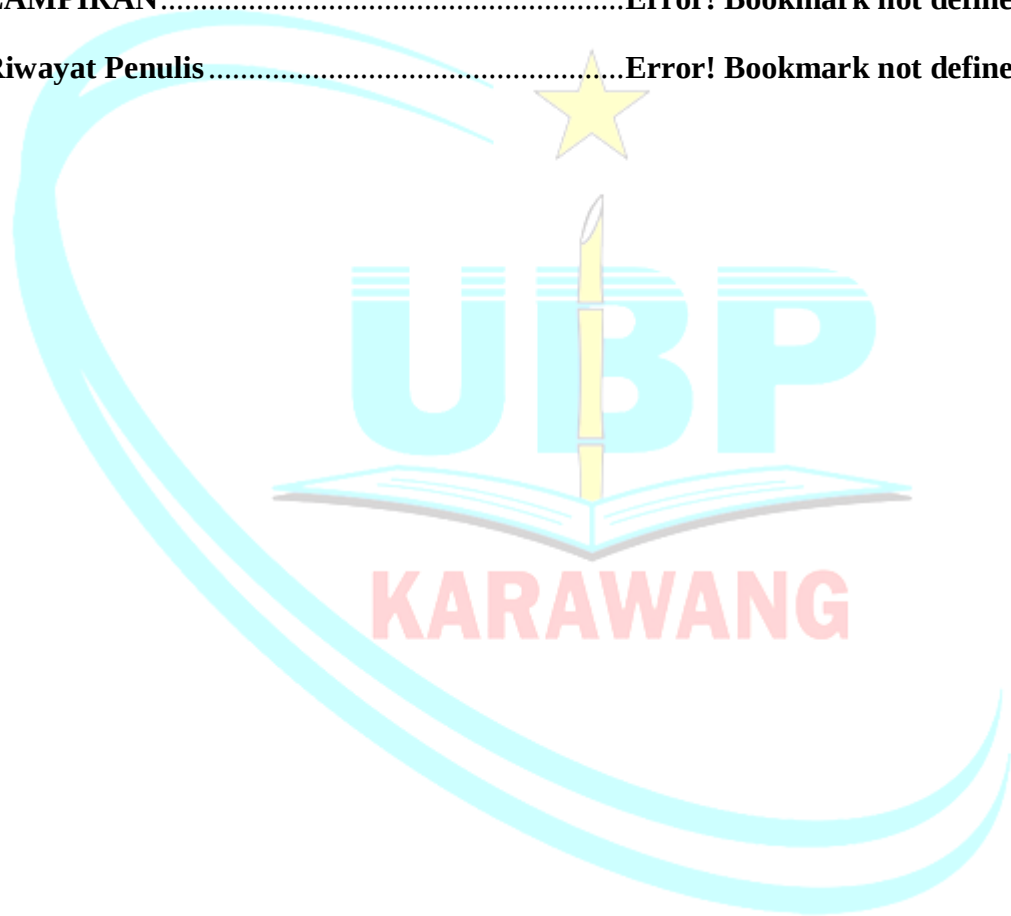


DAFTAR ISI

LEMBAR PERSETUJUAN	Error! Bookmark not defined.
LEMBAR PENGESAHAN	Error! Bookmark not defined.
LEMBAR PERNYATAAN	Error! Bookmark not defined.
KATA PENGANTAR.....	Error! Bookmark not defined.
ABSTRAK	Error! Bookmark not defined.
ABSTRACT	Error! Bookmark not defined.
DAFTAR ISI.....	vii
DAFTAR GAMBAR.....	x
DAFTAR TABEL.....	xi
DAFTAR LAMPIRAN	xii
BAB I PENDAHULUAN.....	Error! Bookmark not defined.
1.1. Latar Belakang.....	Error! Bookmark not defined.
1.1. Rumusan Masalah	Error! Bookmark not defined.
1.2. Tujuan Penelitian.....	Error! Bookmark not defined.
1.3. Batasan Masalah.....	Error! Bookmark not defined.
1.4. Manfaat.....	Error! Bookmark not defined.
BAB II TINJAUAN PUSTAKA.....	Error! Bookmark not defined.
2.1. Pengertian Pengelasan	Error! Bookmark not defined.
2.2. Prinsip Dasar Pengelasan	Error! Bookmark not defined.
2.3. Jenis-Jenis Pengelasan.....	Error! Bookmark not defined.
2.4. Pengelasan Tig (<i>Tungsten Inert Gas</i>)	Error! Bookmark not defined.
2.5. Baja Karbon Rendah.....	Error! Bookmark not defined.
2.6. <i>Stainless Steel</i>	Error! Bookmark not defined.

