

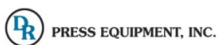
Products & Services

800-452-9481



The Siebold Company, Inc.

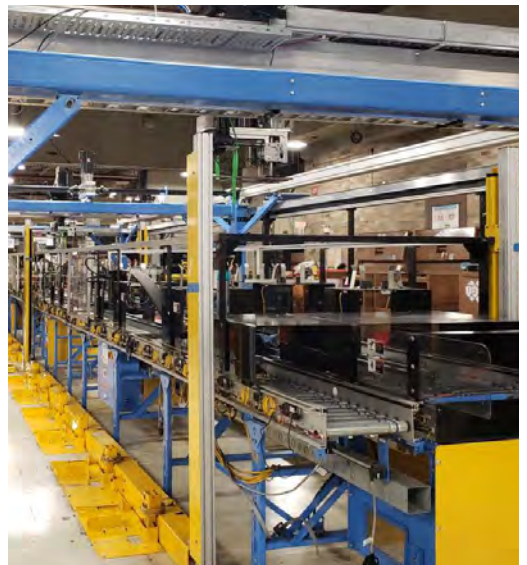
sieboldgraphicarts.com
sieboldparts.com



TSC Conveying / Sorting / Robotics

RCS (Robot Containerization System)

During mail processing, substantial time and effort is expended verifying, lifting, stacking, pushing, unloading and re-verifying trays of mail during daily postal operations. The Siebold Company Inc. (TSC) and ABB have worked as a team installing the RCS (Robotic Containerization System) in over 220 USPS Processing and Distribution Centers across the country. Many of these sites have had multiple RCS systems installed by the TSC/ABB team. These highly efficient systems assist mail processing with several million pieces of cancelled items of mail each day. Each RCS system contains two robots that automatically sort, move and stack mail trays according to zip code information embedded in bar codes on the containers. They are then dispatched to their respective facilities. Together, TSC and ABB have conducted this national program for 20 years since the early stages of RCS development. This included initial in house testing and training of USPS personnel. With TSC's electro-mechanical installation expertise, ABB's Robotic Containerization System enhances mail processing and efficiency by applying the flexibility and modular design of a gantry solution that meets USPS tray handling requirements.



010/LMS (Loose Mail System)

The Siebold Company, Inc. has been a leader in installation for the Mail Processing industry for 25 years. Working closely with The United States Postal Service TSC has completed thousands of successful electromechanical installs, many of which have been the 010/LMS system. The United States Postal Service separates mail into three categories: letters, flats, and packages. The 010/LMS family of machines processes, filters, and sorts small pieces of mail like letters, bills, and postcards. This process begins with culling or filtering out the mail that cannot be handled by the machines down the line due to size, shape, or weight. Once filtered the 010/LMS feeds the AFCS (Advanced Facer-Canceller System) through the use of height control sensors and photo eyes. The AFCS then uses specialized cameras to find the stamp, locate the address, read the handwriting, orientate the mail, and cancels the stamp with a post mark. After cancelling, letter type mail is then processed again and sorted into a delivery point sequence which allows USPS carriers to deliver the mail in the order of their route.

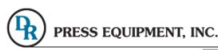


800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com





Richard Palmer, Senior Vice President

"We offer a wide variety of press related services to help you buy, sell, expand, upgrade, or simply improve the efficiency of your web press."

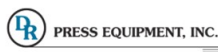
- TSC Press Drives & Controls
- QIPC Register & Color Controls
- EAE Automation Controls
- TSC Parts & Service
- TSC Installation Services
- Reconfiguration & Relocation
- Brokering & Valuation Services
- Press Alignment & Tram Services

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



TSC Graphic Arts Division Key Contacts



Richard Palmer-SVP, Richard@siebold.com, 954-913-4087

Richard has a long and successful history with the newspaper industry since 1976. He has served in many senior management roles, including operations management with TKS, CEO of Hall Contracting Services and senior management roles at Goss International.

Christopher Miles- VP, Christopher@Siebold.com, 754-812-1479

Christopher oversees strategic business initiatives, acquisition efforts, and consults with all TSC personnel on market development opportunities. His 30-year career includes senior management roles, including President and CEO positions in newspaper and commercial printing organizations.



Bruce Barna - VP Sales & Marketing, bruce@siebold.com, 412-973 3388

Bruce has over 40 years of sales and marketing management experience with global and regional organizations, with a focus on 100% customer satisfaction. Bruce's background includes publishing weekly newspapers and various management roles with RCA / Whirlpool, Goss International and Trib Total Media.

Bob Hallstrom - VP Sales, bob@siebold.com, 847-648-1652

Bob has along and successful history in the supply-side of the graphic arts equipment industry, including various management roles at Goss International. Bob's expertise in a variety of capacities spans both the newspaper and commercial printing arenas.



