



BNV

BAMBU NUSA VERDE

Catalog of Plantation Bamboo

Catalog of Bamboo for Industrial Plantations



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Dendrocalamus asper

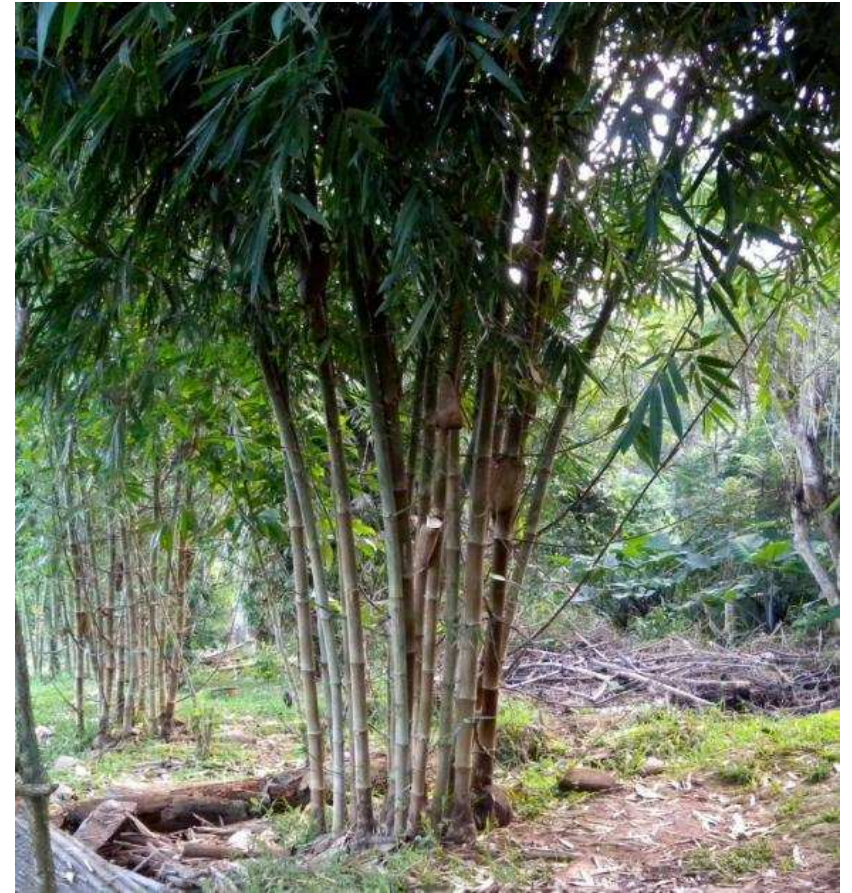
Species	<i>Dendrocalamus asper</i> <i>Giant Bamboo (E)</i>
Local name	B. betung (I), Awi bitung (S), Buluh batung (Batak)
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect pendulous tip / plain green, white or yellow stripes at the base
Height / diameter	20 – 30 m / 8 – 20 cm (at base)
Thickness / Internode	wall 11 – 36 mm / 30 - 50 cm
Leaf length / branch	30 cm / few
Altitude / soil	0 – 1.500 m, any type
Climate / rainfall	Tropical wet till dry / up to 2.000 mm
Mature in / culms Full size	3 – 4 years / 3 – 4 new shoot a year 6 years, 3 m clump contains 60 culms
Usage	Young shoots, construction, ply-bamboo, furniture, water containers, Most promising species for industry
Planting	For industry. 100-400 plants/Ha
Others	Origin Indonesia



John Hardy's "Green School", in Bali is entirely made from B. Petung

Dendrocalamus asper - Thai

Species	<i>Dendrocalamus asper</i> Thai clone Giant Bamboo (E)
Local name	B. betung (I), from Thai origine
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect pendulous tip / plain green to dark brown
Height / diameter	20 – 30 m / 8 – 20 cm (at base)
Thickness / Internode	wall 20 – 36 mm / 30 -50 cm
Leaf length / branch	30 cm / few
Altitude / soil	0 – 1.500 m, any type
Climate / rainfall	Tropical wet till dry / up to 2.000 mm
Mature in / culms	3 – 4 years / 3 – 4 new shoot a year
Full size	6 years, 3 m clump contains 60 culms
Usage	Young shoots, construction, ply-bamboo, furniture, water containers, cooking pots Most promising species for industry,
Planting	For industry. 100-400 plants/ha
Others	Origin Thailand Less thick wall than Indonesian Petung



