

## REFERENCE LIST

| Type of equipment   | Parameters                                      | q-ty |
|---|---|------|
| Portal crane  | <b>20/32-30/20-10,5K-A5, ХЛ1</b>                | 3    |
| Gantry container crane  | <b>45-25/9,9/7-15, A6, Y1</b>                   | 1    |
| Cargo hold for men hoisting   | <b>1,5 t</b>                                    | 4    |
| Gantry container crane  | <b>45-25/8,2/9,2-15, A6, Y1</b>                 | 1    |
| Rotary wagon tippler  | <b>VRS 93-110M</b>                              | 1    |
| Bridge metallurgical pouring crane  | <b>210+63/20-27,5-A8, Y3</b>                    | 1    |
| Bridge crane with rigid suspension of the traverse and a rotating trolley (pratzen crane) | <b>16/16/16-31-A8, Y3</b>                       | 1    |
| Special bridge crane  | <b>62/35/20-33-A7</b>                           | 1    |
| Portal bucket reclaimer (WCD and main technologic units)                                  | <b>Capacity 1200 t/h</b>                        | 1    |
| Bridge grab crane   | <b>15(0,7)-A8-28-16, Y2</b>                     | 1    |
| Special bridge crane  | <b>10/10-A7-23-16/16, Y2</b>                    | 1    |
| Special bridge crane  | <b>10/5-A7-21-14/14, Y2</b>                     | 1    |
| Gantry cantilever crane   | <b>20-A5-32-10, Y1</b>                          | 2    |
| Special bridge crane with rotating trolley  | <b>45/45/45-33,5-A8, Y2</b>                     | 2    |
| Bridge metallurgical pouring crane  | <b>210+63/20-27,5-A7, Y3</b>                    | 1    |
| Bridge crane  | <b>15(7,5+7,5)-28-12-A7, Y3</b>                 | 2    |
| Special gantry crane  | <b>2x280/2x30/5-13,5-15,5/52,5/35-A2, Y1-CC</b> | 1    |
| Bridge crane  | <b>160/32-46/46-25-A5,Y3</b>                    | 1    |
| Special bridge crane  | <b>150+80/20-27-A7, Y1</b>                      | 1    |
| Special gantry crane  | <b>32(16+16)/4-14-33/1,77-A3,Y1</b>             | 1    |

|                             |                                      |   |
|-----------------------------|--------------------------------------|---|
| Gantry hook crane           | <b>50/10-32/0/10-14,5/16-A3, ХЛ1</b> | 1 |
| Cargo hold for men hoisting | <b>Lifting capacity 1,5 t</b>        | 5 |
| Gantry container crane      | <b>45-32/5/7-9,5-A6, У1</b>          | 2 |
| Gantry crane                | <b>2*280/2+30/5</b>                  | 1 |
| Portal Crane «Zubr – 800»   | <b>16(20/32)-32/25-10,5K</b>         | 1 |
| Electric Bridge crane       | <b>3,2-10,5-A5, УХЛ4</b>             | 8 |
| Electric Bridge crane       | <b>30/5-28-14/12,7K, У3</b>          | 1 |
| Electric Bridge crane       | <b>120+32/10-24,5-A8, У2</b>         | 1 |
| Portal Crane «Zubr – 550»   | <b>32/16-17/30-10,5K</b>             | 1 |
| Portal Crane «Zubr-650»     | <b>20/32-32/20-10,5K</b>             | 1 |
| Portal Crane «Zubr – 1280-2 | <b>40/80-32/16-10,5K</b>             | 1 |
| Electric Bridge crane       | <b>160/32-46/46-25-A5,У3+ЗИП</b>     | 1 |
| Electric Bridge crane       | <b>(7,5+7,5)-28-12,7K,У3, 10+40</b>  | 1 |
| Bridge crane                | <b>10-28-24, А5, У3</b>              | 1 |
| Bridge crane                | <b>10-26,7-24 , А5, У3</b>           | 1 |
| Bridge crane                | <b>10-27,5-12, А5, У3</b>            | 1 |
| Bridge crane                | <b>50/10-28-32/32, А5,У6</b>         | 1 |
| Electric Bridge crane       | <b>16-10,5-16, А3, У3</b>            | 1 |
| Charging crane              | <b>3-11,52-A7,У3</b>                 | 2 |
| Bridge crane<br>JASO        | <b>30/5-44-A4, У3</b>                | 2 |
| Ship Loader «Neva-1500»     | <b>4.10/28-1500т/per hour</b>        | 1 |
| Portal Crane                | <b>20/32-30/20-10,5K-A5, У1</b>      | 2 |
| Gantry crane                | <b>50/10-32/10/10-14,5/16,7-A7</b>   | 1 |