Beau Campbell - VP Sales, beau@siebold.com, 913-522-4889

During his 40-plus years of working within the newspaper industry, Beau has successfully completed hundreds of press installations, press additions, audits, upgrades and press sales worldwide. He also serves on the ING board and is actively involved with SNPA and Inland Press Association.

Cameron Nelson - Project Manager, Cameron@siebold.com, 954-303-8035

Cameron is the newest member of the TSC graphic arts team. He joined us from our USPS division where he had eight years of extensive field experience in mechanical and electrical installations in both the material handling and graphic arts industries. Cameron is also a certified journeyman electrician.



800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



We have the press parts inventory you need to make certain you receive the *DGM & Smith Pressroom Products* OEM parts when you need them!

We also stock parts for several Goss press units and folders.



Eugene Albright, VP Press, Parts & Service, eugene@siebold.com, 800-452-9481 With over 30 years of experience, Eugene leads product & technical development for all TSC products. His current focus is developing design enhancements for *TSC Dampening Systems* (formerly Smith Pressroom Products) and our new *TSC Press Drive Controls*.



Brian Roach, Plant Manager, brian@siebold.com, 800-452-9481

Brian has over 15 years of parts, field service and shop service experience and has a clear understanding of the functionality of your equipment and how to keep it running. He looks forward to helping you with all your parts and service needs!

Ed Heim, Parts & Service Manager, ed@siebold.com, 800-452-9481

When you call our parts department at 800-452-9481, or email ed@siebold.com, rest assured Ed understands the importance of your order and your deadlines. Ed's extensive parts and service experience will help you determine exactly what you need.



Matthew Clouser, Automation Engineer, mattclouser@siebold.com, 800-452-9481

Matt has over 20 years of field and shop experience in engineering and servicing press motor drives and automation systems. Matt looks forward to helping you with all your press drive controls upgrades, replacements and technical service support.

Dan Dowejko, Parts CSM, dan@siebold.com, 800-452-9481

We are very pleased that Dan is a key part of *Team TSC* in the parts division. Dan joined us immediately following the purchase of DR Press Equipment. He has decades of experience helping single and double width press customers with their parts needs.



800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



Siebold Solutions

Operational and financial consulting for a wide variety of industries including printing, publishing and material handling. We can help you consolidate your manufacturing facilities, streamline operations, evaluate new business opportunities and improve profitability.



Christopher Miles, a thirty-plus year industry veteran, leads the SIEBOLD SOLUTIONS department and relies on The Siebold Company team members to assist in their specific areas of expertise.

Every consulting engagement is customized to the individual client and tailored to meet all project sizes. Whether you require assistance with a single production issue, or a project involving multiple departments throughout your organization - we can help!



Christopher Miles - VP Corporate Development, Christopher@siebold.com, 800-452-9481 X112

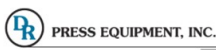
- Production Facility Planning
- Production Equipment Selection
- Financial Consultation
- Strategic Planning

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



Press & Auxiliary Equipment Audits & Valuations

When you require equipment production equipment audit and valuation services, rely on our decades of experience to help you determine the accurate condition and value of your equipment.



Our industry is in the most active consolidation period of its long history. Now, more than ever, it is vital to know the value of your production equipment.

Beau Campbell heads up the ***TSC PRESS & AUXILIARY EQUIPMENT AUDITS & VALUATIONS*** department, providing you with detailed analysis and reporting data based on four decades of experiences.

If you need to determine the accurate value of your equipment, for insurance or resale purposes - we can help!



Beau Campbell, VP Sales, Beau@siebold.com, Mobile: 913-522-4889

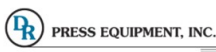
- Press & Auxiliary Equipment Audits
- Production Equipment Valuations
- Detailed Reporting & Analysis
- Customized Audit Services

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



TSC Press Drives & Controls

The all new **TSC Press Drive Controls** were developed to replace your obsolete Fincor drives and most other brands - and will virtually eliminate your press drive issues! There are no proprietary components - all components can be replaced with any compatible make or model components. TSC Press Drive Controls can be easily integrated into your existing press, motors, drives, units, folders, clutches, and auxiliary systems to improve performance, extend the life of your press, and are operator-friendly utilizing the latest state-of-the-art technology.



Improve print quality and reduce overall production costs!

QIPC Color & Register Controls



EAE Press Controls & Automation



The Siebold Company, Inc. (TSC) is the QIPC - EAE exclusive authorized distribution agency.