Dendrocalamus membranaceus

Species	<i>Dendrocalamus membranaceus</i> <i>Bamboo Waya (E)</i>
Local name	Bambu Membra, Waya
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	very straight / green w. white powdery
Height / diameter	20-24m / 6 – 10 cm
Thickness / Internode	wall 6 – 10 mm / 22 - 38 cm
Leaf length / branch	12 - 25 cm / arising from all nodes, upper branches drooping
Altitude / soil	Up to 1.000 m, best 500 – 1.000
Climate / rainfall	15 – 40 degr. / up to 950 mm
Usage	Young shoots, building material, bamboo boards, furniture, handicraft, pulp.
Planting	Suitable for private garden and plantation. 160–400 plants/ha
Others	Origin from Thailand, Myanmar



Gigantochloa atter

Species	<i>Gigantochloa atter</i>
Local name	B. ater (I), Pring legi (J), Awi temen (S), Pereng keles (M), Buluh jawa (East I).
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	tip dense tufted / bluish-green with distinct pale rings, to green blue
Height / diameter	up to 25 m / 5 – 10 cm
Thickness / Internode	wall up to 8 mm / 40 - 50 cm
Leaf length / branch	20 - 44 cm / 2-3 m at ground
Altitude / soil	0 – 1.400 m / fertile and sandy
Climate / rainfall	Tropical wet till dry / up to 2.500 mm
Usage	Young shoots, multipurpose bamboo, building material, furniture, utensils (chopsticks, toothpicks), music instruments
Planting	Suitable for private garden and plantation. 200 – 500 plants/ha
Others	Origin Indonesia



Bambusa balcoa

Species	<i>Bambusa balcoa</i>
Local name	Bambu Balku
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect pendulous tip, silver brown
Height / diameter	17.5 m / 2.5 – 10 cm
Thickness / Internode	up to 2 cm / 20 - 40 cm
Leaf length / branch	6 - 30 cm / several to many
Altitude / soil	0 – 600 m, prefer heavy texture soil
Weather / rainfall	Tropical wet / up to 3.000 mm
Usage	Young shoots, leaves for fodder, building material, mats, baskets, pulp, scaffolding, panels
Planting	Small scale and ornamental. 100 – 400 plants/Ha
Others	Origin India and Bangladesh



Bambusa bambos

Species	<i>Bambusa bambos</i> <i>Spiny or Thorny Bamboo (E)</i>
Local name	Bambu Duri, Pring ori (Javanese)
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	Erect / light green
Height / diameter	up to 30 m / 15 – 18 cm
Thickness / Internode	very thick 2 cm / 20 - 40 cm
Leaf length / branch	6 - 22 cm / spine-like
Altitude / soil	0 – 1.200 m, moist condition
Weather / rainfall	Tropical humid / up to 1.000 mm
Usage	Young shoots, forage, flooring, roofing, scaffolding, pulp & paper, ply-bamboo, ladders, wax sealing (from young shoot), medicine. Natural fence.
Planting	For wind breaks, along rivers. Plantation 160 – 400 plants/Ha For fence 2 – 3 meter
Others	Origin China and Thailand



Bambusa vulgaris vulgaris

Species	<i>Bambusa vulgaris vulgaris</i> (green culm) Common Bamboo (E)
Local name	Bambu Ampel (hijau)
Rhizomes / form	Pachymorph (Sympodial), clumping bamboo / open not closely tufted
Culm / color	Erect zig-zag / green
Height / diameter	10 - 20 m / 4 – 10 cm
Thickness / Internode	7 – 15 mm / 20 - 45 cm
Leaf length / branch	6 - 30 cm / several to many
Altitude / soil	0 – 1.200 m / all kind of soils, even degraded land
Weather / rainfall	Humid till very dry / up to 2.000 mm
Usage	For boat masts, poles, fencing and props. Furniture, pulp, medicine.
Planting	Ornamental, riverbanks, hedges. Plantation 275 – 625 plants/Ha
Others	Origin tropical Asia, most widely cultivated in tropics and subtropics. On of the most vigorous of all bamboos



Bambusa vulgaris vittata

Species	<i>Bambusa vulgaris vittata</i> (yellow culm) Common Bamboo (E)
Local name	Bambu Kuning
Rhizomes / form	Pachymorph (Sympodial), clumping bamboo / open not closely tufted
Culm / color	Erect not straight / yellow with green stripes of different density
Height / diameter	10 - 20 m / 4 – 10 cm
Thickness / Internode	10 – 17 mm / 20 - 45 cm
Leaf length / branch	6 - 30 cm / several to many
Altitude / soil	0 – 1.200 m / all kind of soils
Weather / rainfall	Humid till very dry / up to 2.000 mm
Usage	For boat masts, poles, fencing and props. Furniture, pulp, medicine.
Planting	Ornamental, riverbanks, hedges. Plantation 257 – 625 plants/Ha
Others	Origin tropical Asia, most widely cultivated in tropics and subtropics. Ticker wall diameter than green B.V.