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|---|---|---|
| Gantry crane                                | <b>30/10-36/12/16-18/18, working pattern A5 (-50°C)</b> | 1 |
| Gantry container crane                      | <b>45-32/5/7-9,5-A6, Y1</b>                             | 2 |
| Gantry container crane                      | <b>45-42/10/5,5-12,5-A6, Y1</b>                         | 2 |
| Bridge crane                                | <b>50/10-44-A4, Y3</b>                                  | 2 |
| Bridge crane                                | <b>100/30-44-A4, Y3</b>                                 | 2 |
| Electric Bridge crane                       | <b>50/10-34-A7, Y3</b>                                  | 1 |
| Bridge crane                                | <b>32-40-A8</b>   | 2 |
| Bridge crane                                | <b>20-34-20, A8</b>                                     | 1 |
| Modernization of Ship Loader «Pechora-2300» | <b>1.78/17.44-2300t/per hour</b>                        | 1 |
| Portal crane                                | <b>20/32-30/20-10,5K-A5, Y1</b>                         | 2 |
| Electric Bridge crane                       | <b>50/10-16,5-18/19-A3, Y4</b>                          | 1 |
| Gantry crane                                | <b>100/10-32/0/15-18/16,5-A4</b>                        | 2 |
| Bridge crane                                | <b>32/5-16,5-6-Y3, A3</b>                               | 1 |
| Gantry container crane                      | <b>45-25/5/7-12,5-A6, Y1</b>                            | 3 |
| Gantry container crane                      | <b>36-25/5,5/7-9,5-A6, Y1</b>                           | 1 |
| Portal Crane                                | <b>20(32/63)-40/20-10,5T</b>                            | 1 |
| Belt Conveyor complex                       | <b>Capacity 2.5t/per hour</b>                           | 1 |
| Electric Bridge crane                       | <b>20/5-28, working pattern A5, YXJ14</b>               | 5 |
| Electric Bridge crane                       | <b>40/10-33,5, working pattern A6, YXJ14</b>            | 1 |
| Electric Bridge crane                       | <b>32/8-33,5, working pattern A6, YXJ14</b>             | 1 |
| Electric Bridge crane                       | <b>20/5-33,5, working pattern A5, YXJ14</b>             | 1 |
| Electric Bridge crane                       | <b>10+10-28, working pattern A6, YXJ14</b>              | 2 |
| Electric Bridge crane                       | <b>40/5-13,5, working pattern A3, YXJ14</b>             | 1 |
| Electric Bridge crane                       | <b>70/20-22-A3, Y3</b>                                  | 1 |

