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|-----------|------------------------------|
| Nº CVRD:  | DF-LM-313T-46-00102/46-02311 |
| Nº PROJ.: | 415.53862.000                |

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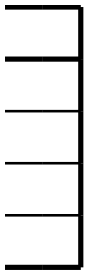
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| TE - TIPO DE EMISSÃO  |                         |        |
|-----------------------|-------------------------|--------|
| (A) PRELIMINAR        | (E) PARA CONSTRUÇÃO     |        |
| (B) PARA APROVAÇÃO    | (F) CONFORME COMPRADO   |        |
| (C) PARA CONHECIMENTO | (G) CONFORME CONSTRUÍDO |        |
| (D) PARA COTAÇÃO      | (H) CANCELADO           | SE N°: |

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# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 A**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No.  | Format         | B.O.M. | Quantity Pcs. | right Pcs.   | left Pcs. | Denomination            | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|----------------|----------------|--------|---------------|--------------|-----------|-------------------------|----------|-------------|----------------|----------------|-----------------|
| Item No. | Nº. Componente | Format Formato | B.O.M. | Quant. Pcs.   | Direita Pcs. | Esq. Pcs. | Descrição               | Norma    | VAMH        | Material grade | Peso/item kg   | Peso Total kg   |
| 1        |                |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 1313 x 5104 |          |             | SAC 50         | 332,96         | 665,9           |
| 2        |                |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 759 x 4832  |          |             | SAC 50         | 257,44         | 514,9           |
| 3        |                |                |        | 1             |              |           | PI/Ch 8 x 640 x 1922    |          |             | SAC 50         | 68,80          | 68,8            |
| 4        |                |                |        | 1             |              |           | PI/Ch 9.5 x 730 x 1495  |          |             | SAC 50         | 70,66          | 70,7            |
| 5        |                |                |        | 2             |              |           | PI/Ch 9.5 x 200 x 2388  |          |             | SAC 50         | 35,61          | 71,2            |
| 6        |                |                |        | 2             |              |           | PI/Ch 9.5 x 213 x 927   |          |             | SAC 50         | 14,28          | 28,6            |
| 7        |                |                |        | 2             |              |           | PI/Ch 9.5 x 559 x 2214  |          |             | SAC 50         | 41,41          | 82,8            |
| 8        |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 1780    |          |             | SAC 50         | 17,57          | 35,1            |
| 9        |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2203    |          |             | SAC 50         | 21,98          | 44,0            |
| 10       |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2329    |          |             | SAC 50         | 23,51          | 47,0            |
| 11       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,70           | 15,4            |
| 12       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,76           | 15,5            |
| 13       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,67           | 15,3            |
| 14       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1658  |          |             | SAC 50         | 53,22          | 106,4           |
| 15       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1743  |          |             | SAC 50         | 55,22          | 110,4           |
| 16       |                |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2308  |          |             | SAC 50         | 62,18          | 124,4           |
| 17       |                |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2298  |          |             | SAC 50         | 62,03          | 124,1           |
| 18       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2179  |          |             | SAC 50         | 66,93          | 133,9           |
| 19       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2117  |          |             | SAC 50         | 66,05          | 132,1           |
| 20       |                |                |        | 6             |              |           | PI/Ch 8 x 161 x 724     |          |             | SAC 50         | 7,32           | 43,9            |
| 21       |                |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 22       |                |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 23       |                |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 24       |                |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 25       |                |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 800   |          |             | SAC 50         | 5,84           | 11,7            |
| 26       |                |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 135   |          |             | SAC 50         | 0,82           | 1,6             |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 A**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination           | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|------------------------|----------|-------------|----------------|----------------|-----------------|
| 27       |               |        |        | 2             |            |           | PI/Ch 12.5 x 90 x 135  |          |             | SAC 50         | 0,82           | 1,6             |
| 28       |               |        |        | 2             |            |           | PI/Ch 12.5 x 80 x 492  |          |             | SAC 50         | 3,74           | 7,5             |
| 29       |               |        |        | 2             |            |           | PI/Ch 8 x 170 x 347    |          |             | SAC 50         | 2,11           | 4,2             |
| 30       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 458     |          |             | SAC 50         | 2,18           | 4,4             |
| 31       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 100     |          |             | SAC 50         | 0,50           | 1,0             |
| 32       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 347     |          |             | SAC 50         | 1,74           | 7,0             |
| 33       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 240     |          |             | SAC 50         | 1,09           | 2,2             |
| 34       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 148     |          |             | SAC 50         | 0,63           | 1,3             |
| 35       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 36       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 37       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 94      |          |             | SAC 50         | 0,40           | 0,8             |
| 38       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 269     |          |             | SAC 50         | 1,29           | 2,6             |
| 39       |               |        |        | 8             |            |           | PI/Ch 8 x 80 x 497     |          |             | SAC 50         | 2,50           | 20,0            |
| 40       |               |        |        | 20            |            |           | PI/Ch 8 x 80 x 364     |          |             | SAC 50         | 1,74           | 34,7            |
| 41       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1101    |          |             | SAC 50         | 5,53           | 11,1            |
| 42       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1420    |          |             | SAC 50         | 7,13           | 14,3            |
| 43       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 740     |          |             | SAC 50         | 3,72           | 7,4             |
| 44       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 643     |          |             | SAC 50         | 3,20           | 6,4             |
| 45       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 339     |          |             | SAC 50         | 1,67           | 3,3             |
| 46       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 441     |          |             | SAC 50         | 2,18           | 4,4             |
| 47       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1101    |          |             | SAC 50         | 4,15           | 8,3             |
| 48       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1420    |          |             | SAC 50         | 5,35           | 10,7            |
| 49       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 740     |          |             | SAC 50         | 2,79           | 5,6             |
| 50       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 480     |          |             | SAC 50         | 1,81           | 3,6             |
| 51       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 746     |          |             | SAC 50         | 3,75           | 7,5             |
| 52       |               |        |        | 6             |            |           | PI/Ch 8 x 80 x 882     |          |             | SAC 50         | 4,43           | 26,6            |
| 53       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 1500    |          |             | SAC 50         | 7,54           | 30,1            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 A**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                    | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|---------------------------------|----------|-------------|----------------|----------------|-----------------|
| 54       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 948              |          |             | SAC 50         | 4,76           | 9,5             |
| 55       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1184             |          |             | SAC 50         | 5,95           | 11,9            |
| 56       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 727              |          |             | SAC 50         | 3,65           | 7,3             |
| 57       |               |        |        | 22            |            |           | PI/Ch 9.5 x 100 x 277           |          |             | SAC 50         | 2,07           | 45,4            |
| 58       |               |        |        | 22            |            |           | PI/Ch 9.5 x 40 x 150            |          |             | SAC 50         | 0,36           | 8,0             |
| 59       |               |        |        | 22            |            |           | PI/Ch 9.5 x 50 x 130            |          |             | SAC 50         | 0,43           | 9,4             |
| 60       |               |        |        | 1             |            |           | PI/Ch 8 x 80 x 2325             |          |             | SAC 50         | 11,68          | 11,7            |
| 61       |               |        |        | 16            |            |           | PI/Ch 5 x 25 x 75               |          |             | SAC 50         | 0,07           | 1,2             |
| 62       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 3201        |          |             | ASTM 36        | 11,11          | 22,2            |
| 63       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 1289        |          |             | ASTM 36        | 4,47           | 8,9             |
| 64       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 203 x 3201 |          |             | RUBBER         | 17,65          | 35,3            |
| 65       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 230 x 1289 |          |             | RUBBER         | 6,99           | 14,0            |
| 66       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 28,08          | 56,2            |
| 67       |               |        |        | 37            |            |           | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 37,13          | 1373,7          |
| 68       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 34,30          | 68,6            |
| 69       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 255 x 490          |          |             | NOTA - 2       | 12,45          | 24,9            |
| 70       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 298 x 490          |          |             | NOTA - 2       | 16,38          | 32,8            |
| 71       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490          |          |             | NOTA - 2       | 32,00          | 64,0            |
| 72       |               |        |        | 10            |            |           | PI/Ch 25.4 x 330 x 490          |          |             | NOTA - 2       | 32,24          | 322,4           |
| 73       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 420          |          |             | NOTA - 2       | 27,64          | 55,3            |
| 74       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490          |          |             | NOTA - 2       | 28,32          | 56,6            |
| 75       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 351 x 490          |          |             | NOTA - 2       | 21,58          | 43,2            |
| 76       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 36,99          | 74,0            |
| 77       |               |        |        | 4             | 2          | 2         | PI/Ch 25.4 x 380 x 420          |          |             | NOTA - 2       | 31,82          | 127,3           |
| 78       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 30,82          | 61,6            |
| 79       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 30,83          | 61,7            |
| 80       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 400          |          |             | NOTA - 2       | 30,31          | 60,6            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 A**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                        | Standard         | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|-----------------------------------------------------|------------------|-------------|----------------|----------------|-----------------|
| 81       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 319 x 336                              |                  |             | NOTA - 2       | 20,67          | 41,3            |
| 82       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 352 x 490                              |                  |             | NOTA - 2       | 32,84          | 65,7            |
| 83       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 364 x 385                              |                  |             | NOTA - 2       | 27,52          | 55,0            |
| 84       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 373 x 490                              |                  |             | NOTA - 2       | 36,07          | 72,1            |
| 85       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 379 x 490                              |                  |             | NOTA - 2       | 36,76          | 73,5            |
| 86       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                              |                  |             | NOTA - 2       | 37,02          | 74,0            |
| 87       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 378 x 490                              |                  |             | NOTA - 2       | 36,75          | 73,5            |
| 88       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 375 x 490                              |                  |             | NOTA - 2       | 36,41          | 72,8            |
| 89       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 371 x 490                              |                  |             | NOTA - 2       | 36,04          | 72,1            |
| 90       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 367 x 490                              |                  |             | NOTA - 2       | 25,87          | 51,7            |
| 91       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 250 x 333                              |                  |             | NOTA - 2       | 14,48          | 29,0            |
| 92       |               |        |        | 2             |            |           | PI/Ch 25.4 x 250 x 333                              |                  |             | NOTA - 2       | 16,60          | 33,2            |
| 93       |               |        |        | 1             |            |           | PI/Ch 25.4 x 250 x 490                              |                  |             | NOTA - 2       | 24,43          | 24,4            |
| 94       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 339                              |                  |             | NOTA - 2       | 20,87          | 41,7            |
| 95       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 457                              |                  |             | NOTA - 2       | 29,81          | 59,6            |
| 96       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 340 x 420                              |                  |             | NOTA - 2       | 28,47          | 56,9            |
| 97       |               |        |        | 1             |            |           | PI/Ch 25.4 x 340 x 285                              |                  |             | NOTA - 2       | 19,34          | 19,3            |
| 98       | 415.54652.000 | A3     |        | 8             |            |           | BOLT DIA 30 X 205                                   |                  |             | AISI 4010      | 1,14           | 9,1             |
| 99       | 415.54653.000 | A3     |        | 4             |            |           | BOLT DIA 30 X 130                                   |                  |             | AISI 4010      | 0,72           | 2,9             |
| 100      | 415.54654.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 64.5                                |                  |             | AISI 4010      | 0,32           | 2,6             |
| 101      | 415.54655.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 26                                  |                  |             | AISI 4010      | 0,13           | 1,0             |
| 102      | 415.54656.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 24                                  |                  |             | AISI 4010      | 0,12           | 1,0             |
| 103      | 415.54657.000 | A3     |        | 2             |            |           | BOLT DIA 25 X 150                                   |                  |             | AISI 4010      | 0,58           | 1,2             |
| 104      | 415.54658.000 | A3     |        | 2             |            |           | BOLT DIA 30 X 68                                    |                  |             | AISI 4010      | 0,38           | 0,8             |
| 105      | 415.54659.000 | A3     |        | 4             |            |           | SLEEVE DIA 37 X 36.5                                |                  |             | AISI 4010      | 0,16           | 0,6             |
| 106      |               |        |        | 1             |            |           | HYDRAULIC CYLINDER<br>CDH1MP5/40/28/170A1X/B1CMUMWW | BOSCH<br>REXROTH |             |                |                |                 |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 A**

Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0

Date / Data: 13.02.2004



| Item No.     | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                        | Standard         | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|--------------|---------------|--------|--------|---------------|------------|-----------|-----------------------------------------------------|------------------|-------------|----------------|----------------|-----------------|
| 107          |               |        |        | 4             |            |           | HYDRAULIC CYLINDER<br>CDH1MP5/50/36/230A1X/B1CMUMWW | BOSCH<br>REXROTH |             |                |                |                 |
| 108          |               |        |        | 238           |            |           | Hex. Bolt/Parafuso M20x50                           | DIN 87           |             | 4.8            | 0,18           | 41,9            |
| 109          |               |        |        | 268           |            |           | Hex. Nut/Porca M20                                  | DIN 934          |             | 8              | 0,06           | 17,3            |
| 110          |               |        |        | 298           |            |           | Washer/Aurela 21                                    | DIN 126          |             | 200 HV         | 0,02           | 5,5             |
| 111          |               |        |        | 30            |            |           | Hex Bolt/Parafuso M20x45                            | DIN 933          |             | 5.6            | 0,17           | 5,0             |
| 112          |               |        |        | 32            |            |           | Hex Bolt/Parafuso M8x20                             | DIN 933          |             | 5.6            | 0,01           | 0,4             |
| 113          |               |        |        | 32            |            |           | Washer/Aurela B8                                    | DIN 127          |             | 200 HV         | 0,00           | 0,1             |
| Total weight |               |        |        |               |            |           |                                                     |                  |             |                |                | <b>6435,9</b>   |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 B**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No.  | Format         | B.O.M. | Quantity Pcs. | right Pcs.   | left Pcs. | Denomination            | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|----------------|----------------|--------|---------------|--------------|-----------|-------------------------|----------|-------------|----------------|----------------|-----------------|
| Item No. | Nº. Componente | Format Formato | B.O.M. | Quant. Pcs.   | Direita Pcs. | Esq. Pcs. | Descrição               | Norma    | VAMH        | Material grade | Peso/item kg   | Peso Total kg   |
| 1        |                |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 1313 x 5104 |          |             | SAC 50         | 332,96         | 665,9           |
| 2        |                |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 759 x 4832  |          |             | SAC 50         | 257,44         | 514,9           |
| 3        |                |                |        | 1             |              |           | PI/Ch 8 x 640 x 1922    |          |             | SAC 50         | 68,80          | 68,8            |
| 4        |                |                |        | 1             |              |           | PI/Ch 9.5 x 730 x 1495  |          |             | SAC 50         | 70,66          | 70,7            |
| 5        |                |                |        | 2             |              |           | PI/Ch 9.5 x 200 x 2388  |          |             | SAC 50         | 35,61          | 71,2            |
| 6        |                |                |        | 2             |              |           | PI/Ch 9.5 x 213 x 927   |          |             | SAC 50         | 14,28          | 28,6            |
| 7        |                |                |        | 2             |              |           | PI/Ch 9.5 x 559 x 2214  |          |             | SAC 50         | 41,41          | 82,8            |
| 8        |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 1780    |          |             | SAC 50         | 17,57          | 35,1            |
| 9        |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2203    |          |             | SAC 50         | 21,98          | 44,0            |
| 10       |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2329    |          |             | SAC 50         | 23,51          | 47,0            |
| 11       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,70           | 15,4            |
| 12       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,76           | 15,5            |
| 13       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,67           | 15,3            |
| 14       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1658  |          |             | SAC 50         | 53,22          | 106,4           |
| 15       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1743  |          |             | SAC 50         | 55,22          | 110,4           |
| 16       |                |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2308  |          |             | SAC 50         | 62,18          | 124,4           |
| 17       |                |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2298  |          |             | SAC 50         | 62,03          | 124,1           |
| 18       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2179  |          |             | SAC 50         | 66,93          | 133,9           |
| 19       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2117  |          |             | SAC 50         | 66,05          | 132,1           |
| 20       |                |                |        | 6             |              |           | PI/Ch 8 x 161 x 724     |          |             | SAC 50         | 7,32           | 43,9            |
| 21       |                |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 22       |                |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 23       |                |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 24       |                |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 25       |                |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 800   |          |             | SAC 50         | 5,84           | 11,7            |
| 26       |                |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 135   |          |             | SAC 50         | 0,82           | 1,6             |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 B**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination           | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|------------------------|----------|-------------|----------------|----------------|-----------------|
| 27       |               |        |        | 2             |            |           | PI/Ch 12.5 x 90 x 135  |          |             | SAC 50         | 0,82           | 1,6             |
| 28       |               |        |        | 2             |            |           | PI/Ch 12.5 x 80 x 492  |          |             | SAC 50         | 3,74           | 7,5             |
| 29       |               |        |        | 2             |            |           | PI/Ch 8 x 170 x 347    |          |             | SAC 50         | 2,11           | 4,2             |
| 30       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 458     |          |             | SAC 50         | 2,18           | 4,4             |
| 31       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 100     |          |             | SAC 50         | 0,50           | 1,0             |
| 32       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 347     |          |             | SAC 50         | 1,74           | 7,0             |
| 33       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 240     |          |             | SAC 50         | 1,09           | 2,2             |
| 34       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 148     |          |             | SAC 50         | 0,63           | 1,3             |
| 35       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 36       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 37       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 94      |          |             | SAC 50         | 0,40           | 0,8             |
| 38       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 269     |          |             | SAC 50         | 1,29           | 2,6             |
| 39       |               |        |        | 8             |            |           | PI/Ch 8 x 80 x 497     |          |             | SAC 50         | 2,50           | 20,0            |
| 40       |               |        |        | 20            |            |           | PI/Ch 8 x 80 x 364     |          |             | SAC 50         | 1,74           | 34,7            |
| 41       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1101    |          |             | SAC 50         | 5,53           | 11,1            |
| 42       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1420    |          |             | SAC 50         | 7,13           | 14,3            |
| 43       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 740     |          |             | SAC 50         | 3,72           | 7,4             |
| 44       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 643     |          |             | SAC 50         | 3,20           | 6,4             |
| 45       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 339     |          |             | SAC 50         | 1,67           | 3,3             |
| 46       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 441     |          |             | SAC 50         | 2,18           | 4,4             |
| 47       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1101    |          |             | SAC 50         | 4,15           | 8,3             |
| 48       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1420    |          |             | SAC 50         | 5,35           | 10,7            |
| 49       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 740     |          |             | SAC 50         | 2,79           | 5,6             |
| 50       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 480     |          |             | SAC 50         | 1,81           | 3,6             |
| 51       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 746     |          |             | SAC 50         | 3,75           | 7,5             |
| 52       |               |        |        | 6             |            |           | PI/Ch 8 x 80 x 882     |          |             | SAC 50         | 4,43           | 26,6            |
| 53       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 1500    |          |             | SAC 50         | 7,54           | 30,1            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 B**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                                                                                 | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|--------------------------------------------------------------------------------------------------------------|----------|-------------|----------------|----------------|-----------------|
