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| Area Code | SDRL Code | Tag No | TTS Project No 21660-01 | Client PO No CMHI-121-CG-007 | |
| Product GPOKa 5000-140-36 – 140T AHC Subsea Crane | | | | | |
| Document Title Load Charts | | | | | |
| Document Number 21660-01-TTS-N-CA-0002 | | | | | |
| Client Document Number | | | | | |
| No of Pages 31 | | | | | |



Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
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Revision Description

| Rev | Description |
|-----|---------------------|
| 01 | For DNV approval |
| 02 | Tablular data added |
| | |
| | |
| | |



Client China Merchants Heavy Industry Co., Ltd
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1 General Information

The load charts presented in this document should fulfil requirements according to the following standards

- DNV Standard for Certification no. 2.22, Lifting Appliance 2011
- EN 13852-1 : 2004

2 Main winch load charts

2.1 General

Operational limits:

| | |
|-------------------------------|------------------------|
| Maximum wind velocity: | 25 [m/s] |
| Maximum trim: | 2 [deg] |
| Maximum heel: | 5 [deg] |
| Ice and snow: | No ice and snow |

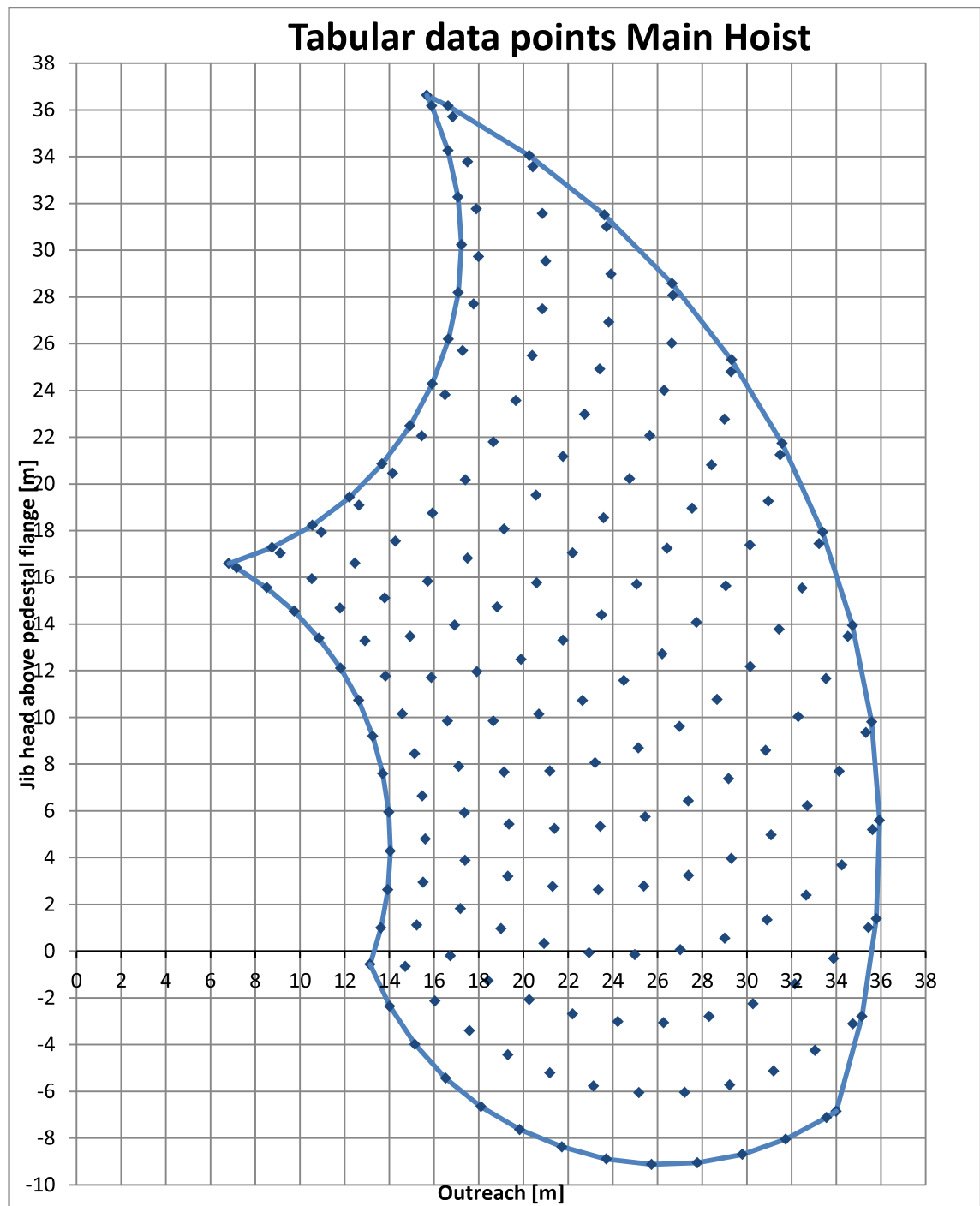
2.2 Boom tip range

The height is defined as the vertical distance from the center of slewing ring to the boom tip (main deck 6000 [mm] below slew bearing). The radius is defined as the horizontal distance from the center of the slew bearing to the boom tip.

| | |
|---------|---------------------|
| Radius: | ~7.5 [m] - 35.5 [m] |
| Height: | ~7.0 [m] - 36.5 [m] |

2.3 Tabular data description

Tabular data of SWL's was presented in a form of a 14x14 matrix. Even increments of main and folding jib angles were defined. The tabular data covers entire load chart. For ship to ship mode dynamic factors are also presented





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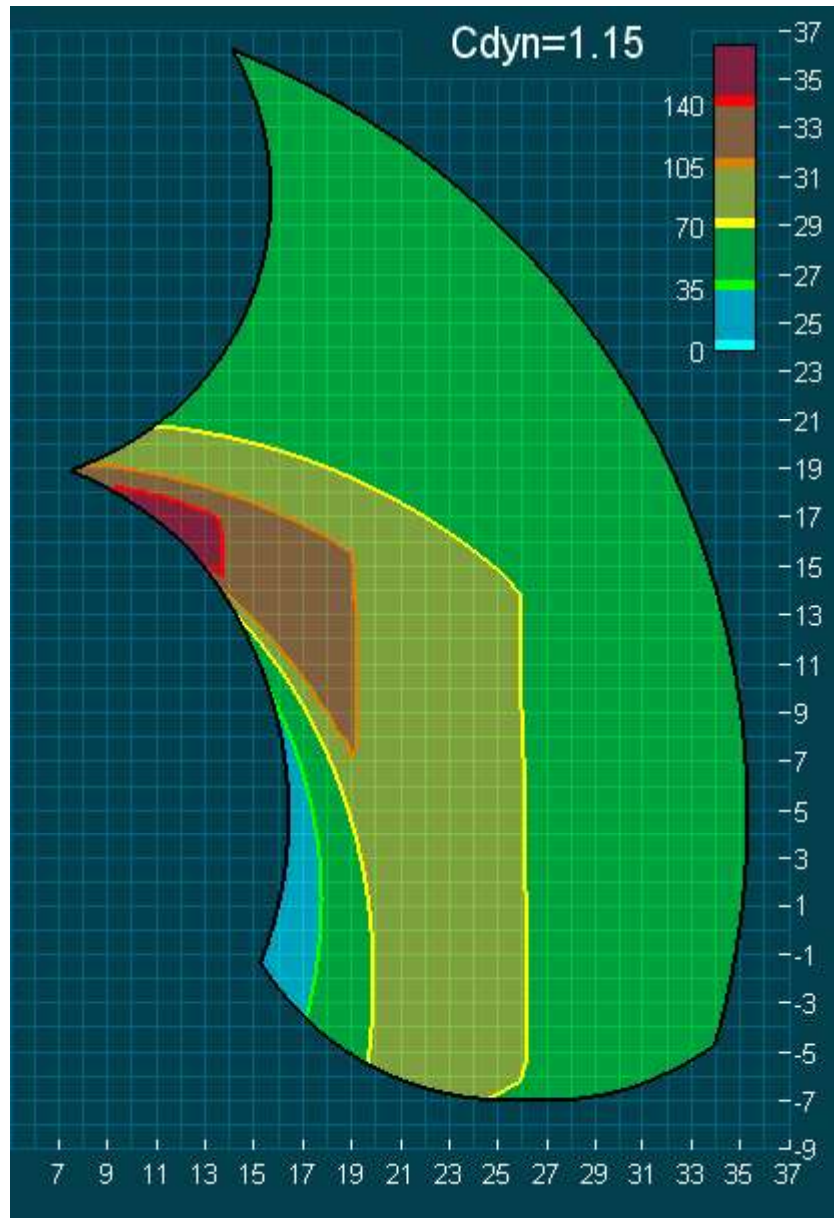
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| Outreach from slewing center [m] | | | | | | | | | | | | | | |
|----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Folding Jib angle [deg] | Main Jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 15,27 | 15,88 | 16,27 | 16,42 | 16,33 | 16,01 | 15,45 | 14,67 | 13,68 | 12,48 | 11,11 | 9,58 | 7,9 | 7,46 |
| 8,33 | 16,29 | 17,07 | 17,59 | 17,87 | 17,88 | 17,64 | 17,14 | 16,39 | 15,41 | 14,2 | 12,79 | 11,19 | 9,43 | 8,99 |
| 16,65 | 17,5 | 18,42 | 19,07 | 19,44 | 19,53 | 19,34 | 18,87 | 18,13 | 17,12 | 15,87 | 14,38 | 12,71 | 10,95 | 10,49 |
| 24,98 | 18,88 | 19,91 | 20,66 | 21,1 | 21,24 | 21,07 | 20,6 | 19,83 | 18,77 | 17,44 | 15,91 | 14,22 | 12,34 | 11,84 |
| 33,31 | 20,4 | 21,52 | 22,33 | 22,82 | 22,97 | 22,8 | 22,29 | 21,47 | 20,3 | 18,97 | 17,39 | 15,58 | 13,56 | 13,03 |
| 41,63 | 22,03 | 23,21 | 24,05 | 24,55 | 24,69 | 24,48 | 23,92 | 22,99 | 21,86 | 20,43 | 18,72 | 16,77 | 14,59 | 14,02 |
| 49,96 | 23,72 | 24,93 | 25,78 | 26,26 | 26,37 | 26,09 | 25,44 | 24,53 | 23,29 | 21,73 | 19,88 | 17,76 | 15,41 | 14,79 |
| 58,29 | 25,45 | 26,66 | 27,49 | 27,93 | 27,96 | 27,61 | 26,96 | 25,94 | 24,56 | 22,85 | 20,84 | 18,54 | 16 | 15,33 |
| 66,61 | 27,18 | 28,36 | 29,14 | 29,5 | 29,48 | 29,11 | 28,34 | 27,18 | 25,65 | 23,77 | 21,58 | 19,09 | 16,35 | 15,63 |
| 74,94 | 28,87 | 30 | 30,67 | 31,02 | 30,95 | 30,46 | 29,55 | 28,23 | 26,53 | 24,47 | 22,08 | 19,39 | 16,44 | 15,67 |
| 83,27 | 30,49 | 31,52 | 32,22 | 32,47 | 32,28 | 31,64 | 30,57 | 29,08 | 27,19 | 24,94 | 22,34 | 19,44 | 16,29 | 15,46 |
| 91,59 | 32,01 | 33,05 | 33,64 | 33,76 | 33,42 | 32,62 | 31,37 | 29,7 | 27,61 | 25,15 | 22,35 | 19,24 | 15,88 | 15,01 |
| 99,92 | 33,52 | 34,45 | 34,9 | 34,88 | 34,37 | 33,39 | 31,95 | 30,07 | 27,78 | 25,11 | 22,1 | 18,8 | 15,24 | 14,32 |
| 102 | 33,88 | 34,78 | 35,19 | 35,12 | 34,57 | 33,54 | 32,06 | 30,13 | 27,78 | 25,06 | 22 | 18,65 | 15,04 | 14,11 |