Bambusa oldhamii

Species	<i>Bambusa oldhamii</i>
Local name	
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	Erect
Height / diameter	up to 20 m / 15 – 20 cm
Thickness / Internode	up to 3 cm / 25 - 35 cm
Leaf length / branch	20 - 40 cm / on upper nodes
Altitude / soil	0 – 1.200 m, best 500 – 1.000
Weather / rainfall	Tropical wet till dry / up to 2.000 mm
Usage	Multipurpose bamboo for industry
Planting	Plantation 240 – 500 plants/Ha
Others	Origin China, Taiwan



Dendrocalamus giganteus

Species	<i>Dendrocalamus giganteus</i> Giant Bamboo (E)
Local name	Bambu sembilang (I)
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect arching tip / green to grey
Height / diameter	up to 30 m / 18 - 25 cm
Thickness / Internode	up to 2.5 cm / 25 – 55 cm
Leaf length / branch	20 - 40 cm / dominant and smaller
Altitude / soil	0 – 1.200 m / from fertile till sandy
Weather / rainfall	Humid tropical / 1.200 mm
Usage	Young shoots, construction, scaffolding, rural housing, water pipers, buckets, matting, pulp, bamboo board
Planting	Against erosion, ornamental, plantations for shoots and industrial applications. Plantation 100 – 250 plants/Ha
Others	Origin Myanmar and North Thailand, combined in teak plantation



Grows at average 32 cm a day, in rainy season.

Dendrocalamus latiflorus

Species	<i>Dendrocalamus latiflorus</i> <i>Taiwan Giant Bamboo (E)</i>
Local name	Bambu Taiwan (I) – Bambu Sayur
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect pendulous tip / yellow to brown
Height / diameter	14 - 25 m / 8 - 20 cm
Thickness / Internode	0.5 - 3 cm / 20 – 70 cm
Leaf length / branch	15 - 40 cm / numerous
Altitude / soil	0 – 1.000 m / moist fertile soil
Weather / rainfall	Tempered to tropical / up to 2.000 mm
Usage	Edible shoots , waterpipes, baskets, house construction, pulp,
Planting	Shoot production, ornamental, and for industry. Plantation 155 – 400 plants/Ha
Others	Origin Taiwan, South China



Dendrocalamus asper - black

Species	<i>Dendrocalamus Asper</i> Black <i>Black Giant Bamboo</i> (E)
Local name	B. betung hitam (I), Awi bitung (S), Buluh batung (Batak)
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect pendulous tip / black with green lines
Height / diameter	20 – 30 m / 8 – 20 cm (at base)
Thickness / Internode	wall 11 – 36 mm / 30 -50 cm
Leaf length / branch	30 cm / few
Altitude / soil	0 – 1.500 m, any type
Climate / rainfall	Tropical wet till dry / up to 2.000 mm
Mature in / clumps	3 – 4 years / 3 – 4 new shoot a year
Full size	6 years, 3 m clump contains 60 culms
Usage	Young shoots, construction, ply-bamboo, black furniture, water containers, cooking pots. Most promising species for industry
Planting	For industry. Plantations 100 – 400/Ha
Others	Origin Indonesia. Very much liked for furniture. Delicious shoots.



Dendrocalamus hamiltonii

Species	<i>Dendrocalamus Hamiltonii</i>
Local name	
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect pendulous tip / green (old)
Height / diameter	15 to 25 m / 10 - 19 cm
Thickness / Internode	1-1.5 cm / 30 – 50 cm
Leaf length / branch	15 - 40 cm / in upper portion
Altitude / soil	200 – 1.000 m, / fine texture soil
Weather / rainfall	Sub trop to tropical / 1.000 – 2.000mm
Usage	Shoot widely used as vegetables, construction, handicraft.
Planting	Multi-purpose species for Industry. Plantation 235 – 500 plants/Ha.
Others	Origin Bangladesh, India.



Oxythenanthera abyssinica

Species	<i>Oxythenanthera Abyssinica</i>
Local name	
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	Erect solid or semi sold / bright green
Height / diameter	6 -10 m / 6 - 10 cm
Thickness / Internode	Solid in lower part/ 20 cm
Leaf length / branch	5 - 25 cm / in upper part
Altitude / soil	200 – 800 m / drained and poor soil – semi arid zones, draught resistant
Weather / rainfall	Tropical / up to 1.000 mm
Usage	Pulp, handicraft, wine
Planting	Plantation 300 – 500 plants/Ha
Others	Origin Ethiopia, East Africa



Guadua amplexifolia

Species	<i>Guada amplexifolia</i>
Local name	
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	erect tapering / mid green
Height / diameter	10 - 20 m / 6 - 10 cm
Thickness / Internode	Thick walled or solid / 5 – 20 cm
Leaf length / branch	16 - 24 cm / thorny branches
Altitude / soil	500 – 1.500 m/ well drained alluvial soil
Weather / rainfall	Tropical to subtropical / up to 2.000 mm
Usage	Construction, buildings, handicraft
Planting	Plantation 200 – 500 plants/Ha.
Others	Origin South America



