

FLAT DIEBOARDS



Freeman Manufacturing & Supply Company has the most comprehensive selection of flat dieboards in the industry.

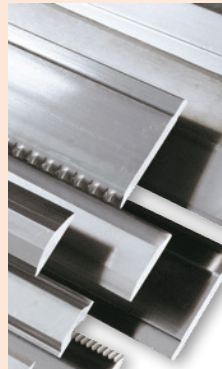
Choose from Birch, UV Coated Birch, 7-ply Maple, or High-Strength Composites to suit any diecutting application.

Freeman offers the largest stocked inventory of any supplier, ready for same-day shipping.



Did you know Freeman is your “One-Stop Shop” for rule, die supplies, and hardware?

Check out the other sections to see all of our complementary products.



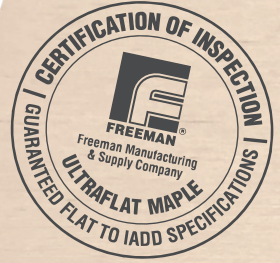
MAPLE DIEBOARDS

Freeman UltraFlat Maple

The industry's flattest Maple Dieboard is guaranteed flat to IADD specifications and certified stamped flat. This board was developed in response to diemakers' and converters' requests for a flatter maple dieboard.

UV Coated Maple offers all the strength and reknifing capabilities of UltraFlat Maple with the added benefit of stability. The moisture-inhibiting UV Coating helps the cutting dies remain matched to their steel counterplates.

- ▶ Thicknesses from 1/4" to 1"
- ▶ 7-ply construction
- ▶ Available with No Coating or UV Coating
- ▶ Guaranteed flat to IADD specs
- ▶ Stands up to long run and heavy duty applications

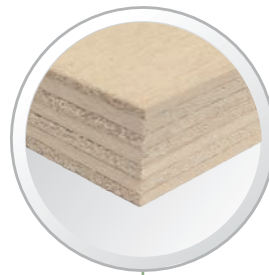


Marco Pure Maple

Marco Pure Maple is the only flat dieboard in the industry using 100% maple. This 7-ply board is extremely flat and is manufactured with a low moisture content for optimum stability and reknifability.

UV Coated Maple offers all the strength and reknifing capabilities of Marco Pure Maple with the added benefit of stability. The moisture-inhibiting UV Coating helps the cutting dies remain matched to their steel counterplates.

- ▶ Thicknesses from 1/2" to 3/4"
- ▶ 100% maple
- ▶ Available with No Coating or UV Coating



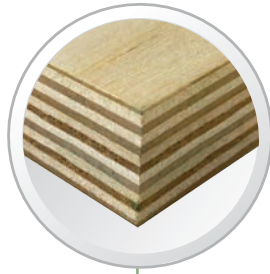
Marco MV Maple

The proven 7-ply construction of Marco MV Maple Dieboard results in a very flat and easily reknifable board. The low moisture content provides optimum stability and its appealing price point makes this board an ideal choice for any application.

- ▶ Thicknesses from 1/4" to 1"
- ▶ Appealing price point
- ▶ No Coating



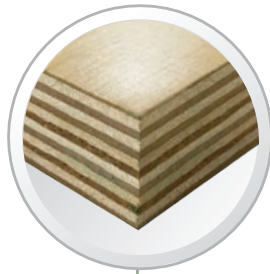
PREMIUM BIRCH DIEBOARDS



LaserPLY™ Advantage Premium Birch

LaserPLY Advantage is a very flat dieboard constructed of a superior grade of birch veneer. It features the industry's tightest thickness tolerance of +/-0.2mm.

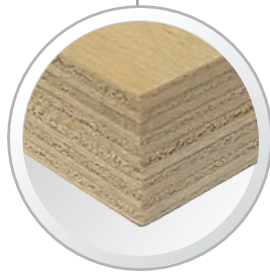
- ▶ Thicknesses from 1/4" to 3/4"
- ▶ Tightest thickness tolerances at +/- 0.2mm
- ▶ Virtually void-free cores for laser consistency
- ▶ Superior packaging: Integral runners prevent fork damage to bottom sheets



UV Coated LaserPLY™ Advantage Premium Birch

UV Coated LaserPLY Advantage is ideal for tooling matched with steel counterplates. The clear UV Coating seals dieboard surfaces to mitigate moisture migration out of the panel. This board offers the ultimate in flatness and stability.

- ▶ Tightest thickness tolerances at +/-0.2mm
- ▶ Virtually void-free cores for laser consistency
- ▶ UV Coating stabilizes cutting dies matched with steel counterplates
- ▶ Excellent for lower stripping boards



Freeman Premium Birch

Freeman's Birch is imported from the finest mills to offer a true dieboard grade of laser-quality birch. From cutting dies to stripping and blanking tools, this board is ready for a variety of applications at a great value.