| Height boom tip [m] | | | | | | | | | | | | | | |
|-------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Folding Jib angle [deg] | Main Jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | -1,37 | 0,52 | 2,48 | 4,46 | 6,44 | 8,41 | 10,31 | 12,14 | 13,87 | 15,46 | 16,7 | 17,76 | 18,64 | 18,83 |
| 8,33 | -2,77 | -0,74 | 1,36 | 3,51 | 5,67 | 7,83 | 9,93 | 11,97 | 13,86 | 15,46 | 16,9 | 18,16 | 19,24 | 19,47 |
| 16,65 | -4 | -1,83 | 0,44 | 2,77 | 5,13 | 7,49 | 9,8 | 11,96 | 13,9 | 15,7 | 17,34 | 18,8 | 20,06 | 20,35 |
| 24,98 | -5,05 | -2,7 | -0,25 | 2,28 | 4,84 | 7,4 | 9,8 | 12,04 | 14,18 | 16,18 | 18,02 | 19,67 | 21,1 | 21,43 |
| 33,31 | -5,89 | -3,35 | -0,7 | 2,03 | 4,8 | 7,4 | 9,92 | 12,37 | 14,71 | 16,9 | 18,93 | 20,75 | 22,33 | 22,69 |
| 41,63 | -6,5 | -3,76 | -0,91 | 2,02 | 4,79 | 7,56 | 10,29 | 12,94 | 15,47 | 17,85 | 20,04 | 22,01 | 23,73 | 24,12 |
| 49,96 | -6,86 | -3,93 | -0,91 | 2,03 | 5 | 7,98 | 10,9 | 13,74 | 16,45 | 18,99 | 21,33 | 23,43 | 25,26 | 25,67 |
| 58,29 | -6,98 | -3,93 | -0,86 | 2,28 | 5,46 | 8,63 | 11,74 | 14,76 | 17,63 | 20,31 | 22,77 | 24,98 | 26,89 | 27,32 |
| 66,61 | -6,99 | -3,84 | -0,57 | 2,78 | 6,16 | 9,51 | 12,8 | 15,97 | 18,97 | 21,78 | 24,34 | 26,62 | 28,59 | 29,03 |
| 74,94 | -6,85 | -3,49 | -0,02 | 3,52 | 7,07 | 10,6 | 14,04 | 17,34 | 20,47 | 23,37 | 26 | 28,33 | 30,32 | 30,76 |
| 83,27 | -6,46 | -2,91 | 0,75 | 4,47 | 8,2 | 11,87 | 15,44 | 18,86 | 22,07 | 25,04 | 27,71 | 30,06 | 32,05 | 32,48 |
| 91,59 | -5,84 | -2,09 | 1,74 | 5,63 | 9,5 | 13,3 | 16,97 | 20,48 | 23,75 | 26,76 | 29,45 | 31,78 | 33,73 | 34,16 |
| 99,92 | -4,98 | -1,07 | 2,93 | 6,96 | 10,95 | 14,85 | 18,61 | 22,17 | 25,48 | 28,49 | 31,17 | 33,46 | 35,34 | 35,75 |
| 102 | -4,74 | -0,78 | 3,26 | 7,31 | 11,33 | 15,26 | 19,03 | 22,6 | 25,91 | 28,92 | 31,59 | 33,87 | 35,73 | 36,13 |



2.4 $C_{dyn} = 1.15$ – Harbour lift





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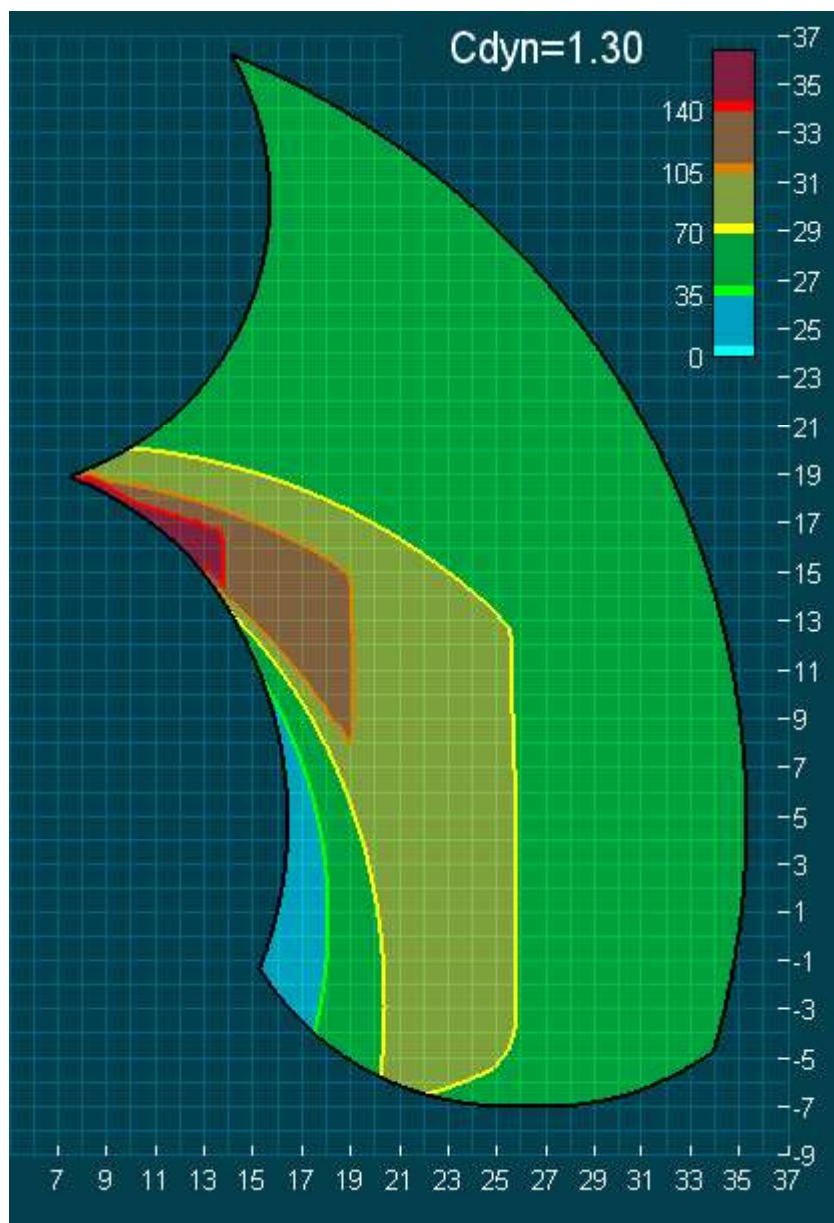
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
|----------------------------------|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 9,63 | 11,23 | 13,44 | 16,53 | 20,91 | 27,37 | 37,54 | 55,4 | 93,89 | 140 | 140 | 140 | 114,99 | 107,7 |
| 8,33 | 23,74 | 27,22 | 32,09 | 39,04 | 49,41 | 66,03 | 96,2 | 121,39 | 127,62 | 135,09 | 140 | 120,72 | 95,34 | 90,55 |
| 16,65 | 39,31 | 45,93 | 55,45 | 69,84 | 93,39 | 102,75 | 105,88 | 110,56 | 116,74 | 124,32 | 114,53 | 91,2 | 76,1 | 73,15 |
| 24,98 | 57,69 | 69,72 | 88,13 | 91,46 | 90,88 | 92,07 | 95,02 | 99,69 | 106 | 108,97 | 87,44 | 73,55 | 63,95 | 62,03 |
| 33,31 | 81,68 | 88,48 | 83,82 | 81,02 | 80,51 | 81,2 | 84,16 | 89 | 95,63 | 83,99 | 71,2 | 62,29 | 55,95 | 54,66 |
| 41,63 | 78,57 | 79,51 | 76,61 | 74,87 | 74,31 | 74,94 | 76,74 | 79,7 | 80,82 | 69,02 | 60,75 | 54,84 | 50,63 | 49,79 |
| 49,96 | 71,91 | 73,48 | 70,45 | 68,67 | 68,15 | 68,91 | 70,94 | 74,2 | 67 | 59,31 | 53,81 | 49,91 | 47,23 | 46,72 |
| 58,29 | 66,11 | 67,3 | 64,25 | 62,53 | 62,16 | 63,16 | 65,51 | 65,13 | 57,97 | 52,86 | 49,24 | 46,79 | 45,31 | 45,07 |
| 66,61 | 61,11 | 61,1 | 58,13 | 56,58 | 56,48 | 57,81 | 60,57 | 56,73 | 51,97 | 48,62 | 46,39 | 45,1 | 44,65 | 44,66 |
| 74,94 | 56,84 | 55,01 | 52,24 | 50,96 | 51,21 | 52,98 | 55,57 | 51,15 | 48,06 | 46,04 | 44,94 | 44,66 | 44,72 | 44,66 |
| 83,27 | 53,2 | 49,17 | 46,8 | 46,23 | 46,67 | 48,76 | 50,38 | 47,54 | 45,73 | 44,81 | 44,7 | 44,66 | 44,89 | 45,08 |
| 91,59 | 47,42 | 44,91 | 43,59 | 43,31 | 44,08 | 45,89 | 47,07 | 45,46 | 44,72 | 44,78 | 44,65 | 45,05 | 46,27 | 46,71 |
| 99,92 | 43,86 | 41,76 | 40,74 | 40,8 | 41,94 | 44,16 | 45,23 | 44,66 | 44,89 | 44,67 | 45,24 | 46,64 | 48,96 | 49,71 |
| 102 | 43,05 | 41,03 | 40,09 | 40,24 | 41,49 | 43,81 | 44,97 | 44,65 | 44,74 | 44,75 | 45,57 | 47,24 | 49,87 | 50,7 |

Operational limits:

| | |
|--------------------------|-----------------|
| Dynamic factor: | 1.15 |
| Maximum rated load: | 140.0 [t] |
| Load on maximum outreach | 40.0 [t] |
| Maximum wind velocity: | 25 [m/s] |
| Maximum trim: | 2 [deg] |
| Maximum heel: | 5 [deg] |
| Ice and snow: | No ice and snow |



2.5 $C_{dyn} = 1.30$ – Deck lift





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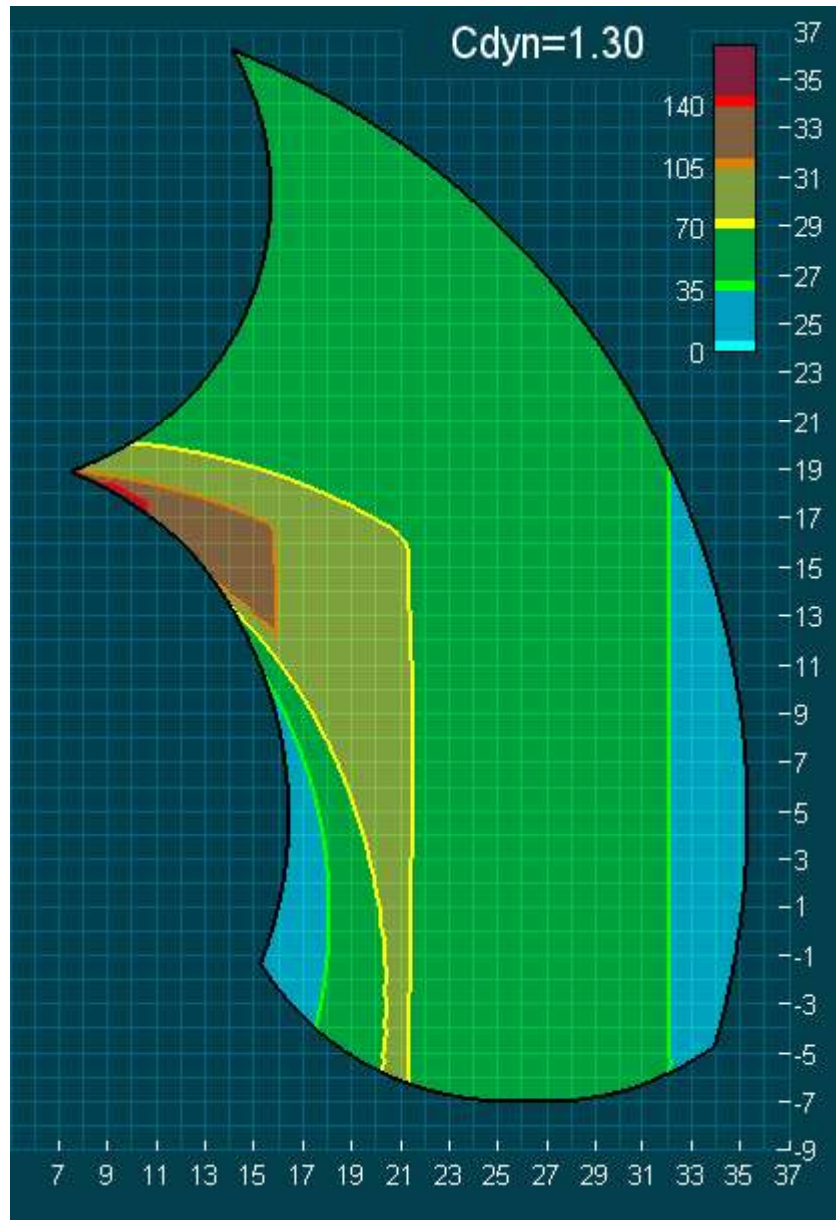
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
|-------------------------------|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 8,18 | 9,59 | 11,55 | 14,28 | 18,15 | 23,87 | 32,86 | 48,66 | 82,71 | 140 | 140 | 140 | 140 | 140 |
| 8,33 | 20,65 | 23,74 | 28,04 | 34,19 | 43,36 | 58,07 | 84,75 | 121,31 | 127,79 | 135,56 | 140 | 106,44 | 83,99 | 79,76 |
| 16,65 | 34,43 | 40,29 | 48,71 | 61,43 | 82,27 | 101,95 | 105,19 | 110,06 | 116,48 | 124,35 | 100,97 | 80,34 | 66,97 | 64,36 |
| 24,98 | 50,69 | 61,33 | 77,61 | 90,22 | 89,61 | 90,85 | 93,92 | 98,76 | 105,32 | 96,05 | 77 | 64,72 | 56,23 | 54,52 |
| 33,31 | 71,91 | 87,12 | 82,27 | 79,66 | 79,17 | 79,76 | 82,64 | 87,66 | 90,91 | 73,95 | 62,64 | 54,76 | 49,14 | 48,01 |
| 41,63 | 69,16 | 78,17 | 75,3 | 73,58 | 73,03 | 73,65 | 75,43 | 78,36 | 71,15 | 60,71 | 53,39 | 48,17 | 44,44 | 43,7 |
| 49,96 | 63,27 | 72,16 | 69,2 | 67,44 | 66,93 | 67,68 | 69,69 | 68,57 | 58,92 | 52,12 | 47,26 | 43,8 | 41,43 | 40,98 |
| 58,29 | 58,14 | 65,82 | 63,07 | 61,36 | 61,01 | 61,99 | 64,32 | 57,26 | 50,94 | 46,41 | 43,21 | 41,04 | 39,73 | 39,53 |
| 66,61 | 53,71 | 59,95 | 57,02 | 55,48 | 55,38 | 56,7 | 55,72 | 49,84 | 45,63 | 42,67 | 40,69 | 39,55 | 39,15 | 39,16 |
| 74,94 | 49,93 | 53,93 | 51,18 | 49,92 | 50,17 | 51,92 | 48,81 | 44,9 | 42,17 | 40,38 | 39,41 | 39,16 | 39,21 | 39,16 |
| 83,27 | 46,74 | 48,15 | 45,83 | 45,34 | 45,72 | 47,74 | 44,22 | 41,71 | 40,11 | 39,29 | 39,2 | 39,16 | 39,37 | 39,53 |
| 91,59 | 43,94 | 44,21 | 43,08 | 42,84 | 43,5 | 43,6 | 41,3 | 39,87 | 39,21 | 39,27 | 39,15 | 39,5 | 40,58 | 40,97 |
| 99,92 | 41,57 | 41,51 | 40,63 | 40,68 | 41,67 | 40,92 | 39,67 | 39,16 | 39,37 | 39,17 | 39,67 | 40,91 | 42,97 | 43,62 |
| 102 | 41,05 | 40,88 | 40,07 | 40,21 | 41,27 | 40,46 | 39,44 | 39,15 | 39,23 | 39,24 | 39,97 | 41,44 | 43,77 | 44,51 |