| 54       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 948                                                                                           |          |             | SAC 50         | 4,76           | 9,5             |
| 55       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1184                                                                                          |          |             | SAC 50         | 5,95           | 11,9            |
| 56       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 727                                                                                           |          |             | SAC 50         | 3,65           | 7,3             |
| 57       |               |        |        | 22            |            |           | PI/Ch 9.5 x 100 x 277                                                                                        |          |             | SAC 50         | 2,07           | 45,4            |
| 58       |               |        |        | 22            |            |           | PI/Ch 9.5 x 40 x 150                                                                                         |          |             | SAC 50         | 0,36           | 8,0             |
| 59       |               |        |        | 22            |            |           | PI/Ch 9.5 x 50 x 130                                                                                         |          |             | SAC 50         | 0,43           | 9,4             |
| 60       |               |        |        | 1             |            |           | PI/Ch 8 x 80 x 2325                                                                                          |          |             | SAC 50         | 11,68          | 11,7            |
| 61       |               |        |        | 16            |            |           | PI/Ch 5 x 25 x 75                                                                                            |          |             | SAC 50         | 0,07           | 1,2             |
| 62       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 3201                                                                                     |          |             | ASTM 36        | 11,11          | 22,2            |
| 63       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 1289                                                                                     |          |             | ASTM 36        | 4,47           | 8,9             |
| 64       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 203 x 3201                                                                              |          |             | RUBBER         | 17,65          | 35,3            |
| 65       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 230 x 1289                                                                              |          |             | RUBBER         | 6,99           | 14,0            |
| 66       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 28,08          | 56,2            |
| 67       |               |        |        | 8             |            |           | PI/Ch 25.4 x 380 x 490    |          |             | NOTA - 2       | 37,13          | 297,0           |
| 68       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 34,30          | 68,6            |
| 69       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 255 x 490                                                                                       |          |             | NOTA - 2       | 12,45          | 24,9            |
| 70       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 298 x 490                                                                                       |          |             | NOTA - 2       | 16,38          | 32,8            |
| 71       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490                                                                                       |          |             | NOTA - 2       | 32,00          | 64,0            |
| 72       |               |        |        | 10            |            |           | PI/Ch 25.4 x 330 x 490                                                                                       |          |             | NOTA - 2       | 32,24          | 322,4           |
| 73       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 420                                                                                       |          |             | NOTA - 2       | 27,64          | 55,3            |
| 74       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490                                                                                       |          |             | NOTA - 2       | 28,32          | 56,6            |
| 75       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 351 x 490                                                                                       |          |             | NOTA - 2       | 21,58          | 43,2            |
| 76       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 36,99          | 74,0            |
| 77       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 420  |          |             | NOTA - 2       | 31,82          | 63,6            |
| 78       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 30,82          | 61,6            |
| 79       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 30,83          | 61,7            |
| 80       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 400                                                                                       |          |             | NOTA - 2       | 30,31          | 60,6            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 B**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                        | Standard         | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|-----------------------------------------------------|------------------|-------------|----------------|----------------|-----------------|
| 81       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 319 x 336                              |                  |             | NOTA - 2       | 20,67          | 41,3            |
| 82       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 352 x 490                              |                  |             | NOTA - 2       | 32,84          | 65,7            |
| 83       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 364 x 385                              |                  |             | NOTA - 2       | 27,52          | 55,0            |
| 84       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 373 x 490                              |                  |             | NOTA - 2       | 36,07          | 72,1            |
| 85       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 379 x 490                              |                  |             | NOTA - 2       | 36,76          | 73,5            |
| 86       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                              |                  |             | NOTA - 2       | 37,02          | 74,0            |
| 87       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 378 x 490                              |                  |             | NOTA - 2       | 36,75          | 73,5            |
| 88       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 375 x 490                              |                  |             | NOTA - 2       | 36,41          | 72,8            |
| 89       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 371 x 490                              |                  |             | NOTA - 2       | 36,04          | 72,1            |
| 90       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 367 x 490                              |                  |             | NOTA - 2       | 25,87          | 51,7            |
| 91       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 250 x 333                              |                  |             | NOTA - 2       | 14,48          | 29,0            |
| 92       |               |        |        | 2             |            |           | PI/Ch 25.4 x 250 x 333                              |                  |             | NOTA - 2       | 16,60          | 33,2            |
| 93       |               |        |        | 1             |            |           | PI/Ch 25.4 x 250 x 490                              |                  |             | NOTA - 2       | 24,43          | 24,4            |
| 94       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 339                              |                  |             | NOTA - 2       | 20,87          | 41,7            |
| 95       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 457                              |                  |             | NOTA - 2       | 29,81          | 59,6            |
| 96       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 340 x 420                              |                  |             | NOTA - 2       | 28,47          | 56,9            |
| 97       |               |        |        | 1             |            |           | PI/Ch 25.4 x 340 x 285                              |                  |             | NOTA - 2       | 19,34          | 19,3            |
| 98       | 415.54652.000 | A3     |        | 8             |            |           | BOLT DIA 30 X 205                                   |                  |             | AISI 4010      | 1,14           | 9,1             |
| 99       | 415.54653.000 | A3     |        | 4             |            |           | BOLT DIA 30 X 130                                   |                  |             | AISI 4010      | 0,72           | 2,9             |
| 100      | 415.54654.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 64.5                                |                  |             | AISI 4010      | 0,32           | 2,6             |
| 101      | 415.54655.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 26                                  |                  |             | AISI 4010      | 0,13           | 1,0             |
| 102      | 415.54656.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 24                                  |                  |             | AISI 4010      | 0,12           | 1,0             |
| 103      | 415.54657.000 | A3     |        | 2             |            |           | BOLT DIA 25 X 150                                   |                  |             | AISI 4010      | 0,58           | 1,2             |
| 104      | 415.54658.000 | A3     |        | 2             |            |           | BOLT DIA 30 X 68                                    |                  |             | AISI 4010      | 0,38           | 0,8             |
| 105      | 415.54659.000 | A3     |        | 4             |            |           | SLEEVE DIA 37 X 36.5                                |                  |             | AISI 4010      | 0,16           | 0,6             |
| 106      |               |        |        | 1             |            |           | HYDRAULIC CYLINDER<br>CDH1MP5/40/28/170A1X/B1CMUMWW | BOSCH<br>REXROTH |             |                |                |                 |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 B**

Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0

Date / Data: 13.02.2004



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                                                                            | Standard         | VAMH Supply | Material grade | Weight/item kg      | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|---------------------------------------------------------------------------------------------------------|------------------|-------------|----------------|---------------------|-----------------|
| 107      |               |        |        | 4             |            |           | HYDRAULIC CYLINDER<br>CDH1MP5/50/36/230A1X/B1CMUMWW                                                     | BOSCH<br>REXROTH |             |                |                     |                 |
| 108      |               |        |        | 238           |            |           | Hex. Bolt/Parafuso M20x50                                                                               | DIN 87           |             | 4.8            | 0,18                | 41,9            |
| 109      |               |        |        | 268           |            |           | Hex. Nut/Porca M20                                                                                      | DIN 934          |             | 8              | 0,06                | 17,3            |
| 110      |               |        |        | 298           |            |           | Washer/Aurela 21                                                                                        | DIN 126          |             | 200 HV         | 0,02                | 5,5             |
| 111      |               |        |        | 30            |            |           | Hex Bolt/Parafuso M20x45                                                                                | DIN 933          |             | 5.6            | 0,17                | 5,0             |
| 112      |               |        |        | 32            |            |           | Hex Bolt/Parafuso M8x20                                                                                 | DIN 933          |             | 5.6            | 0,01                | 0,4             |
| 113      |               |        |        | 32            |            |           | Washer/Aurela B8                                                                                        | DIN 127          |             | 200 HV         | 0,00                | 0,1             |
| 114      |               |        |        | 2             | 1          | 1         | PL/CH 25,4 X380X420  |                  |             | NOTA - 2       | 31,82               | 63,6            |
| 115      |               |        |        | 12            |            |           | PL/CH 25,4 X380X490  |                  |             | NOTA - 2       | 37,13               | 445,6           |
| 116      |               |        |        | 14            |            |           | PL/CH 25,4 X380X490  |                  |             | NOTA - 2       | 37,13               | 519,8           |
| 117      |               |        |        | 2             | 1          | 1         | PL/CH 25,4 X380X420  |                  |             | NOTA - 2       | 31,82               | 63,6            |
|          |               |        |        |               |            |           |                                                                                                         |                  |             |                | <b>Total weight</b> | <b>6388,3</b>   |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 C**

Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0

Date / Data: 25.01.2005



| Item No. | Component No.  | Format         | B.O.M. | Quantity Pcs. | right Pcs.   | left Pcs. | Denomination            | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|----------------|----------------|--------|---------------|--------------|-----------|-------------------------|----------|-------------|----------------|----------------|-----------------|
| Item No. | Nº. Componente | Format Formato | B.O.M. | Quant. Pcs.   | Direita Pcs. | Esq. Pcs. | Descrição               | Norma    | VAMH        | Material grade | Peso/item kg   | Peso Total kg   |
| 1        |                |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 1313 x 5104 |          |             | SAC 50         | 332,96         | 665,9           |
| 2        |                |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 759 x 4832  |          |             | SAC 50         | 257,44         | 514,9           |
| 3        |                |                |        | 1             |              |           | PI/Ch 8 x 640 x 1922    |          |             | SAC 50         | 68,80          | 68,8            |
| 4        |                |                |        | 1             |              |           | PI/Ch 9.5 x 730 x 1495  |          |             | SAC 50         | 70,66          | 70,7            |
| 5        |                |                |        | 2             |              |           | PI/Ch 9.5 x 200 x 2388  |          |             | SAC 50         | 35,61          | 71,2            |
| 6        |                |                |        | 2             |              |           | PI/Ch 9.5 x 213 x 927   |          |             | SAC 50         | 14,28          | 28,6            |
| 7        |                |                |        | 2             |              |           | PI/Ch 9.5 x 559 x 2214  |          |             | SAC 50         | 41,41          | 82,8            |
| 8        |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 1780    |          |             | SAC 50         | 17,57          | 35,1            |
| 9        |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2203    |          |             | SAC 50         | 21,98          | 44,0            |
| 10       |                |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2329    |          |             | SAC 50         | 23,51          | 47,0            |
| 11       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,70           | 15,4            |
| 12       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,76           | 15,5            |
| 13       |                |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,67           | 15,3            |
| 14       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1658  |          |             | SAC 50         | 53,22          | 106,4           |
| 15       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1743  |          |             | SAC 50         | 55,22          | 110,4           |
| 16       |                |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2308  |          |             | SAC 50         | 62,18          | 124,4           |
| 17       |                |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2298  |          |             | SAC 50         | 62,03          | 124,1           |
| 18       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2179  |          |             | SAC 50         | 66,93          | 133,9           |
| 19       |                |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2117  |          |             | SAC 50         | 66,05          | 132,1           |
| 20       |                |                |        | 6             |              |           | PI/Ch 8 x 161 x 724     |          |             | SAC 50         | 7,32           | 43,9            |
| 21       |                |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 22       |                |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 23       |                |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 24       |                |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 25       |                |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 800   |          |             | SAC 50         | 5,84           | 11,7            |
| 26       |                |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 135   |          |             | SAC 50         | 0,82           | 1,6             |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 C**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 25.01.2005



