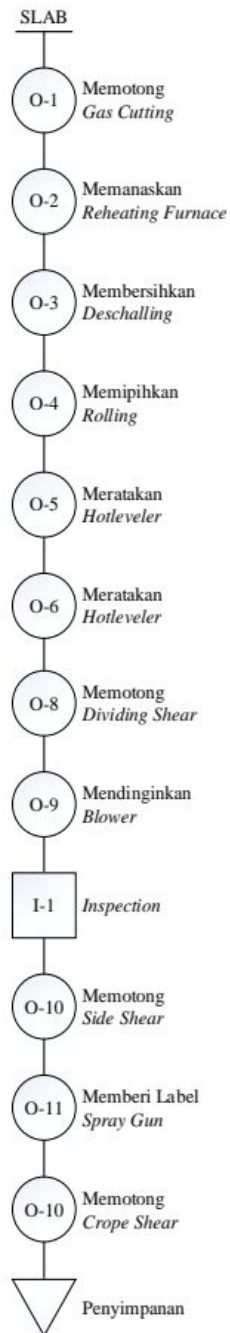


LAMPIRAN

Lampiran 1 OPC Plat Baja



Lampiran 2 Gambar Mesin Rolling Mill dan Komponen

Mesin Rolling Mill



Roll



Work Roll



Back Up Roll





Back Up Roll

Work Roll

Lampiran 3 Hasil Output Statgraphics 16

1. Penggantian Roll

STATGRAPHICS Centurion - revisian.sgp - [revisian.sgd]

File Edit Plot Describe Compare Relate Forecast SPC DOE SnapStats!! Tools View Window Help

DataBook

	Penggantian Roll	Col_2	Col_3	Col_4	Col_5	Col_6
1	11					
2	3					
3	2					
4	1					
5	1					
6	7					
7	16					
8	8					
9	1					
10	4					

STATGRAPHICS Centurion - revisian.sgp - [revisian.sgd]

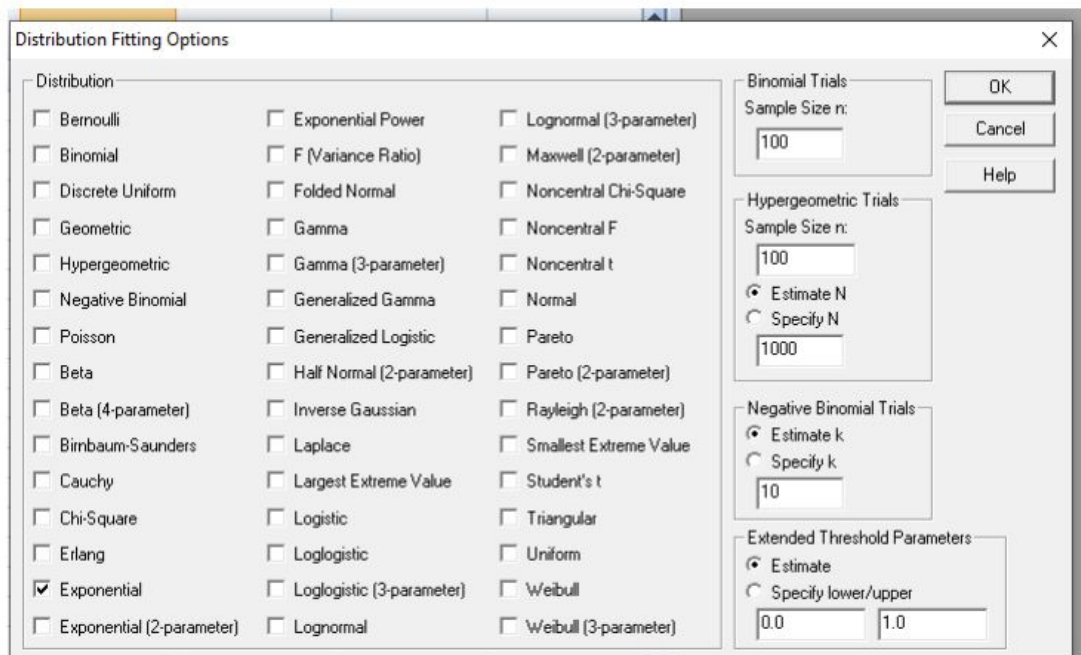
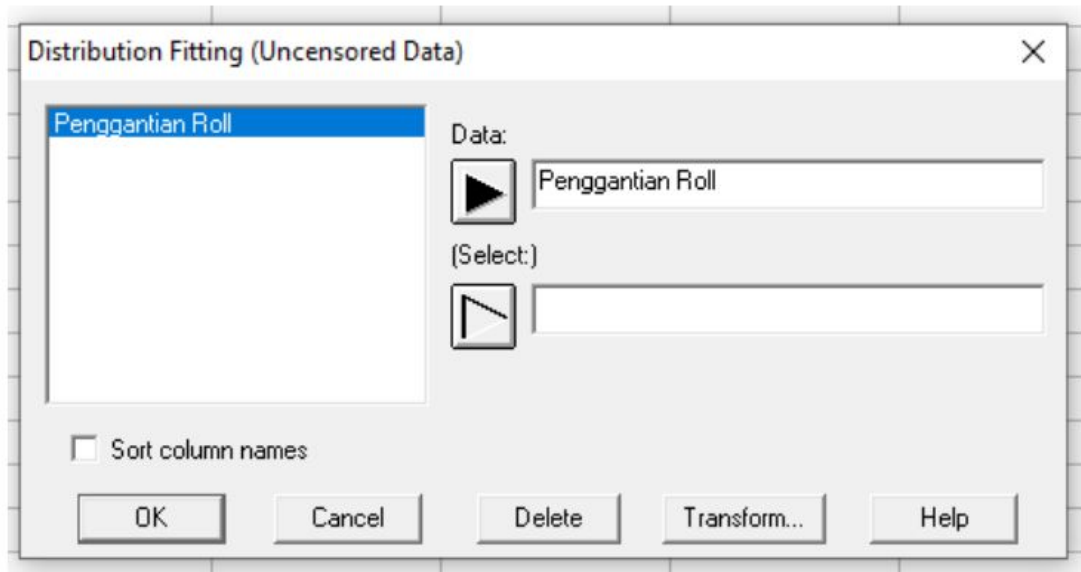
File Edit Plot Describe Compare Relate Forecast SPC DOE SnapStats!! Tools View Window Help

