

# Coupling Comparison Chart

● Low   ● Low to Moderate   ● Moderate   ● Moderate to High   ● High

|   | Zero Backlash | Constant Velocity | Torsional Rigidity | Torque | Bearing Loads | Inertia | Dampening | Angular Misalign. | Parallel Misalign. | Axial Motion | Maintenance Required | Electrically Isolating | Cost |
|---|---------------|-------------------|--------------------|--------|---------------|---------|-----------|-------------------|--------------------|--------------|----------------------|------------------------|------|
| Six Beam Coupling, Aluminum                   | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Six Beam Coupling, Stainless                  | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Four Beam Coupling, Aluminum                  | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Four Beam Coupling, Stainless                 | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Bellows Coupling, Short                       | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Bellows Coupling, Long                        | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Controflex Coupling, Double Disc              | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Controflex Coupling, Single Disc              | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Double Disc Coupling                          | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | Available              | ●    |
| Single Disc Coupling                          | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | 0                  | ●            | ⊗                    | ⊗                      | ●    |
| Jaw Coupling, 85 Shore A Blue                 | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Jaw Coupling, 92 Shore A Yellow               | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Jaw Coupling, 98 Shore A Red                  | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Oldham Coupling, Aluminum, Acetal Disk        | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Oldham Coupling, Aluminum, Nylon Disk         | ⊗             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Oldham Coupling, Aluminum, PEEK Disk          | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Oldham Coupling, Stainless Steel, Acetal Disk | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Oldham Coupling, Stainless Steel, Nylon Disk  | ⊗             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |
| Oldham Coupling, Stainless Steel, PEEK Disk   | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ✓                    | ✓                      | ●    |

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|                            | Zero Backlash | Constant Velocity | Torsional Rigidity | Torque | Bearing Loads | Inertia | Dampening | Angular Misalign. | Parallel Misalign. | Axial Motion | Maintenance Required | Electrically Isolating | Cost |
|----------------------------|---------------|-------------------|--------------------|--------|---------------|---------|-----------|-------------------|--------------------|--------------|----------------------|------------------------|------|
| Rigid Coupling, Aluminum   | ✓             | ✓                 | ●                  | ●      | ●             | ●       | 0         | 0                 | 0                  | 0            | ⊗                    | ⊗                      | ●    |
| Slit Coupling, Short Clamp | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Slit Coupling, Long Clamp  | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Slit Coupling, Short Set   | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |
| Slit Coupling, Long Set    | ✓             | ✓                 | ●                  | ●      | ●             | ●       | ●         | ●                 | ●                  | ●            | ⊗                    | ⊗                      | ●    |

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**NOTE:** This chart is intended to rate Ruland servo couplings on critical performance characteristics relative to each other and under typical operating parameters