|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tool/Library** | **Key Features** | **Angular Integration** | **Performance** | **Support & Maintenance** | **Security** | **License/Cost** | **Final Recommendation** |
| **AG Grid** | Virtualization, infinite scroll, server-side row model, grouping, pivoting, inline editing, column freeze, export (CSV/Excel/PDF). | Strong Angular wrapper (ag-grid-angular), well-documented, supports Angular CLI. | Excellent, scales to millions of rows, advanced caching & server-side handling. | Very active repo, frequent updates, commercial enterprise support available. | Secure data-binding via Angular; enterprise patches provided for security issues. | Community edition (free, MIT) + Enterprise ($1k+/dev for advanced features). | Great choice for enterprise-scale apps needing BI-grade tables with very large datasets. |
| **Kendo UI**  **for Angular (Telerik/Progress)** | Virtual scroll, server-side paging, inline editing, aggregates, column locking, Excel/PDF export. | 100% Angular-native components (no wrappers), seamless with Angular forms and RxJS. | High performance with server-side ops + virtualization. | Commercial-grade vendor support, frequent releases, SLA-backed. | Vendor actively manages patches/security, strong enterprise-grade compliance. | Paid commercial license (per developer). | Best for enterprises needing Angular-native grid + SLA support with predictable vendor backing. |
| **PrimeNG** | Virtual scroll, lazy loading, filtering, multi-sort, grouping, editable cells, column resizing, CSV/Excel export. | Angular-native, large ecosystem (works with PrimeFlex, PrimeIcons, PrimeBlocks). | Good for large datasets (virtual scroll/lazy loading), but not as optimized as AG Grid or Kendo for extreme scale. | Large open-source community, regular updates, optional PrimeNG PRO support. | Standard Angular security practices; enterprise support if using PRO. | Free (MIT) + optional paid PRO subscription. | Best OSS-first solution with rich features; flexible balance of free + optional enterprise-grade support. |
| **Angular Material + CDK Table** | Lightweight mat-table with CDK virtual scroll, sorting, filtering, accessibility. Extendable with CDK for custom enterprise needs. | First-party Angular project, deeply aligned with Angular ecosystem. | Solid with CDK virtual scroll; requires manual implementation for server-side paging/grouping. | Maintained by Angular team, large community, excellent docs/tutorials. | Very strong, follows Angular’s strict security/sanitization policies. | Free (MIT). | Great for teams who want official Angular components and accessibility, but are ready to build advanced features themselves. |
| **DevExtreme DataGrid (DevExpress)** | Paging, virtual scroll, grouping, inline editing, export to Excel/PDF, responsive design. | Official Angular integration, detailed demos, works well with Angular CLI. | Strong with virtualization + server-side handling. | Backed by DevExpress vendor, frequent updates, forums, ticket-based support. | Vendor ensures enterprise-grade security, patches for vulnerabilities. | Paid commercial license. | Solid commercial alternative, especially if your enterprise already uses DevExpress tools. |

**Ordered by Latest Release**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rank** | **Library** | **Latest Version** | **Release Date** |
| 1 | **AG Grid** | v34.1.2 | August 21, 2025 |
| 2 | **PrimeNG** | v20.0.1 | July 28, 2025 (npm publish 2 days ago) |
| 3 | **Kendo UI for Angular** | v19.1.1 | June 10, 2025 |
| 4 | **DevExtreme DataGrid** | v25.1 | June 2025 (v25.2 roadmap later in 2025) |
| 5 | **Angular Material + CDK** | v19.1.1 | January 22, 2025 |

**Order By Release Frequency**

**1. AG Grid — ~15 releases in 2023**

* In 2023 alone, AG Grid shipped approximately **15 releases**.

### ****2. Kendo UI for Angular****

* on July 2, 2025, and prior major versions released roughly quarterly (v19.1 in June 2025, v19.0 late May)
* That amounts to around **4 major releases per year**, plus smaller patches. This puts it likely second in release frequency.

### ****3. Angular Material / CDK****

* Angular Material v19.1.1 was released January 22, 2025.
* v19.0.0 was released November 2024, and v18.0.0 in May 2024.
* That suggests around **2 major releases per year**, possibly plus a couple of minor patches. This is moderate frequency.

### ****4. PrimeNG****

* Examples:
  + PrimeNG 12.1.0 — August 2021
  + Major updates like v16 — June 2023
  + Discussion of v18 beta — September 2024
* That's roughly **1–2 significant releases per year**, with some years seeing more. Generally less frequent than AG Grid or Kendo UI.

### ****5. DevExtreme DataGrid****

* Releases seem to occur **once per year**, with substantial upgrades — fewer overall than others.

**Capacity of Each Tool**

|  |  |  |
| --- | --- | --- |
| **Rows** | **Library** | **Coloumns** |
| 1M+ | **AG Grid** | 500+ |
| 100k+ | **PrimeNG** | 200+ |
| 500k+ | **Kendo UI for Angular** | 200 |
| 500k+ | **DevExtreme DataGrid** | 300 |
| 50K | **Angular Material + CDK** | 100 |

|  |  |  |
| --- | --- | --- |
| **Total Files** | **Library** | **Unpaked Size** |
| 21 | **AG Grid** | 1.05 MB |
| 507 | **PrimeNG** | 10.6 MB |
| 132 | **Kendo UI for Angular** | 259 kB |
| 3738 | **DevExtreme DataGrid** | 62.8 MB |
| 403 | **Angular Material + CDK** | 4.82 MB |

**Package’s size**

## **Final Recommendation**

### Option 1: ****AG Grid (Enterprise)****

* Best choice if **budget allows**.
* Rich **enterprise-level features** (pivoting, grouping, server-side row model, Excel-like editing, advanced exports).
* Handles **large datasets efficiently** with virtualization & server-side operations.
* Backed by **strong commercial support** and a huge community.
* **Cost**: Requires an enterprise license for full features.

### Option 2: ****Angular Material + CDK****

* Best choice if **budget is limited** or cost is a deciding factor.
* Fully **open-source (MIT license)** and officially maintained by the **Angular team**.
* Provides **strong Angular integration, accessibility, and security**.
* Flexible via **CDK building blocks** (virtual scroll, drag-drop, overlays, etc.).
* Missing some advanced grid features (pivoting, grouping, advanced Excel exports), so may require **custom development effort** to match enterprise grids.

### Decision Rule

* If your enterprise project requires **advanced analytics-style features** (pivot tables, complex grouping, custom cell renderers) and **budget is not a problem → AG Grid**.
* If your project needs **core table functionality, strong Angular alignment, and cost savings → Angular Material/CDK**.