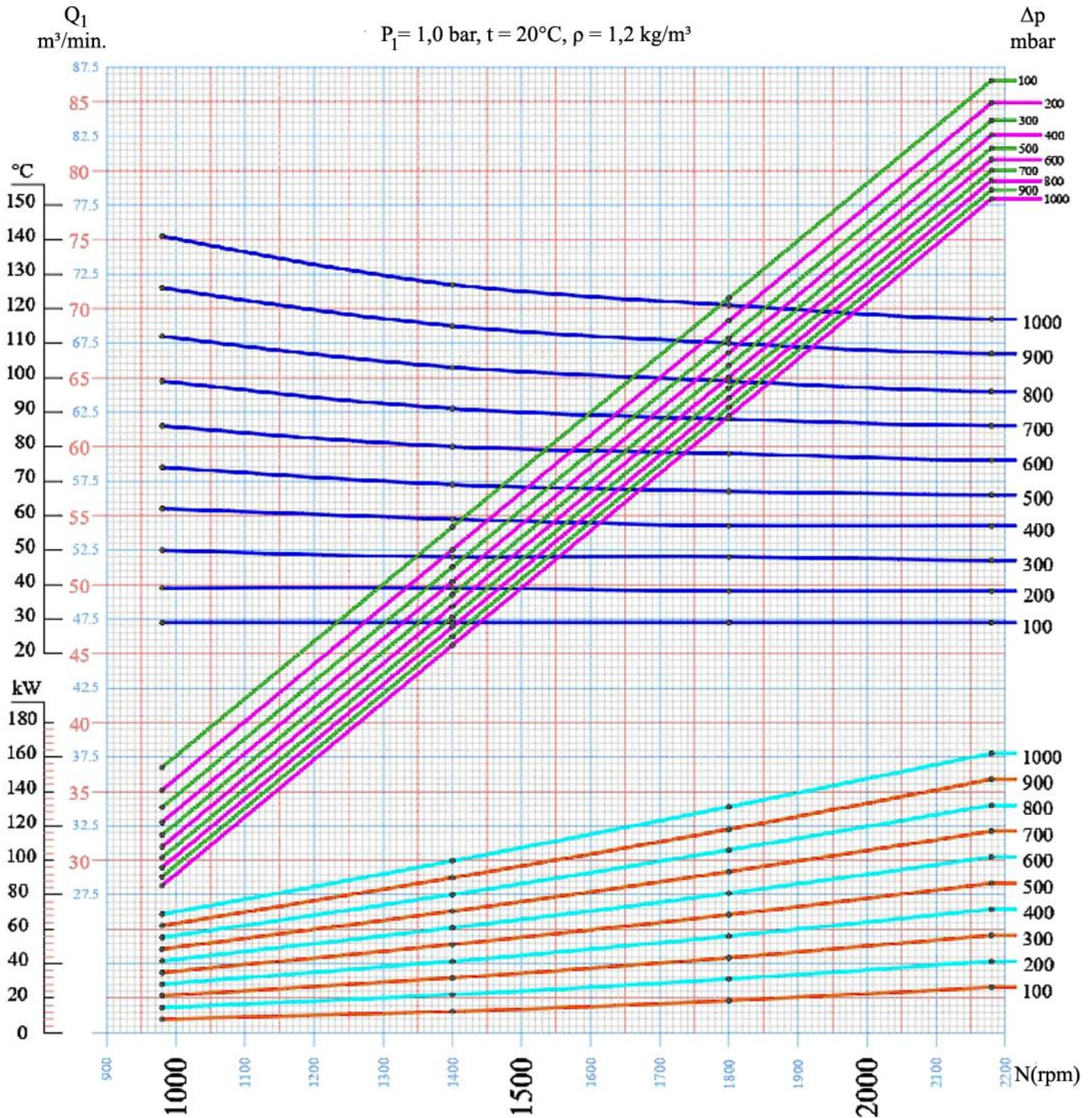


# PB3155 Tri-Lobe Roots Blower

## Flow, Pressure and Power Diagram