- ▶ Thicknesses from 3mm to 1"
- ▶ Widest variety of sheet lengths up to 60" x 96"
- ▶ Best value in Birch Dieboard
- ▶ Uniform veneer construction for laser consistency



UV Coated Freeman Premium Birch

Freeman's UV Coated Premium Birch is ideal for tooling matched with steel counterplates. Two coats of UV polymer seal out moisture and stabilize the panel. It provides a completely sealed, smooth hard surface.

- ▶ Ideal for tooling matched with steel counterplates
- ▶ Two coats of UV polymer stabilize the cutting die
- ▶ Widest variety of sheet lengths up to 60" x 96"
- ▶ Smooth finish great for lower stripping boards

COMPOSITE DIEBOARDS

ProForm™ Composite Diebase

ProForm is an epoxy/paper composite diebase developed to offer diemakers superior stability, strength, flatness, and thickness tolerance. It is stronger, flatter and more stable than plywood.

It is highly moisture resistant, as well as heat resistant for thermal die applications. ProForm is CNC machinable and is easily processed on a laser. It offers very consistent kerf across the entire sheet when compared to other epoxy composites on the market.

- ▶ Thicknesses from 1/16" to 1"
- ▶ Special thicknesses available upon request
- ▶ Consistent laser cutting across the sheet
- ▶ Temperature tested to 400°F – great for thermal dies diecutting plastics
- ▶ Ideal for multiple reknifing and extremely long run tooling
- ▶ Suitable for wet environments

TruForm™ Composite Diebase

Freeman's new TruForm is constructed of polyester resin and cellulose fibre. It was developed to offer diemakers and converters a more laser-friendly alternative to the commonly used gray composite board.

TruForm laser cuts with great consistency, has excellent bridge strength, and a much better grab on the steel rule. Ideal for multiple re-knives, thermal dies, steel counter dies, and all your toughest diecutting applications.

- ▶ Superior rule holding ability
- ▶ Economical alternative to Epoxy Composites
- ▶ Laser cuts extremely well
- ▶ Temperature tested to 400°F – great for thermal dies diecutting plastics
- ▶ Sealed surface with matte gray finish easily accepts die ejection adhesives
- ▶ Not suitable for wet environments

Freeman Lightweight Composite Diebase

Freeman's laser-compatible components are used to create a 3-ply lightweight completely stable steel rule die. Sold separately, the sheets of Freeman Laser-G10 and RenShape 31 lb. foam are laser compatible for fast easy assembly.

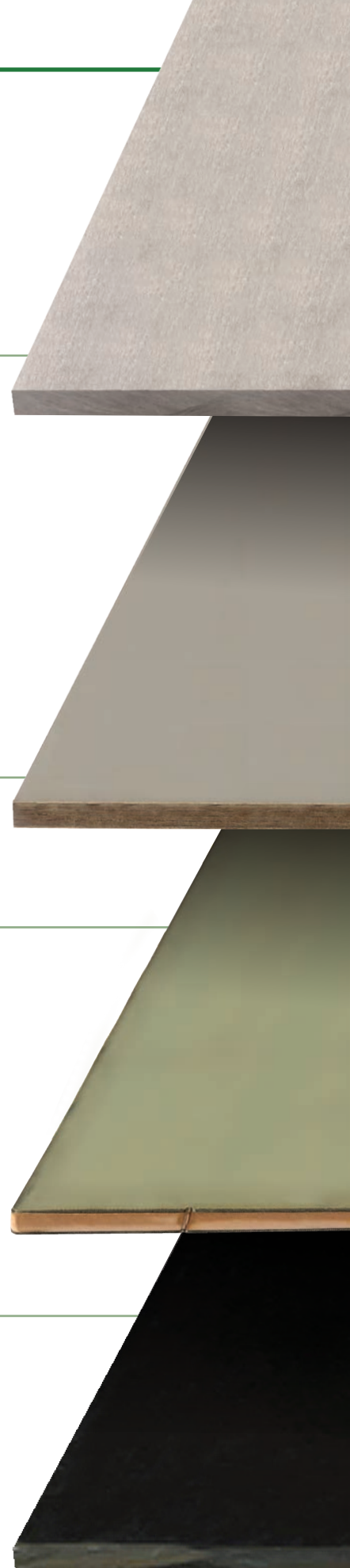
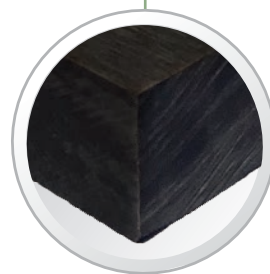
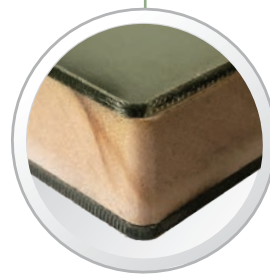
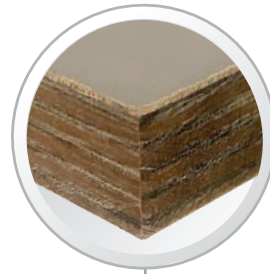
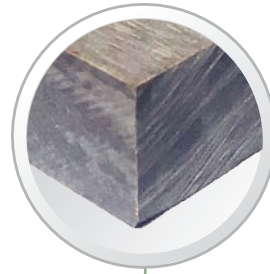
The finished die is completely stable and very lightweight – a highly desirable trait among Bobst press operators and safety-minded managers. Pair it with our stainless steel thin plates for an unbeatable combination.

