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RIWAYAT HIDUP

Agenk Iqom Millata dilahirkan di Banyumas, pada tanggal 14 Oktober 1990. Putra sulung dari 2 bersaudara pasangan Bapak Yusup Dipo dan Ibu Asmiati. Bertempat tinggal di Perumahan Telaga Harapan H8 No 7 Cikarang Barat, Kabupaten Bekasi, Jawa Barat 17841.

Menempuh pendidikan dasar hingga Perguruan Tinggi diselesaikan di Cikarang Barat Kabupaten Bekasi dan Jakarta yaitu SD Negeri Sukadanau 06, SMP Negeri 1 Cikarang Barat, SMK Negeri 1 Kabupaten Bekasi, dan Universitas Negeri Jakarta Program Studi Pendidikan Teknik Mesin.

Analyzed File:	Assembly Lowest (EDIT 320N).iam
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☐ **Physical**

Mass	89,895 kg
Area	5220690 mm ²
Volume	11418400 mm ³
Center of Gravity	x=-34,1206 mm y=-156,544 mm z=81,7549 mm

Note: Physical values could be different from Physical values used by FEA reported below.

☐ ***Simulation:1***

General objective and settings:

Mesh settings:

Avg. Element Size (fraction of model diameter)	0,1
Min. Element Size (fraction of avg. size)	0,2
Grading Factor	1,5
Max. Turn Angle	60 deg
Create Curved Mesh Elements	No
Use part based measure for Assembly mesh	Yes

☐ **Material(s)**

Name	Steel, Carbon
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General	Mass Density	7,85 g/cm ³
	Yield Strength	350 MPa
	Ultimate Tensile Strength	420 MPa
Stress	Young's Modulus	200 GPa
	Poisson's Ratio	0,29 ul
	Shear Modulus	77,5194 GPa
Part Name(s)	Arm Luar Arm Luar Arm Dalam Arm Dalam Shaft Cylinder Panjang Pipa Cylinder 43mm Pipa Cylinder 43mm Shaft Cylinder Pendek Pipa Cylinder 41mm Pipa Cylinder 41mm Pipa 140mm Shaft Tengah 40mm Shaft Tengah 40mm Pipa 140mm Shaft Roller 86.95mm Shaft Roller 86.95mm Roller Roller Pipa 180mm Shaft Roller 66.95mm Shaft Roller 66.95mm Roller Roller Pipa 140mm Shaft Engsel 105mm Shaft Engsel 105mm Ring 32mm Ring 32mm Pipa 180mm Shaft Engsel 85mm Shaft Engsel 85mm Ring 32mm Ring 32mm	

	Mur Mur Frame Lifter Bawah UNP 65x42x5.5 ISO 40x40x2 00000001 ISO 40x40x2 00000002 ISO 40x40x2 00000003 Skeleton0001_MIR ISO 40x40x2 00000001_MIR ISO 40x40x2 00000002_MIR ISO 40x40x2 00000003_MIR ISO 40x40x2 00000001 ISO 40x40x2 00000002 ISO 40x40x2 00000003 ISO 40x40x2 00000004 ISO 40x40x2 00000005 ISO 40x40x2 00000006 ISO 40x40x2 00000007 ISO 40x40x2 00000008 Besi Siku 45x45x4 Roller (EDIT) Roller (EDIT) Roller (EDIT) Roller (EDIT) Roller (EDIT) Roller (EDIT) Besi Siku 45x45x4 Roller (EDIT) Roller (EDIT) Roller (EDIT) Roller (EDIT) Roller (EDIT) Roller (EDIT)	
Name	Stainless Steel	
General	Mass Density	8 g/cm ³
	Yield Strength	250 MPa
	Ultimate Tensile Strength	540 MPa
Stress	Young's Modulus	193 GPa

	Poisson's Ratio	0,3 ul
	Shear Modulus	74,2308 GPa
Part Name(s)	Cylinder Cylinder Rod	
Name	Bronze, Cast	
General	Mass Density	8,87 g/cm ³
	Yield Strength	128 MPa
	Ultimate Tensile Strength	275 MPa
Stress	Young's Modulus	109,6 GPa
	Poisson's Ratio	0,335 ul
	Shear Modulus	41,0487 GPa
Part Name(s)	Bushing PBM 202820 M1G1 Bushing PBM 202820 M1G1 Bushing PBM 202820 M1G1 Bushing PBM 202820 M1G1 Bushing PBM 202820 M1G1 Bushing PBM 202820 M1G1	
Name	Steel, Alloy	
General	Mass Density	7,73 g/cm ³
	Yield Strength	250 MPa
	Ultimate Tensile Strength	400 MPa
Stress	Young's Modulus	205 GPa
	Poisson's Ratio	0,3 ul
	Shear Modulus	78,8462 GPa
Part Name(s)	Bearing NSK 6904ZZ Bearing NSK 6904ZZ	