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination           | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|------------------------|----------|-------------|----------------|----------------|-----------------|
| 27       |               |        |        | 2             |            |           | PI/Ch 12.5 x 90 x 135  |          |             | SAC 50         | 0,82           | 1,6             |
| 28       |               |        |        | 2             |            |           | PI/Ch 12.5 x 80 x 492  |          |             | SAC 50         | 3,74           | 7,5             |
| 29       |               |        |        | 2             |            |           | PI/Ch 8 x 170 x 347    |          |             | SAC 50         | 2,11           | 4,2             |
| 30       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 458     |          |             | SAC 50         | 2,18           | 4,4             |
| 31       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 100     |          |             | SAC 50         | 0,50           | 1,0             |
| 32       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 347     |          |             | SAC 50         | 1,74           | 7,0             |
| 33       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 240     |          |             | SAC 50         | 1,09           | 2,2             |
| 34       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 148     |          |             | SAC 50         | 0,63           | 1,3             |
| 35       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 36       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 37       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 94      |          |             | SAC 50         | 0,40           | 0,8             |
| 38       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 269     |          |             | SAC 50         | 1,29           | 2,6             |
| 39       |               |        |        | 8             |            |           | PI/Ch 8 x 80 x 497     |          |             | SAC 50         | 2,50           | 20,0            |
| 40       |               |        |        | 20            |            |           | PI/Ch 8 x 80 x 364     |          |             | SAC 50         | 1,74           | 34,7            |
| 41       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1101    |          |             | SAC 50         | 5,53           | 11,1            |
| 42       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1420    |          |             | SAC 50         | 7,13           | 14,3            |
| 43       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 740     |          |             | SAC 50         | 3,72           | 7,4             |
| 44       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 643     |          |             | SAC 50         | 3,20           | 6,4             |
| 45       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 339     |          |             | SAC 50         | 1,67           | 3,3             |
| 46       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 441     |          |             | SAC 50         | 2,18           | 4,4             |
| 47       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1101    |          |             | SAC 50         | 4,15           | 8,3             |
| 48       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1420    |          |             | SAC 50         | 5,35           | 10,7            |
| 49       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 740     |          |             | SAC 50         | 2,79           | 5,6             |
| 50       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 480     |          |             | SAC 50         | 1,81           | 3,6             |
| 51       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 746     |          |             | SAC 50         | 3,75           | 7,5             |
| 52       |               |        |        | 6             |            |           | PI/Ch 8 x 80 x 882     |          |             | SAC 50         | 4,43           | 26,6            |
| 53       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 1500    |          |             | SAC 50         | 7,54           | 30,1            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 C**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 25.01.2005



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                                                                                 | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|--------------------------------------------------------------------------------------------------------------|----------|-------------|----------------|----------------|-----------------|
| 54       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 948                                                                                           |          |             | SAC 50         | 4,76           | 9,5             |
| 55       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1184                                                                                          |          |             | SAC 50         | 5,95           | 11,9            |
| 56       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 727                                                                                           |          |             | SAC 50         | 3,65           | 7,3             |
| 57       |               |        |        | 22            |            |           | PI/Ch 9.5 x 100 x 277                                                                                        |          |             | SAC 50         | 2,07           | 45,4            |
| 58       |               |        |        | 22            |            |           | PI/Ch 9.5 x 40 x 150                                                                                         |          |             | SAC 50         | 0,36           | 8,0             |
| 59       |               |        |        | 22            |            |           | PI/Ch 9.5 x 50 x 130                                                                                         |          |             | SAC 50         | 0,43           | 9,4             |
| 60       |               |        |        | 1             |            |           | PI/Ch 8 x 80 x 2325                                                                                          |          |             | SAC 50         | 11,68          | 11,7            |
| 61       |               |        |        | 16            |            |           | PI/Ch 5 x 25 x 75                                                                                            |          |             | SAC 50         | 0,07           | 1,2             |
| 62       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 3201                                                                                     |          |             | ASTM 36        | 11,11          | 22,2            |
| 63       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 1289                                                                                     |          |             | ASTM 36        | 4,47           | 8,9             |
| 64       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 203 x 3201                                                                              |          |             | RUBBER         | 17,65          | 35,3            |
| 65       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 230 x 1289                                                                              |          |             | RUBBER         | 6,99           | 14,0            |
| 66       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 28,08          | 56,2            |
| 67       |               |        |        | 8             |            |           | PI/Ch 25.4 x 380 x 490    |          |             | NOTA - 2       | 37,13          | 297,0           |
| 68       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 34,30          | 68,6            |
| 69       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 255 x 490                                                                                       |          |             | NOTA - 2       | 12,45          | 24,9            |
| 70       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 298 x 490                                                                                       |          |             | NOTA - 2       | 16,38          | 32,8            |
| 71       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490                                                                                       |          |             | NOTA - 2       | 32,00          | 64,0            |
| 72       |               |        |        | 10            |            |           | PI/Ch 25.4 x 330 x 490                                                                                       |          |             | NOTA - 2       | 32,24          | 322,4           |
| 73       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 420                                                                                       |          |             | NOTA - 2       | 27,64          | 55,3            |
| 74       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490                                                                                       |          |             | NOTA - 2       | 28,32          | 56,6            |
| 75       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 351 x 490                                                                                       |          |             | NOTA - 2       | 21,58          | 43,2            |
| 76       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 36,99          | 74,0            |
| 77       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 420  |          |             | NOTA - 2       | 31,82          | 63,6            |
| 78       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 30,82          | 61,6            |
| 79       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                       |          |             | NOTA - 2       | 30,83          | 61,7            |
| 80       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 400                                                                                       |          |             | NOTA - 2       | 30,31          | 60,6            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000 C**  
Drawing Title / Título: **RECEIVING CHUTE**