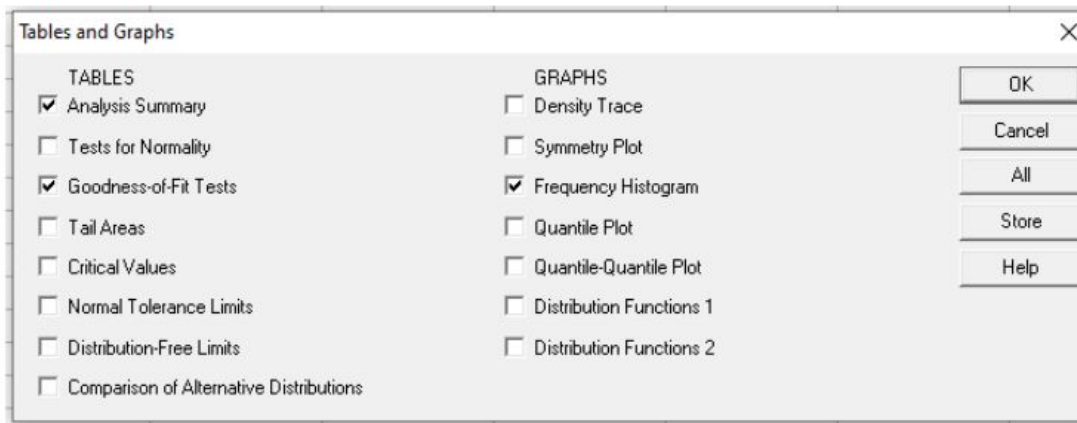
DataBook

	Penggantian Roll	Col_2	Col_3	Col_4	Col_5	Col_6
2	3					
3	2					
4	1					
5	1					
6	7					
7	16					
8	8					
9	1					
10	4					

Describe

- Numeric Data
- Categorical Data
- Distribution Fitting**
 - Probability Distributions...
 - Probability Plots...
 - Fitting Uncensored Data...**
 - Fitting Censored Data...
- Life Data
- Multivariate Methods
- Time Series
- Point Processes





