

## Comparison of selected 11.5" movements for interchangeability v.5 (July 2013)

| Manufacturer          | Miyota                              | Hangzhou             | Nanning                       | Dixmont<br>Guangzhou | Dixmont<br>Guangzhou | Shanghai<br>Watch Factory |
|-----------------------|-------------------------------------|----------------------|-------------------------------|----------------------|----------------------|---------------------------|
| movement model        | 8215                                | HZ6300               | NN2813/NN3813                 | DG2813/DG3813        | DG4813               | Shanghai SB1Z             |
| movement diameter     | 26mm overall*                       | 26mm overall*        | 26mm overall*                 | 26mm overall*        | 26mm overall*        | 26mm overall*             |
| movement height       | 5.67mm                              | 4.6mm                | 5.45mm                        | 5.45mm               | 4.6mm                | 6.53mm                    |
| stem height           | 2.5mm                               | 1.8mm                | 2.5mm                         | 2.5mm                | 1.8mm                | 1.8mm                     |
| hand sizes            | 100/152/17                          | 90/150/25            | 100/150/17                    | 100/150/17           | 100/152/17           | 90/150/22*                |
| dial feet position    | around "25" and "50"                | around "12" and "42" | around "28" and "54"          | around "28" and "54" | around "25" and "55" | around "8" and "38"       |
| beat frequency (bph)  | 21,600                              | 28,800               | 21,600                        | 21,600               | 28,800               | 21,600                    |
| hacking (second stop) | No                                  | yes                  | yes                           | yes                  | yes                  | yes                       |
| remarks               | Hands will fit all Asian 100/150/17 | 2824 clone           | NN/DG 2813/3813 are identical |                      |                      | (* could be 25)           |

| Manufacturer          | Seagull              | Seagull                                                         | Seagull              | Seagull              | Peacock              | various              |
|-----------------------|----------------------|-----------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| movement model        | ST6D3 (TY-6D3K-1)    | ST-1612 (TY2806)                                                | ST-1812 (TY2661)     | ST-2130 (TY2130)     | SL3000               | Tongji 2650Z         |
| movement diameter     | 26mm overall*        | 26mm overall*                                                   | 26mm overall*        | 26mm overall*        | 26mm overall*        | 27mm                 |
| movement height       | 5.92mm               | 5.76mm                                                          | 3.6mm                | 4.6mm                | 4.6mm                | 6.7mm                |
| stem height           | 2.5mm                | 2.5mm                                                           | 1.5mm                | 1.8mm                | 1.8mm                | 2.5mm                |
| hand sizes            | 85/135/20            | 100/150/17                                                      | 90/150/25            | 90/150/25            | 90/150/25            | 86/135/25            |
| dial feet position    | around "28" and "54" | around "28" and "54"                                            | around "12" and "42" | around "12" and "42" | around "12" and "42" | around "25" and "55" |
| beat frequency (bph)  | 18,000               | 21,600                                                          | 28,800               | 28,800               | 28,800               | 21,600               |
| hacking (second stop) | Yes                  | yes                                                             | yes                  | yes                  | yes                  | no                   |
| remarks               |                      | Seiko bidirectional winding system on separate auto-wind bridge | 2892 clone           | 2824 clone           | 2824 clone           |                      |



