

### What is the Difference

|                                                | Lloyd Instruments<br>LD5  | Lloyd Instruments<br>LR5  |
|------------------------------------------------|---------------------------|---------------------------|
| Force Capacity (kN)<br>(lbf)                   | 5<br>1125                 | 5<br>1125                 |
| Crosshead Speed Range Min (mm/min)<br>(in/min) | 0.0001<br>0.000004        | 0.01<br>0.0004            |
| Crosshead Speed Range Max (mm/min)<br>(in/min) | 1270<br>50                | 1016<br>40                |
| Speed Accuracy (%)                             | 0.1                       | 0.2                       |
| Load Cell Accuracy (%)                         | <0.5                      | 0.5                       |
| Return Speed (mm)<br>(in)                      | 1270<br>50                | 1016<br>44.3              |
| Extension Resolution (microns)                 | >0.00012                  | < 0.1                     |
| Minimum Load Resolution (N)                    | 1 part in 10 <sup>9</sup> | 1 part in 10 <sup>4</sup> |
| Data Sampling Rate (kHz)                       | 1                         | 8                         |
| Crosshead Travel, Standard (mm)<br>(in)        | 1070<br>42.1              | 975<br>38.4               |
| Extended (mm)<br>(in)                          | 1669<br>65.7              | 1463<br>57.6              |
| Space Between Columns (mm)<br>(in)             | 452<br>17.8               | 404<br>16                 |
| Weight (kg)<br>(lb)                            | 225<br>496                | 99<br>218                 |
| Strain Rate Control                            | Yes                       | No                        |
| Motor                                          | AC drive                  | DC drive                  |
| Extensometer Inputs                            | Analog and digital        | Analog and digital        |
| Software                                       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       |
| Comments                                       |                           |                           |

### What is the Difference

|                                                | Lloyd Instruments<br>LD10 | Lloyd Instruments<br>LR10 |
|------------------------------------------------|---------------------------|---------------------------|
| Force Capacity (kN)<br>(lbf)                   | 10<br>2248                | 10<br>2248                |
| Crosshead Speed Range Min (mm/min)<br>(in/min) | 0.0001<br>0.000004        | 0.01<br>0.0004            |
| Crosshead Speed Range Max (mm/min)<br>(in/min) | 1270<br>50                | 508<br>20                 |
| Speed Accuracy (%)                             | 0.1                       | < 0.2                     |
| Load Cell Accuracy (%)                         | <0.5                      | 0.5                       |
| Return Speed (mm)<br>(in)                      | 1270<br>50                | 508<br>20                 |
| Extension Resolution (microns)                 | >0.000121                 | < 0.05                    |
| Minimum Load Resolution (N)                    | 1 part in 10 <sup>9</sup> | 1 part in 10 <sup>4</sup> |
| Data Sampling Rate (kHz)                       | 1                         | 8                         |
| Crosshead Travel, Standard (mm)<br>(in)        | 1070<br>42.1              | 950<br>37.4               |
| Extended (mm)<br>(in)                          | 1669<br>65.7              | 1435<br>56.5              |
| Space Between Columns (mm)<br>(in)             | 452<br>17.8               | 404<br>16.0               |
| Weight (kg)<br>(lb)                            | 225<br>496                | 99<br>218                 |
| Strain Rate Control                            | Yes                       | No                        |
| Motor                                          | AC drive                  | DC drive                  |
| Extensometer Inputs                            | Analog and digital        | Analog and digital        |
| Software                                       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       |
| Comments                                       |                           |                           |

### What is the Difference

|                                                | Lloyd Instruments<br>LD30 | Lloyd Instruments<br>EZ20 | Lloyd Instruments<br>LR30 |
|------------------------------------------------|---------------------------|---------------------------|---------------------------|
| Force Capacity (kN)<br>(lbf)                   | 30<br>6744                | 20<br>4496                | 30<br>6744                |
| Crosshead Speed Range Min (mm/min)<br>(in/min) | 0.0001<br>0.000004        | 0.001<br>0.00004          | 0.001<br>0.0004           |
| Crosshead Speed Range Max (mm/min)<br>(in/min) | 1000<br>39                | 508<br>20                 | 508<br>20                 |
| Speed Accuracy (%)                             | 0.1                       | < 0.2                     | < 0.2                     |
| Load Cell Accuracy (%)                         | <0.5                      | 0.5                       | 0.5                       |
| Return Speed (mm)<br>(in)                      | 1000<br>39                | 508<br>20                 | 508<br>20                 |
| Extension Resolution (microns)                 | >0.000214                 | < 0.1                     | < 0.05                    |
| Minimum Load Resolution (N)                    | 1 part in 10 <sup>9</sup> | 1 part in 10 <sup>4</sup> | 1 part in 10 <sup>4</sup> |
| Data Sampling Rate (kHz)                       | 1                         | 8                         | 8                         |
| Crosshead Travel, Standard (mm)<br>(in)        | 1070<br>42.1              | 870<br>34.3               | 870<br>34.3               |
| Extended (mm)<br>(in)                          | 1669<br>65.7              | 1370<br>54                | 1370<br>54                |
| Space Between Columns (mm)<br>(in)             | 452<br>17.8               | 404<br>16                 | 404<br>16                 |
| Weight (kg)<br>(lb)                            | 225<br>496                | 148<br>326                | 148<br>326                |
| Strain Rate Control                            | Yes                       | No                        | No                        |
| Motor                                          | AC drive                  | DC drive                  | DC drive                  |
| Extensometer Inputs                            | Analog and digital        | Analog and digital        | Analog and digital        |
| Software                                       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       |
| Comments                                       |                           |                           |                           |