Uncensored Data - Massa Slab

Data variable: Massa Slab

60 values ranging from 404.351 to 9010.65

Fitted Distributions

<i>Weibull</i>
shape = 1.90148
scale = 3700.88

The StatAdvisor

This analysis shows the results of fitting a Weibull distribution to the data on Massa Slab. The estimated parameters of the fitted distribution are shown above. You can test whether the Weibull distribution fits the data adequately by selecting Goodness-of-Fit Tests from the list of Tabular Options. You can also assess visually how well the Weibull distribution fits by selecting Frequency Histogram from the list of Graphical Options. Other options within the procedure allow you to compute and display tail areas and critical values for the distribution. To select a different distribution, press the alternate mouse button and select Analysis Options.

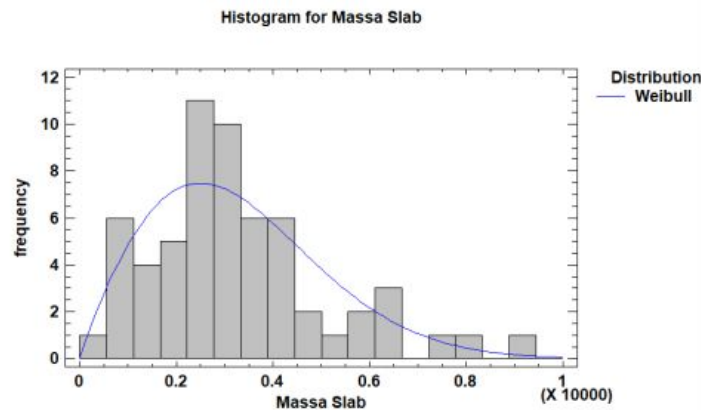
Goodness-of-Fit Tests for Massa Slab

Kolmogorov-Smirnov Test

	<i>Weibull</i>
DPLUS	0.100522
DMINUS	0.0633961
DN	0.100522
P-Value	0.57925

The StatAdvisor

This pane shows the results of tests run to determine whether Massa Slab can be adequately modeled by a Weibull distribution. Since the smallest P-value amongst the tests performed is greater than or equal to 0.05, we can not reject the idea that Massa Slab comes from a Weibull distribution with 95% confidence.



Uncensored Data - Penggantian Roll

Data variable: Penggantian Roll

59 values ranging from 1.0 to 29.0

Fitted Distributions

<i>Exponential</i>
mean = 6.10169

The StatAdvisor

This analysis shows the results of fitting an exponential distribution to the data on Penggantian Roll. The estimated parameters of the fitted distribution are shown above. You can test whether the exponential distribution fits the data adequately by selecting Goodness-of-Fit Tests from the list of Tabular Options. You can also assess visually how well the exponential distribution fits by selecting Frequency Histogram from the list of Graphical Options. Other options within the procedure allow you to compute and display tail areas and critical values for the distribution. To select a different distribution, press the alternate mouse button and select Analysis Options.

Goodness-of-Fit Tests for Penggantian Roll

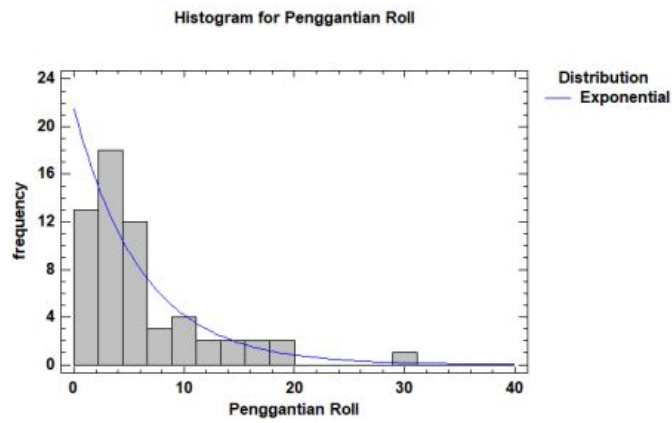
Kolmogorov-Smirnov Test

	<i>Exponential</i>
DPLUS	0.135592
DMINUS	0.168055
DN	0.168055
P-Value	0.0714015

The StatAdvisor

This pane shows the results of tests run to determine whether Penggantian Roll can be adequately modeled by an exponential distribution.