Format / Formato: A0  
Date / Data: 25.01.2005



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                                                                            | Standard         | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|---------------------------------------------------------------------------------------------------------|------------------|-------------|----------------|----------------|-----------------|
| 81       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 319 x 336                                                                                  |                  |             | NOTA - 2       | 20,67          | 41,3            |
| 82       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 352 x 490                                                                                  |                  |             | NOTA - 2       | 32,84          | 65,7            |
| 83       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 364 x 385                                                                                  |                  |             | NOTA - 2       | 27,52          | 55,0            |
| 84       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 373 x 490                                                                                  |                  |             | NOTA - 2       | 36,07          | 72,1            |
| 85       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 379 x 490                                                                                  |                  |             | NOTA - 2       | 36,76          | 73,5            |
| 86       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490                                                                                  |                  |             | NOTA - 2       | 37,02          | 74,0            |
| 87       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 378 x 490                                                                                  |                  |             | NOTA - 2       | 36,75          | 73,5            |
| 88       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 375 x 490                                                                                  |                  |             | NOTA - 2       | 36,41          | 72,8            |
| 89       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 371 x 490                                                                                  |                  |             | NOTA - 2       | 36,04          | 72,1            |
| 90       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 367 x 490                                                                                  |                  |             | NOTA - 2       | 25,87          | 51,7            |
| 91       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 250 x 333                                                                                  |                  |             | NOTA - 2       | 14,48          | 29,0            |
| 92       |               |        |        | 2             |            |           | PI/Ch 25.4 x 250 x 333                                                                                  |                  |             | NOTA - 2       | 16,60          | 33,2            |
| 93       |               |        |        | 1             |            |           | PI/Ch 25.4 x 250 x 490                                                                                  |                  |             | NOTA - 2       | 24,43          | 24,4            |
| 94       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 339                                                                                  |                  |             | NOTA - 2       | 20,87          | 41,7            |
| 95       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 457                                                                                  |                  |             | NOTA - 2       | 29,81          | 59,6            |
| 96       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 340 x 420                                                                                  |                  |             | NOTA - 2       | 28,47          | 56,9            |
| 97       |               |        |        | 1             |            |           | PI/Ch 25.4 x 340 x 285                                                                                  |                  |             | NOTA - 2       | 19,34          | 19,3            |
| 98       | 415.54652.000 | A3     |        | 8             |            |           | BOLT DIA 30 X 205                                                                                       |                  |             | AISI 4010      | 1,14           | 9,1             |
| 99       | 415.54653.000 | A3     |        | 4             |            |           | BOLT DIA 30 X 130                                                                                       |                  |             | AISI 4010      | 0,72           | 2,9             |
| 100      | 415.54654.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 64.5                                                                                    |                  |             | AISI 4010      | 0,32           | 2,6             |
| 101      | 415.54655.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 26                                                                                      |                  |             | AISI 4010      | 0,13           | 1,0             |
| 102      | 415.54656.000 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 24                                                                                      |                  |             | AISI 4010      | 0,12           | 1,0             |
| 103      | 415.54657.000 | A3     |        | 2             |            |           | BOLT DIA 25 X 180  |                  |             | AISI 4010      | 0,70           | 1,4             |
| 104      | 415.54658.000 | A3     |        | 2             |            |           | BOLT DIA 30 X 68                                                                                        |                  |             | AISI 4010      | 0,38           | 0,8             |
| 105      | 415.54659.000 | A3     |        | 4             |            |           | SLEEVE DIA 37 X 36.5                                                                                    |                  |             | AISI 4010      | 0,16           | 0,6             |
| 106      |               |        |        | 1             |            |           | HYDRAULIC CYLINDER<br>CDH1MP5/40/28/170A1X/B1CMUMWW                                                     | BOSCH<br>REXROTH |             |                |                |                 |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: 415.53862.000 C

Drawing Title / Título: RECEIVING CHUTE

Format / Formato: A0

Date / Data: 25.01.2005



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                                                                            | Standard         | VAMH Supply | Material grade | Weight/item kg      | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|---------------------------------------------------------------------------------------------------------|------------------|-------------|----------------|---------------------|-----------------|
| 107      |               |        |        | 4             |            |           | HYDRAULIC CYLINDER<br>CDH1MP5/50/36/230A1X/B1CMUMWW                                                     | BOSCH<br>REXROTH |             |                |                     |                 |
| 108      |               |        |        | 238           |            |           | Hex. Bolt/Parafuso M20x50                                                                               | DIN 87           |             | 4.8            | 0,18                | 41,9            |
| 109      |               |        |        | 268           |            |           | Hex. Nut/Porca M20                                                                                      | DIN 934          |             | 8              | 0,06                | 17,3            |
| 110      |               |        |        | 298           |            |           | Washer/Aurela 21                                                                                        | DIN 126          |             | 200 HV         | 0,02                | 5,5             |
| 111      |               |        |        | 30            |            |           | Hex Bolt/Parafuso M20x45                                                                                | DIN 933          |             | 5.6            | 0,17                | 5,0             |
| 112      |               |        |        | 32            |            |           | Hex Bolt/Parafuso M8x20                                                                                 | DIN 933          |             | 5.6            | 0,01                | 0,4             |
| 113      |               |        |        | 32            |            |           | Washer/Aurela B8                                                                                        | DIN 127          |             | 200 HV         | 0,00                | 0,1             |
| 114      |               |        |        | 2             | 1          | 1         | PL/CH 25,4 X380X420  |                  |             | NOTA - 2       | 31,82               | 63,6            |
| 115      |               |        |        | 12            |            |           | PL/CH 25,4 X380X490  |                  |             | NOTA - 2       | 37,13               | 445,6           |
| 116      |               |        |        | 14            |            |           | PL/CH 25,4 X380X490  |                  |             | NOTA - 2       | 37,13               | 519,8           |
| 117      |               |        |        | 2             | 1          | 1         | PL/CH 25,4 X380X420  |                  |             | NOTA - 2       | 31,82               | 63,6            |
|          |               |        |        |               |            |           |                                                                                                         |                  |             |                | <b>Total weight</b> | <b>6388,5</b>   |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. nº.: **415.53862.000**  
Des. nº.CVRD: **LM-313T-46-0102/46-2311**  
Drawing Title / Título: **Chute de recebimento**