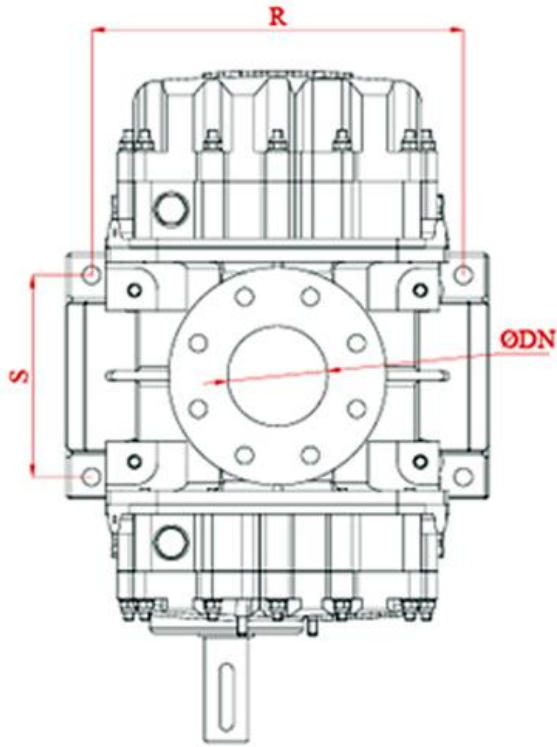
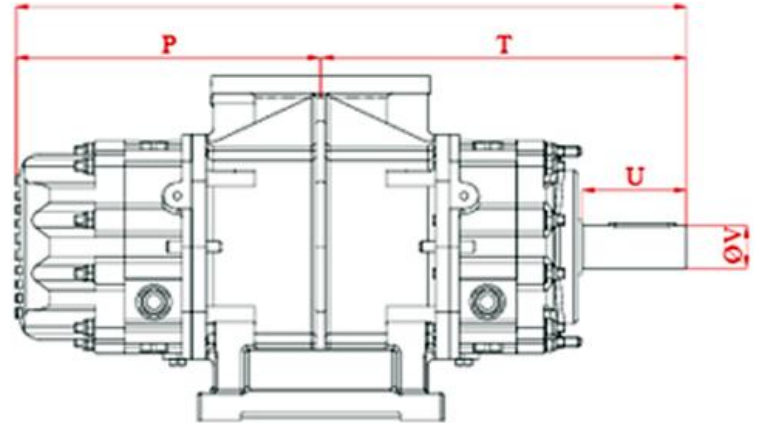
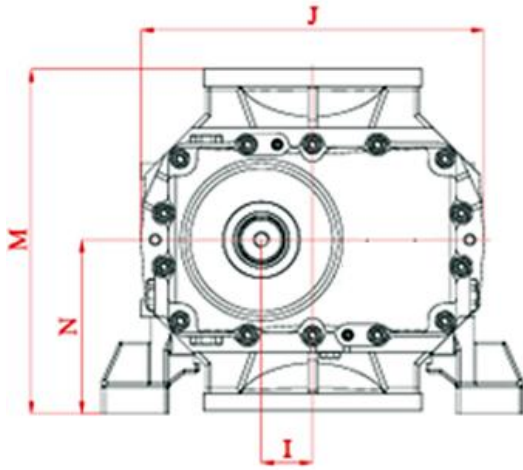