Since the smallest P-value amongst the tests performed is greater than or equal to 0.05, we can not reject the idea that Penggantian Roll comes from a exponential distribution with 95% confidence.



2. *Work Roll*

STATGRAPHICS Centurion - Untitled StatFolio - [<untitled>]

File Edit Plot Describe Compare Relate Forecast SPC DOE SnapStats!! Tools View Window Help

DataBook
StatAdvisor
StatGallery
StatReporter
StatFolio Comments

	Work Roll	Col_2	Col_3	Col_4	Col_5
1	8				
2	1				
3	6				
4	18				
5	9				
6	42				
7	8				
8	1				
9	2				
10	5				

STATGRAPHICS Centurion - Untitled StatFolio - [<untitled>]

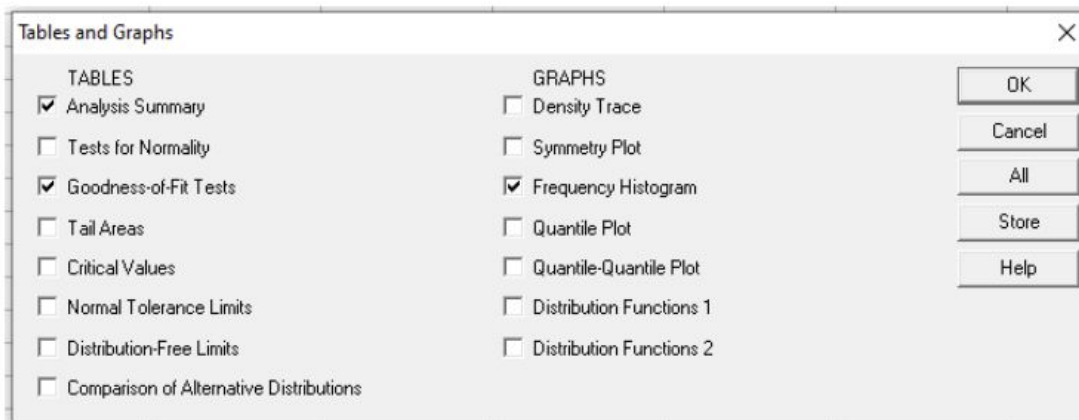
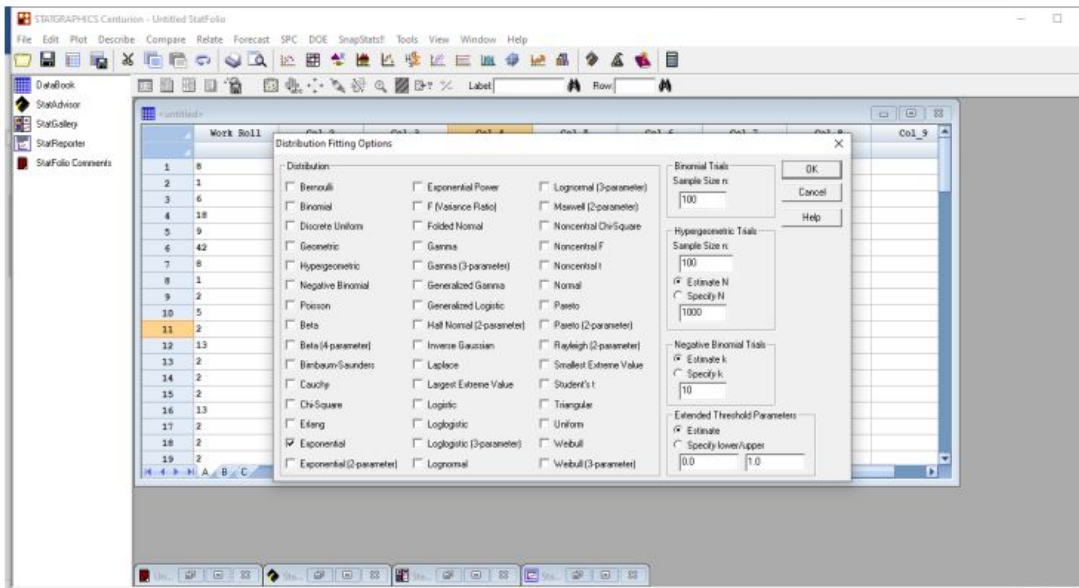
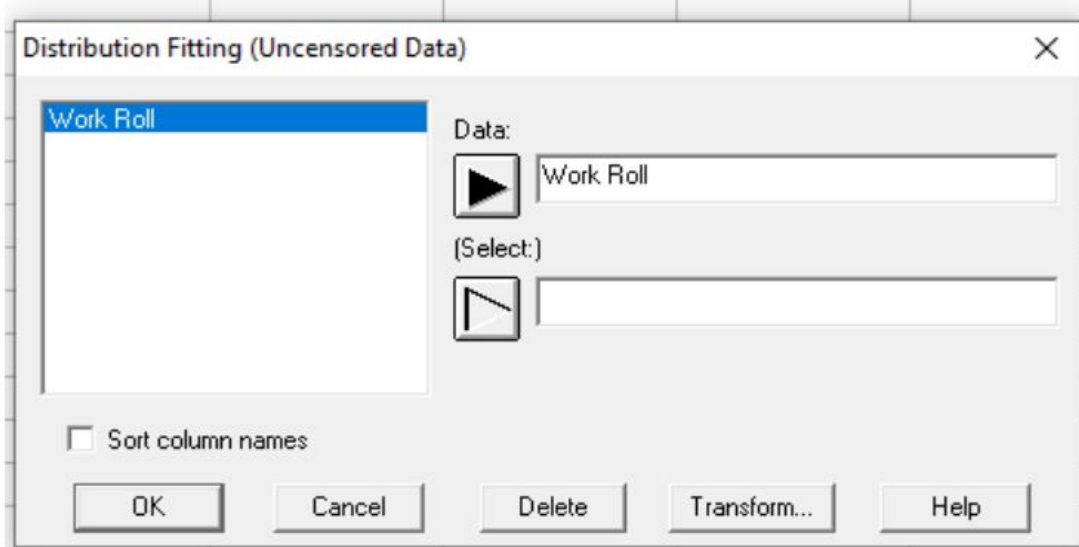
File Edit Plot Describe Compare Relate Forecast SPC DOE SnapStats!! Tools View Window Help

