



# Pandanus utilis Screw-pine<sup>1</sup>

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#### INTRODUCTION

Creating a striking landscape effect wherever it is used, Screw-Pine has a pyramidal, sometimes irregular, open, but much-branched silhouette, the smooth, stout trunks topped with full, graceful heads of long, thin leaves, three feet long and three inches wide, emerging spirally from stubby branches (Fig. 1). It is not a true pine tree. The blue-green foliage color adds to the striking nature of this exotic tree. The leaves are edged with small red spines and are used to make mats and baskets in the tropics. Branches have prominent leaf scars which encircle the stems. Large brace-roots emerge from the trunk several feet above the ground, helping to support the plant. Screw-Pine is capable of reaching 60 feet in height but is not usually seen over 25 feet in USDA hardiness zone 10 and 11, with a spread of 15 feet. Growth rate is slow to moderate, depending upon fertilization and watering schedules, and Screw-Pine is very popular for use as a specimen or container planting.

### **GENERAL INFORMATION**

Scientific name: Pandanus utilis

**Pronunciation:** pan-DAY-nus YOO-tih-liss

Common name(s): Screw-pine

**Family:** Pandanaceae

**USDA hardiness zones:** 10B through 11 (Fig. 2)

**Origin:** not native to North America **Uses:** container or above-ground planter;

recommended for buffer strips around parking lots or for median strip plantings in the highway; near a deck or patio; reclamation plant; specimen; residential street

tree; no proven urban tolerance

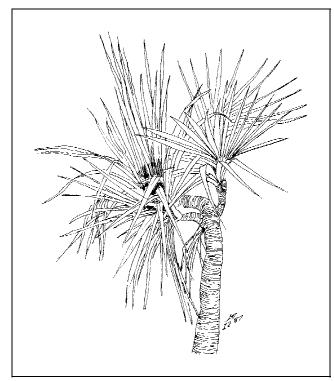


Figure 1. Young Screw-pine.

**Availability:** generally available in many areas within its hardiness range

## **DESCRIPTION**

**Height:** 20 to 30 feet **Spread:** 12 to 20 feet

**Crown uniformity:** symmetrical canopy with a regular (or smooth) outline, and individuals have more

or less identical crown forms

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**Figure 2.** Shaded area represents potential planting range.

Crown shape: pyramidal Crown density: open Growth rate: medium Texture: coarse

## **Foliage**

Leaf arrangement: spiral

Leaf type: simple

Leaf margin: pectinate; spiny

Leaf shape: linear Leaf venation: parallel

Leaf type and persistence: evergreen Leaf blade length: 18 to 36 inches Leaf color: blue or blue-green; green Fall color: no fall color change Fall characteristic: not showy

## **Flower**

Flower color: white

Flower characteristics: pleasant fragrance; inconspicuous and not showy; winter flowering

### **Fruit**

Fruit shape: oval; round Fruit length: 6 to 12 inches Fruit covering: dry or hard Fruit color: orange; yellow

**Fruit characteristics:** attracts squirrels and other mammals; suited for human consumption; fruit, twigs,

or foliage cause significant litter; showy

#### **Trunk and Branches**

**Trunk/bark/branches:** grow mostly upright and will not droop; showy trunk; should be grown with a single leader; no themse (Fig. 2)

leader; no thorns (Fig. 3)

**Pruning requirement:** needs little pruning to develop

a strong structure **Breakage:** resistant

Current year twig color: brown Current year twig thickness: stout

## Culture

**Light requirement:** tree grows in part shade/part sun;

tree grows in full sun

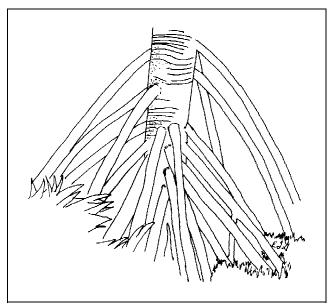


Figure 3. Trunk of Screw-pine.

Soil tolerances: clay; loam; sand; acidic; alkaline;

extended flooding; well-drained **Drought tolerance:** moderate **Aerosol salt tolerance:** high

### Other

Roots: surface roots are usually not a problem Winter interest: no special winter interest Outstanding tree: not particularly outstanding Invasive potential: little, if any, potential at this time Pest resistance: no pests are normally seen on the tree

#### **USE AND MANAGEMENT**

Although the male plants possess conspicuous, fragrant flowers, it is the female plant which is preferred for landscape use because of the large, eight to nine-inch, globular fruits which hang from "cords". The fruits are made up of 100 to 200 tightly compressed drupes, similar to those of a pineapple, and change from green to yellow when ripe. There is only a small amount of edible pulp but the fruits are quite showy.

Screw-Pine produces fruit when grown in full sun but young plants may be kept in the shade. Soil should be well-drained and plants kept well-watered. Screw-Pine may be considered messy due to the constant leaf-drop throughout the year.

Veitch Screw-Pine or Ribbon-Plant (*Pandanus veitchii*) has white-banded, spiny leaves, does not fruit,

and is often used as a pot plant. Sander Screw-Pine (*Pandanus sanderi*) has denser, more tufted foliage with golden yellow bands from center of leaf to margin.

Propagation is by seed (soaked 24-hours before planting), basal sucker division, or large cuttings.

#### **Pests and Diseases**

No pests or diseases are of major concern but occasionally scales.