## PB3155 Tri-Lobe Blower Pressure and Volume Values

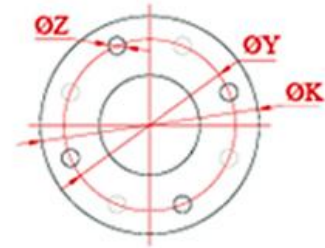
$$P_1 = 1,0 \text{ bar}, t = 20^\circ\text{C}, \rho = 1,2 \text{ kg/m}^3$$

| 980 rpm.   |                      |       |      | 1400 rpm.  |                      |       |      | 1800 rpm.  |                      |        |      | 2180 rpm.  |                      |        |      |
|------------|----------------------|-------|------|------------|----------------------|-------|------|------------|----------------------|--------|------|------------|----------------------|--------|------|
| $\Delta p$ | Flow                 | Power | Heat | $\Delta p$ | Flow                 | Power | Heat | $\Delta p$ | Flow                 | Power  | Heat | $\Delta p$ | Flow                 | Power  | Heat |
| mbar       | m <sup>3</sup> /min. | kW    | °C   | mbar       | m <sup>3</sup> /min. | kW    | °C   | mbar       | m <sup>3</sup> /min. | kW     | °C   | mbar       | m <sup>3</sup> /min. | kW     | °C   |
| 100        | 36,73                | 7,8   | 29   | 100        | 54,16                | 12,4  | 29   | 100        | 70,77                | 18,6   | 29   | 100        | 86,55                | 26,4   | 29   |
| 200        | 35,08                | 14,60 | 39   | 200        | 52,52                | 22,10 | 39   | 200        | 69,13                | 31,10  | 38   | 200        | 84,91                | 41,50  | 38   |
| 300        | 33,83                | 21,4  | 50   | 300        | 51,26                | 31,8  | 48   | 300        | 67,87                | 43,5   | 48   | 300        | 83,65                | 56,6   | 47   |
| 400        | 32,76                | 28,10 | 62   | 400        | 50,20                | 41,50 | 59   | 400        | 66,81                | 56,00  | 57   | 400        | 82,59                | 71,70  | 57   |
| 500        | 31,83                | 34,9  | 74   | 500        | 49,27                | 51,2  | 69   | 500        | 65,87                | 68,5   | 67   | 500        | 81,65                | 86,7   | 66   |
| 600        | 30,98                | 41,7  | 86   | 600        | 48,42                | 60,9  | 80   | 600        | 65,03                | 80,9   | 78   | 600        | 80,81                | 102    | 76   |
| 700        | 30,20                | 48,50 | 99   | 700        | 47,64                | 70,50 | 91   | 700        | 64,25                | 93,40  | 88   | 700        | 80,03                | 117,00 | 86   |
| 800        | 29,48                | 55,3  | 112  | 800        | 46,92                | 80,2  | 103  | 800        | 63,53                | 106    | 99   | 800        | 79,3                 | 132    | 96   |
| 900        | 28,80                | 62,10 | 126  | 900        | 46,24                | 89,90 | 115  | 900        | 62,85                | 118,00 | 110  | 900        | 78,62                | 147,00 | 107  |
|            |                      |       |      | 1000       | 45,6                 | 99,6  | 127  | 1000       | 62,2                 | 131    | 121  | 1000       | 77,98                | 162    | 117  |