DataBook
StatAdvisor
StatGallery
StatReporter
StatFolio Comments

Describe

- Numeric Data
- Categorical Data
- Distribution Fitting
 - Probability Distributions...
 - Probability Plots...
 - Fitting Uncensored Data...
 - Fitting Censored Data...
- Life Data
- Multivariate Methods
- Time Series
- Point Processes

	Work Roll	Col_2	Col_3	Col_4	Col_5
3	6				
4	18				
5	9				
6	42				
7	8				
8	1				
9	2				
10	5				



Uncensored Data - Work Roll

Data variable: Work Roll

51 values ranging from 1.0 to 42.0

Fitted Distributions

<i>Exponential</i>
mean = 7.05882

The StatAdvisor

This analysis shows the results of fitting an exponential distribution to the data on Work Roll. The estimated parameters of the fitted distribution are shown above. You can test whether the exponential distribution fits the data adequately by selecting Goodness-of-Fit Tests from the list of Tabular Options. You can also assess visually how well the exponential distribution fits by selecting Frequency Histogram from the list of Graphical Options. Other options within the procedure allow you to compute and display tail areas and critical values for the distribution. To select a different distribution, press the alternate mouse button and select Analysis Options.

Goodness-of-Fit Tests for Work Roll

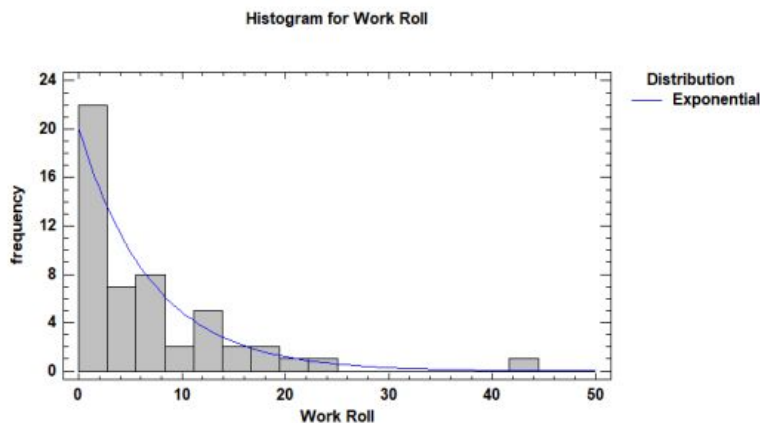
Kolmogorov-Smirnov Test

	<i>Exponential</i>
DPLUS	0.184641
DMINUS	0.132089
DN	0.184641
P-Value	0.0617748

The StatAdvisor

