

VARN **Kompac** ^{III}® Automatic Dampener

U.S. Patent No. 4,455,038

Operators' Manual

EFFECTIVE FOR ALL KOMPAC MODELS

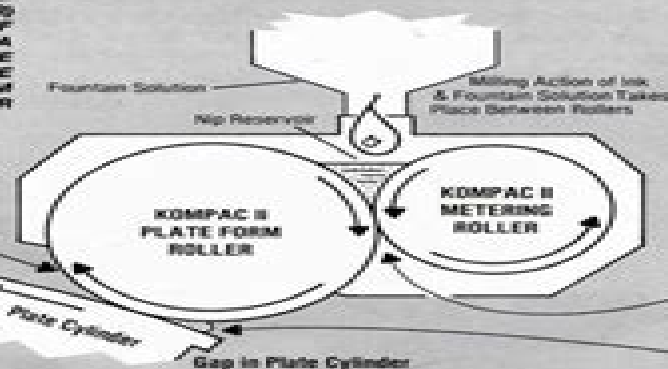
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THE THEORY AND EXPLANATION OF KOMPAC

THE PLATE FORM ROLLER ROLLS ACROSS THE PLATE, WITH THE NON-IMAGE AREA OF THE PLATE TAKING FOUNTAIN SOLUTION (WATER) AND THE IMAGE AREA OF THE PLATE SPLITTING A LAYER OF INK WITH THE PLATE FORM ROLLER. THE KOMPAC II PLATE FORM ROLLER IS BOTH WATER AND INK RECEPTIVE



WARNING: Kompac II rollers have inward nips. Do not run Kompac unit without safety cover in place.



INK AND FOUNTAIN SOLUTION MILLED UNDER PRESSURE AT ROLLER NIP

ALL SURPLUS FOUNTAIN SOLUTION AND INK RETURNED TO NIP RESERVOIR AT EACH REVOLUTION OF PLATE — READY FOR NEXT IMPRESSION

... The Kompac II Automatic Dampening System is an engineering breakthrough which gives automatic ink-water balance to small offset presses. It is a complete replacement dampener installed on a small offset press after the original dampening system is removed and stored. The Kompac II System is a continuous feed, 2-roller system which dampens the plate directly from a plate form roller. The plate form roller is gear driven by the plate cylinder gear and operates drag-free at the same surface speed as the plate. Once the Kompac II System is installed on the duplicator and the proper settings made to the unit, no other adjustments are necessary from job to job and stock to stock.

By splitting the ink film with the image on the plate, the Kompac II System adds to the inking capabilities of a duplicator. This fact, coupled with the finer ink film and the lack of emulsification in the inking train, permits the Kompac II System to run larger solids, finer screens and halftones and smaller reverses than can normally be run by any of the three current dampening systems.

The Kompac II Automatic Dampening System consists of a metering

roller and a micro ground plate form roller. The nip between these rollers carries a constant level of fountain solution. Both the plate form roller and the metering roller split and share a film of ink with the plate, and both carry ink in the image area. The fountain solution is milled into the ink under pressure at the inward nip, forming microscopic droplets of fountain solution emulsified in the ink. The emulsified fountain solution in ink is rolled across the plate by the plate form roller which functions as a giant squeegee delivering an extremely thin and uniform film of fountain solution and ink. Since the emulsification takes place away from the ink form and distributing rollers, there is virtually no chance of emulsification working back to the ink train. The plate form roller builds up a small surplus of fountain solution on its trailing edge, which is automatically returned to the nip reservoir when the plate gap passes under the plate form roller. This automatic return feature eliminates a build-up of water in the system which would require a rebalancing of ink and water. By having this reserve of fountain solution available at every plate revolution, the Kompac II System offers almost instant start-up from job to job and is unaffected by changes in room temperature, press stops, drafts, etc.

Kompac Ii Operator Manual

M Walker



Kompac II Operator Manual:

Reviewing **Kompac Ii Operator Manual**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Kompac Ii Operator Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Kompac Ii Operator Manual

1. Understanding the eBook Kompac Ii Operator Manual
 - The Rise of Digital Reading Kompac Ii Operator Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Kompac Ii Operator Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Kompac Ii Operator Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kompac Ii Operator Manual
 - Personalized Recommendations
 - Kompac Ii Operator Manual User Reviews and Ratings
 - Kompac Ii Operator Manual and Bestseller Lists

5. Accessing Kompac Ii Operator Manual Free and Paid eBooks
 - Kompac Ii Operator Manual Public Domain eBooks
 - Kompac Ii Operator Manual eBook Subscription Services
 - Kompac Ii Operator Manual Budget-Friendly Options
6. Navigating Kompac Ii Operator Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Kompac Ii Operator Manual Compatibility with Devices
 - Kompac Ii Operator Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kompac Ii Operator Manual
 - Highlighting and Note-Taking Kompac Ii Operator Manual
 - Interactive Elements Kompac Ii Operator Manual
8. Staying Engaged with Kompac Ii Operator Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kompac Ii Operator Manual
9. Balancing eBooks and Physical Books Kompac Ii Operator Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kompac Ii Operator Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Kompac Ii Operator Manual
 - Setting Reading Goals Kompac Ii Operator Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Kompac Ii Operator Manual
 - Fact-Checking eBook Content of Kompac Ii Operator Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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