### What is the Difference

|                                                | Lloyd Instruments<br>LD50 | Lloyd Instruments<br>LR30 | Lloyd Instruments<br>LR50 | Lloyd Instruments<br>EZ50 |
|------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Force Capacity (kN)<br>(lbf)                   | 50<br>11240               | 30<br>6744                | 50<br>11241               | 50<br>11241               |
| Crosshead Speed Range Min (mm/min)<br>(in/min) | 0.0001<br>0.000004        | 0.001<br>0.0004           | 0.001<br>0.00004          | 0.01<br>0.0004            |
| Crosshead Speed Range Max (mm/min)<br>(in/min) | 1000<br>39                | 508<br>20                 | 508<br>20                 | 254<br>10                 |
| Speed Accuracy (%)                             | 0.1                       | < 0.2                     | < 0.2                     | < 0.2                     |
| Load Cell Accuracy (%)                         | <0.5                      | 0.5                       | 0.5                       | 0.5                       |
| Return Speed (mm)<br>(in)                      | 500<br>19                 | 508<br>20                 | 508<br>20                 | 254<br>10                 |
| Extension Resolution (microns)                 | >0.000354                 | < 0.05                    | < 0.05                    | < 0.03                    |
| Minimum Load Resolution (N)                    | 1 part in 10 <sup>9</sup> | 1 part in 10 <sup>4</sup> | 1 part in 10 <sup>4</sup> | 1 part in 10 <sup>4</sup> |
| Data Sampling Rate (kHz)                       | 1                         | 8                         | 8                         | 8                         |
| Crosshead Travel, Standard (mm)<br>(in)        | 1070<br>42.1              | 870<br>34.3               | 855<br>33.7               | 855<br>33.7               |
| Extended (mm)<br>(in)                          | 1669<br>65.7              | 1370<br>54                | 1355<br>53.4              | 1355<br>53.4              |
| Space Between Columns (mm)<br>(in)             | 452<br>17.8               | 404<br>16                 | 404<br>16                 | 404<br>16                 |
| Weight (kg)<br>(lb)                            | 225<br>496                | 148<br>326                | 148<br>326                | 148<br>326                |
| Strain Rate Control                            | Yes                       | No                        | No                        | No                        |
| Motor                                          | AC drive                  | DC drive                  | DC drive                  | DC drive                  |
| Extensometer Inputs                            | Analog and digital        | Analog and digital        | Analog and digital        | Analog and digital        |
| Software                                       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       | NEXYGEN <i>Plus</i>       |
| Comments                                       |                           |                           |                           |                           |

### What is the Difference

|                                                | Lloyd Instruments<br>LD100 | Lloyd Instruments<br>LS100 |
|------------------------------------------------|----------------------------|----------------------------|
| Force Capacity (kN)<br>(lbf)                   | 100<br>22480               | 100<br>22480               |
| Crosshead Speed Range Min (mm/min)<br>(in/min) | 0.0001<br>0.000004         | 0.001<br>0.0004            |
| Crosshead Speed Range Max (mm/min)<br>(in/min) | 250<br>10                  | 254<br>10                  |
| Speed Accuracy (%)                             | 0.1                        | < 0.2                      |
| Load Cell Accuracy (%)                         | <0.5                       | <0.5                       |
| Return Speed (mm)<br>(in)                      | 250<br>10                  | 254<br>10                  |
| Extension Resolution (microns)                 | >0.000354                  | 1/33                       |
| Minimum Load Resolution (N)                    | 1 part in 10 <sup>9</sup>  | 1 part in 10 <sup>4</sup>  |
| Data Sampling Rate (kHz)                       | 1                          | 8                          |
| Crosshead Travel, Standard (mm)<br>(in)        | 1070<br>42.1               | 842<br>33.1                |
| Space Between Columns (mm)<br>(in)             | 452<br>17.8                | 404<br>16                  |
| Weight (kg)<br>(lb)                            | 225<br>496                 | 200<br>440                 |
| Strain Rate Control                            | Yes                        | No                         |
| Motor                                          | AC drive                   | DC drive                   |
| Extensometer Inputs                            | Analog and digital         | Analog and digital         |
| Software                                       | NEXYGEN <i>Plus</i>        | NEXYGEN <i>Plus</i>        |
| Comments                                       |                            |                            |