# TECHNICAL SPECIFICATION

**INTERPUMP HYDRAULICS** — PERFORMING SOLUTIONS

| CYLINDER TYPE: FE-154-03-4250 | TIPPING WEIGHT : 37 - 80 TONS |
|---|---|



| | | | |
|---|---|---|---|
| A | : | 201 | mm |
| B | : | 176 | mm |
| C | : | 40 | mm |
| D | : | 70 | mm |
| E | : | 50 | mm |
| F | : | 60 | mm |
| G | : | 1" | BSP |
| H | : | 50 | mm |
| I | : | 56 | mm |
| J | : | 152 | mm |
| K | : | 1731 | mm |
| L | : | 1756 | mm |
| M | : | 1711 | mm |
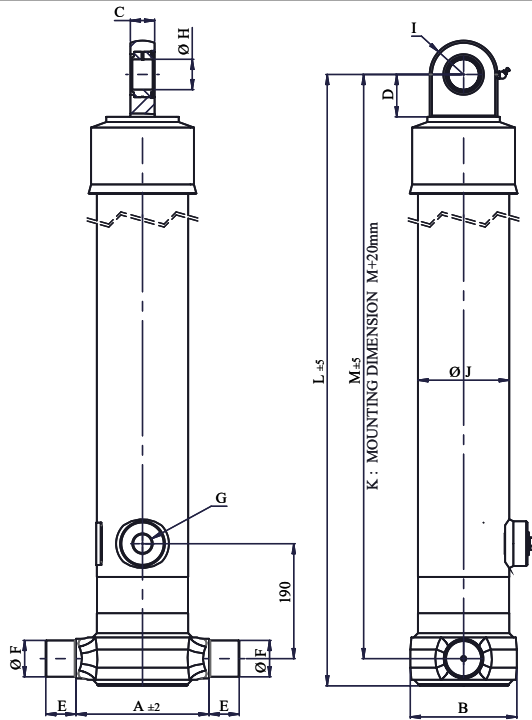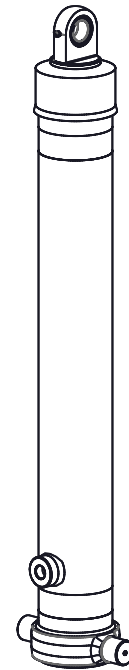
## FRONT END, SINGLE ACTING TELESCOPIC CYLINDR

| | | | | | | | Part No | : IFD154034250 |
|---|---|---|---|---|---|---|---|---|
| Stages | 1 | 2 | 3 | 4 | 5 | 6 | No. of stages | : 4 |
| Diameter (mm) | 154 | 135 | 116 | | | | | |
| Stroke (mm) | 1414 | 1418 | 1418 | | | | Total stroke | : 4250 mm |
| Oil (L) | 26.3 | 20.3 | 15 | | | | Working volume | : 61.6 L |
| Thrust (KN) @ P max | 372 | 286 | 211 | | | | Avg. working load | : 212 KN |

### TECHNICAL NOTE

| | | |
|---|---|---|
| Mounting dimension (K) 1711 +20 (-5,+30)mm minimum pull out | Max pressure : 200 bar | Weight : 194 Kg |
| Seal ring Temperature : -40 °C to +100 °C | Max linear speed : 0.5 m/s | |

Outer stage powder coated to semi glossy finish min thickness 30µm, RAL 9005

All stage tubes are chrome plated to min 15µm

This cylinder has been designed to provide only a linear pushing force. This cylinder is not a structural member and must not used as a stabliizer or subjected to side or pushing load.. This cylinder will not prevent the dump body or trailer from rollover or lateral tilt. Cylinder rated pressure reflect only the capability of the pressure-containing envelop and not the force trassmitting capability of mounting configurations. The original use of telescopic cylinder will not requiered any coating since the telescopic stages are exposed to atmospheric agents only duirng the tip-up operation. if duration is below 2 hours.
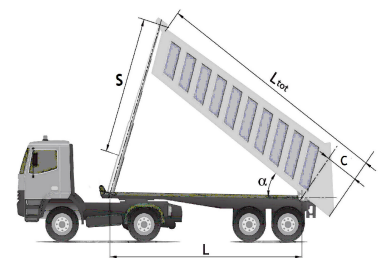The tipping body weight + max payload are the maximum tipping weight that can be raised by this cylinder. This value calculated at the max pressure is a rough indication o fht etipping load of the cylinder and must be used as a first criteria for the selection of the cylinder. The real tipping weight can only be calculated by the design engineer and must take into account the geometry of the tipping body, operating condition and all the reasonably forseeable users.

## Cylinder bottom bracket
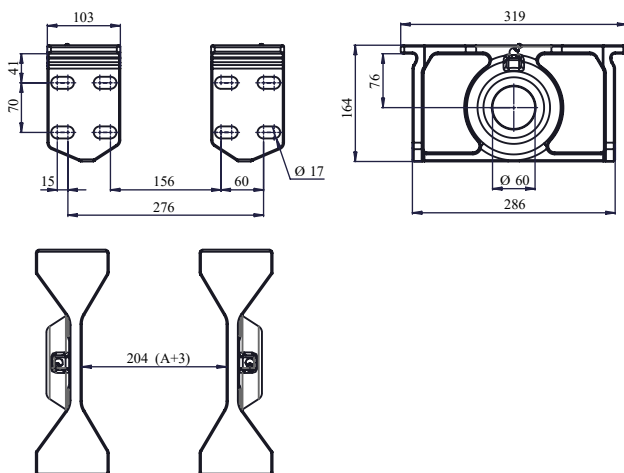


## Tipping angle

| Stroke | | | | | |
|---|---|---|---|---|---|
| **L [mm]** | **BODY TILTING α [°]** | | | | |
| | **40** | **45** | **48** | **50** | **55** |
| 4000 | 2736 | 3061 | 3254 | 3381 | 3694 |
| 4500 | 3078 | 3444 | 3661 | 3804 | 4156 |
| 5000 | 3420 | 3827 | 4067 | 4226 | 4617 |
| 5300 | 3625 | 4056 | 4311 | 4480 | 4895 |
| 5600 | 3831 | 4286 | 4555 | 4733 | 5172 |
| 6000 | 4104 | 4592 | 4881 | 5071 | 5541 |
| 6300 | 4309 | 4822 | 5125 | 5325 | 5818 |
| 6600 | 4515 | 5051 | 5369 | 5579 | 6095 |
| 7000 | 4788 | 5358 | 5694 | 5917 | 6464 |
| 7300 | 4993 | 5587 | 5938 | 6170 | 6742 |
| 7600 | 5199 | 5817 | 6182 | 6424 | 7019 |



$$\alpha = Stroke \; X \left( \frac{60}{L} \right)$$

For reference only.