Operational limits:

| | |
|--------------------------|-----------------|
| Dynamic factor: | 1.3 |
| Maximum rated load: | 140.0 [t] |
| Load on maximum outreach | 40.0 [t] |
| Maximum wind velocity: | 25 [m/s] |
| Maximum trim: | 2 [deg] |
| Maximum heel: | 5 [deg] |
| Ice and snow: | No ice and snow |



2.6 $C_{dyn} = 1.30$ - Sea and Sub-sea lift





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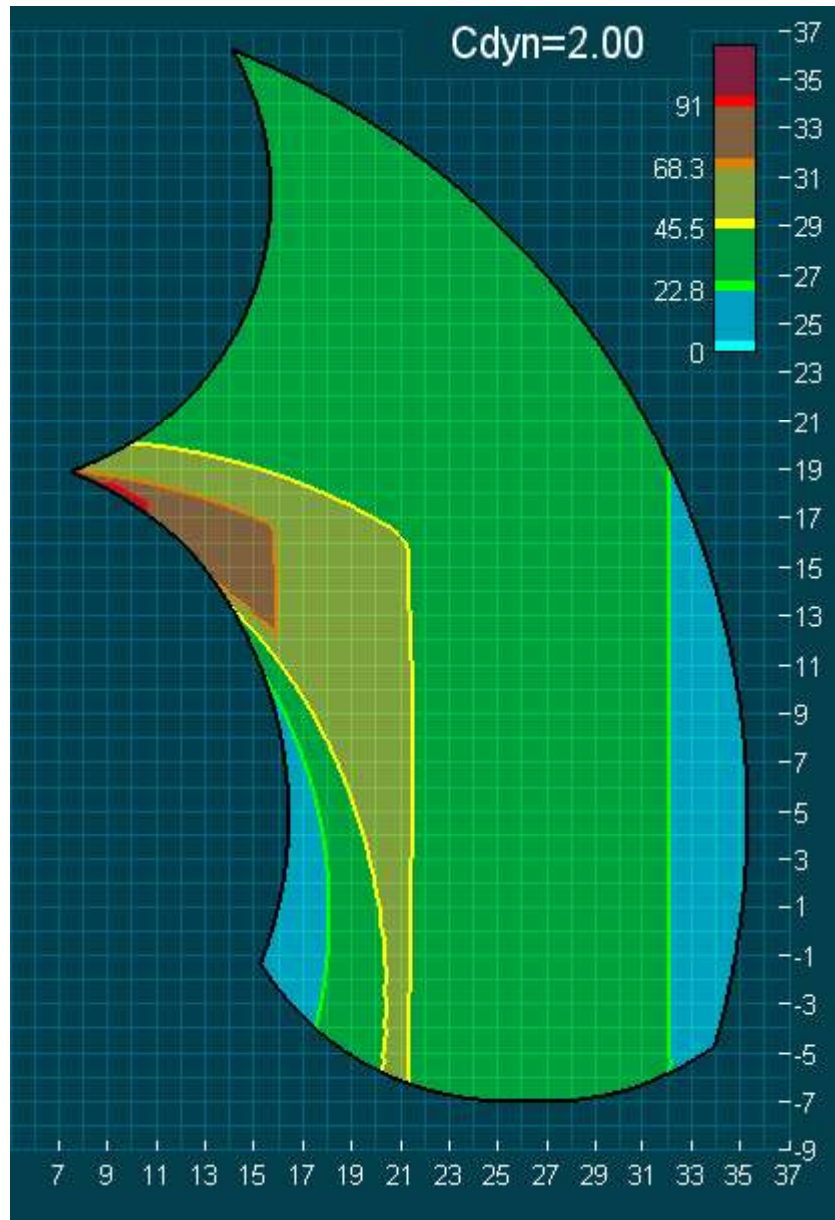
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
|----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 8,18 | 9,59 | 11,55 | 14,28 | 18,15 | 23,87 | 32,86 | 48,66 | 82,71 | 126,02 | 134,89 | 140 | 140 | 140 |
| 8,33 | 20,65 | 23,74 | 28,04 | 34,19 | 43,36 | 58,07 | 84,75 | 100,52 | 106,98 | 114,73 | 123,67 | 106,44 | 83,99 | 79,76 |
| 16,65 | 34,43 | 40,29 | 48,71 | 61,43 | 79,61 | 81,19 | 84,43 | 89,29 | 95,69 | 103,55 | 100,97 | 80,34 | 66,97 | 64,36 |
| 24,98 | 50,69 | 61,33 | 71,91 | 70,24 | 69,93 | 70,55 | 73,17 | 78,01 | 84,56 | 92,72 | 77 | 64,72 | 56,23 | 54,52 |
| 33,31 | 71,91 | 68,68 | 66,25 | 64,79 | 64,34 | 64,89 | 66,43 | 68,95 | 73,81 | 73,95 | 62,64 | 54,76 | 49,14 | 48,01 |
| 41,63 | 67,08 | 63,42 | 60,77 | 59,18 | 58,66 | 59,24 | 60,89 | 63,59 | 67,31 | 60,71 | 53,39 | 48,17 | 44,44 | 43,7 |
| 49,96 | 61,77 | 57,9 | 55,13 | 53,5 | 53,03 | 53,73 | 55,58 | 58,56 | 58,92 | 52,12 | 47,26 | 43,8 | 41,43 | 40,98 |
| 58,29 | 56,22 | 52,25 | 49,46 | 47,89 | 47,56 | 48,47 | 50,62 | 53,96 | 50,94 | 46,41 | 43,21 | 41,04 | 39,73 | 39,53 |
| 66,61 | 50,55 | 46,58 | 43,87 | 42,45 | 42,36 | 43,58 | 46,1 | 49,84 | 45,63 | 42,67 | 40,69 | 39,55 | 39,15 | 39,16 |
| 74,94 | 44,9 | 41,02 | 38,48 | 37,32 | 37,54 | 39,16 | 42,14 | 44,9 | 42,17 | 40,38 | 39,41 | 39,16 | 39,21 | 39,16 |
| 83,27 | 39,36 | 35,68 | 34,3 | 33,94 | 34,22 | 35,3 | 38,8 | 41,71 | 40,11 | 39,29 | 39,2 | 39,16 | 39,37 | 39,53 |
| 91,59 | 34,59 | 33,11 | 32,27 | 32,09 | 32,58 | 33,72 | 36,16 | 39,87 | 39,21 | 39,27 | 39,15 | 39,5 | 40,58 | 40,97 |
| 99,92 | 32,44 | 31,11 | 30,47 | 30,5 | 31,23 | 32,63 | 34,69 | 39,16 | 39,37 | 39,17 | 39,67 | 40,91 | 42,97 | 43,62 |
| 102 | 31,93 | 30,65 | 30,05 | 30,15 | 30,94 | 32,41 | 34,54 | 39,15 | 39,23 | 39,24 | 39,97 | 41,44 | 43,77 | 44,51 |

Operational limits:

Dynamic factor: 1.30
Maximum rated load: 140.0 [t]
Load on maximum outreach: 30.0 [t]
Maximum wind velocity: 25 [m/s]
Maximum trim: 2 [deg]
Maximum heel: 5 [deg]
Ice and snow: No ice and snow



2.7 $C_{dyn} = 2.00$ – Sea and Sub-sea lift





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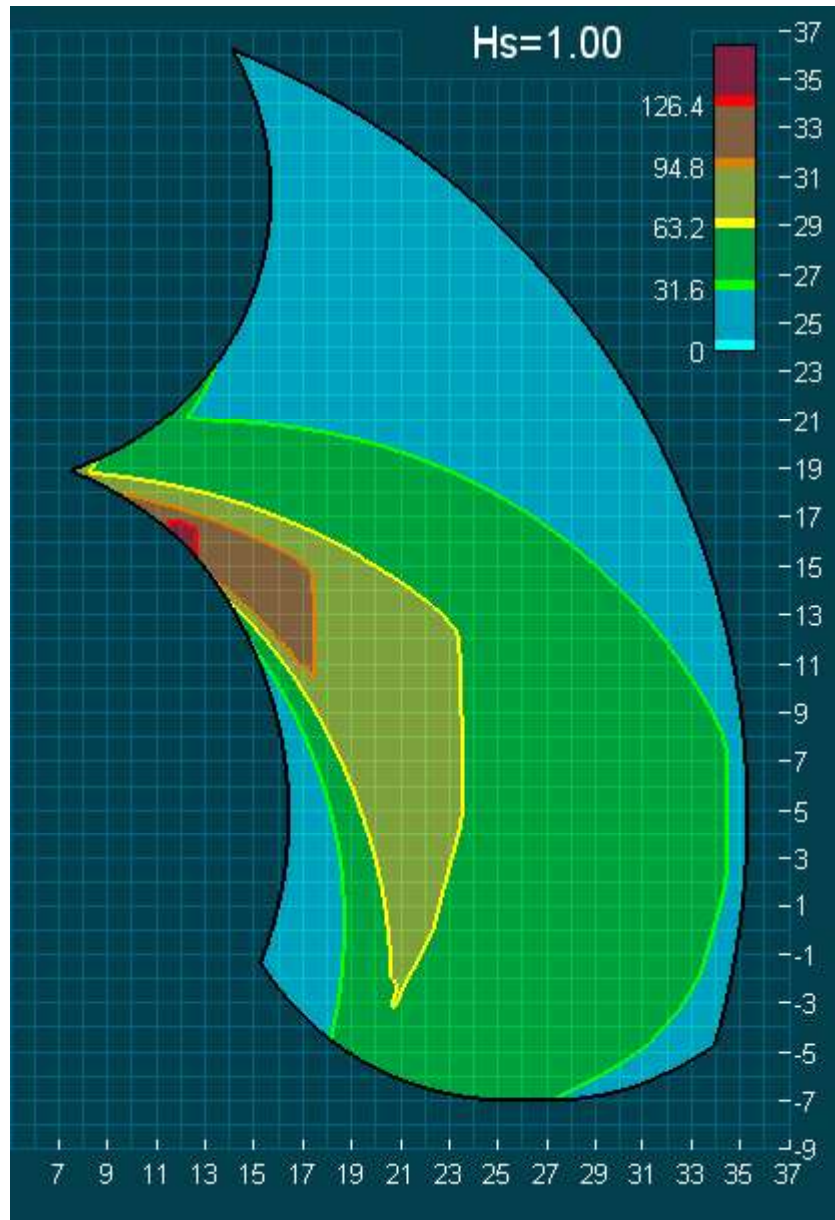
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
|-------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 5,32 | 6,23 | 7,5 | 9,28 | 11,8 | 15,51 | 21,36 | 31,63 | 53,76 | 81,91 | 87,68 | 91 | 91 | 91 |
| 8,33 | 13,42 | 15,43 | 18,23 | 22,22 | 28,19 | 37,74 | 55,09 | 65,34 | 69,54 | 74,58 | 80,39 | 69,19 | 54,59 | 51,84 |
| 16,65 | 22,38 | 26,19 | 31,66 | 39,93 | 51,75 | 52,77 | 54,88 | 58,04 | 62,2 | 67,31 | 65,63 | 52,22 | 43,53 | 41,83 |
| 24,98 | 32,95 | 39,86 | 46,74 | 45,65 | 45,46 | 45,86 | 47,56 | 50,71 | 54,96 | 60,27 | 50,05 | 42,07 | 36,55 | 35,44 |
| 33,31 | 46,74 | 44,64 | 43,06 | 42,12 | 41,82 | 42,18 | 43,18 | 44,82 | 47,97 | 48,07 | 40,71 | 35,59 | 31,94 | 31,21 |
| 41,63 | 43,6 | 41,22 | 39,5 | 38,47 | 38,13 | 38,5 | 39,58 | 41,34 | 43,75 | 39,46 | 34,7 | 31,31 | 28,89 | 28,4 |
| 49,96 | 40,15 | 37,64 | 35,84 | 34,78 | 34,47 | 34,92 | 36,13 | 38,06 | 38,3 | 33,88 | 30,72 | 28,47 | 26,93 | 26,64 |
| 58,29 | 36,54 | 33,96 | 32,15 | 31,13 | 30,91 | 31,51 | 32,9 | 35,08 | 33,11 | 30,17 | 28,09 | 26,68 | 25,83 | 25,69 |
| 66,61 | 32,86 | 30,28 | 28,52 | 27,6 | 27,53 | 28,33 | 29,97 | 32,39 | 29,66 | 27,73 | 26,45 | 25,71 | 25,45 | 25,45 |
| 74,94 | 29,18 | 26,66 | 25,01 | 24,25 | 24,4 | 25,45 | 27,39 | 29,18 | 27,41 | 26,25 | 25,61 | 25,45 | 25,49 | 25,45 |
| 83,27 | 25,59 | 23,19 | 22,3 | 22,06 | 22,24 | 22,94 | 25,22 | 27,11 | 26,07 | 25,54 | 25,48 | 25,46 | 25,59 | 25,69 |
| 91,59 | 22,49 | 21,52 | 20,98 | 20,86 | 21,18 | 21,92 | 23,51 | 25,92 | 25,49 | 25,52 | 25,45 | 25,68 | 26,38 | 26,63 |
| 99,92 | 21,09 | 20,22 | 19,8 | 19,83 | 20,3 | 21,21 | 22,55 | 25,46 | 25,59 | 25,46 | 25,79 | 26,59 | 27,93 | 28,36 |
| 102 | 20,75 | 19,92 | 19,54 | 19,6 | 20,11 | 21,07 | 22,45 | 25,45 | 25,5 | 25,51 | 25,98 | 26,94 | 28,45 | 28,93 |