Format / Formato: A0

Date / Data: 25.01.2005



| Item No. | Component No.          | Format         | B.O.M. | Quantity Pcs. | right Pcs.   | left Pcs. | Denomination            | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|------------------------|----------------|--------|---------------|--------------|-----------|-------------------------|----------|-------------|----------------|----------------|-----------------|
| Item No. | Nº. Componente nº CVRD | Format Formato | B.O.M. | Quant. Pcs.   | Direita Pcs. | Esq. Pcs. | Descrição               | Norma    | VAMH        | Material grade | Peso/item kg   | Peso Total kg   |
| 1        |                        |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 1313 x 5104 |          |             | SAC 50         | 332,96         | 665,9           |
| 2        |                        |                |        | 2             | 1            | 1         | PI/Ch 9.5 x 759 x 4832  |          |             | SAC 50         | 257,44         | 514,9           |
| 3        |                        |                |        | 1             |              |           | PI/Ch 8 x 640 x 1922    |          |             | SAC 50         | 68,80          | 68,8            |
| 4        |                        |                |        | 1             |              |           | PI/Ch 9.5 x 730 x 1495  |          |             | SAC 50         | 70,66          | 70,7            |
| 5        |                        |                |        | 2             |              |           | PI/Ch 9.5 x 200 x 2388  |          |             | SAC 50         | 35,61          | 71,2            |
| 6        |                        |                |        | 2             |              |           | PI/Ch 9.5 x 213 x 927   |          |             | SAC 50         | 14,28          | 28,6            |
| 7        |                        |                |        | 2             |              |           | PI/Ch 9.5 x 559 x 2214  |          |             | SAC 50         | 41,41          | 82,8            |
| 8        |                        |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 1780    |          |             | SAC 50         | 17,57          | 35,1            |
| 9        |                        |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2203    |          |             | SAC 50         | 21,98          | 44,0            |
| 10       |                        |                |        | 2             | 1            | 1         | PI/Ch 8 x 161 x 2329    |          |             | SAC 50         | 23,51          | 47,0            |
| 11       |                        |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,70           | 15,4            |
| 12       |                        |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,76           | 15,5            |
| 13       |                        |                |        | 2             |              |           | PI/Ch 8 x 350 x 360     |          |             | SAC 50         | 7,67           | 15,3            |
| 14       |                        |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1658  |          |             | SAC 50         | 53,22          | 106,4           |
| 15       |                        |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 1743  |          |             | SAC 50         | 55,22          | 110,4           |
| 16       |                        |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2308  |          |             | SAC 50         | 62,18          | 124,4           |
| 17       |                        |                |        | 2             |              |           | PI/Ch 9.5 x 789 x 2298  |          |             | SAC 50         | 62,03          | 124,1           |
| 18       |                        |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2179  |          |             | SAC 50         | 66,93          | 133,9           |
| 19       |                        |                |        | 2             |              |           | PI/Ch 9.5 x 831 x 2117  |          |             | SAC 50         | 66,05          | 132,1           |
| 20       |                        |                |        | 6             |              |           | PI/Ch 8 x 161 x 724     |          |             | SAC 50         | 7,32           | 43,9            |
| 21       |                        |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 22       |                        |                |        | 1             |              |           | PI/Ch 12.5 x 250 x 420  |          |             | SAC 50         | 5,44           | 5,4             |
| 23       |                        |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 24       |                        |                |        | 1             |              |           | PI/Ch 12.5 x 135 x 730  |          |             | SAC 50         | 5,79           | 5,8             |
| 25       |                        |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 800   |          |             | SAC 50         | 5,84           | 11,7            |
| 26       |                        |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 135   |          |             | SAC 50         | 0,82           | 1,6             |
| 27       |                        |                |        | 2             |              |           | PI/Ch 12.5 x 90 x 135   |          |             | SAC 50         | 0,82           | 1,6             |
| 28       |                        |                |        | 2             |              |           | PI/Ch 12.5 x 80 x 492   |          |             | SAC 50         | 3,74           | 7,5             |
| 29       |                        |                |        | 2             |              |           | PI/Ch 8 x 170 x 347     |          |             | SAC 50         | 2,11           | 4,2             |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. n°.: **415.53862.000**  
Des. n°.CVRD: **LM-313T-46-0102/46-2311**  
Drawing Title / Título: **Chute de recebimento**

Format / Formato: A0

Date / Data: 25.01.2005



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination           | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|------------------------|----------|-------------|----------------|----------------|-----------------|
| 30       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 458     |          |             | SAC 50         | 2,18           | 4,4             |
| 31       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 100     |          |             | SAC 50         | 0,50           | 1,0             |
| 32       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 347     |          |             | SAC 50         | 1,74           | 7,0             |
| 33       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 240     |          |             | SAC 50         | 1,09           | 2,2             |
| 34       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 148     |          |             | SAC 50         | 0,63           | 1,3             |
| 35       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 36       |               |        |        | 4             |            |           | PI/Ch 12.5 x 204 x 479 |          |             | SAC 50         | 6,30           | 25,2            |
| 37       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 94      |          |             | SAC 50         | 0,40           | 0,8             |
| 38       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 269     |          |             | SAC 50         | 1,29           | 2,6             |
| 39       |               |        |        | 8             |            |           | PI/Ch 8 x 80 x 497     |          |             | SAC 50         | 2,50           | 20,0            |
| 40       |               |        |        | 20            |            |           | PI/Ch 8 x 80 x 364     |          |             | SAC 50         | 1,74           | 34,7            |
| 41       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1101    |          |             | SAC 50         | 5,53           | 11,1            |
| 42       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1420    |          |             | SAC 50         | 7,13           | 14,3            |
| 43       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 740     |          |             | SAC 50         | 3,72           | 7,4             |
| 44       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 643     |          |             | SAC 50         | 3,20           | 6,4             |
| 45       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 339     |          |             | SAC 50         | 1,67           | 3,3             |
| 46       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 441     |          |             | SAC 50         | 2,18           | 4,4             |
| 47       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1101    |          |             | SAC 50         | 4,15           | 8,3             |
| 48       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 1420    |          |             | SAC 50         | 5,35           | 10,7            |
| 49       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 740     |          |             | SAC 50         | 2,79           | 5,6             |
| 50       |               |        |        | 2             |            |           | PI/Ch 8 x 60 x 480     |          |             | SAC 50         | 1,81           | 3,6             |
| 51       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 746     |          |             | SAC 50         | 3,75           | 7,5             |
| 52       |               |        |        | 6             |            |           | PI/Ch 8 x 80 x 882     |          |             | SAC 50         | 4,43           | 26,6            |
| 53       |               |        |        | 4             |            |           | PI/Ch 8 x 80 x 1500    |          |             | SAC 50         | 7,54           | 30,1            |
| 54       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 948     |          |             | SAC 50         | 4,76           | 9,5             |
| 55       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 1184    |          |             | SAC 50         | 5,95           | 11,9            |
| 56       |               |        |        | 2             |            |           | PI/Ch 8 x 80 x 727     |          |             | SAC 50         | 3,65           | 7,3             |
| 57       |               |        |        | 22            |            |           | PI/Ch 9.5 x 100 x 277  |          |             | SAC 50         | 2,07           | 45,4            |
| 58       |               |        |        | 22            |            |           | PI/Ch 9.5 x 40 x 150   |          |             | SAC 50         | 0,36           | 8,0             |
| 59       |               |        |        | 22            |            |           | PI/Ch 9.5 x 50 x 130   |          |             | SAC 50         | 0,43           | 9,4             |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. n°.: **415.53862.000**  
 Des. n°.CVRD: **LM-313T-46-0102/46-2311**  
 Drawing Title / Título: **Chute de recebimento**

