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LAMPIRAN

1. Tabel Distribusi F tabel untuk Probabilitas = 0,05

**Titik Persentase Distribusi F
untuk Probabilita = 0,05**

df untuk peyebut (N2)	df untuk pembilang {Derajat Kebebasan} (N1)														
	1	2	3	4	5	6	7	8	9	10	11	12	$\frac{1}{3}$	14	15
1	161	199	216	225	230	234	237	239	241	242	243	244	245	245	246
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.40	19.41	19.42	19.42	19.43
3	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.76	8.74	8.73	8.71	8.70
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	5.89	5.87	5.86
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.70	4.68	4.66	4.64	4.62
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	3.98	3.96	3.94
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	3.55	3.53	3.51
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	3.26	3.24	3.22
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	3.05	3.03	3.01
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	2.89	2.86	2.85
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	2.76	2.74	2.72
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	2.66	2.64	2.62
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.63	2.60	2.58	2.55	2.53
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.57	2.53	2.51	2.48	2.46
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	2.45	2.42	2.40
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.46	2.42	2.40	2.37	2.35
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.41	2.38	2.35	2.33	2.31
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.31	2.29	2.27

19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.34	2.31	2.28	2.26	2.23
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	2.25	2.22	2.20
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32	2.28	2.25	2.22	2.20	2.18
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34	2.30	2.26	2.23	2.20	2.17	2.15
23	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32	2.27	2.24	2.20	2.18	2.15	2.13
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.22	2.18	2.15	2.13	2.11
25	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28	2.24	2.20	2.16	2.14	2.11	2.09
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.18	2.15	2.12	2.09	2.07
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25	2.20	2.17	2.13	2.10	2.08	2.06
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24	2.19	2.15	2.12	2.09	2.06	2.04
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22	2.18	2.14	2.10	2.08	2.05	2.03
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16	2.13	2.09	2.06	2.04	2.01
31	4.16	3.30	2.91	2.68	2.52	2.41	2.32	2.25	2.20	2.15	2.11	2.08	2.05	2.03	2.00
32	4.15	3.29	2.90	2.67	2.51	2.40	2.31	2.24	2.19	2.14	2.10	2.07	2.04	2.01	1.99
33	4.14	3.28	2.89	2.66	2.50	2.39	2.30	2.23	2.18	2.13	2.09	2.06	2.03	2.00	1.98
34	4.13	3.28	2.88	2.65	2.49	2.38	2.29	2.23	2.17	2.12	2.08	2.05	2.02	1.99	1.97
35	4.12	3.27	2.87	2.64	2.49	2.37	2.29	2.22	2.16	2.11	2.07	2.04	2.01	1.99	1.96
36	4.11	3.26	2.87	2.63	2.48	2.36	2.28	2.21	2.15	2.11	2.07	2.03	2.00	1.98	1.95

Diproduksi oleh: Junaidi (2010). <http://junaidichaniago.wordpress.com>.

2. Dokumentasi Kegiatan



Pemasangan Benda Kerja Pada *Chuck*



Pemasangan Pahat



Penentuan Parameter Permesinan

3. Pengambilan Data Pada Aplikasi Minitab 19

UNKNOWN WORKSHEET
Taguchi Design
 Results do not use current data.

Design Summary

Taguchi Array L27(3³)
 Factors: 3
 Runs: 27

Columns of L27(3¹³) array: 1 2 3

Penentuan Matriks Ortogonal

↓	C1	C2-T	C3-T	C4 <input checked="" type="checkbox"/>	C5	C6	C7	C8
	n	f	a	k	SNRA1	MEAN1	SNRA2	MEAN2
1	200	0.05	0.5	3.79267	-11.5789	3.79267	-11.5789	3.79267
2	200	0.17	0.5	5.34867	-14.5649	5.34867	-14.5649	5.34867
3	200	0.30	0.5	6.39000	-16.1100	6.39000	-16.1100	6.39000
4	200	0.05	1.0	3.49533	-10.8698	3.49533	-10.8698	3.49533
5	200	0.17	1.0	5.11467	-14.1763	5.11467	-14.1763	5.11467
6	200	0.30	1.0	6.05233	-15.6385	6.05233	-15.6385	6.05233
7	200	0.05	1.5	3.28333	-10.3263	3.28333	-10.3263	3.28333
8	200	0.17	1.5	4.97267	-13.9318	4.97267	-13.9318	4.97267
9	200	0.30	1.5	5.93033	-15.4616	5.93033	-15.4616	5.93033
10	400	0.05	0.5	3.13867	-9.9349	3.13867	-9.9349	3.13867
11	400	0.17	0.5	5.06333	-14.0887	5.06333	-14.0887	5.06333
12	400	0.30	0.5	5.95233	-15.4937	5.95233	-15.4937	5.95233

Hasil Perhitungan Rasio S/N (*Signal To Noise Rasio*)

Taguchi Analysis: k versus n, f, a

Response Table for Signal to Noise Ratios

Smaller is better

Level	n	f	a
1	-13.629	-8.513	-12.888
2	-12.534	-13.065	-12.159
3	-10.263	-14.847	-11.378
Delta	3.366	6.334	1.510
Rank	2	1	3

Response Table for Signal to Noise Ratios

Response Table for Means

<u>Level</u>	<u>n</u>	<u>f</u>	<u>a</u>
1	4.931	2.763	4.620
2	4.410	4.552	4.288
3	3.532	5.557	3.964
Delta	1.399	2.794	0.657
Rank	2	1	3

Response Table for Means

Analysis of Variance

<u>Source</u>	<u>DF</u>	<u>Seq SS</u>	<u>Contribution</u>	<u>Adj SS</u>	<u>Adj MS</u>	<u>F-Value</u>	<u>P-Value</u>
n	2	9.0035	18.99%	9.0035	4.5018	217.00	0.000
f	2	36.0554	76.04%	36.0554	18.0277	869.01	0.000
a	2	1.9403	4.09%	1.9403	0.9702	46.77	0.000
Error	20	0.4149	0.88%	0.4149	0.0207		
Total	26	47.4142	100.00%				

Analysis of variance