| Manufacturer          | ETA                                                           | ETA                     | ETA                     | ETA                     | Soprod               | Sellita              |
|-----------------------|---------------------------------------------------------------|-------------------------|-------------------------|-------------------------|----------------------|----------------------|
| movement model        | 2870/71/72<br>2873/78/79                                      | 2824-2                  | 2834-2/2836-2           | 2892A2                  | A-10                 | SW-200               |
| movement diameter     | 26mm overall*                                                 | 26mm overall*           | 26mm overall*           | 26mm overall*           | 26mm overall*        | 26mm overall*        |
| movement height       | 5.3mm                                                         | 4.6mm                   | 5.1mm                   | 3.6mm                   | 3.6mm                | 4.6mm                |
| stem height           | 2.5mm                                                         | 1.8mm                   | 2.25mm                  | 1.5mm                   | 1.8mm                | 1.8mm                |
| hand sizes            | 90/150/25                                                     | 90/150/25               | 90/150/25               | 90/150/25               | 90/150/25            | 90/150/25            |
| dial feet position    | around "12" and<br>"42"                                       | around "12" and<br>"42" | around "12" and<br>"42" | around "12" and<br>"42" | around "12" and "42" | around "12" and "42" |
| beat frequency (bph)  | 21,600/28,800                                                 | 28,800                  | 28,800                  | 28,800                  | 28,800               | 28,800               |
| hacking (second stop) | No                                                            | yes                     | yes                     | yes                     | yes                  | yes                  |
| remarks               | 2870/72/78 are<br>28,800 bph;<br>2871/73/79 are<br>21,600 bph |                         |                         |                         | 2892 clone           | 2824 clone           |

- All movements are automatic movements with quickset date function
- 26mm overall\* = 11.5" ligne movement
- The SB1Z is based on the Shanghai "B" movement. The SB1Z is also called Shanghai RK4D, or SH RK4D, when used with GMT complication in third party watches. The GMT complication increases the stem height to 2.5mm.
- The Tongji movement is the "standard" or "unified" movement that has been in production in numerous mainland China watch factories since the early 1970s.
- ETA 287x series ex-factory ships without a balance stop, but can be fitted with one (part number A/7307 or A/707)
- DG/NN28 or ST16 might have a different second hand size (TBC)
- Please note that movement interchangeability is further determined by dial shape. According to WUS member "dkbs", the ETA's 2824 reference dial design is domed, while the 2892 dial is flat. So whether a 2892 fits into 2824 case will be determined by the dial design as well. The same applies to Seagull's ST18 (2892 clone) and ST21 (2824 clone).
- Most Asian watch cases on the market appear to fit the 2.25 and 2.5mm stem height movements. Basically the mainstream ETA movements and their clones. A different spacer is used to achieve this.

This updated file was posted in July 2013 on [www.watchuseek.com](http://www.watchuseek.com) as a reference for watch projects. Feel free to share.

Torsten



### Additional Chinese movements with GMT function

| Manufacturer          | Hangzhou                                                                  | Dixmont<br>Guangzhou                                 | Shanghai<br>Watch Factory | Seagull                          | Seagull                  |  |
|-----------------------|---------------------------------------------------------------------------|------------------------------------------------------|---------------------------|----------------------------------|--------------------------|--|
| movement model        | 6460                                                                      | DG 3804B                                             | Shanghai SB1Z             | ST6KT (6322)                     | ST1622                   |  |
| movement diameter     | 26mm overall*                                                             | 26mm overall*                                        | 26mm overall*             | 26mm overall*                    | 26mm overall*            |  |
| movement height       | 5.1mm                                                                     | 5.97 mm                                              | 6.53mm                    | 6.58mm                           | 5.73mm                   |  |
| stem height           | 2.25mm                                                                    | 2.5 mm                                               | 1.8mm                     | 2.61mm                           | 2.52mm                   |  |
| hand sizes            | ??/90/150/25                                                              | 200/152/100/17                                       | ???/90/150/22*            | 210/134/84/22                    | 210/152/100/17           |  |
| dial feet position    | around "12" and "42"                                                      | around "28" and "54"                                 | around "8" and "38"       | around "28" and "54"             | around "28" and "54"     |  |
| beat frequency (bph)  | 28,800                                                                    | 21,600                                               | 21,600                    | 21,600                           | 21,600                   |  |
| hacking (second stop) | Yes                                                                       | yes                                                  | yes                       | yes                              | yes                      |  |
| remarks               | ETA 2836-2 clone.<br>GMT hand instead of<br>day ring. GMT hand<br>slaved. | DG2813 with GMT<br>complication. GMT<br>hand slaved. | (* could be 25)           | GMT can be set<br>independently. | GMT hand slaved?<br>TBC. |  |