Operational limits:

| | | |
|---------------------------------|------------------------|--------------|
| Dynamic factor: | 2.00 | |
| Maximum rated load: | 91.0 | [t] |
| Load on maximum outreach | 19.5 | [t] |
| Maximum wind velocity: | 25 | [m/s] |
| Maximum trim: | 2 | [deg] |
| Maximum heel: | 5 | [deg] |
| Ice and snow: | No ice and snow | |



2.8 $H_s = 1.00$ [m] – Ship to ship lift





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

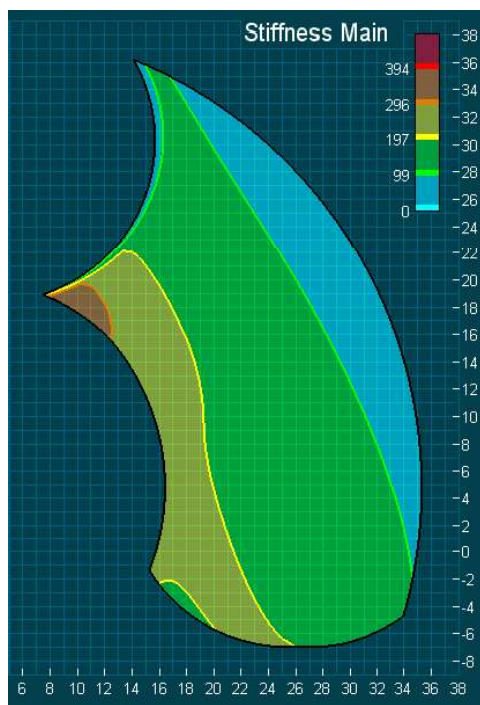
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Rev 01

| SWL [t] | | | | | | | | | | | | | | |
|-------------------------|----------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 1,4 | 0,5 | 1,4 | 3,96 | 7,58 | 12,56 | 20,51 | 35,04 | 68,33 | 126,02 | 124,29 | 102,39 | 67,8 | 80,91 |
| 8,33 | 10,94 | 13,47 | 16,96 | 21,93 | 30,42 | 45,12 | 72,56 | 100,52 | 106,98 | 114,73 | 98,34 | 66,23 | 47,93 | 59,91 |
| 16,65 | 23,98 | 29,15 | 36,6 | 48,17 | 70,43 | 80,79 | 84,43 | 89,29 | 95,69 | 94,13 | 65,68 | 47,81 | 37,13 | 47,6 |
| 24,98 | 39,98 | 49,97 | 65,5 | 69,81 | 69,93 | 70,55 | 73,17 | 78,01 | 84,56 | 64,53 | 48,03 | 37,44 | 30,72 | 39,81 |
| 33,31 | 49,04 | 58,83 | 61,17 | 62,68 | 64,34 | 64,89 | 66,43 | 68,95 | 62,35 | 47,71 | 37,98 | 31,16 | 26,71 | 33,52 |
| 41,63 | 43,24 | 52,24 | 54,25 | 55,58 | 57,91 | 59,24 | 60,89 | 60,21 | 46,97 | 38,08 | 31,8 | 27,21 | 24,21 | 29,04 |
| 49,96 | 38,29 | 46,56 | 48,43 | 49,55 | 51,84 | 53,73 | 55,58 | 45,97 | 37,86 | 32,1 | 27,89 | 24,76 | 22,76 | 26,19 |
| 58,29 | 34,3 | 41,76 | 43,76 | 44,65 | 47,09 | 48,47 | 44,8 | 37,41 | 32,16 | 28,32 | 25,48 | 23,37 | 22,14 | 24,49 |
| 66,61 | 31,13 | 37,99 | 39,62 | 40,81 | 42,36 | 43,54 | 36,83 | 32,04 | 28,56 | 26,01 | 24,15 | 22,84 | 22,26 | 23,69 |
| 74,94 | 28,69 | 35,11 | 36,57 | 37,32 | 37,54 | 36,16 | 31,82 | 28,67 | 26,4 | 24,79 | 23,71 | 23,08 | 23,09 | 23,68 |
| 83,27 | 26,92 | 32,92 | 34,02 | 33,94 | 34,22 | 31,54 | 28,71 | 26,7 | 25,33 | 24,48 | 24,08 | 24,08 | 24,41 | 24,43 |
| 91,59 | 25,67 | 31,35 | 32,18 | 32,09 | 31,25 | 28,73 | 26,97 | 25,82 | 25,19 | 25,02 | 25,27 | 25,36 | 25,83 | 26 |
| 99,92 | 24,96 | 30,11 | 30,47 | 30,5 | 28,77 | 27,24 | 26,3 | 25,88 | 25,92 | 26,02 | 26,28 | 27,01 | 28,2 | 28,56 |
| 102 | 24,86 | 29,87 | 30,05 | 30,15 | 28,37 | 27,05 | 26,29 | 26,04 | 26,25 | 26,24 | 26,67 | 27,58 | 28,97 | 29,39 |
| Dynamic factor | | | | | | | | | | | | | | |
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 5,21 | 1,3 | 5,32 | 3,14 | 2,55 | 2,21 | 1,96 | 1,76 | 1,56 | 1,44 | 1,46 | 1,54 | 1,68 | 1,33 |
| 8,33 | 2,2 | 2,11 | 2,02 | 1,91 | 1,76 | 1,62 | 1,49 | 1,43 | 1,43 | 1,43 | 1,49 | 1,63 | 1,75 | 1,34 |
| 16,65 | 1,81 | 1,76 | 1,7 | 1,59 | 1,48 | 1,45 | 1,44 | 1,44 | 1,43 | 1,45 | 1,56 | 1,68 | 1,77 | 1,35 |
| 24,98 | 1,63 | 1,58 | 1,51 | 1,47 | 1,46 | 1,46 | 1,45 | 1,44 | 1,43 | 1,51 | 1,6 | 1,7 | 1,78 | 1,36 |
| 33,31 | 1,57 | 1,54 | 1,51 | 1,48 | 1,47 | 1,46 | 1,45 | 1,45 | 1,47 | 1,55 | 1,62 | 1,71 | 1,77 | 1,37 |
| 41,63 | 1,62 | 1,55 | 1,52 | 1,5 | 1,48 | 1,46 | 1,45 | 1,45 | 1,51 | 1,57 | 1,64 | 1,7 | 1,75 | 1,37 |
| 49,96 | 1,66 | 1,57 | 1,53 | 1,51 | 1,48 | 1,46 | 1,45 | 1,49 | 1,53 | 1,58 | 1,63 | 1,69 | 1,72 | 1,38 |
| 58,29 | 1,69 | 1,59 | 1,54 | 1,52 | 1,48 | 1,46 | 1,47 | 1,51 | 1,55 | 1,58 | 1,62 | 1,67 | 1,7 | 1,38 |
| 66,61 | 1,71 | 1,6 | 1,55 | 1,51 | 1,48 | 1,46 | 1,49 | 1,52 | 1,55 | 1,58 | 1,61 | 1,64 | 1,67 | 1,38 |
| 74,94 | 1,71 | 1,59 | 1,54 | 1,51 | 1,48 | 1,48 | 1,5 | 1,52 | 1,54 | 1,56 | 1,59 | 1,62 | 1,63 | 1,38 |
| 83,27 | 1,7 | 1,58 | 1,53 | 1,5 | 1,48 | 1,48 | 1,49 | 1,51 | 1,52 | 1,54 | 1,56 | 1,58 | 1,6 | 1,38 |
| 91,59 | 1,67 | 1,55 | 1,51 | 1,48 | 1,47 | 1,47 | 1,48 | 1,49 | 1,5 | 1,51 | 1,52 | 1,55 | 1,58 | 1,37 |
| 99,92 | 1,62 | 1,52 | 1,48 | 1,45 | 1,45 | 1,45 | 1,45 | 1,46 | 1,46 | 1,48 | 1,5 | 1,52 | 1,55 | 1,36 |
| 102 | 1,61 | 1,51 | 1,47 | 1,45 | 1,44 | 1,44 | 1,45 | 1,45 | 1,46 | 1,47 | 1,49 | 1,52 | 1,54 | 1,36 |



Stiffness chart:



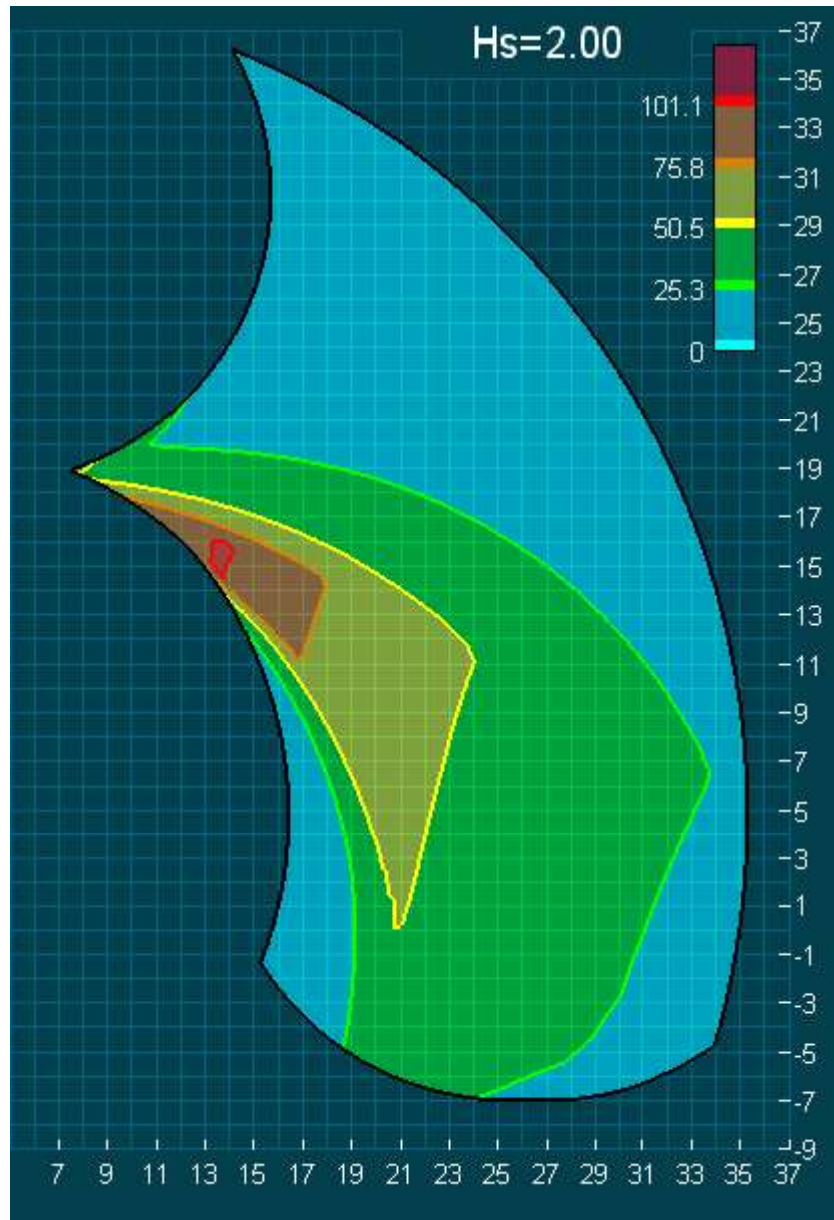
| Folding jib angle [deg] | Stiffness [t/m] | | | | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 214,77 | 220,3 | 225,62 | 220,51 | 219,72 | 223,14 | 231,03 | 243,99 | 263,08 | 289,82 | 324,56 | 366,82 | 380,67 | 106,39 |
| 8,33 | 191,63 | 201,38 | 215,04 | 220,02 | 213,23 | 211,65 | 215,13 | 224,17 | 239,17 | 258,83 | 283,99 | 314,4 | 324,11 | 85,85 |
| 16,65 | 189,07 | 201,33 | 217,7 | 205,75 | 197,84 | 195,32 | 198,12 | 204,98 | 214,73 | 227,91 | 245,18 | 264,61 | 268,42 | 71,34 |
| 24,98 | 191,34 | 205,55 | 204,04 | 190,44 | 183,11 | 181,24 | 182,33 | 185,52 | 191,07 | 199,41 | 209,48 | 222,55 | 223,91 | 61,4 |
| 33,31 | 195,34 | 209,05 | 189,08 | 177,15 | 171,24 | 167,79 | 166,25 | 166,68 | 168,93 | 173,01 | 179,65 | 188,94 | 189,71 | 54,39 |
| 41,63 | 199,27 | 194,09 | 176,89 | 166,85 | 159,3 | 153,88 | 150,48 | 148,68 | 148,65 | 150,78 | 155,4 | 162,7 | 163,93 | 49,4 |
| 49,96 | 200,96 | 182,99 | 167,66 | 155,75 | 146,64 | 139,96 | 135 | 132 | 131,02 | 132,24 | 135,96 | 142,42 | 144,68 | 45,88 |
| 58,29 | 197,05 | 174,2 | 156,81 | 143,59 | 133,63 | 125,86 | 120,43 | 117,13 | 115,93 | 116,95 | 120,48 | 126,83 | 130,42 | 43,51 |
| 66,61 | 188,48 | 162,91 | 144,36 | 130,67 | 120,01 | 112,36 | 107,12 | 104,06 | 103,11 | 104,37 | 108,16 | 114,89 | 120,01 | 42,07 |
| 74,94 | 175,75 | 149,19 | 130,4 | 116,67 | 106,73 | 99,72 | 95,11 | 92,64 | 92,23 | 94,02 | 98,36 | 105,78 | 112,62 | 41,47 |
| 83,27 | 159,14 | 133,08 | 115,28 | 102,79 | 94 | 88,01 | 84,31 | 82,63 | 82,95 | 85,43 | 90,52 | 98,9 | 107,66 | 41,65 |
| 91,59 | 138,79 | 115,35 | 99,84 | 89,21 | 81,95 | 77,22 | 74,57 | 73,8 | 74,93 | 78,22 | 84,21 | 93,78 | 104,73 | 42,64 |
| 99,92 | 116,37 | 97,12 | 84,59 | 76,18 | 70,63 | 67,24 | 65,69 | 65,86 | 67,86 | 72,03 | 79,05 | 90,06 | 103,56 | 44,53 |
| 102 | 110,66 | 92,59 | 80,86 | 73,03 | 67,91 | 64,86 | 63,58 | 63,99 | 66,2 | 70,6 | 77,9 | 89,31 | 103,53 | 45,16 |

Operational limits:

| | | |
|--------------------------|-----------------|-------|
| Dynamic factor: | for $H_s=1$ | [m] |
| Maximum rated load: | 126.4 | [t] |
| Load on maximum outreach | 30.0 | [t] |
| Maximum wind velocity: | 25 | [m/s] |
| Maximum trim: | 2 | [deg] |
| Maximum heel: | 5 | [deg] |
| Ice and snow: | No ice and snow | |



2.9 $H_s = 2.00$ [m] – Ship to ship lift





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

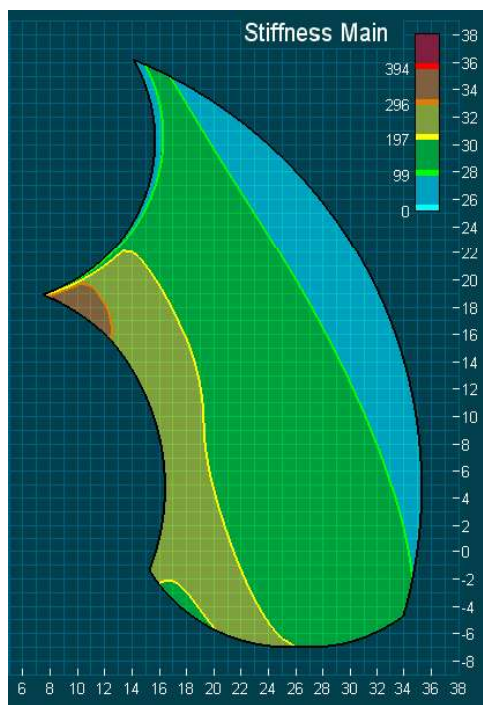
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Rev 01

| SWL [t] | | | | | | | | | | | | | | |
|-------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 1,4 | 1,4 | 0,5 | 1,4 | 1,4 | 4,85 | 11,14 | 22,33 | 48,98 | 98,42 | 95,07 | 74,57 | 46,15 | 65,39 |
| 8,33 | 3,8 | 5,99 | 8,64 | 12,3 | 18,85 | 30,68 | 53,38 | 79,02 | 87,94 | 99,74 | 73,44 | 46,11 | 31,34 | 47,84 |
| 16,65 | 14,51 | 18,44 | 24,1 | 33,03 | 51,78 | 60,81 | 65 | 70,81 | 78,56 | 71,67 | 47,19 | 32,21 | 23,68 | 35,9 |
| 24,98 | 27,36 | 35,25 | 47,62 | 51,37 | 52,69 | 55,15 | 58,86 | 64,04 | 69,23 | 47,46 | 33,49 | 24,65 | 19,29 | 27,32 |
| 33,31 | 34,65 | 42,42 | 44,57 | 45,92 | 48,04 | 50,22 | 53,65 | 58,73 | 46,55 | 34,1 | 25,92 | 20,21 | 16,64 | 22,31 |
| 41,63 | 29,79 | 37,33 | 39,31 | 40,43 | 42,7 | 46,02 | 49,55 | 45,41 | 34,16 | 26,66 | 21,38 | 17,5 | 15,06 | 19,22 |
| 49,96 | 25,74 | 32,9 | 34,79 | 35,71 | 37,94 | 41,72 | 43,95 | 33,82 | 27 | 22,16 | 18,59 | 15,9 | 14,23 | 17,31 |
| 58,29 | 22,59 | 29,14 | 30,81 | 31,92 | 34,32 | 38,23 | 33,2 | 27,03 | 22,63 | 19,39 | 16,95 | 15,08 | 14 | 16,25 |
| 66,61 | 20,19 | 26,29 | 27,67 | 29,07 | 31,67 | 32,4 | 26,84 | 22,87 | 19,96 | 17,79 | 16,14 | 14,9 | 14,3 | 15,85 |
| 74,94 | 18,46 | 24,24 | 25,47 | 27,01 | 29,57 | 26,52 | 22,96 | 20,37 | 18,45 | 17,05 | 16,02 | 15,31 | 15,15 | 16,05 |
| 83,27 | 17,33 | 22,82 | 23,75 | 25,47 | 26,12 | 22,96 | 20,67 | 19,01 | 17,83 | 17,03 | 16,55 | 16,32 | 16,61 | 16,85 |
| 91,59 | 16,71 | 21,58 | 22,67 | 24,53 | 22,93 | 20,93 | 19,51 | 18,55 | 17,97 | 17,71 | 17,74 | 18,02 | 18,24 | 18,32 |
| 99,92 | 16,62 | 20,96 | 22,18 | 22,94 | 21,21 | 20,02 | 19,27 | 18,89 | 18,85 | 19,07 | 19,2 | 19,65 | 20,38 | 20,61 |
| 102 | 16,67 | 20,9 | 22,14 | 22,48 | 20,97 | 19,94 | 19,34 | 19,1 | 19,2 | 19,32 | 19,59 | 20,18 | 21,07 | 21,33 |
| Dynamic factor | | | | | | | | | | | | | | |
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 8,25 | 8,35 | 1,3 | 8,35 | 8,34 | 4,36 | 3,25 | 2,64 | 2,15 | 1,85 | 1,91 | 2,1 | 2,42 | 1,63 |
| 8,33 | 4,51 | 3,87 | 3,47 | 3,09 | 2,66 | 2,3 | 1,99 | 1,83 | 1,82 | 1,8 | 1,97 | 2,29 | 2,59 | 1,66 |
| 16,65 | 2,79 | 2,64 | 2,49 | 2,24 | 1,97 | 1,89 | 1,86 | 1,84 | 1,82 | 1,88 | 2,13 | 2,42 | 2,67 | 1,7 |
| 24,98 | 2,31 | 2,2 | 2,02 | 1,95 | 1,92 | 1,9 | 1,87 | 1,84 | 1,82 | 2,01 | 2,24 | 2,49 | 2,69 | 1,74 |
| 33,31 | 2,18 | 2,1 | 2,02 | 1,97 | 1,93 | 1,9 | 1,87 | 1,83 | 1,94 | 2,11 | 2,3 | 2,51 | 2,67 | 1,77 |
| 41,63 | 2,28 | 2,13 | 2,05 | 2,01 | 1,96 | 1,9 | 1,86 | 1,9 | 2,03 | 2,18 | 2,33 | 2,51 | 2,63 | 1,79 |
| 49,96 | 2,38 | 2,17 | 2,09 | 2,03 | 1,97 | 1,91 | 1,87 | 1,98 | 2,09 | 2,21 | 2,34 | 2,48 | 2,58 | 1,81 |
| 58,29 | 2,46 | 2,21 | 2,12 | 2,05 | 1,98 | 1,9 | 1,94 | 2,03 | 2,12 | 2,22 | 2,32 | 2,44 | 2,51 | 1,81 |
| 66,61 | 2,51 | 2,23 | 2,13 | 2,05 | 1,96 | 1,92 | 1,99 | 2,06 | 2,12 | 2,2 | 2,28 | 2,37 | 2,43 | 1,81 |
| 74,94 | 2,53 | 2,23 | 2,12 | 2,03 | 1,94 | 1,96 | 2,01 | 2,06 | 2,11 | 2,16 | 2,23 | 2,3 | 2,35 | 1,8 |
| 83,27 | 2,5 | 2,2 | 2,09 | 1,99 | 1,94 | 1,97 | 2 | 2,03 | 2,07 | 2,11 | 2,16 | 2,22 | 2,26 | 1,78 |
| 91,59 | 2,43 | 2,14 | 2,04 | 1,94 | 1,94 | 1,95 | 1,97 | 1,99 | 2,01 | 2,04 | 2,08 | 2,13 | 2,19 | 1,75 |
| 99,92 | 2,31 | 2,07 | 1,97 | 1,9 | 1,9 | 1,91 | 1,91 | 1,92 | 1,94 | 1,96 | 2 | 2,06 | 2,12 | 1,73 |
| 102 | 2,27 | 2,04 | 1,95 | 1,89 | 1,89 | 1,89 | 1,9 | 1,91 | 1,92 | 1,95 | 1,99 | 2,04 | 2,1 | 1,72 |



Stiffness chart:

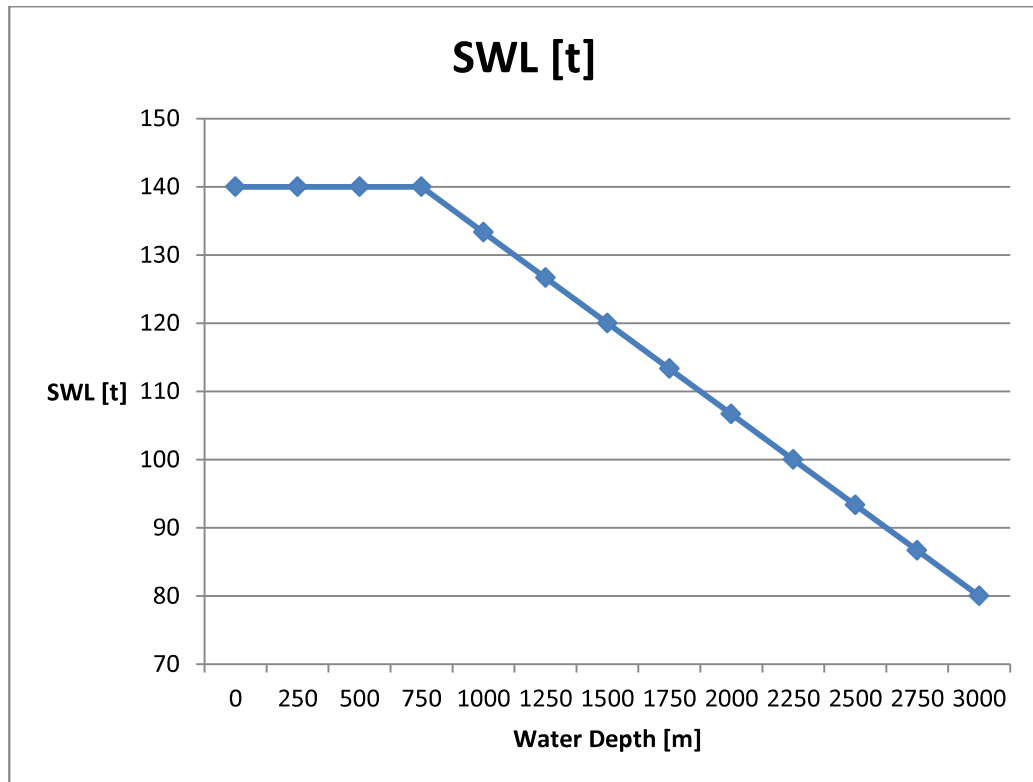


| Folding jib angle [deg] | Stiffness [t/m] | | | | | | | | | | | | | |
|-------------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 214,77 | 220,3 | 225,62 | 220,51 | 219,72 | 223,14 | 231,03 | 243,99 | 263,08 | 289,82 | 324,56 | 366,82 | 380,67 | 106,39 |
| 8,33 | 191,63 | 201,38 | 215,04 | 220,02 | 213,23 | 211,65 | 215,13 | 224,17 | 239,17 | 258,83 | 283,99 | 314,4 | 324,11 | 85,85 |
| 16,65 | 189,07 | 201,33 | 217,7 | 205,75 | 197,84 | 195,32 | 198,12 | 204,98 | 214,73 | 227,91 | 245,18 | 264,61 | 268,42 | 71,34 |
| 24,98 | 191,34 | 205,55 | 204,04 | 190,44 | 183,11 | 181,24 | 182,33 | 185,52 | 191,07 | 199,41 | 209,48 | 222,55 | 223,91 | 61,4 |
| 33,31 | 195,34 | 209,05 | 189,08 | 177,15 | 171,24 | 167,79 | 166,25 | 166,68 | 168,93 | 173,01 | 179,65 | 188,94 | 189,71 | 54,39 |
| 41,63 | 199,27 | 194,09 | 176,89 | 166,85 | 159,3 | 153,88 | 150,48 | 148,68 | 148,65 | 150,78 | 155,4 | 162,7 | 163,93 | 49,4 |
| 49,96 | 200,96 | 182,99 | 167,66 | 155,75 | 146,64 | 139,96 | 135 | 132 | 131,02 | 132,24 | 135,96 | 142,42 | 144,68 | 45,88 |
| 58,29 | 197,05 | 174,2 | 156,81 | 143,59 | 133,63 | 125,86 | 120,43 | 117,13 | 115,93 | 116,95 | 120,48 | 126,83 | 130,42 | 43,51 |
| 66,61 | 188,48 | 162,91 | 144,36 | 130,67 | 120,01 | 112,36 | 107,12 | 104,06 | 103,11 | 104,37 | 108,16 | 114,89 | 120,01 | 42,07 |
| 74,94 | 175,75 | 149,19 | 130,4 | 116,67 | 106,73 | 99,72 | 95,11 | 92,64 | 92,23 | 94,02 | 98,36 | 105,78 | 112,62 | 41,47 |
| 83,27 | 159,14 | 133,08 | 115,28 | 102,79 | 94 | 88,01 | 84,31 | 82,63 | 82,95 | 85,43 | 90,52 | 98,9 | 107,66 | 41,65 |
| 91,59 | 138,79 | 115,35 | 99,84 | 89,21 | 81,95 | 77,22 | 74,57 | 73,8 | 74,93 | 78,22 | 84,21 | 93,78 | 104,73 | 42,64 |
| 99,92 | 116,37 | 97,12 | 84,59 | 76,18 | 70,63 | 67,24 | 65,69 | 65,86 | 67,86 | 72,03 | 79,05 | 90,06 | 103,56 | 44,53 |
| 102 | 110,66 | 92,59 | 80,86 | 73,03 | 67,91 | 64,86 | 63,58 | 63,99 | 66,2 | 70,6 | 77,9 | 89,31 | 103,53 | 45,16 |

Dynamic factor: for Hs=2 [m]
Maximum rated load: 101.1 [t]
Load on maximum outreach 23.0 [t]
Maximum wind velocity: 25 [m/s]
Maximum trim: 2 [deg]
Maximum heel: 5 [deg]
Ice and snow: No ice and snow



2.10 Subsea de-rating – Main Winch





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

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Rev 01

3 Auxiliary winch load charts

3.1 General

Operational limits:

| | |
|------------------------|-----------------|
| Maximum wind velocity: | 25 [m/s] |
| Maximum trim: | 2 [deg] |
| Maximum heel: | 5 [deg] |
| Ice and snow: | No ice and snow |

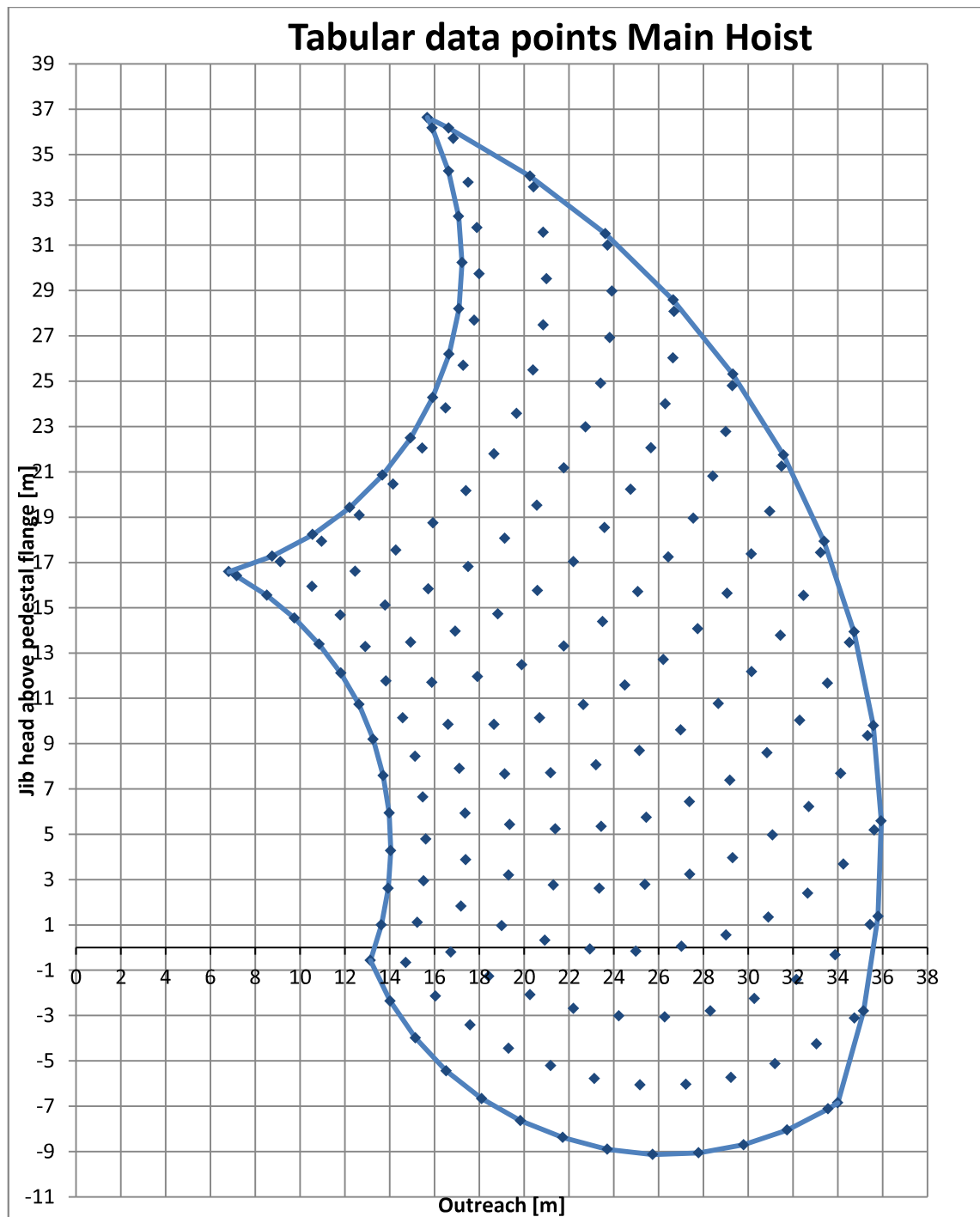
3.2 Boom tip range

The height is defined as the vertical distance from the center of slewing ring to the boom tip (main deck 6000 [mm] below slew bearing). The radius is defined as the horizontal distance from the center of the slew bearing to the boom tip.

| | |
|---------|---------------------|
| Radius: | ~6.8 [m] – 36.0 [m] |
| Height: | ~9.0 [m] – 36.6 [m] |

3.3 Tabular data description

Tabular data of SWL's was presented in a form of a 14x14 matrix. Even increments of main and folding jib angles were defined. The tabular data covers entire load chart. For ship to ship mode dynamic factors are also presented





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

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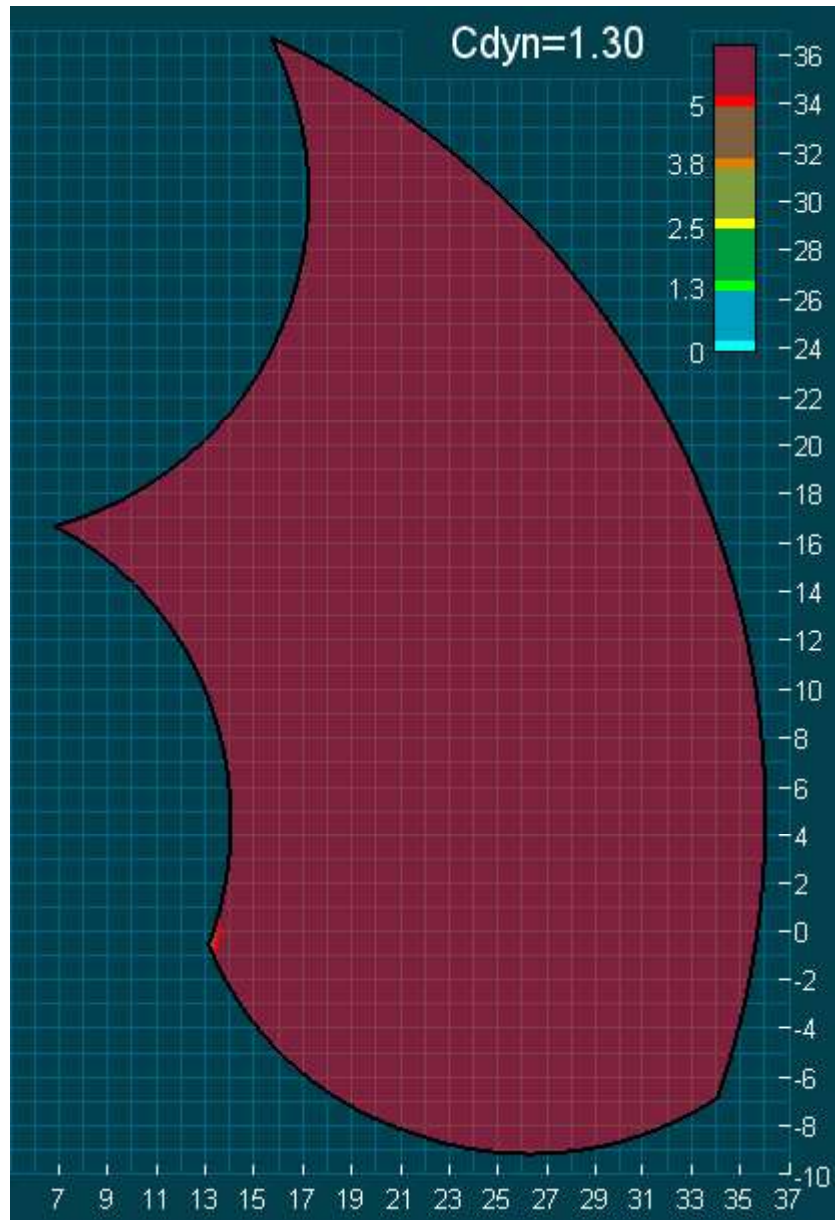
Rev 01