Format / Formato: A0

Date / Data: 25.01.2005



| Item No. | Component No. | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                    | Standard | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|----------|---------------|--------|--------|---------------|------------|-----------|---------------------------------|----------|-------------|----------------|----------------|-----------------|
| 60       |               |        |        | 1             |            |           | PI/Ch 8 x 80 x 2325             |          |             | SAC 50         | 11,68          | 11,7            |
| 61       |               |        |        | 16            |            |           | PI/Ch 5 x 25 x 75               |          |             | SAC 50         | 0,07           | 1,2             |
| 62       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 3201        |          |             | ASTM 36        | 11,11          | 22,2            |
| 63       |               |        |        | 2             |            |           | L 38x38x3.47 kg/m x 1289        |          |             | ASTM 36        | 4,47           | 8,9             |
| 64       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 203 x 3201 |          |             | RUBBER         | 17,65          | 35,3            |
| 65       |               |        |        | 2             |            |           | Rubber/Borracha 25 x 230 x 1289 |          |             | RUBBER         | 6,99           | 14,0            |
| 66       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 28,08          | 56,2            |
| 67       |               |        |        | 8             |            |           | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 37,13          | 297,0           |
| 68       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 34,30          | 68,6            |
| 69       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 255 x 490          |          |             | NOTA - 2       | 12,45          | 24,9            |
| 70       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 298 x 490          |          |             | NOTA - 2       | 16,38          | 32,8            |
| 71       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490          |          |             | NOTA - 2       | 32,00          | 64,0            |
| 72       |               |        |        | 10            |            |           | PI/Ch 25.4 x 330 x 490          |          |             | NOTA - 2       | 32,24          | 322,4           |
| 73       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 420          |          |             | NOTA - 2       | 27,64          | 55,3            |
| 74       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 330 x 490          |          |             | NOTA - 2       | 28,32          | 56,6            |
| 75       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 351 x 490          |          |             | NOTA - 2       | 21,58          | 43,2            |
| 76       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 36,99          | 74,0            |
| 77       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 420          |          |             | NOTA - 2       | 31,82          | 63,6            |
| 78       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 30,82          | 61,6            |
| 79       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 490          |          |             | NOTA - 2       | 30,83          | 61,7            |
| 80       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 400          |          |             | NOTA - 2       | 30,31          | 60,6            |
| 81       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 215 x 336          |          |             | NOTA - 2       | 14,20          | 28,4            |
| 82       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 255 x 490          |          |             | NOTA - 2       | 24,60          | 49,2            |
| 83       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 270 x 385          |          |             | NOTA - 2       | 20,50          | 41,0            |
| 84       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 300 x 490          |          |             | NOTA - 2       | 28,90          | 57,8            |
| 85       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 310 x 490          |          |             | NOTA - 2       | 29,90          | 59,8            |
| 86       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 315 x 490          |          |             | NOTA - 2       | 30,40          | 60,8            |
| 87       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 325 x 490          |          |             | NOTA - 2       | 31,40          | 62,8            |
| 88       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 325 x 490          |          |             | NOTA - 2       | 31,40          | 62,8            |
| 89       |               |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 325 x 490          |          |             | NOTA - 2       | 31,40          | 62,8            |

# C487-CVRD VITORIA VASR 2130/50

## PART LIST - LISTA DE COMPONENTES

Drawing Number / Des. n°.: **415.53862.000**  
Des. n°CVRD: **LM-313T-46-0102/46-2311**  
Drawing Title / Título: **Chute de recebimento**

Format / Formato: A0

Date / Data: 25.01.2005



| Item No.            | Component No.          | Format | B.O.M. | Quantity Pcs. | right Pcs. | left Pcs. | Denomination                                         | Standard         | VAMH Supply | Material grade | Weight/item kg | Total Weight kg |
|---------------------|------------------------|--------|--------|---------------|------------|-----------|------------------------------------------------------|------------------|-------------|----------------|----------------|-----------------|
| 90                  |                        |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 325 x 490                               |                  |             | NOTA - 2       | 31,40          | 62,8            |
| 91                  |                        |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 250 x 333                               |                  |             | NOTA - 2       | 14,48          | 29,0            |
| 92                  |                        |        |        | 2             |            |           | PI/Ch 25.4 x 250 x 333                               |                  |             | NOTA - 2       | 16,60          | 33,2            |
| 93                  |                        |        |        | 1             |            |           | PI/Ch 25.4 x 250 x 490                               |                  |             | NOTA - 2       | 24,43          | 24,4            |
| 94                  |                        |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 339                               |                  |             | NOTA - 2       | 20,87          | 41,7            |
| 95                  |                        |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 380 x 457                               |                  |             | NOTA - 2       | 29,81          | 59,6            |
| 96                  |                        |        |        | 2             | 1          | 1         | PI/Ch 25.4 x 340 x 420                               |                  |             | NOTA - 2       | 28,47          | 56,9            |
| 97                  |                        |        |        | 1             |            |           | PI/Ch 25.4 x 340 x 285                               |                  |             | NOTA - 2       | 19,34          | 19,3            |
| 98                  | DF-313T-460102/46-2353 | A3     |        | 8             |            |           | BOLT DIA 30 X 205                                    |                  |             | AISI 4010      | 1,14           | 9,1             |
| 99                  | DF-313T-460102/46-2354 | A3     |        | 4             |            |           | BOLT DIA 30 X 130                                    |                  |             | AISI 4010      | 0,72           | 2,9             |
| 100                 | DF-313T-460102/46-2355 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 64.5                                 |                  |             | AISI 4010      | 0,32           | 2,6             |
| 101                 | DF-313T-460102/46-2356 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 26                                   |                  |             | AISI 4010      | 0,13           | 1,0             |
| 102                 | DF-313T-460102/46-2357 | A3     |        | 8             |            |           | SLEEVE DIA 42 X 24                                   |                  |             | AISI 4010      | 0,12           | 1,0             |
| 103                 | DF-313T-460102/46-2358 | A3     |        | 2             |            |           | BOLT DIA 25 X 180                                    |                  |             | AISI 4010      | 0,70           | 1,4             |
| 104                 | DF-313T-460102/46-2359 | A3     |        | 2             |            |           | BOLT DIA 30 X 68                                     |                  |             | AISI 4010      | 0,38           | 0,8             |
| 105                 | DF-313T-460102/46-2360 | A3     |        | 4             |            |           | SLEEVE DIA 37 X 36.5                                 |                  |             | AISI 4010      | 0,16           | 0,6             |
| 106                 |                        |        |        | 1             |            |           | CILINDRO HIDRAULICO<br>CDH1MP5/40/28/170A1X/B1CMUMWW | BOSCH<br>REXROTH |             |                |                |                 |
| 107                 |                        |        |        | 4             |            |           | CILINDRO HIDRAULICO<br>CDH1MP5/50/36/230A1X/B1CMUMWW | BOSCH<br>REXROTH |             |                |                |                 |
| 108                 |                        |        |        | 238           |            |           | Hex. Bolt/Parafuso M20x50                            | DIN 87           |             | 4.8            | 0,18           | 41,9            |
| 109                 |                        |        |        | 268           |            |           | Hex. Nut/Porca M20                                   | DIN 934          |             | 8              | 0,06           | 17,3            |
| 110                 |                        |        |        | 298           |            |           | Washer/Arruela 21                                    | DIN 126          |             | 200 HV         | 0,02           | 5,5             |
| 111                 |                        |        |        | 30            |            |           | Hex Bolt/Parafuso M20x45                             | DIN 933          |             | 5.6            | 0,17           | 5,0             |
| 112                 |                        |        |        | 32            |            |           | Hex Bolt/Parafuso M8x20                              | DIN 933          |             | 5.6            | 0,01           | 0,4             |
| 113                 |                        |        |        | 32            |            |           | Washer/Arruela B8                                    | DIN 127          |             | 200 HV         | 0,00           | 0,1             |
| 114                 |                        |        |        | 2             | 1          | 1         | PL/CH 25,4 X380X420                                  |                  |             | NOTA - 2       | 31,82          | 63,6            |
| 115                 |                        |        |        | 12            |            |           | PL/CH 25,4 X380X490                                  |                  |             | NOTA - 2       | 37,13          | 445,6           |
| 116                 |                        |        |        | 14            |            |           | PL/CH 25,4 X380X490                                  |                  |             | NOTA - 2       | 37,13          | 519,8           |
| 117                 |                        |        |        | 2             | 1          | 1         | PL/CH 25,4 X380X420                                  |                  |             | NOTA - 2       | 31,82          | 63,6            |
| <b>Total weight</b> |                        |        |        |               |            |           |                                                      |                  |             |                |                | <b>6284,8</b>   |