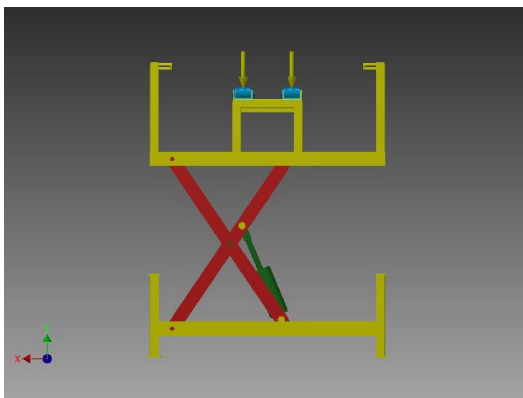
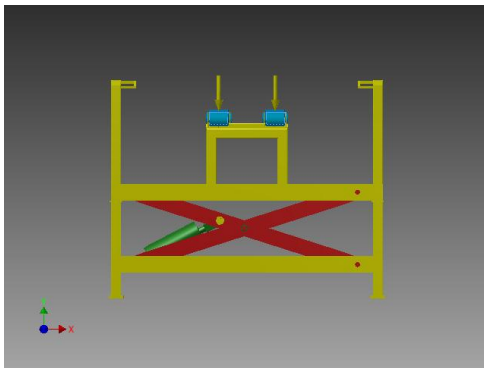
	Bearing NSK 6904ZZ Bearing NSK 6904ZZ Bearing NSK 6904ZZ Bearing NSK 6904ZZ Bearing NSK 6904ZZ Bearing NSK 6904ZZ	
Name	Generic	
General	Mass Density	1 g/cm ³
	Yield Strength	0 MPa
	Ultimate Tensile Strength	0 MPa
Stress	Young's Modulus	0,0000001 GPa
	Poisson's Ratio	0 ul
	Shear Modulus	0,00000005 GPa
Part Name(s)	Skeleton0001 Skeleton0001	

☐ **Operating conditions**

☐ **Force:1**

Load Type	Force
Magnitude	320.000 N
Vector X	0.000 N
Vector Y	-320.000 N
Vector Z	0.000 N

☐ ***Selected Face(s)***



Constraint Name	Reaction Force		Reaction Moment	
	Magnitude	Component (X,Y,Z)	Magnitude	Component (X,Y,Z)
Fixed Constraint:1	320 N	0 N	19,8992 N m	-0,735671 N m
		320 N		0,818102 N m
		0 N		-19,8687 N m

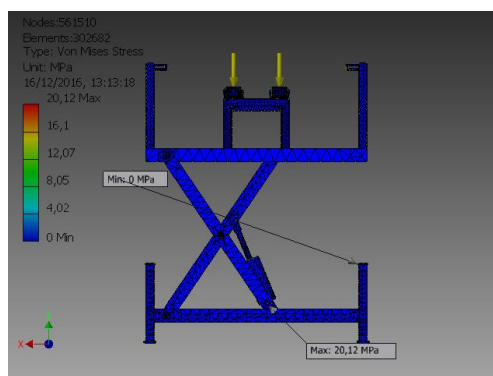
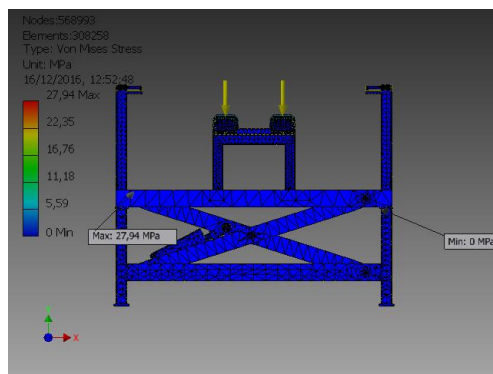
☐ Result Summary

Name	Minimum	Maximum
Volume	11418400 mm ³	
Mass	89,895 kg	
Von Mises Stress	0,0000309545 MPa	27,9416 MPa

1st Principal Stress	-10,7832 MPa	29,2935 MPa
3rd Principal Stress	-35,6958 MPa	8,53199 MPa
Displacement	0 mm	0,0855101 mm
Safety Factor	7,51922 ul	15 ul
Stress XX	-13,5025 MPa	11,8171 MPa
Stress XY	-13,0305 MPa	12,2187 MPa
Stress XZ	-9,32257 MPa	8,35557 MPa
Stress YY	-15,0528 MPa	20,3189 MPa
Stress YZ	-8,22387 MPa	7,95472 MPa
Stress ZZ	-32,312 MPa	26,7936 MPa
X Displacement	-0,00366718 mm	0,0467944 mm
Y Displacement	-0,0822601 mm	0,000385303 mm
Z Displacement	-0,00382896 mm	0,0154803 mm
Equivalent Strain	0,000000000133736 ul	0,00013866 ul
1st Principal Strain	-0,000000774955 ul	0,000131793 ul
3rd Principal Strain	-0,000143462 ul	0,00000100459 ul
Strain XX	-0,0000718197 ul	0,0000579567 ul
Strain XY	-0,0000840467 ul	0,0000907188 ul
Strain XZ	-0,0000704032 ul	0,0000704483 ul
Strain YY	-0,0000687902 ul	0,0000727712 ul
Strain YZ	-0,000100172 ul	0,0000826066 ul
Strain ZZ	-0,000132687 ul	0,000102436 ul

Contact Pressure	0 MPa	121,638 MPa
Contact Pressure X	-83,033 MPa	22,2828 MPa
Contact Pressure Y	-70,4463 MPa	62,9476 MPa
Contact Pressure Z	-75,8926 MPa	67,8175 MPa

☐ *Von Mises Stress*



☐ Displacement

