（金丝瓜，别名金瓜、搅瓜），生砸 1 号（生砸无蔓金丝瓜）由朱思浩教授（上海四系生态农业科技有限公司创始人）依托原浩华现代农业产业开发研究所历经多年选育而成，是国际标志性无蔓型金丝瓜品种，上世纪 90 年代正式对外发表推广，先后斩获 98 国际“一村一品”名优、土特、新产品（技术）博览会国际金奖、中国杨凌农博会后稷金像奖等多项行业大奖。

品种植物学性状

该品种根系发达，茎直立丛生、无蔓不爬藤，无需搭架，节省田间支架成本。成株叶片掌状浅裂；普通育苗条件下 4-6 节开始出现第一雌花，雌雄同株异花，花瓣金黄色。嫩果果皮乳白色，生理成熟后果实转为黄白至灰黄色，果实不含脂肪；单果重 3-6kg，单株可结瓜 5-7 个（最多超过 10 个）；全生育期 65-100 天，适应性广，凡可以种植西葫芦和南瓜的区域均可栽培，适合反季节生产。

对比传统有蔓金丝瓜：传统品种藤蔓长达 3-4 米，坐果率低、产量低（亩产 1000-1500 公斤）、抗逆抗病弱；生砸 1 号克服以上短板，亩产可达 4000-10000 公斤，抗逆丰产，耐贮藏，常温储存期可达 6 个月以上，可填补冬春蔬菜淡季市场缺口。

核心特色：生砸出丝

本品种最大创新点：成熟瓜不需要蒸煮、冷冻处理，直接砸开即可分离出晶莹透亮、粗细约 2mm 金黄色瓜丝，俗称“植物海蜇丝”。食用方式多元：生熟均可，凉拌、爆炒、油炸、煮汤、做馅料均可；风味脆嫩爽口，熟食甘甜醇香；还可深加工制作罐头、方便食品、蔬菜保健酒，具备出口加工潜力。

营养特点

每 500g 鲜瓜肉营养组分：蛋白质 3.2g（无脂肪）、碳水化合物 13g、铁 0.8mg、钙 107mg、磷 87mg、尼克酸 0.8mg、硫胺素 0.08mg、核黄素 0.08mg、抗坏血酸 20mg；含有普通瓜类少见**葫芦巴碱**和**丙醇二酸**，可调节人体代谢，有减重保健价值，被誉为“绿色保健蔬菜”。

产业应用现状

1. 露地、大棚均可种植，无蔓直立，田间管理简单，适合规模化基地、家庭农场；
2. 鲜果直接上市，也可长期贮藏错峰销售；
3. 可延伸预制菜、罐头、特色酒水加工产业链；
4. 在四系农业“四系生态自我循环农业模式”体系下，可配套不施化肥化学农药的生态栽培方案，产出高安全品质的金丝瓜产品。





Shengza No.1 (Vine- free Golden Thread Gourd) Variety Introduction

The golden thread gourd is a variant of summer squash, also known as golden gourd or jelly gourd. **Shengza No.1 (Vine- free Golden Thread Gourd)** was developed through years of selective breeding by Professor Zhu Sihao, Founder of Shanghai Sixi Ecological Agriculture Technology Co., Ltd., under the former Haohua Modern Agricultural Industry Development Institute. As an internationally landmark vine- free golden- thread- gourd variety, it was officially published and promoted in the 1990s. It has won many major industry awards including the International Gold Medal at the 1998 International "One Village, One Product" Expo for High- quality Special Local New Products & Technologies, and the Houji Gold Medal at China Yangling Agricultural Hi- tech Fair.

Botanical Traits

This variety features a well- developed root system. Its stems grow in erect clusters with no creeping vines, so trellising is unnecessary, which saves input for field supports. Mature plants bear shallow palm- lobed leaves. Under conventional seedling- raising conditions, the first female flower emerges at the 4th- 6th node. It is monoecious with golden- yellow petals. Immature fruits have milky- white peel, which turns yellowish- white to greyish- yellow upon physiological maturity. The fruit contains zero fat. Single fruit weight ranges from 3 kg to 6 kg. One plant normally sets 5- 7 fruits, with a maximum yield of over 10 fruits per plant. Its whole growth period lasts 65- 100 days. It boasts wide adaptability and can be cultivated wherever summer squash or pumpkins grow well, making it ideal for off- season production.

Compared with traditional vining golden thread gourd: conventional varieties produce vines as long as 3- 4 meters. They have poor fruit- setting capacity and low yield of merely 1000- 1500 kg per mu, coupled with weak stress and disease resistance. Shengza No.1 overcomes these drawbacks. Its yield reaches 4000- 10000 kg per mu. It delivers high productivity with strong stress tolerance and excellent storage performance, and can be preserved at ambient temperature for more than six months, effectively filling market supply gaps for vegetables in off- seasons of winter and spring.

Core Feature: Thread- forming upon Smashing

Its most outstanding innovation: ripe fruits require no steaming, boiling or freezing pre- treatment. Simply smash the fruit, and crystal- clear golden threads around 2 mm in thickness will separate out, hence its nickname "plant jellyfish threads".

Versatile in culinary use for both raw and cooked consumption: suitable for cold salad, stir-frying, deep-frying, soup-making and stuffing preparation. It tastes crisp and refreshing when raw, sweet and mellow after cooking. Furthermore, it can be deep-processed into canned food, pre-prepared convenience food and vegetable health wine, showing promising potential for export-oriented processing.

Nutritional Profile

Per 500 g fresh pulp: protein 3.2 g (fat-free), carbohydrate 13 g, iron 0.8 mg, calcium 107 mg, phosphorus 87 mg, niacin 0.8 mg, thiamine 0.08 mg, riboflavin 0.08 mg, ascorbic acid 20 mg. It contains rare trigonelline and malonic acid rarely seen in ordinary melons, which help regulate human metabolism and deliver weight-management and health-benefiting effects. It is reputed as a “green health vegetable”.

Industrial Application

1. It can be planted in open fields or greenhouses. Its erect vine-free habit simplifies field management and fits large-scale planting bases and family farms.
2. Fresh fruits can be sold directly on market, or stored long-term for off-peak sales.
3. It supports extended deep-processing industrial chains for pre-prepared dishes, canned goods and characteristic health-benefiting alcoholic beverages.
4. Compatible with the **Six-System Ecological Self-circulating Agricultural Model** developed by Sixi Agriculture. It can be cultivated under ecological schemes without chemical fertilizers or synthetic pesticides to produce high-safety golden-thread-gourd produce.

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