|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Method | DE | EBLSHADE | ADELI | NDE | MABC | TLBO | GOTLBO | STLBO | PSO | IJAYA | ISCA | NNA | CWOA | WW | +/=/- |
| DE | = | 0 | 0 | 0 | + | 0 | + | 0 | + | 0 | + | + | + | + | 7/0/6 |
| EBLSHADE | + | = | 0 | + | + | 0 | + | 0 | + | + | + | + | + | + | 10/0/3 |
| ADELI | + | + | = | + | + | + | + | + | + | + | + | + | + | + | 13/0/0 |
| NDE | + | 0 | 0 | = | + | 0 | + | 0 | + | + | + | + | + | + | 9/0/4 |
| MABC | 0 | 0 | 0 | 0 | = | 0 | + | 0 | + | 0 | + | + | + | + | 6/7 |
| TLBO | + | + | 0 | + | + | = | + | 0 | + | + | + | + | + | + | 11/1/1 |
| GOTLBO | 0 | 0 | 0 | 0 | 0 | 0 | = | 0 | + | 0 | + | + | + | + | 5/0/8 |
| STLBO | + | + | 0 | + | + | 0 | + | = | + | + | + | + | + | + | 11/1/1 |
| PSO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | = | 0 | 0 | 0 | 0 | 0 | 0/4/9 |
| IJAYA | + | 0 | 0 | 0 | + | 0 | + | 0 | + | = | + | + | + | + | 8/0/5 |
| ISCA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | = | 0 | 0 | 0 | 0/3/10 |
| NNA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | = | 0 | 0 | 0/3/10 |
| CWOA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | = | 0 | 0/4/9 |
| WW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | + | 0 | = | 1/3/9 |