Gigantochloa robusta

Species	<i>Gigantochloa robusta</i> Kurz <i>Gigantochloa eriticillata</i>
Local name	Awi mayan
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	Light green with yellow stripes at lower part.
Height / diameter	20 m / 7-9 cm
Thickness / Internode	18 mm / 40 cm
Leaf length / branch	10-14 cm / branches from 2 m upwards
Altitude / soil	0 -1500m / latosoil
Weather / rainfall	23-32 degr. / 2350-4200mm a year
Usage	Eatable shoots. Waterpipes, floors & walls housing, handicrafts. Pulp & paper.
Planting	Industry, shoots. 150 - 200 plants/ha
Others	Origin Java, Sumatera. Prone to degradation if not treated after harvesting.



Bambusa blumeana

Species	<i>Bambusa blumeana</i> Spiny or Thorny Bamboo (E)
Local name	Bambu Duri, Pring ori (Javanese)
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	Erect, lower aerial roots / green
Height / diameter	up to 25 m / up to 20 cm
Thickness / Internode	Up to 3 cm / 25 - 60 cm
Leaf length / branch	15 cm / spine-like from all nodes
Altitude / soil	0 – 300 m / heavy till marginal soil – except saline. Tolerates flooding.
Weather / rainfall	Tropical humid / up to 1.000 mm
Usage	Young shoots, furniture, flooring, ply-bamboo, chopsticks, pulp & paper, firewood.
Planting	Against erosion, along rivers, as fence. Plantation 160 – 400 plants/Ha
Others	Origin Java, Sumatera. Very useful bamboo for industrial applications Smaller than <i>Bambusa bambos</i> .



Bambusa textilis

Species	<i>Bambusa textilis</i> Weavers bamboo
Local name	Bambu tekstil
Rhizomes	Pachymorph (Sympodial), clumping bamboo
Culm / color	Slightly drooping, internodes green but initially white powdery
Height / diameter	8 -10m / 3-5 cm
Thickness / Internodes	2 – 5 mm / 40 - 70 cm
Leaf length / branch	9-17 cm / many from 2 m above ground
Altitude / soil	0 – 1.000 m, poor and dry soil, suitable for on mountain slopes
Weather / rainfall	till very dry / up to 1.000 mm
Usage	Used for weaving, baskets, mats, rope, hats.
Planting	Potential for plantations. 400 – 1100 plants/ha
Others	Origin from China



PT Bambu Nusa Verde

Bamboos for Plantations & Ornamental Uses

Bamboo for Industrial Plantations

1. *Dendrocalamus asper* – *Bambu petung*
2. *Dendrocalamus asper Thai* – *B. petung Thai*
3. *Dendrocalamus membranaceus* – *B. membra*
4. *Gigantochloa atter* – *B. legi / ater*
5. *Bambusa tuldooides* – *B. blenduk / pagar*
6. *Bambusa balcooa* – *B. balku*
7. *Bambusa bambos* – *B. duri / ori*
8. *Bambusa vulgaris vulgaris green* – *B. ampel Hijau*
9. *Bambusa vulgaris vittata yellow* – *B. ampel Kuning*
10. *Bambusa oldhamii* – *B. oldhami*
11. *Phyllostachys aurea* – *B. uncue / pring uncue*
12. *Dendrocalamus giganteus* – *B. sembilang*
13. *Dendrocalamus latiflorus* – *B. taiwan atau sayur*
14. *Dendrocalamus asper black* – *B. petung hitam*
15. *Dendrocalamus hamiltonii* – *B. hamiltoni*
16. *Oxytenathera abyssinica* – *B. oxytenanthera*
17. *Guadua amplexifolia* – *Guadua*
18. *Gigantochloa robusta* – *B. mayan*
19. *Bambusa blumeana* – *B. duri / ori*
20. *Bambus textilis* – *B. tekstil*

Ornamental Bamboo Varieties

1. *Gigantochloa atter* – *B. legi / ater*
2. *Bambusa tuldooides* – *B. blenduk atau pagar*
3. *Bambusa balcooa* – *B. balku*
4. *Bambusa vulgaris vulgaris green* – *B. ampel Hijau*
5. *Bambusa vulgaris vittata yellow* – *B. ampel Kuning*
6. *Bambusa vulgaris waminii/budha* – *B. buddah*
7. *Phyllostachys aurea* – *B. uncue/ pring uncue*
8. *Dendrocalamus giganteus* – *B. sembilang*
9. *Dendrocalamus asper black* – *B. petung hitam*
10. *Bambusa glaucophylla* – *B. putih*
11. *Bambusa multiplex* – *B. china / pagar*
12. *Bambusa lako* – *B. lako*



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