2.7. Proses Pengelasan TIG (<i>Tungsten Inert Gas</i>)	Error! Bookmark not defined.
2.8. Uji Tarik	Error! Bookmark not defined.
2.9. Uji Kekerasan	Error! Bookmark not defined.
2.10. Pengelasan Penggabungan Baja Karbon Rendah dan <i>Stainless Steel</i> Error! Bookmark not defined.	
BAB III METODE PENELITIAN	Error! Bookmark not defined.
3.1. Waktu dan Tempat Penelitian	Error! Bookmark not defined.
3.1.1. Waktu Penelitian	Error! Bookmark not defined.
3.1.2. Tempat Penelitian	Error! Bookmark not defined.
3.1.3. Objek Penelitian	Error! Bookmark not defined.
3.2. Prosedur Penelitian	Error! Bookmark not defined.
3.2.1. Diagram Alir Penelitian	Error! Bookmark not defined.
3.2.2. Pengujian Kekerasan	Error! Bookmark not defined.
3.2.3. Pengujian Tarik	Error! Bookmark not defined.
3.2.4. Pengumpulan Data	Error! Bookmark not defined.
3.2.5. <i>Orthogonal Array</i>	Error! Bookmark not defined.
3.2.6. <i>Signal to Noise Ratio (S/N Ratio)</i>	Error! Bookmark not defined.
3.2.7. Analisis Data	Error! Bookmark not defined.
BAB IV HASIL DAN PEMBAHASAN	Error! Bookmark not defined.
4.1. Hasil Pengujian Kekerasan	Error! Bookmark not defined.
4.2. Hasil Pengujian Uji Tarik	Error! Bookmark not defined.
BAB V KESIMPULAN DAN SARAN	Error! Bookmark not defined.
5.1. Kesimpulan	Error! Bookmark not defined.
5.1.1. Pengujian Kekerasan:	Error! Bookmark not defined.
5.1.2. Pengujian Uji Tarik:	Error! Bookmark not defined.

5.2. Saran.....	Error! Bookmark not defined.
5.2.1. <i>Optimalisasi</i> Parameter Proses:	Error! Bookmark not defined.
5.2.2. Penggunaan Material:	Error! Bookmark not defined.
5.2.3. Pengembangan Proses Pengelasan:.....	Error! Bookmark not defined.
5.2.4. Pengujian Tambahan:.....	Error! Bookmark not defined.
DAFTAR PUSTAKA	Error! Bookmark not defined.
LAMPIRAN.....	Error! Bookmark not defined.
Riwayat Penulis	Error! Bookmark not defined.

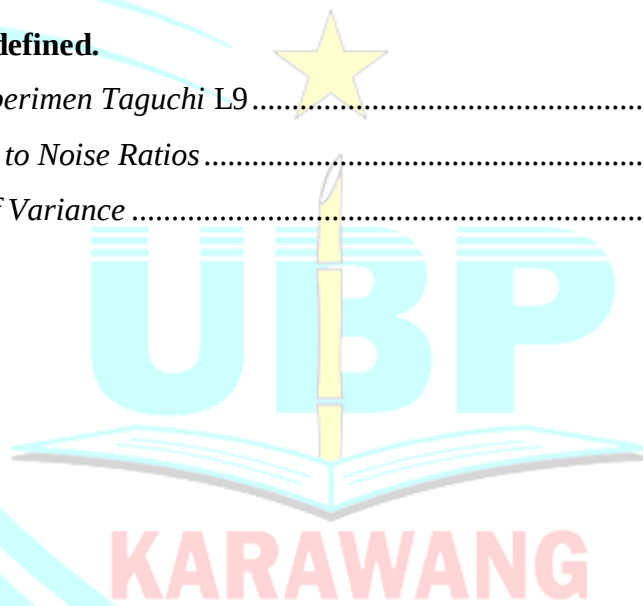


DAFTAR GAMBAR

Gambar 3.1. Peta Lokasi Penelitian	17
Gambar 3.2. Desain Specimen Pengelasan; a) ST37, b) SUS304, c) pengelasan antara ST37 dan SUS304	18
Gambar 3.3. Diagram Alir Penelitian	19
Gambar 3.4. Posisi Pengujian Kekerasan	20
Gambar 3.5. Alat Uji Kekerasan	21
Gambar 3.6. Alat Uji Tarik	21
Gambar 3.7. Desain Eksperimen Taguchi L9	22
Gambar 4.1. Grafik Uji Kekerasan	25
Gambar 4.2. Hasil Uji Kekerasan 45A.....	27
Gambar 4.3. Hasil Uji Kekerasan 65A.....	27
Gambar 4.4. Pengujian Tarik Material.....	27
Gambar 4.5. Material After Uji Tarik.....	27
Gambar 4.6. Grafik Pengujian Tarik.....	28
Gambar 4.7. Grafik Uji Tarik.....	28
Gambar 4.8. Grafik <i>Main Effect Larger Is Better</i>	29

DAFTAR TABEL

Tabel 3.1. Jadwal Penelitian	Er
ror! Bookmark not defined.	
Tabel 3.2. Komposisi Kimia St 37	Er
ror! Bookmark not defined.	
Tabel 3.3. Komposisi Kimia SUS 304	Er
ror! Bookmark not defined.	
Tabel 3.4. Matrik <i>Ekperimen Taguchi</i> L9	22
Tabel 4.1. <i>For Signal to Noise Ratios</i>	28
Tabel 4.2. <i>Analysis of Variance</i>	30



DAFTAR LAMPIRAN

Lampiran 1 Desain Sepesimen.....	36
Lampiran 2 Material Sebelum Dilakukan Proses Pengelasan.....	37
Lampiran 3 Elektroda Tungsten.....	38
Lampiran 4 Settingan Arus Listrik (Amper).....	39
Lampiran 5 Settingan Laju Aliran Gas	Error! Bookmark not defined.
Lampiran 6 Proses Pengelasan.....	Error! Bookmark not defined.
Lampiran 7 Hasil Pengelasan.....	Error! Bookmark not defined.
Lampiran 8 Pengujian Kekerasan	Error! Bookmark not defined.
Lampiran 9 Pengujian Uji Tarik	Error! Bookmark not defined.

