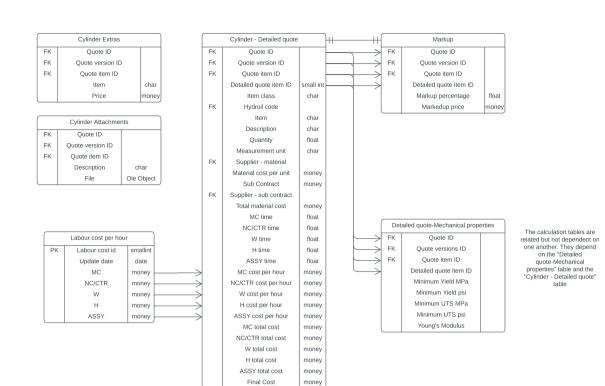
Web app ERD - Quotation 2/2

Paulo Santos | June 8, 2



	Calculation - Rod buckling	
FK	Quote ID	
FK	Quote version ID	
FK	Quote item ID	
	Rod buckling ID	tinyint
	Hollow bar?	bit
	Rod inside diameter	float
	Rod outside diameter	float
	Young's Modulus	float
	End condition	tinyint
	Bore	float
	Closed centers	float
	Stroke	float
	Length of the column (I)	float
	Push pressure	float
	Safety Factor (SF)	float
	Considerations	char

	Calculation - Hoop stress	
FK	Quote ID	
FK	Quote version ID	
FK	Quote item ID	
	Barrel OD (D)	float
	Bore (d)	float
	Wall thickness (t)	float
	Minimum Yield MPa	float
	Minimum UTS MPa	float
	Pressure	float
	Safety Factor Yield	float
	Safety Factor UTS	float
	Considerations	float

Size	float
Dis-I-	
Pitch	float
Grade	char
Torque N.m	float
ft.lbs	float
	Torque N.m

Calculation - Normal Threads) [Calculation - Preloaded Thread	
Quote ID			FK	Quote ID
Quote version ID			FK	Quote version ID
Quote item ID			FK	Quote item ID
Thread name	char		ı	Thread position
Major diameter	float		ı	Threaded fastener spec
Pitch	float			Major diameter
Pitch diameter	float			Pitch
Root diameter	float			Pitch diameter
Engagement length	float			Root diameter
Thread type	float			Engagement length
External/Internal thread	bit			Thread type
wi/wo	float			External/Internal thread
Bore (d)	float			wi/wo
Rod (Ds)	float			Number of bolts/tie rods
Minimum Yield MPa	float			Torque coefficient (K)
Proof strength MPa	float			Torque (T)
Push pressure	float			Bore (d)
Pull pressure	float			Rod (Ds)
SF stripping-shear Push	float			Minimum Yield MPa
SF stripping-shear Pull	float			Proof strength MPa
SF tensile Push	float			Push pressure
SF tensile Pull	float			Pull pressure
Considerations	char			SF stripping-shear Push
		´	ı	SF stripping-shear Pull
			1	SE tonsilo Bush

	Calculation - Weld	
FK	Quote ID	
FK	Quote version ID	
FK	Quote item ID	
	Weld position	cha
	Wire material	cha
	Wire's minimum yield MPa	floa
	Throat size	floa
	Weld length	floa
	Push pressure	floa
	Bore (d)	floa
	Safety Factor Yield	floa
	Safety Factor UTS	floa
	Considerations	floa

bit float

tinyint float

float

float float char

SF tensile Pull Considerations

	Calculation - Mountings	
FK	Quote ID	
FK	Quote version ID	
FK	Quote item ID	
	Mounting name	char
	Mounting type	char
	Minimum Yield MPa	float
	Outside radius	float
	Inside radius	float
	Thickness (Tt)	float
	Push pressure	float
	Pull pressure	float
	Bore (d)	float
	Rod (Ds)	float
	Safety Factor Push	float
	Safety Factor Pull	float
	Considerations	float