**Measurement Report Group 20**

***1.Sheet Metal***

***2.Frame***

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| **Drawing No.** | **Serial No.** | **Dim ID.** | **According to drawing** | **Measured** | **Measuring tool used** | **Conclusion** | **Reference** |
| 12112024-02-01 | 1 | A | 29.95-30.05 | 30 | caliper | OK | Frame |
| 12112024-02-01 | 1 | B | Ø9.8-  Ø 9.85 | 9.8 | micrometer | OK | Frame |
| 12112024-02-01 | 1 | C | 200-200.1 | 200 | caliper | OK | Frame |
| 12112024-02-01 | 1 | D | 400-400.5 | 400 | caliper | OK | Frame |
| 12112024-02-01 | 1 | E | 96-96.1 | 96 | caliper | OK | Frame |
| 12112024-02-01 | 1 | F | 258-258.05 | 258.1 | caliper | Proves to be acceptable on the assembly | Frame |
| 12112024-02-01 | 1 | G | 125-125.0.1 | 125 | caliper | OK | Frame |
| 12112024-02-01 | 1 | H | Ø13.8-  Ø 13.85 | 13.8 | micrometer | OK | Frame |
| 12112024-02-01 | 1 | I | Ø13.8-  Ø 13.85 | 13.8 | micrometer | OK | Frame |
| 12112024-02-01 | 1 | J | Ø13.8-  Ø 13.85 | 13.8 | Micrometer | OK | Frame |
| 12112024-02-01 | 1 | K | Ø13.8-  Ø 13.85 | 13.8 | Micrometer | OK | Frame |
| 12112024-02-01 | 1 | L | Ø6.6-  Ø 6.65 | 6.6 | Micrometer | OK | Frame |
| 12112024-02-02-01 | 2 | M | Ø6.6-  Ø 6.65 | 6.6 | Micrometer | OK | Frame hinge arm |
| 12112024-02-02-01 | 2 | N | Ø8.6-  Ø 8.65 | 8.6 | Micrometer | OK | Frame hinge arm |
| 12112024-02-02-01 | 2 | O | 9.95-10.05 | 10 | caliper | OK | Frame hinge arm |
| 12112024-02-02-02 | 3 | P | 74.95-75.05 | 75 | caliper | OK | Frame hinge base |
| 12112024-02-02-02 | 3 | Q | 9-9.05 | 9 | caliper | OK | Frame hinge base |
| 12112024-02-02-02 | 3 | R | 20-20.05 | 20.02 | caliper | OK | Frame hinge base |
| 12112024-02-02-02 | 3 | S | 20-20.05 | 20 | caliper | OK | Frame hinge base |

***3.Handcranck***

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Drawing No.** | **Serial No.** | **Dim ID.** | **According to drawing** | **Measured** | **Measuring tool used** | **Conclusion** | **Reference** |
| 12112024-03-02 | 4 | T | 12h9  *12-11.957* | 12 | micrometer | OK | Axle handcranck |
| 12112024-03-02 | 4 | U | 4N9  *4-4.03* | 4 | micrometer | OK | Axle handcranck |
| 12112024-03-01 | 5 | V | 12D9  *12.05-12.093* | 12.06 | micrometer | OK | Sprocket handcranck |