| Outreach from slewing center [m] | | | | | | | | | | | | | | |
|----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Folding Jib angle [deg] | Main Jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 13,14 | 13,63 | 13,94 | 14,05 | 13,98 | 13,71 | 13,26 | 12,63 | 11,82 | 10,86 | 9,75 | 8,52 | 7,17 | 6,82 |
| 8,33 | 14,02 | 14,72 | 15,23 | 15,52 | 15,61 | 15,48 | 15,14 | 14,59 | 13,84 | 12,91 | 11,8 | 10,53 | 9,12 | 8,75 |
| 16,65 | 15,15 | 16,05 | 16,73 | 17,18 | 17,4 | 17,37 | 17,11 | 16,61 | 15,89 | 14,94 | 13,8 | 12,46 | 10,96 | 10,56 |
| 24,98 | 16,52 | 17,59 | 18,42 | 19 | 19,31 | 19,36 | 19,14 | 18,66 | 17,92 | 16,93 | 15,72 | 14,28 | 12,65 | 12,22 |
| 33,31 | 18,1 | 19,31 | 20,26 | 20,93 | 21,31 | 21,4 | 21,19 | 20,69 | 19,9 | 18,83 | 17,51 | 15,94 | 14,16 | 13,68 |
| 41,63 | 19,84 | 21,18 | 22,21 | 22,94 | 23,36 | 23,44 | 23,21 | 22,65 | 21,77 | 20,6 | 19,14 | 17,41 | 15,45 | 14,93 |
| 49,96 | 21,73 | 23,14 | 24,23 | 24,99 | 25,4 | 25,45 | 25,15 | 24,5 | 23,51 | 22,2 | 20,57 | 18,66 | 16,5 | 15,92 |
| 58,29 | 23,71 | 25,17 | 26,28 | 27,03 | 27,4 | 27,38 | 26,99 | 26,22 | 25,08 | 23,59 | 21,78 | 19,67 | 17,28 | 16,65 |
| 66,61 | 25,74 | 27,22 | 28,31 | 29,01 | 29,31 | 29,19 | 28,67 | 27,75 | 26,44 | 24,76 | 22,74 | 20,4 | 17,78 | 17,09 |
| 74,94 | 27,79 | 29,24 | 30,28 | 30,9 | 31,09 | 30,84 | 30,16 | 29,06 | 27,56 | 25,67 | 23,42 | 20,85 | 17,99 | 17,23 |
| 83,27 | 29,8 | 31,2 | 32,15 | 32,66 | 32,71 | 32,3 | 31,44 | 30,14 | 28,42 | 26,3 | 23,82 | 21 | 17,9 | 17,08 |
| 91,59 | 31,74 | 33,05 | 33,88 | 34,25 | 34,13 | 33,54 | 32,47 | 30,96 | 29 | 26,65 | 23,92 | 20,86 | 17,51 | 16,63 |
| 99,92 | 33,57 | 34,75 | 35,44 | 35,63 | 35,33 | 34,53 | 33,24 | 31,49 | 29,3 | 26,7 | 23,72 | 20,42 | 16,84 | 15,9 |
| 102 | 34 | 35,15 | 35,8 | 35,94 | 35,59 | 34,73 | 33,39 | 31,58 | 29,32 | 26,66 | 23,63 | 20,27 | 16,63 | 15,68 |

| Height boom tip [m] | | | | | | | | | | | | | | |
|-------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Folding Jib angle [deg] | Main Jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | -0,57 | 1 | 2,62 | 4,28 | 5,94 | 7,59 | 9,19 | 10,73 | 12,11 | 13,38 | 14,54 | 15,55 | 16,4 | 16,59 |
| 8,33 | -2,36 | -0,66 | 1,11 | 2,94 | 4,79 | 6,64 | 8,44 | 10,14 | 11,76 | 13,28 | 14,67 | 15,93 | 17,02 | 17,27 |
| 16,65 | -3,99 | -2,14 | -0,2 | 1,82 | 3,88 | 5,92 | 7,9 | 9,84 | 11,7 | 13,47 | 15,11 | 16,6 | 17,92 | 18,22 |
| 24,98 | -5,44 | -3,41 | -1,27 | 0,96 | 3,2 | 5,43 | 7,66 | 9,84 | 11,95 | 13,95 | 15,82 | 17,54 | 19,07 | 19,42 |
| 33,31 | -6,66 | -4,44 | -2,08 | 0,32 | 2,76 | 5,24 | 7,71 | 10,13 | 12,48 | 14,72 | 16,81 | 18,73 | 20,45 | 20,85 |
| 41,63 | -7,64 | -5,21 | -2,69 | -0,07 | 2,62 | 5,34 | 8,06 | 10,72 | 13,3 | 15,75 | 18,05 | 20,16 | 22,04 | 22,48 |
| 49,96 | -8,38 | -5,78 | -3,02 | -0,16 | 2,78 | 5,74 | 8,69 | 11,58 | 14,38 | 17,03 | 19,51 | 21,78 | 23,8 | 24,27 |
| 58,29 | -8,9 | -6,06 | -3,06 | 0,05 | 3,23 | 6,43 | 9,6 | 12,71 | 15,7 | 18,53 | 21,16 | 23,56 | 25,69 | 26,18 |
| 66,61 | -9,13 | -6,04 | -2,8 | 0,55 | 3,96 | 7,38 | 10,77 | 14,06 | 17,23 | 20,21 | 22,97 | 25,48 | 27,68 | 28,18 |
| 74,94 | -9,06 | -5,73 | -2,25 | 1,34 | 4,97 | 8,59 | 12,17 | 15,63 | 18,94 | 22,05 | 24,9 | 27,47 | 29,72 | 30,22 |
| 83,27 | -8,7 | -5,13 | -1,41 | 2,39 | 6,22 | 10,03 | 13,77 | 17,37 | 20,8 | 23,99 | 26,91 | 29,51 | 31,76 | 32,26 |
| 91,59 | -8,05 | -4,25 | -0,32 | 3,68 | 7,69 | 11,66 | 15,53 | 19,25 | 22,76 | 26,01 | 28,96 | 31,56 | 33,77 | 34,26 |
| 99,92 | -7,12 | -3,11 | 1,01 | 5,19 | 9,35 | 13,46 | 17,43 | 21,23 | 24,79 | 28,06 | 30,99 | 33,56 | 35,7 | 36,17 |
| 102 | -6,85 | -2,79 | 1,38 | 5,59 | 9,8 | 13,93 | 17,92 | 21,73 | 25,3 | 28,57 | 31,5 | 34,04 | 36,17 | 36,63 |



3.4 $C_{dyn} = 1.30$ –Harbour, Deck and Sea lift





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

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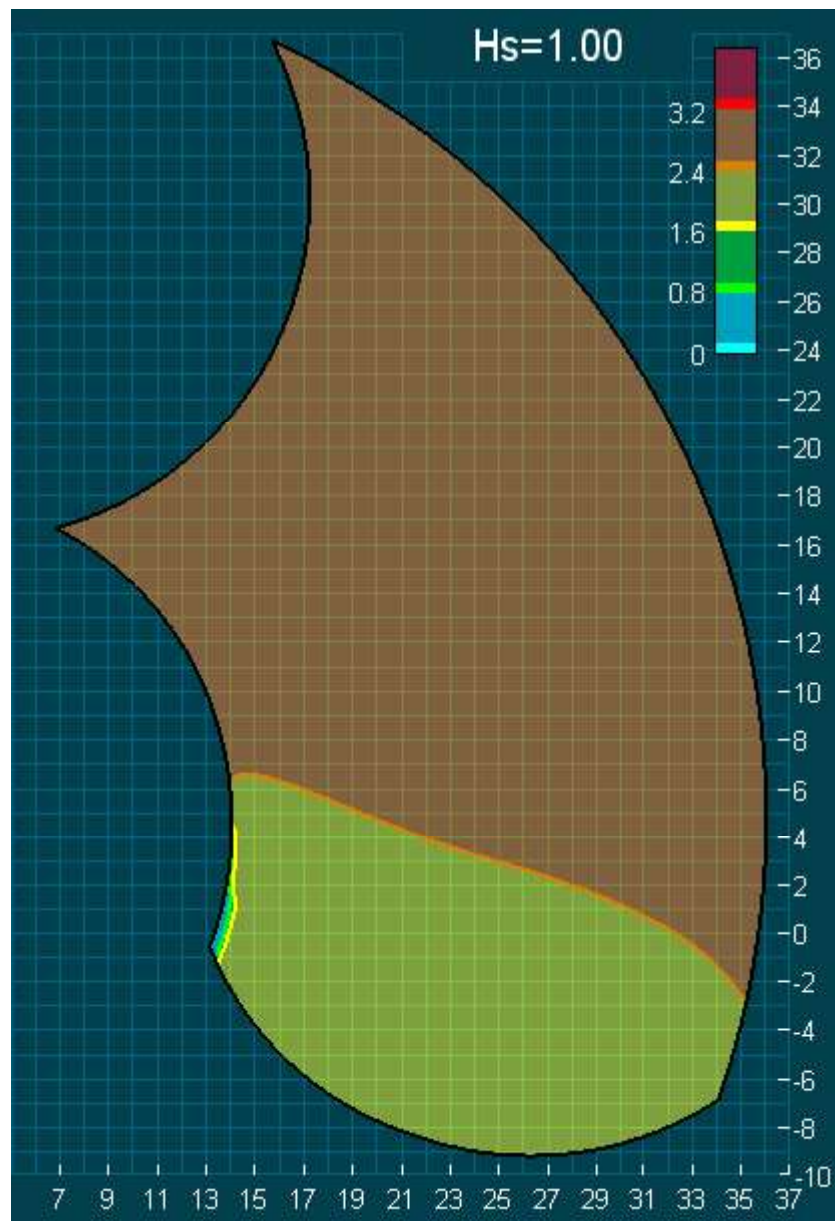
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
|-------------------------------|----------------------|------|-------|-------|-------|-------|-------|----|-------|-------|-------|-------|-------|----|
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 4,45 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 8,33 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 16,65 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 24,98 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 33,31 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 41,63 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 49,96 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 58,29 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 66,61 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 74,94 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 83,27 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 91,59 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 99,92 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 102 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

Operational limits:

| | | |
|--------------------------|-----------------|-------|
| Dynamic factor: | 1.3 | |
| Maximum rated load: | 5.0 | [t] |
| Load on maximum outreach | 5.0 | [t] |
| Maximum wind velocity: | 25 | [m/s] |
| Maximum trim: | 2 | [deg] |
| Maximum heel: | 5 | [deg] |
| Ice and snow: | No ice and snow | |