- ▶ **SKU #085872:** 1/4" thick x 48" x 96" HD Urethane Foam
- ▶ **SKU #075864S:** 1/2" thick x 48" x 96" HD Urethane Foam
- ▶ **SKU #081984:** 0.062" thick x 48" x 72" Laser G10 Laminate

Marco Black Board

Marco Black Board is a phenolic/paper solid composite and is machinable and stable. It is not laser-friendly, but it is an excellent material for use as mounting blocks underneath embossing and debossing.

- ▶ **Thickness:** 5/8"
- ▶ **Width:** 48"
- ▶ **Length:** 72"
- ▶ **Other Thicknesses Available**





ROTARY DIEBOARDS

➔ *Freeman Manufacturing & Supply Co. stocks over 100 sizes of rotary dieboard in a multitude of diameters. Choose from three different high-quality mills, all with the tightest ID tolerances.*

Freeman also offers the largest selection of veneer species for your most demanding applications – Hard Maple, 100% Beech, Red Maple, and XP HDO. Most boards are in stock and ready for same-day shipping.



Did you know Freeman is your “One-Stop Shop” for rule, die supplies, and hardware?

Check out the other sections to see all of our complementary products.



Marco Premium Rotary

Marco Premium Rotary is the only rotary in North America constructed of 100% Maple veneers throughout! This proven construction provides you with a smooth Hard Maple face, increased bridge strength, and the toughest dieboard for your most demanding diecutting applications. Each board is hand-inspected for ID tolerance and guaranteed to IADD specifications.

- ▶ Diameters from 6½" to 38"
- ▶ Lengths from 40" to 120"
- ▶ Thicknesses of ½" or ⅝"
- ▶ Available in C-Max Long Wrap

Freeman Maple Rotary 2.0

Freeman Maple Rotary Dieboard 2.0 is a strong and stable rotary dieboard. It is constructed of Maple faces, with maple or other hardwood inner plies. It offers reliable IDs and consistent laser cutting. Recent improvements at the mill have further stabilized the IDs of this proven dieboard.

- ▶ Diameters from 6⅞" to 26"
- ▶ Lengths from 41" to 120"
- ▶ Thicknesses of ½" or ⅝"
- ▶ Available in Long Wrap

Penta Box Prime™ Beech Rotary

Imported Penta Box Prime features a unique 11-Ply 100% European Beech construction. This superior dieboard is designed for long-run and heavy-test board applications. It is also renowned for stability and ID tolerance. Freeman is the exclusive distributor for the USA.

- ▶ Diameters from 10⅛" to 29¾"
- ▶ Lengths from 51" to 120"
- ▶ Designed for long-run tooling
- ▶ 11-Ply 100% Beech Construction
- ▶ Freeman exclusive

Freeman XP Rotary



THE HDO OVERLAY CONTAINS
27% RECYCLED MATERIAL!

Freeman XP Rotary Dieboard is constructed utilizing a high density overlay face and back. The HDO faces provide a surface layer that improves dimensional stability and is 35-50% more dense than hardwood veneer. The Maple and other hardwood inner plies add strength while the smooth surface is helpful on Serrapid dies. It is priced similar to wood veneer rotary dieboards for better performance at a great value.

- ▶ Diameters of 7", 10⅛", 14⅜", 19⅜"
- ▶ Lengths from 41" to 120"
- ▶ Available in Long Wrap
- ▶ Excellent for Serrapid Rapid Mount Systems
- ▶ HDO provides additional stability and uniform appearance