# PB3155 Bare Shaft Dimensions



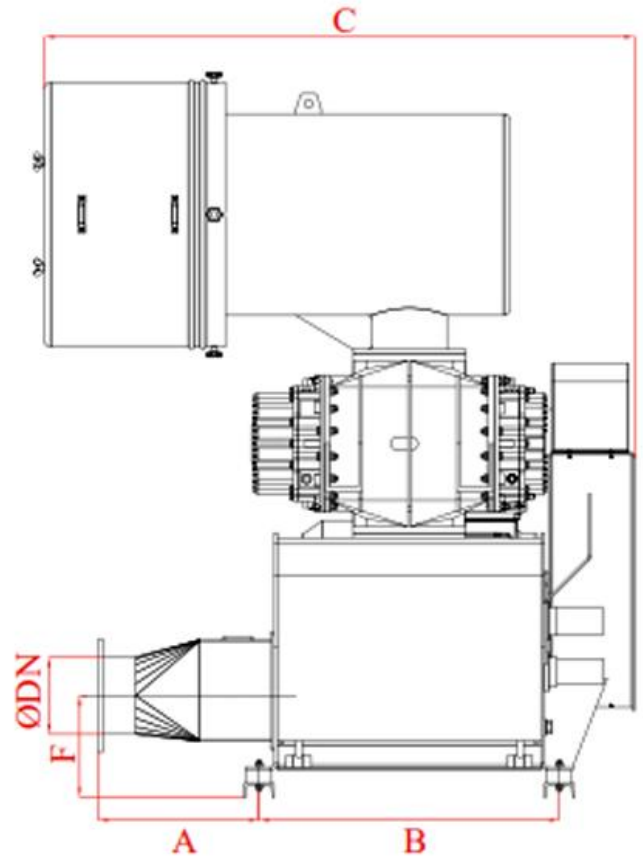
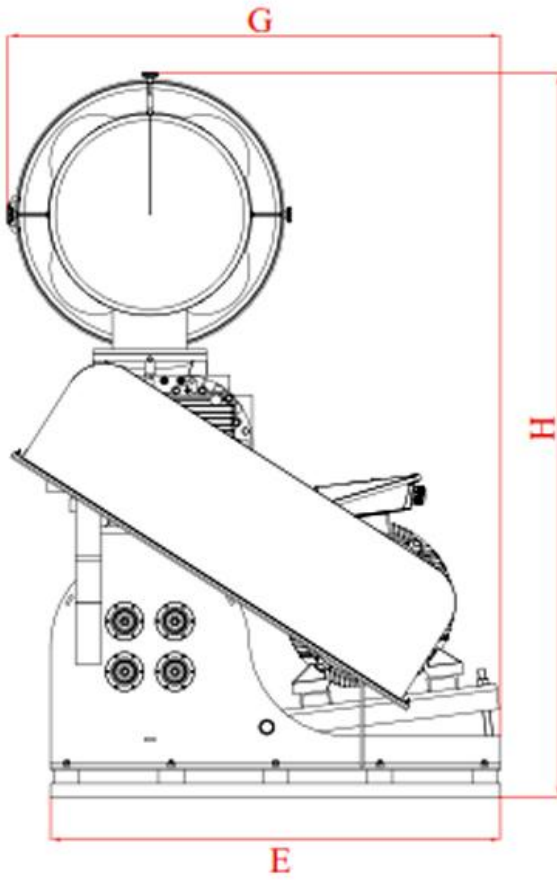
DIN 2576 (PN 10)



| Type   | ØDN | ØK  | L    | M     | N     | P     | R   | S   | T     | U   | ØV | ØY  | ØZ | Hole Qty | Weight  |
|--------|-----|-----|------|-------|-------|-------|-----|-----|-------|-----|----|-----|----|----------|---------|
| PB3155 | 250 | 395 | 1255 | 625,5 | 313,5 | 592,5 | 818 | 408 | 662,5 | 158 | 85 | 350 | 22 | 12       | 1070 Kg |