3.5 H_{sign} = 1.00 [m] – Ship to Ship lift





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

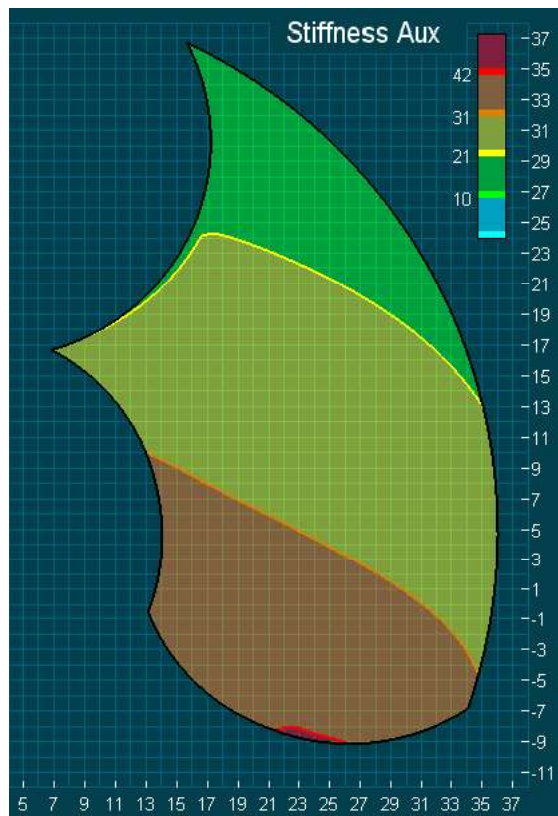
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| SWL [t] | | | | | | | | | | | | | | |
|-------------------------|----------------------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 0,2 | 0,2 | 0,34 | 0,95 | 2,4 | 2,44 | 2,47 | 2,51 | 2,54 | 2,57 | 2,6 | 2,63 | 2,65 | 2,66 |
| 8,33 | 2,31 | 2,33 | 2,34 | 2,35 | 2,37 | 2,41 | 2,46 | 2,51 | 2,55 | 2,59 | 2,63 | 2,66 | 2,69 | 2,7 |
| 16,65 | 2,28 | 2,3 | 2,31 | 2,32 | 2,36 | 2,41 | 2,47 | 2,52 | 2,57 | 2,62 | 2,66 | 2,7 | 2,74 | 2,75 |
| 24,98 | 2,24 | 2,26 | 2,27 | 2,29 | 2,36 | 2,42 | 2,48 | 2,54 | 2,6 | 2,65 | 2,7 | 2,75 | 2,8 | 2,81 |
| 33,31 | 2,2 | 2,22 | 2,24 | 2,3 | 2,37 | 2,44 | 2,51 | 2,57 | 2,63 | 2,69 | 2,75 | 2,81 | 2,86 | 2,87 |
| 41,63 | 2,17 | 2,18 | 2,22 | 2,31 | 2,39 | 2,46 | 2,53 | 2,61 | 2,68 | 2,74 | 2,81 | 2,86 | 2,92 | 2,93 |
| 49,96 | 2,13 | 2,15 | 2,24 | 2,33 | 2,41 | 2,49 | 2,57 | 2,65 | 2,73 | 2,8 | 2,86 | 2,92 | 2,97 | 2,99 |
| 58,29 | 2,1 | 2,16 | 2,26 | 2,35 | 2,44 | 2,53 | 2,62 | 2,7 | 2,78 | 2,86 | 2,92 | 2,98 | 3,02 | 3,04 |
| 66,61 | 2,08 | 2,18 | 2,28 | 2,38 | 2,48 | 2,58 | 2,67 | 2,76 | 2,84 | 2,92 | 2,98 | 3,03 | 3,07 | 3,1 |
| 74,94 | 2,09 | 2,2 | 2,31 | 2,43 | 2,54 | 2,64 | 2,74 | 2,83 | 2,91 | 2,98 | 3,04 | 3,08 | 3,11 | 3,14 |
| 83,27 | 2,11 | 2,24 | 2,37 | 2,49 | 2,6 | 2,71 | 2,81 | 2,9 | 2,97 | 3,04 | 3,1 | 3,12 | 3,14 | 3,18 |
| 91,59 | 2,16 | 2,3 | 2,44 | 2,56 | 2,68 | 2,79 | 2,89 | 2,97 | 3,04 | 3,1 | 3,14 | 3,16 | 3,16 | 3,22 |
| 99,92 | 2,23 | 2,39 | 2,53 | 2,66 | 2,78 | 2,88 | 2,97 | 3,05 | 3,11 | 3,16 | 3,18 | 3,18 | 3,18 | 3,24 |
| 102 | 2,26 | 2,41 | 2,56 | 2,69 | 2,8 | 2,9 | 2,99 | 3,07 | 3,13 | 3,18 | 3,19 | 3,19 | 3,18 | 3,25 |
| Dynamic factor | | | | | | | | | | | | | | |
| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 3,7 | 3,67 | 3,65 | 3,62 | 2,66 | 2,63 | 2,59 | 2,56 | 2,54 | 2,51 | 2,49 | 2,47 | 2,45 | 2,33 |
| 8,33 | 2,78 | 2,76 | 2,74 | 2,72 | 2,69 | 2,64 | 2,6 | 2,56 | 2,52 | 2,49 | 2,46 | 2,44 | 2,41 | 2,27 |
| 16,65 | 2,81 | 2,79 | 2,77 | 2,75 | 2,69 | 2,64 | 2,58 | 2,54 | 2,5 | 2,46 | 2,43 | 2,4 | 2,36 | 2,2 |
| 24,98 | 2,85 | 2,83 | 2,81 | 2,76 | 2,68 | 2,62 | 2,57 | 2,52 | 2,47 | 2,43 | 2,39 | 2,35 | 2,32 | 2,15 |
| 33,31 | 2,9 | 2,87 | 2,82 | 2,74 | 2,67 | 2,6 | 2,54 | 2,48 | 2,43 | 2,39 | 2,34 | 2,31 | 2,27 | 2,1 |
| 41,63 | 2,94 | 2,9 | 2,82 | 2,73 | 2,65 | 2,58 | 2,51 | 2,45 | 2,39 | 2,34 | 2,3 | 2,26 | 2,23 | 2,05 |
| 49,96 | 2,98 | 2,91 | 2,8 | 2,71 | 2,62 | 2,54 | 2,47 | 2,4 | 2,35 | 2,3 | 2,25 | 2,22 | 2,19 | 2,02 |
| 58,29 | 3 | 2,89 | 2,78 | 2,67 | 2,58 | 2,5 | 2,42 | 2,36 | 2,3 | 2,25 | 2,21 | 2,18 | 2,15 | 1,99 |
| 66,61 | 3 | 2,87 | 2,74 | 2,63 | 2,53 | 2,45 | 2,37 | 2,31 | 2,25 | 2,21 | 2,17 | 2,14 | 2,12 | 1,96 |
| 74,94 | 2,97 | 2,83 | 2,69 | 2,58 | 2,48 | 2,39 | 2,32 | 2,26 | 2,2 | 2,16 | 2,13 | 2,11 | 2,09 | 1,94 |
| 83,27 | 2,93 | 2,77 | 2,63 | 2,51 | 2,41 | 2,33 | 2,26 | 2,2 | 2,16 | 2,12 | 2,1 | 2,08 | 2,07 | 1,93 |
| 91,59 | 2,85 | 2,69 | 2,55 | 2,44 | 2,34 | 2,27 | 2,2 | 2,15 | 2,12 | 2,09 | 2,07 | 2,06 | 2,06 | 1,92 |
| 99,92 | 2,75 | 2,59 | 2,46 | 2,35 | 2,27 | 2,2 | 2,15 | 2,1 | 2,07 | 2,05 | 2,04 | 2,04 | 2,04 | 1,92 |
| 102 | 2,72 | 2,56 | 2,43 | 2,33 | 2,25 | 2,18 | 2,13 | 2,09 | 2,06 | 2,04 | 2,04 | 2,04 | 2,04 | 1,92 |



Stiffness chart:



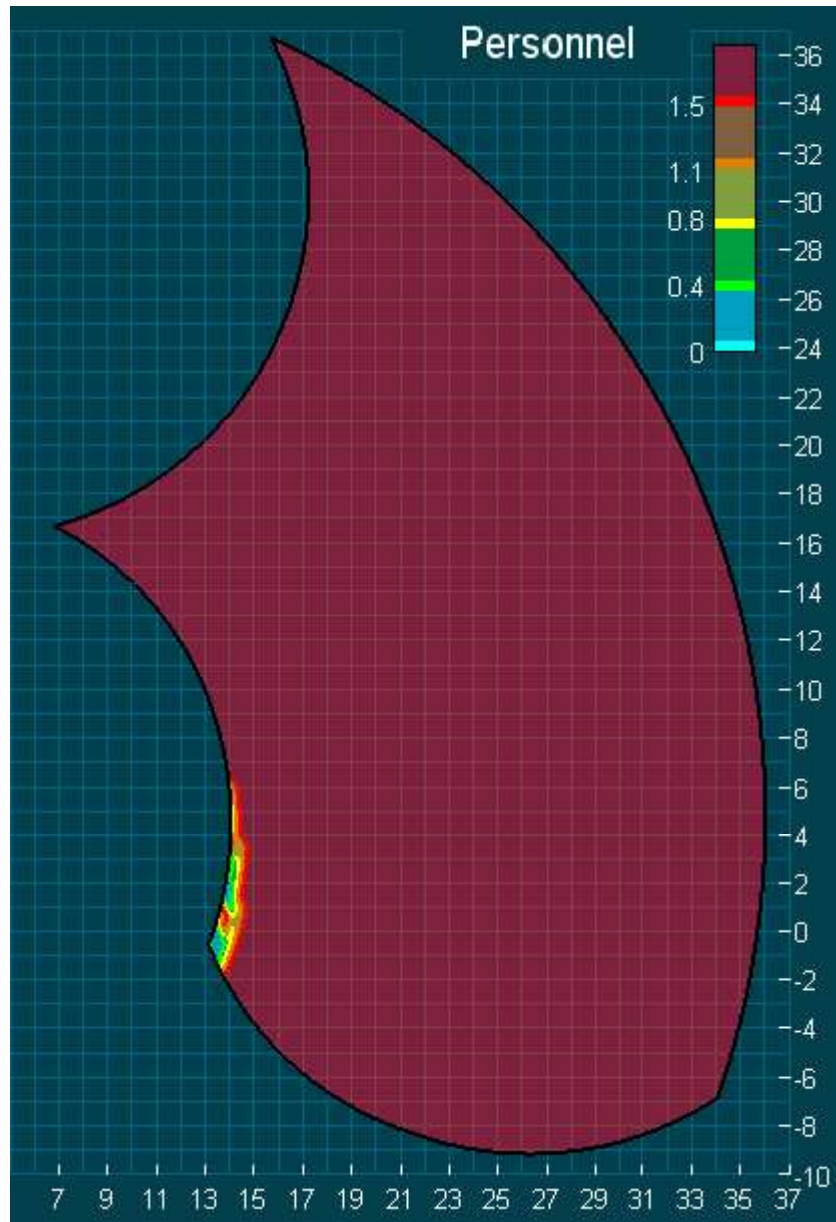
| Folding jib angle [deg] | Stiffness [t/m] | | | | | | | | | | | | | |
|-------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Main jib angle [deg] | | | | | | | | | | | | | |
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 36,36 | 35,71 | 35,11 | 34,25 | 33,23 | 32,3 | 31,44 | 30,66 | 29,97 | 29,37 | 28,84 | 28,37 | 27,86 | 23,64 |
| 8,33 | 36,45 | 35,93 | 35,45 | 35 | 33,79 | 32,52 | 31,39 | 30,4 | 29,54 | 28,78 | 28,09 | 27,46 | 26,76 | 21,68 |
| 16,65 | 37,38 | 36,86 | 36,35 | 35,43 | 33,77 | 32,31 | 31,02 | 29,91 | 28,9 | 27,97 | 27,13 | 26,38 | 25,56 | 19,98 |
| 24,98 | 38,52 | 37,92 | 37,3 | 35,31 | 33,48 | 31,89 | 30,5 | 29,23 | 28,06 | 26,99 | 26,05 | 25,21 | 24,32 | 18,53 |
| 33,31 | 39,69 | 38,94 | 37,22 | 34,97 | 33,04 | 31,34 | 29,77 | 28,34 | 27,04 | 25,89 | 24,88 | 24,01 | 23,11 | 17,3 |
| 41,63 | 40,76 | 39,57 | 36,84 | 34,51 | 32,46 | 30,56 | 28,83 | 27,28 | 25,91 | 24,72 | 23,7 | 22,84 | 21,96 | 16,29 |
| 49,96 | 41,58 | 39,16 | 36,38 | 33,89 | 31,61 | 29,55 | 27,71 | 26,11 | 24,72 | 23,53 | 22,54 | 21,73 | 20,93 | 15,47 |
| 58,29 | 41,94 | 38,7 | 35,68 | 32,94 | 30,5 | 28,34 | 26,47 | 24,86 | 23,5 | 22,36 | 21,44 | 20,72 | 20,01 | 14,83 |
| 66,61 | 41,63 | 37,92 | 34,61 | 31,7 | 29,16 | 26,98 | 25,13 | 23,58 | 22,29 | 21,25 | 20,43 | 19,81 | 19,23 | 14,34 |
| 74,94 | 40,72 | 36,67 | 33,17 | 30,18 | 27,64 | 25,52 | 23,75 | 22,29 | 21,12 | 20,2 | 19,5 | 19,01 | 18,58 | 14 |
| 83,27 | 39,2 | 34,94 | 31,38 | 28,43 | 25,98 | 23,98 | 22,35 | 21,04 | 20,01 | 19,23 | 18,67 | 18,33 | 18,05 | 13,8 |
| 91,59 | 37,02 | 32,74 | 29,28 | 26,48 | 24,22 | 22,4 | 20,95 | 19,81 | 18,95 | 18,34 | 17,94 | 17,75 | 17,64 | 13,73 |
| 99,92 | 34,21 | 30,13 | 26,91 | 24,37 | 22,36 | 20,78 | 19,55 | 18,62 | 17,95 | 17,52 | 17,29 | 17,27 | 17,35 | 13,79 |
| 102 | 33,42 | 29,41 | 26,28 | 23,82 | 21,88 | 20,37 | 19,2 | 18,33 | 17,71 | 17,32 | 17,14 | 17,17 | 17,29 | 13,82 |

Operational limits:

| | | |
|--------------------------|-----------------|-------|
| Dynamic factor: | for Hs=1.0 | [m] |
| Maximum rated load: | 3.2 | [t] |
| Load on maximum outreach | 2.6 | [t] |
| Maximum wind velocity: | 25 | [m/s] |
| Maximum trim: | 2 | [deg] |
| Maximum heel: | 5 | [deg] |
| Ice and snow: | No ice and snow | |



3.6 Personnel lift





Client China Merchants Heavy Industry Co., Ltd
Project CMHI-121 / MT6024
Product GPOKa 5000-140-36 – 140T AHC Subsea Crane
Doc Name Load Charts
Doc No 21660-01-TTS-N-CA-0002

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| Folding jib angle [deg] | Main jib angle [deg] | | | | | | | | | | | | | |
|-------------------------------|----------------------|------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-----|
| | 0 | 6,86 | 13,71 | 20,57 | 27,43 | 34,29 | 41,14 | 48 | 54,86 | 61,71 | 68,57 | 75,43 | 82,29 | 84 |
| 0 | 0,43 | 1,5 | 0,28 | 0,21 | 0,91 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 8,33 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 16,65 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 24,98 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 33,31 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 41,63 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 49,96 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 58,29 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 66,61 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 74,94 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 83,27 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 91,59 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 99,92 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| 102 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |

Operational limits:

Dynamic factor:

Maximum rated load:

Load on maximum outreach

Maximum wind velocity:

Maximum trim:

Maximum heel:

Ice and snow:

Personnel lift requirements

1.5 [t]

1.5 [t]

25 [m/s]

2 [deg]

5 [deg]

No ice and snow