This pane shows the results of tests run to determine whether Work Roll can be adequately modeled by an exponential distribution.

Since the smallest P-value amongst the tests performed is greater than or equal to 0.05, we can not reject the idea that Work Roll comes from an exponential distribution with 95% confidence.



3. Back Up Roll

STATGRAPHICS Centurion - Untitled StatFolio - [<untitled>]

File Edit Plot Describe Compare Relate Forecast SPC DOE SnapStats!! Tools View Window Help

DataBook StatAdvisor StatGallery StatReporter StatFolio Comments

	Back Up Roll	Col_2	Col_3	Col_4	Col_5
1	43				
2	12				
3	7				
4	5				
5	1				
6	13				
7	1				
8	1				
9	1				
10	5				

STATGRAPHICS Centurion - Untitled StatFolio - [<untitled>]

File Edit Plot Describe Compare Relate Forecast SPC DOE SnapStats!! Tools View Window Help

DataBook StatAdvisor StatGallery StatReporter StatFolio Comments

	Back Up Roll	Col_2	Col_3	Col_4	Col_5	Col_6
3	7					
4	5					
5	1					
6	13					
7	1					
8	1					
9	1					
10	5					

Describe menu options: Numeric Data, Categorical Data, Distribution Fitting, Life Data, Multivariate Methods, Time Series, Point Processes.

Distribution Fitting sub-menu options: Probability Distributions..., Probability Plots..., Fitting Uncensored Data..., Fitting Censored Data...

Distribution Fitting (Uncensored Data)

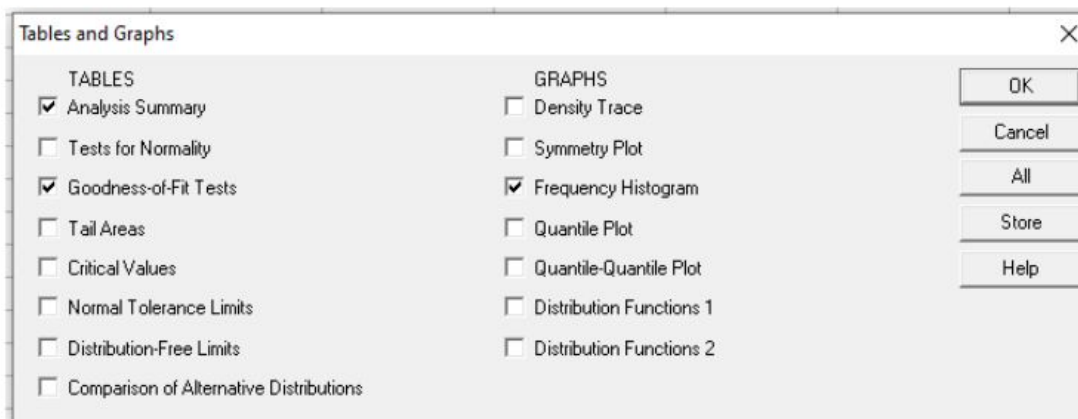
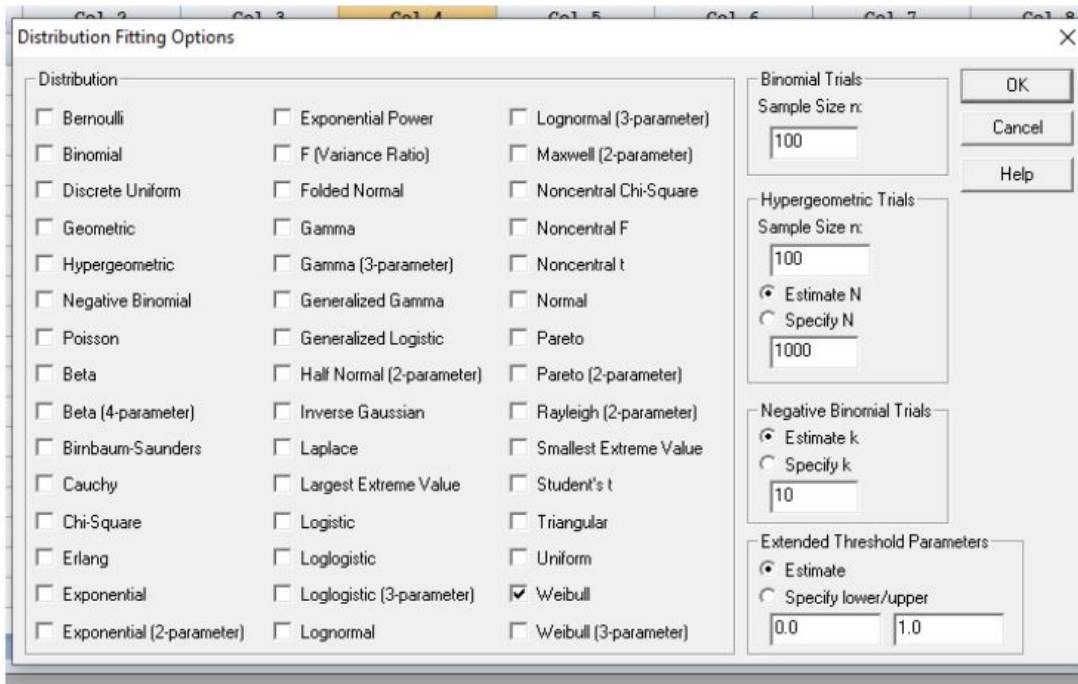
Back Up Roll

