| FEATURE | SA PROFESSIONAL | SA ULTIMATE | SA MACHINE |
|--|--------------------|----------------|---------------|
| Measurement: | | | |
| Traceability | ✓ | ✓ | ✓ |
| Simultaneous Instrument Interfacing | \checkmark | \checkmark | \checkmark |
| Interfaces with over 120 Portable Metrology Instruments | \checkmark | \checkmark | \checkmark |
| Alignment: | | | |
| Best Fit | \checkmark | \checkmark | \checkmark |
| Feature Based | \checkmark | \checkmark | \checkmark |
| Points to Surfaces | \checkmark | \checkmark | \checkmark |
| Standard Instrument Network Bundle | \checkmark | \checkmark | \checkmark |
| Relationship Fitting | | \checkmark | \checkmark |
| Advanced Network Optimization (USMN) | | \checkmark | \checkmark |
| Inspection: | | | |
| Geometric Dimensioning & Tolerancing (GD&T) | \checkmark | \checkmark | \checkmark |
| Geometry Inspection | \checkmark | \checkmark | \checkmark |
| Build: | | | |
| Relationships | ✓ | √ | ✓ |
| Watch Windows | \checkmark | \checkmark | ✓ |
| Transformation Tracking & Guiding | | ✓ | \checkmark |
| Evaluation & Analysis: | J | | |
| Queries | ✓ | ✓ | ✓ |
| Spatial Transformations | ✓ | ✓ | ✓ |
| Robust Fit Algorithms (NIST & PTB certified) | ✓ | ✓ | \checkmark |
| Measurement Uncertainty Analysis | ✓ | \checkmark | ✓ |
| Relationship Optimization (multiple moving objects) | | ✓ | ✓ |
| Reverse Engineering | | \checkmark | ✓ |
| CAD Interface: | | | |
| Standard CAD Exchange (IGES, STEP, etc.) | | | 1 |
| - | | | |
| Native CAD Access (CATIA, ProE, NX, etc.) Automation: | • | • | • |
| | ✓ | | ✓ |
| Automatic Measurement | ¥ | • • | √ |
| Measurement Plan Scripting | | ✓ | v |
| Software Development Kit (SDK) | | v | v |
| SA Reporting: | ✓ | | ✓ |
| Standard Outputs (Excel, Word, PDF, Text) | √ | ✓ | |
| Graphical Callout Annotations | ✓ ✓ | ✓ | ✓ |
| Quick Reports | | | ∕ |
| Drag & Drop Reporting | ✓ | <u>√</u> √ | ✓ ✓ |
| Database Output (ODBC) | | ✓ | √ |
| Pipe Fitting: | | | |
| Pipe Cut Optimization | | \checkmark | ✓ |
| Robotics: | | | |
| Kinematic Modeling | | | ∕ |
| Kinematic Calibration | | | ✓ |
| Direct Motion Control | | | ✓ |
| Graphical Simulation | | | \checkmark |