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creating excellence

Arunda® System

The Arunda® system

THE PRINCIPLE

Arunda® is a system for manually making dovetailed wood-to-wood joints to assemble timber frame structures.

All you need is a pair of Arunda® jigs (one for the tenon and the other for the mortise), a powerful Mafell router LO 65 Ec equipped with the special Arunda® cutter and some accessories.

There are several models available but only one size will be selected to fit your most commonly used timber widths. Keep in mind: The bigger the joint, the greater and better its resistance!

THE JIG MODELS

Chose your jig according to your current timber widths. This way, you will get joints with optimal resistance.

Class “B” with fixed 90° fences
For all current right-angled (or skewed) joints

Class “N” with tilting fences(+50°/90°/-50°)
For current or special joints, skewed or right-angled (90°)

N0. 160 (B)
Tenon on timber width:
150-300 mm (6” - 12”)
Timber height: 90-400 mm (3 ½” - 16”)
Timber section: min. 150x90 mm (6” x 3 ½”)
max. 300x400 mm (12” x 16”)

N0. 120 (B/N)
Tenon on timber width:
120-200 mm (4 ¾”- 8”)
Timber height: 90-380 mm (3 ½”-15”)
Timber section: min. 120x90 mm (4 ¾” x 3½”)
max. 200x380 mm (8” x 15”)

N0. 80 (B/N)
Tenon on timber width:
80-140 mm (3 ⅛”-5 ½”)
Timber height: 90-330 mm (3 ½”-13”)
Timber section: min. 80x90 (3 ⅛” x 3 ½”)
max. 140x330 mm (5 ½” x 13”)

N0. 50 (B/N)
Tenon on timber width:
(40)45-100 mm (1 ¾”-4”)
Timber height: 90-330 mm (3 ½”-13”)
Timber section: min. 40x90 (1 ¾” x 3 ½”)
max. 100x330 mm (4” x 13”)




THE ADVANTAGES

Speed.
8 to 18 mortise/tenon joints per hour.

Ease of use.
Push-down dovetail assembly is very fast and easy. No need to pull apart the load-bearing beams to insert tenons.

Precision.
Double-cone self-tightening joints.

Flexibility.
Perpendicular or angled joints on floor joists or rafter (roof system)

Versatility.
Usable on a wide range of timber widths from 40 to 300 mm (1¾" to 12"), for new construction as well as for restoration work.

Time-saving.
Identical router bit setting to cut both mortise and tenon.

Quality.
Precise, reliable wood-on-wood joints.

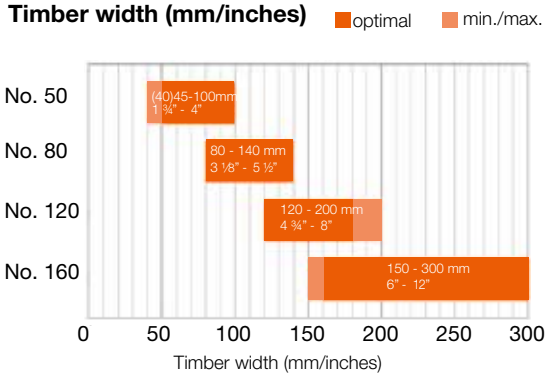
Strength.
Workloads of up to 2'100 kg (4'620 lbs) per joint.

Mobility.
Just as easy to use in the work-shop as on the job site.

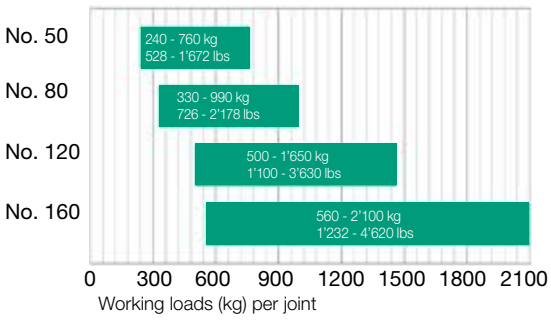
Economy.
A low-cost replacement for metal connectors. You buy Arunda only once.

TIMBER WIDTHS AND WORKING LOADS TABLES

Timber width (mm/inches)



Working loads (*kg/lbs*)

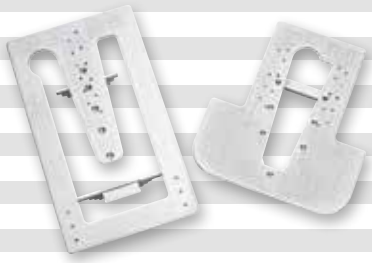


SYSTEM COMPARISON

between connection with:	Metal connector	Arunda® System
Milling the joist	—	yes
Milling the rafter	yes	yes
Positioning the metal connector (by measuring or using the guide)	yes	—
Screwing (16 to 46 screws)	yes	—
Number of joints per hour	5 to 8 units/hour	8 to 18 units/hour
Speed + Ease of assembly: Scale from 1 (bad) to 10 (excellent)	6-7	9-10

The Arunda® system

Ref. No.	Arunda Maxi
91A701	Arunda 50B Maxi
91A702	Arunda 80B Maxi
91A703	Arunda 120B Maxi
91A704	Arunda 160B Maxi
91A705	Arunda 60-1B Maxi
91A706	Arunda 50N Maxi
91A707	Arunda 80N Maxi
91A708	Arunda 120N Maxi



Ref. No.	Arunda Midi
91A711	Arunda 50B Midi
91A712	Arunda 80B Midi
91A713	Arunda 120B Midi
91A714	Arunda 160B Midi
91A715	Arunda 60-1B Midi
91A716	Arunda 50N Midi
91A717	Arunda 80N Midi
91A718	Arunda 120N Midi

Delivery scope
1 pair of jigs
1 dovetail router bit
1 guide ring
1 expansion plate
1 positioning gauge
2 pairs of blades
1 wooden box

Delivery scope
1 pair of jigs
1 wooden box

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