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|--|---|---|
| Portal Crane                               | <b>8-30-10,5K</b>   | 1 |
| Gantry crane                               | <b>1,0/0,6-4,8/13,7-3/7-380- УХЛ4</b>                       | 1 |
| Bridge crane                               | <b>16-17-A8, У3</b>   | 1 |
| Hooper and apron feeder                    | <b>Capacity 70t/per hour</b>                                | 1 |
| Electric Bridge crane                      | <b>150+80/20-27, working pattern A7</b>                     | 1 |
| Electric Bridge crane                      | <b>200/50-34, working pattern A5</b>                        | 1 |
| Semi-gantry crane (scrap charging machine) | <b>260 (130/130) -10-10-13/13-A8</b>                        | 1 |
| Gantry crane                               | <b>36-42/4,5/6,5-18, working pattern A6</b>                 | 1 |
| Bridge crane                               | <b>40(20+20)/5-33,7, working pattern A8</b>                 | 6 |
| Gantry container crane                     | <b>36-25/5/7-12,5, working pattern A6</b>                   | 2 |
| Ship Loader «Pechora-1800»                 | <b>1.78/17.44-1800 t/per hour</b>                           | 1 |
| Gantry crane                               | <b>40/5-32/8,5/8,5-8,4, working pattern A7</b>              | 1 |
| Gantry crane                               | <b>40-32/8,5/8,5-8,4, working pattern A7</b>                | 1 |
| Electric Bridge crane                      | <b>8-6,6-6-9, working pattern A5</b>                        | 1 |
| Bridge crane                               | <b>150/110-34, working pattern A7</b>                       | 1 |
| Bridge crane                               | <b>25/15/15-34, working pattern A7</b>                      | 3 |
| Bridge crane                               | <b>20-42, working pattern A8</b>                            | 1 |
| Bridge crane                               | <b>200/30-21,5, working pattern A3</b>                      | 1 |
| Bridge crane                               | <b>16/12,5-17, working pattern A7</b>                       | 1 |
| Gantry crane                               | <b>40-42/10/10-18, working pattern A4</b>                   | 1 |
| Bridge crane                               | <b>100/20/20-13, working pattern A3</b>                     | 1 |
| Gantry crane                               | <b>160/12,5/25-22/12вп-28,5/44/26,5, working pattern A4</b> | 1 |

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|--------------|---|---|
| Gantry crane | <b>20-32/8,5/8,5-6, working pattern A7</b>                    | 1 |
| Gantry crane | <b>36-32/6/6/-15, working pattern A6</b>                      | 1 |
| Gantry crane | <b>36-25/5,5/8-15, working pattern A6</b>                     | 1 |
| Gantry crane | <b>36-25/5,5/5,5-15, working pattern A6</b>                   | 1 |
| Bridge crane | <b>60-13-550, working pattern A3</b>                          | 1 |
| Bridge crane | <b>16-7,5-30, working pattern A2</b>                          | 1 |
| Bridge crane | <b>16-34,5-12, working pattern A2</b>                         | 1 |
| Gantry crane | <b>32/5-42-7/6, working pattern A4</b>                        | 1 |
| Gantry crane | <b>10-32-10, working pattern A4</b>                           | 1 |
| Bridge crane | <b>16-22-20, working pattern A7</b>                           | 1 |
| Bridge crane | <b>60 -7,5-20, working pattern A3</b>                         | 1 |
| Gantry crane | <b>90(45<br/>+45)/10-42/15вп/15вп-24/24</b>                   | 1 |
| Bridge crane | <b>working pattern A5<br/>60-19,5-120, working pattern A3</b> | 1 |
| Gantry crane | <b>10-16-9</b>  | 1 |
| Portal Crane | <b>32/16-17/30-10, working pattern A5</b>                     | 1 |
| Bridge crane | <b>(40/10+40/10)-25-12,5, working<br/>pattern A4</b>          | 1 |
| Bridge crane | <b>15/7,5+7,5/-28, working pattern A7</b>                     | 1 |
| Bridge crane | <b>10/5+5-28, working pattern A7</b>                          | 1 |
| Bridge crane | <b>25/20(10+10)-34, working pattern A8</b>                    | 1 |
| Bridge crane | <b>35/5-37-20/21, working pattern A2</b>                      | 1 |
| Bridge crane | <b>32/5-40-18/20, working pattern A2</b>                      | 1 |
| Bridge crane | <b>10(5+5)-22,5-16, working pattern A6</b>                    | 1 |
| Gantry crane | <b>10-20-8/6-9,5</b>  | 1 |