Angular grid libraries

1. Ag-Grid

Ag-Grid is an Enterprise Grade JavaScript Data Grid. It supports major JavaScript frameworks: Angular 1, Angular2, Aurelia, React, VueJs, Web Components. The purpose of ag-Grid is to provide a data grid that enterprise software can use for building applications such as reporting and data analytics, business workflow and data entry.

ag-Grid has a column definition field; This comes along with sorting, filtering, pinning and -most importantly — grouping, aggregation, and the ability to have as many rows as needed

> *"ag-Grid gives the foundations to make everything you want to make, and that is a winner for me."*

https://medium.com/ag-grid/from-hater-to-fan-how-i-fell-in-love-with-ag-grid-3cbc5976d5e3

Pinning columns options with ag grid

- Both left and right sides
- Pinning from a column menu
- Pinning by dragging
- Initial pinning
- Extra pinned columns

Pricing: Free however ag-Grid Enterprise requires a license.

	both left and right sides	pinning from a column menu	pinning by dragging	initial pinning not required	extra pinned columns
ag-Grid	✔	✔	✔	✔	✔
IgniteUI	✘	✔	✘	✔	✔
KendoUI	✘	✔	✔	✘	✔
DevExtreme	✔	✔	✘	✔	✔

Advantages:

- No dependencies
- Enterprise level scale – The authors of ag-Grid come with years of delivering reporting and data warehousing solutions to investment banks and telecommunications companies. Can deliver enterprise level applications.
- ag-Grid integrates with frameworks such as Angular and React, allowing you to select from any of these frameworks inside the grid while staying agnostic.
- Free

Demo of ag-Grid: https://www.ag-grid.com/example.php

2. IgniteUI

Ignite UI is a complete library of user interface (UI) components for building data-rich and responsive web apps, including 100s of data charts, grids, and components for Angular, ASP.NET (Core & MVC), Blazor, jQuery, React and Web Components.

Pinning columns options with Ignite UI.
- Pinning from a column menu
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Advantages of Ignite (from their website):
1. Easy to use Angular components: designed to have an easy to use API supporting Angular component conventions
2. Speed: Ignite UI for Angular is designed mobile-first, to be fully responsive, and require a smaller memory space. Create applications with huge data handling requirements.
3. Many Angular components: the Angular Data Grid enables you to quickly plug your Angular models. The Data Grid also includes popular features like filtering, sorting, paging, hiding, templates, movable columns

Pricing
- ✓ Free Trial Available?   Yes
- ✗ Free or Freemium Version Available?   No
- ✗ Premium Consulting/Integration Services Available?   No
- ✗ Entry-level set up fee?   No

3. Angular UI Grid

UI-Grid 3.0 (formerly ng-grid) is a 100% Angular grid written with no dependencies other than AngularJS. It is designed around a core grid module and features are layered as Angular modules and Directives. This keeps the core; small and focused, while executing very complex features only when you need them

Standard Features
- Sorting
- Filtering
- User interaction
- e2e testing integration

Advanced Features
- Virtualization
- Column pinning
- Grouping
- Edit in place
- Expandable rows
- Internationalisation

Pricing – free licensing

4. ngx-datatable

Ngx-datatable is an Angular component for presenting large and complex data. It has all the features you would expect from any other table but in a light package with no external dependencies. The table was designed to be extremely flexible and light; it doesn't make any assumptions about your data or how you: filter, sort, or page it.

It was built for modern browsers using TypeScript, CSS3 and HTML5 and Angular. ngx-datatable is also a Swimlane open-source project.

Features:

- Handle large data sets (Virtual DOM)
- Expressive Header and Cell Templates
- Horizontal & Vertical Scrolling
- Column Reordering & Resizing
- Client/Server-side Pagination & Sorting
- Intelligent Column Width Algorithms (Force-fill & Flex-grow)
- Integrated Pager
- Cell & Row Selection (Single, Multi, Keyboard, Checkbox)
- Fixed AND Fluid height
- Left and Right Column Pinning
- Row Detail View
- Decoupled theme'ing with included Google Material theme
- Light codebase / No external dependencies
- AoT Compilation Support
- Universal Support

Comments/ Final thoughts:

- ngx-datatable doesn't seem very popular
- Very few websites and articles on it
- On stackoverflow.com some developers seemed to be having trouble with it

Demo of ngx-datatable: https://swimlane.github.io/ngx-datatable/

5. Flexgrid

FlexGrid aims to provide a grid-like component for applications, using flexbox* to lay equal-width items in a row, and wrapping as needed to form a grid. It also supports specifying row or column gaps that only appear between items and can adapt columns or gaps responsively to different screen widths.

*Flexbox is a one-dimensional layout method for laying out items in rows or columns. Items flex to fill additional space and shrink to fit into smaller spaces.
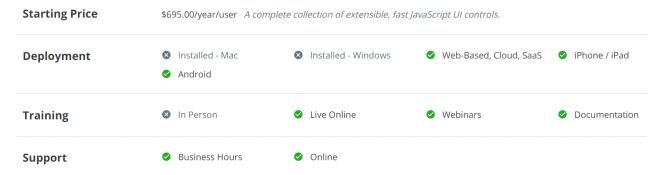
Key features of flexgrid:

- Cell freezing – The FlexGrid allows you to freeze rows and columns so they remain in view as the user scrolls the grid. Frozen cells can be edited and selected as regular cells, like in Excel.
- Enhanced Cell Editing – FlexGrid has built-in support for fast, in-cell editing like you find in Excel. Users can start editing by typing into any cell.
- Cell templates – Cell templates are a way to declare reusable templates for different types of cells. Cell templates support any valid Angular markup, including binding expressions, html, and other components. Cell templates include header cells, cells in edit mode, cells in normal mode, etc.
- TypeScript – FlexGrid is written in TypeScript

Advantages:

- Small – File size is very small (~25K Gzipped)
- Fast – Has zero dependencies on other libraries. FlexGrid virtualises its DOM and only renders the cells needed to fill the viewport. This ensures that the grid can bind to millions of records in under a second.
- Familiarity – Rather than inventing their own behaviours, FlexGrid mimics Excel. This results in end users immediately feeling comfortable using it.

Pricing

Starting Price	$695.00/year/user *A complete collection of extensible, fast JavaScript UI controls.*			
Deployment	⊗ Installed - Mac ✓ Android	⊗ Installed - Windows	✓ Web-Based, Cloud, SaaS	✓ iPhone / iPad
Training	⊗ In Person	✓ Live Online	✓ Webinars	✓ Documentation
Support	✓ Business Hours	✓ Online		

Demo of FlexGrid: https://demos.wijmo.com/5/angular2/flexgridintro/flexgridintro/

Recommendations:

- ➢ Ag-Grid – works well with angular, great features, possibly free, enterprise scale, widely used
- ➢ Flexgrid – fast, great features, also works well with angular, familiar (Excel) layout