

# Table of Contents

FOREWORD	i
INTRODUCTION	iii
ACKNOWLEDGEMENTS	v
Chapter 1 — HISTORY OF THE PLANE	
Early beginnings in Egypt, Greece, Rome, and Northern Europe	1
The Renaissance	7
Rise of the planemaking trade	9
Written history of the plane	10
History, China	11
History, Japan	12
Dating planes	13
The wooden plane in the history of America	15
Chapter 2 — BENCH PLANES — AN OVERVIEW	
Bench plane function	21
Bench plane structure	23
Making bench planes	25
Woods	27
Handles or grips	28
Continental characteristics	33
Plane irons	33
Variant blade mountings	37
Chapter 3 — BENCH PLANES — INDIVIDUAL TYPES	
Roughing planes	38
Trying planes	41
Jack planes	42
Long planes	46
Smooth planes	49
Chapter 4 — OTHER SURFACING PLANES	
Very long planes	55
Small planes	55
Planes with interchangeable soles	58
Planes with irons bedded at high pitch	59

Thickening planes	61
The strike block and its descendants	62
Panel raising planes	67
 Chapter 5 — THE TWO MAJOR TYPES OF PLANES	
Side escapement planes	79
Parts common to bench and side escapement planes	84
 Chapter 6 — RABBETING PLANES	90
Rabbets	91
Filletsters	99
 Chapter 7 — GROOVING PLANES	
The plow	105
Other grooving planes	130
 Chapter 8 — PLANES FORMING ANGLED SURFACES	
Dovetail and related planes	141
Chamfer planes	146
Other angle cutting planes	153
 Chapter 9 — PLANES FORMING CURVED SURFACES	
Planes used for longitudinal curved surfaces	155
Planes used to make cylindrical grooves	159
Planes used for cylindrical surfaces	164
Radius planes	171
 Chapter 10 — DECORATIVE MOLDING PLANES — SIMPLE	
Moldings - origins	175
Molding planes - general	178
Hollows, rounds, and related molding planes	188
Elements of compound molding planes	199
 Chapter 11 — DECORATIVE MOLDING PLANES — COMPLEX	217
Names of molding planes	218
Systematic naming of complex molding planes:	
simplified general principles	219
Complex profiles	222
Complex moldings, other types	273

Chapter 12 — OTHER PLANING TOOLS	
Shaves	297
Scrapers	304
Planes to make shavings	308
Routers	311
Planes to work circles	314
Chapter 13 — PLANES OF SPECIFIC TRADES	
The Cooper	316
The Sashmaker	336
The Coachmaker	354
The Planemaker	362
The Organ Builder	371
The Staircase Builder	372
The Basketmaker	375
The Rulemaker	376
The Chairmaker	376
The Patternmaker	377
Other	380
Appendix 1 — THE CUTTING ACTION OF PLANE BLADES	382
Appendix 2 — SYSTEMATIC NAMING OF MOLDING PROFILES	393
Appendix 3 — AN INDEX BASED UPON THE PHYSICAL SHAPE OF THE PLANE	406
GLOSSARY	446
FRENCH-ENGLISH GLOSSARY AND INDEX	457
GERMAN-ENGLISH GLOSSARY AND INDEX	464
DUTCH-ENGLISH GLOSSARY AND INDEX	472
JAPANESE-ENGLISH GLOSSARY AND INDEX	475
BIBLIOGRAPHY	479
INDEX	490