

# MACTON® Turntable Divisible Auditoriums

## CONSTRUCTION COST STUDY - Kentlake High School Kent, WA

The auditorium is divisible into three instructional areas by the use of revolving turntables.

**BASIS FOR THIS COST COMPARISON STUDY** – This data was taken from a study conducted by Burr Lawrence Rising & Bates Architects, P.S. on the 2 TDA's proposed for the 600-seat auditorium at Kentlake High School located in Kent, Washington.

**OVERALL CONCLUSION OF STUDY** – The study concluded that the installation of the TDAs at this school resulted in a 6.3% cost reduction in overall construction costs, as a result of the elimination of duplicative auditorium and classroom space. The TDA project at this school is fairly typical, but your actual cost savings may be higher or lower than these amounts, depending on the specifics of your project.

### COST SCENARIO 1

Fixed Seat Auditorium without TDA's Installed

Creates 600-seat auditorium and two additional 125-seat lecture areas

Total Square Footage Required for auditorium and two lecture areas: **13,400 SQ. FT.**

Cost for Basic Auditorium: 10,400 sq. ft. x \$165/sq. ft. = \$1,716,000

Cost for 2 Lecture Halls: (2) x 1,500 sq. ft. x \$150/sq. ft. = \$450,000

**Total Cost: 10,900 sq. ft. x \$187/sq. ft. = \$2,166,000**

Specific Results of this Scenario:

- Lower initial cost per square foot due to there being no TDA's installed, but higher overall square footage required, resulting in higher overall construction costs
- Total additional cost to be incurred of \$127,700 (6.3% higher than TDA option)
- No flexibility in changing the configuration of available space to meet needs
- Increases the footprint of building on site (2,500 S.F. of added space used here)
- Longer inter-classroom links and walking time between classes
- Higher recurring HVAC operating expenses due to extra space required

### COST SCENARIO 2

Auditorium with 2 TDAs Installed

Creates (1) 600-seat auditorium and (2) 125-seat lecture areas created by TDA's

Total Square Footage Required: **10,900 SQ. FT.**

**Total Cost: 10,900 sq. ft. x \$187/sq. ft. = \$2,038,300**

Specific Results of this Scenario:

- Higher initial cost per square foot due to TDA's being installed, but less overall square footage required, resulting in less overall construction costs
- Total cost to be incurred is \$127,700 less than the non-TDA option
- Main auditorium adaptable to either 600, 475 or 350 seat capacity
- 3 instructional areas created, consisting of 350 seats, 125 seats and 125 seats
- Small fixed lecture area also created, suitable for small groups of 15-20
- Conversion can take place between periods (2-3 minute push-button operation)
- Smaller footprint for this facility (provides more fields, parking or other school space)
- Lower recurring HVAC operating expenses due to elimination of extra space

To learn how you can integrate a TDA into your next educational facility, please email us at: [TDA@macton.com](mailto:TDA@macton.com), call us at **800-334-TURN** or visit [www.macton.com/tda](http://www.macton.com/tda).



Moving the world around us™

The Macton Corporation  
116 Willenbrock Road  
Oxford, CT 06478

[www.macton.com](http://www.macton.com) | 800-334-TURN