***4.Cam***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Drawing No.** | **Serial No.** | **Dim ID.** | **According to drawing** | **Measured** | **Measuring tool used** | **Conclusion** | **Reference** |
| 12112024-04-03-01 | 6 | W | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  1 |
| 12112024-04-03-01 | 6 | X | 12h9  *12-11.957* | 12 | micrometer | OK | Piston housing  1 |
| 12112024-04-03-01 | 6 | Y | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  1 |
| 12112024-04-03-01 | 6 | Z | *3.99-4.01* | 4 | caliper | OK | Piston housing  1 |
| 12112024-04-03-01 | 6 | AA | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  2 |
| 12112024-04-03-01 | 6 | AB | 12h9  *12-11.957* | 12 | micrometer | OK | Piston housing  2 |
| 12112024-04-03-01 | 6 | AC | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  2 |
| 12112024-04-03-01 | 6 | AD | *3.99-4.01* | 4 | caliper | OK | Piston housing  2 |
| 12112024-04-03-01 | 6 | AE | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  3 |
| 12112024-04-03-01 | 6 | AF | 12h9  *12-11.957* | 12 | micrometer | OK | Piston housing  3 |
| 12112024-04-03-01 | 6 | AG | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  3 |
| 12112024-04-03-01 | 6 | AH | *3.99-4.01* | 4 | caliper | OK | Piston housing  3 |
| 12112024-04-03-01 | 6 | AI | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  4 |
| 12112024-04-03-01 | 6 | AJ | 12h9  *12-11.957* | 12 | micrometer | OK | Piston housing  4 |
| 12112024-04-03-01 | 6 | AK | 4H7  *4-4.012* | 4 | micrometer | OK | Piston housing  4 |
| 12112024-04-03-01 | 6 | AL | *3.99-4.01* | 4 | caliper | OK | Piston housing  4 |
| 12112024-04-01-01 | 7 | AM | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  1 |
| 12112024-04-01-01 | 7 | AN | *Symmetry*  *0.01* | 0.01 | caliper | OK | Camshaft attach to axel  1 |
| 12112024-04-01-01 | 7 | AO | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  1 |
| 12112024-04-01-01 | 7 | AP | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  2 |
| 12112024-04-01-01 | 7 | AQ | *Symmetry*  *0.01* | 0.01 | caliper | OK | Camshaft attach to axel  2 |
| 12112024-04-01-01 | 7 | AR | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  2 |
| 12112024-04-01-01 | 7 | AS | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  3 |
| 12112024-04-01-01 | 7 | AT | *Symmetry*  *0.01* | 0.01 | caliper | OK | Camshaft attach to axel  3 |
| 12112024-04-01-01 | 7 | AU | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  3 |
| 12112024-04-01-01 | 7 | AV | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel  4 |
| 12112024-04-01-01 | 7 | AW | *Symmetry*  *0.01* | 0.01 | caliper | OK | Camshaft attach to axel  4 |
| 12112024-04-01-01 | 7 | AX | *3.4H10*  *3.4-3.448* | 3.4 | micrometer | OK | Camshaft attach to axel |
| 12112024-04-01-02 | 8 | AY | 6h9  6-5.97 | 6 | micrometer | OK | Camshaft connector  1 |
| 12112024-04-01-02 | 8 | AZ | Concentricity  0.01 |  |  |  | Camshaft connector  1 |
| 12112024-04-01-02 | 8 | BA | 6h9  6-5.97 | 6 | micrometer | OK | Camshaft connector  2 |
| 12112024-04-01-02 | 8 | BB | Concentricity  0.01 |  |  |  | Camshaft connector  2 |
