4 3 2 1

Simulation case

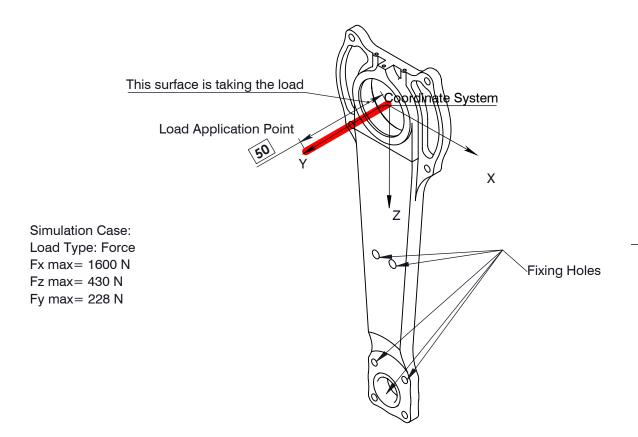
- Let us now simulate the part.
- The part is loaded thorugh a shaft connected to the bearing of Ø37mm OD.

Questions

- (1) Set up the simulation with the loading and constraints indicated in the drawing below, considering the mentioned shaft (not shown) as a rigid body.
- (2) If the shaft was in the model, how would you set up the simulation?
- (3) Based on the simulation results, how would you approach to reduce the weight of this part?

Material:

Drawing Number - Name:



Ε

	7075-T6 (SN)	HipFork - Mechanical Design Case		(Neutral)		
	Approx Weight (g): 192.14	This drawing and any information or descriptive material set ut on it are the confidential and copyright property of Halodi Robotics® and MUST NOT BE DISCLOSED, COPIED, LOANED in whole or part or used for any purpose without the written permission of Halodi Robotics. HALODI TOBOTICS Solgaard Skog 139, 1599 Moss. Norway	Description:			
	Finish:		Designed by:	Design Date:		
	Unit : mm General Tolerances: Linear: ±0.06 Angular: 1.5' Surface Finish:Fine Machining		Armin 23/07/2018		018	
			Modified by:	17/11/2020		A
			Henrique			
	Projection Method: THIRD ANGLE			Part Revision:	Drawing Rev.:	
	— —		Sheet Size: A4 Drawing Scale: 1:2	-	-	

Configuration

Please Note:
 For the missing dimensions, refer to the provided 3D model.
 All the present dimensions in this drawing are to be inspected, regardless as if marked for inspection or not.