Data: Back Up Roll

(Select:)

Sort column names

OK Cancel Delete Transform... Help



Uncensored Data - Back Up Roll

Data variable: Back Up Roll

30 values ranging from 1.0 to 43.0

Fitted Distributions

<i>Weibull</i>
shape = 0.951981
scale = 10.2235

The StatAdvisor

This analysis shows the results of fitting a Weibull distribution to the data on Back Up Roll. The estimated parameters of the fitted distribution are shown above. You can test whether the Weibull distribution fits the data adequately by selecting Goodness-of-Fit Tests from the list of Tabular Options. You can also assess visually how well the Weibull distribution

fits by selecting Frequency Histogram from the list of Graphical Options. Other options within the procedure allow you to compute and display tail areas and critical values for the distribution. To select a different distribution, press the alternate mouse button and select Analysis Options.

Goodness-of-Fit Tests for Back Up Roll

Kolmogorov-Smirnov Test

	<i>Weibull</i>
DPLUS	0.109312
DMINUS	0.103598
DN	0.109312
P-Value	0.865967

The StatAdvisor

This pane shows the results of tests run to determine whether Back Up Roll can be adequately modeled by a Weibull distribution.

Since the smallest P-value amongst the tests performed is greater than or equal to 0.05, we can not reject the idea that Back Up Roll comes from a Weibull distribution with 95% confidence.

Lampiran 4 Biodata Penulis



Martina De Pores Rio Gani, lahir di Maukaro, 3 November 2001. Penulis adalah anak ke dua dari dua bersaudara. Penulis telah menyelesaikan jenjang pendidikan Taman Kanak-Kanak di TK Santa Getrudis pada tahun 2007, Sekolah Dasar di SD Katolik Maukaro pada tahun 2013, Sekolah Menengah Pertama di SMP Katolik Frateran Ndao pada tahun 2016, dan Sekolah Menengah Atas di SMA Katolik Syuradikara pada tahun 2019. Penulis melanjutkan studi Perguruan Tinggi di Universitas 17 Agustus 1945 Surabaya pada tahun 2019 sebagai mahasiswa Fakultas Teknik, Jurusan Teknik Industri. Selama perkuliahan, penulis aktif mengikuti kegiatan organisasi UKM PATAGA Surabaya. Alamat korespondensi penulis: 1411900135@surel.untag-sby.ac.id