| 12112024-04-01-02 | 8 | BC | 6h9  6-5.97 | 6 | Micromter | OK | Camshaft connector  3 |
| 12112024-04-01-02 | 8 | BD | Concentricity  0.01 |  |  |  | Camshaft connector  3 |
| 12112024-04-01-02 | 8 | BE | 6h9  6-5.97 | 6 | micrometer | OK | Camshaft connector  4 |
| 12112024-04-01-02 | 8 | BF | Concentricity  0.01 |  |  |  | Camshaft connector  4 |
| 12112024-04-01-03 | 9 | BG | Symetry  0.01 | 0.01 | caliper | OK | Camshaft long part  1 |
| 12112024-04-01-03 | 9 | BH | 3.4H10  3.4-3.448 | 3.4 | micrometer | OK | Camshaft long part  1 |
| 12112024-04-01-03 | 9 | BI | Symetry  0.01 | 0.01 | caliper | OK | Camshaft long part  2 |
| 12112024-04-01-03 | 9 | BJ | 3.4H10  3.4-3.448 | 3.4 | micrometer | OK | Camshaft long part  2 |
| 12112024-04-01-04 | 10 | BK | Symetry 0.01 | 0.01 | caliper | OK | PistonToCam  1 |
| 12112024-04-01-04 | 10 | BL | 4H10  4-4.048 | 4 | micrometer | OK | PistonToCam  1 |
| 12112024-04-01-04 | 10 | BM | 7.5H10  7.5-7.548 | 7.5 | micrometer | OK | PistonToCam  1 |
| 12112024-04-01-04 | 10 | BN | Symetry 0.01 | 0.01 | caliper | OK | PistonToCam 2 |
| 12112024-04-01-04 | 10 | BO | 4H10  4-4.048 | 4 | micrometer | OK | PistonToCam  2 |
| 12112024-04-01-04 | 10 | BP | 7.5H10  7.5-7.548 | 7.5 | micrometer | OK | PistonToCam  2 |
| 12112024-04-01-04 | 10 | BQ | Symetry 0.01 | 0.01 | caliper | OK | PistonToCam 3 |
| 12112024-04-01-04 | 10 | BR | 4H10  4-4.048 | 4 | micrometer | OK | PistonToCam 3 |
| 12112024-04-01-04 | 10 | BS | 7.5H10  7.5-7.548 | 7.5 | micrometer | OK | PistonToCam 3 |
| 12112024-04-01-04 | 10 | BT | Symetry 0.01 | 0.01 | caliper | OK | PistonToCam 4 |
| 12112024-04-01-04 | 10 | BU | 4H10  4-4.048 | 4 | micrometer | OK | PistonToCam 4 |
| 12112024-04-01-04 | 10 | BV | 7.5H10  7.5-7.548 | 7.5 | micrometer | OK | PistonToCam 4 |
| 12112024-04-01-05 | 11 | BX | 8h9  8-7.964 | 8 | micrometer | OK | Axel35TeethToCam |
| 12112024-04-01-05 | 11 | BY | Concentricity  0.01 |  |  |  | Axel35TeethToCam |
| 12112024-04-01-06 | 12 | BZ | 8h9  8-7.964 | 8 | micrometer | OK | AxelCamToFrame |
| 12112024-04-01-06 | 12 | CA | Concentricity  0.01 |  |  |  | AxelCamToFrame |
| 12112024-04-01-07 | 13 | CB | 8h9  8-7.964 | 8 | micrometer | OK | AxelCamToCam |
| 12112024-04-01-07 | 13 | CC | Concentricity  0.01 |  |  |  | AxelCamToCam |
| 12112024-04-01-07 | 13 | CD | Symetry  0.01 | 0.01 | caliper | OK | AxelCamToCam |
| 12112024-04-03-03 | 14 | CE | 4h9  4-3.952 | 4 | micrometer | OK | Pusher 1 |
| 12112024-04-03-03 | 15 | CF | 4h9  4-3.952 | 4 | micrometer | OK | Pusher 2 |
| 12112024-04-03-03 | 15 | CG | 4h9  4-3.952 | 4 | micrometer | OK | Pusher 3 |

***5-Time release***

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| **Drawing No.** | **Serial No.** | **Dim ID.** | **According to drawing** | **Measured** | **Measuring tool used** | **Conclusion** | **Reference** |
| 12112024-05-02 | 16 | CH | 12h9  *12-11.957* | 12 | micrometer | OK | Axle Timed release |
| 12112024-05-01 | 17 | CI | 12H7  *12-12.018* | 12.1 | micrometer | Proves to be acceptable on prototype | Teeth chain sprocket Timed release |
| 12112024-05-04 | 18 | CJ | 12H7  *12-12.018* | 12.1 | micrometer | Proves to be acceptable on prototype | Custom gear timed release |