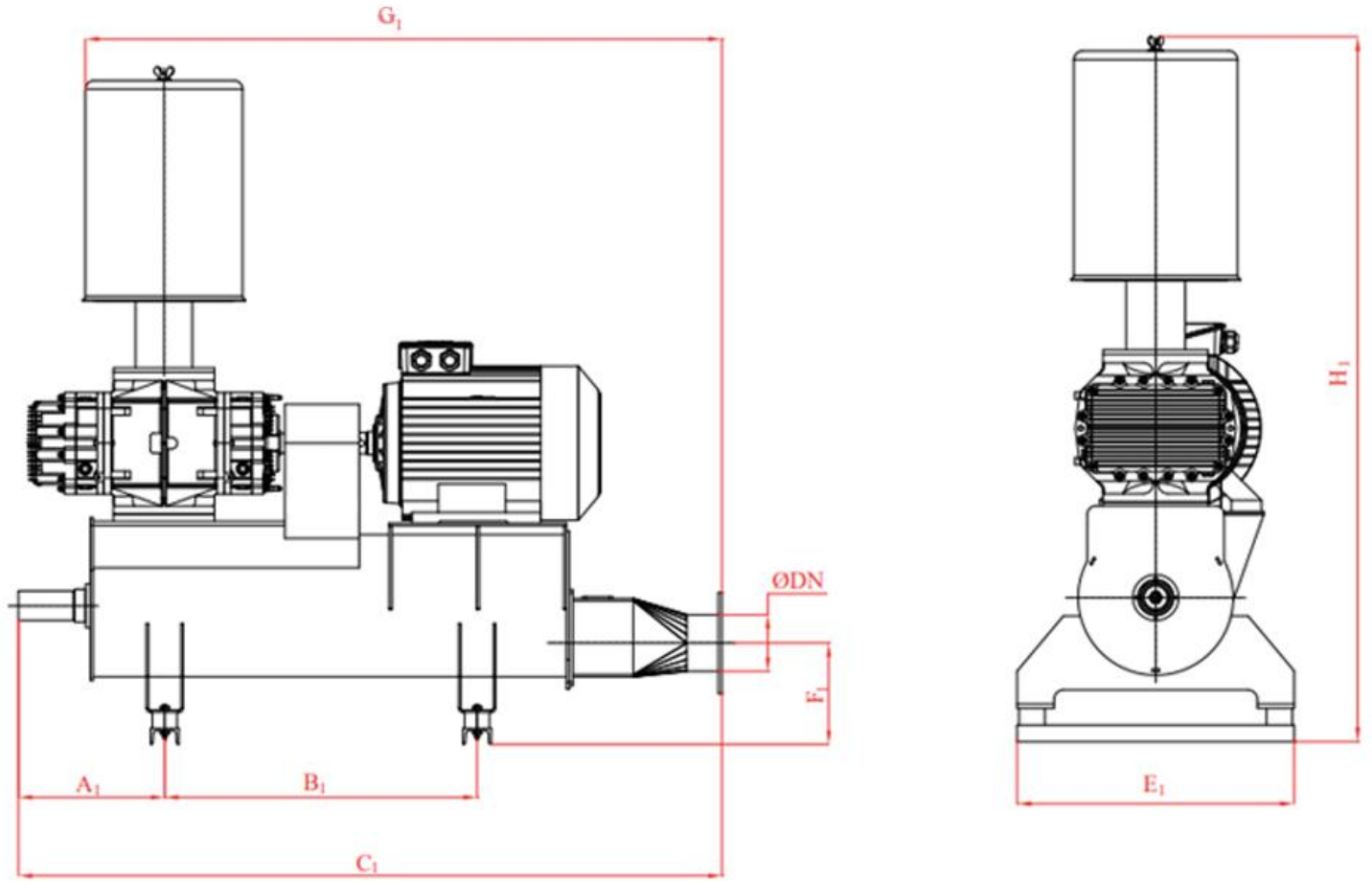


# PB3155 Belt Driven Dimensions



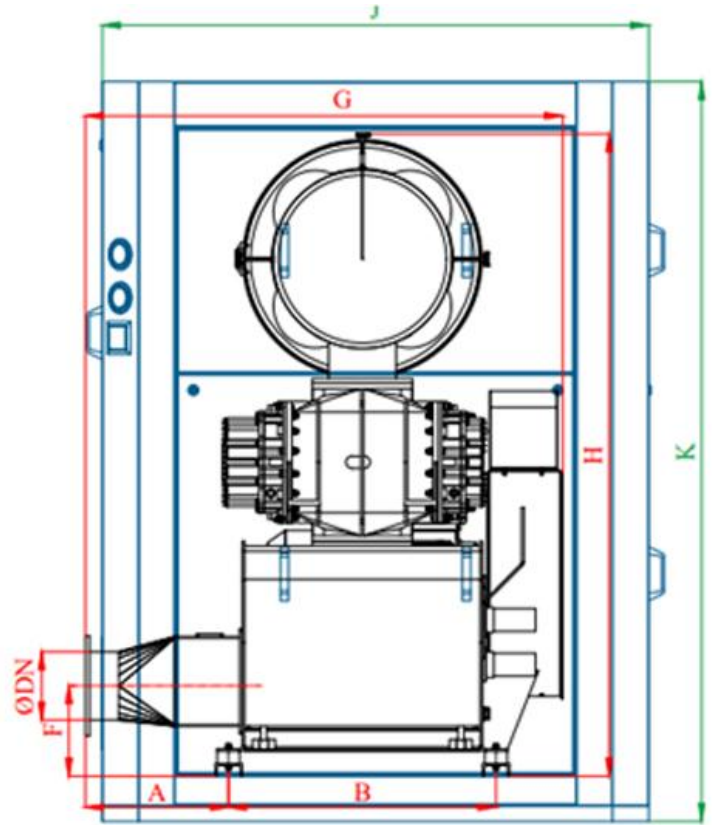
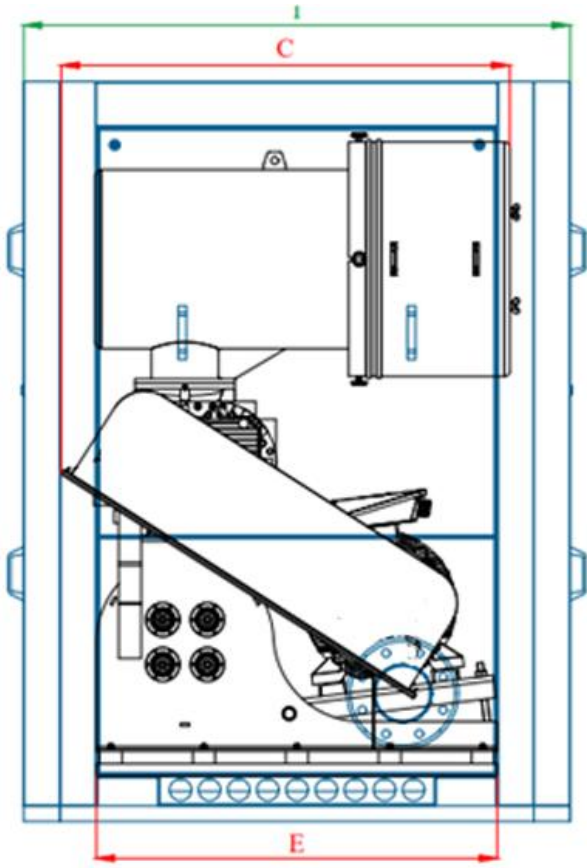
| Type   | A   | B    | C    | ØDN | E    | F   | G    | H    | Weight  |
|--------|-----|------|------|-----|------|-----|------|------|---------|
| PB3155 | 520 | 1100 | 2300 | 250 | 1620 | 345 | 1715 | 2105 | 2215 Kg |

# PB3155 Direct Driven Dimensions



| Type   | A <sub>1</sub> | B <sub>1</sub> | C <sub>1</sub> | ØDN | E <sub>1</sub> | F <sub>1</sub> | G <sub>1</sub> | H <sub>1</sub> | I   | J   | Weight  |
|--------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|-----|---------|
| PB3155 | 450            | 1470           | 2612           | 250 | 900            | 410            | 2305           | 2175           | 106 | 685 | 2215 Kg |

# PB3155 Acoustic Cabin Dimensions



| Type   | A   | B    | C    | ØDN | E    | F   | G    | H    | I x J x K      | Weight  |
|--------|-----|------|------|-----|------|-----|------|------|----------------|---------|
| PB3155 | 520 | 1100 | 2300 | 250 | 1620 | 345 | 1715 | 2105 | 2400x2400x2800 | 3400 Kg |