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com

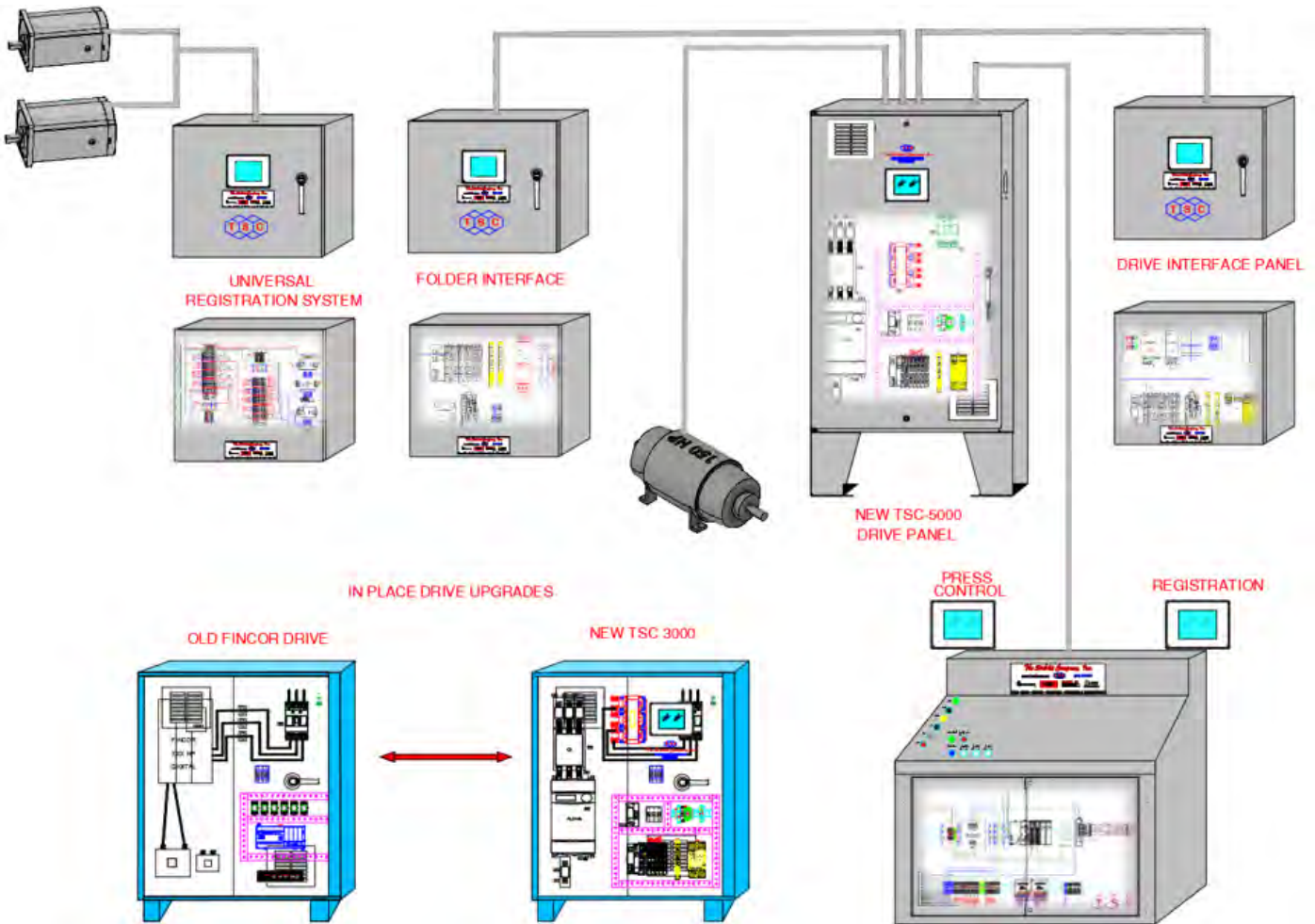


TSC PRESS DRIVE CONTROLS

The Siebold Company Inc's TSC **PRESS DRIVE CONTROLS** are designed to eliminate press drive issues. There are no proprietary components used within the system, so all components can be replaced with any compatible make or model components as needed. This offers our customers the security and freedom to operate and replace the new components for many years to come while it continuing to utilize existing drive components, including motors, wiring and clutches.

Our versatile line of press drive solutions can be integrated into your existing press, motors, drives, units, folders, clutches, and auxiliary systems. **TSC PRESS DRIVE CONTROLS** provide an abundance of features to enhance your press performance, extend the life of your press and are operator-friendly utilizing the latest state-of-the-art technology.

Our new controls package features enhanced controls that reduce wiring and troubleshooting, the latest safety devices, integrated drive and press control, easy user touch screen interface, integrated, registration, reporting (production and error), remote diagnostics, and troubleshooting capabilities.



800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



TSC5000 Press Drive Controls System with New Drive Panel



The ***TSC 5000 Press Drive Controls System*** is a complete stand alone assembly that includes:

- New cabinet with the required main circuit breaker, control transformer, blower starter
- New Drive Module (up to 150hp, non-reversing with regenerative braking, Built in Field supply up to 16amp)
- New main Contactor on AC side of the drive
- New high-speed fusing on line side and load side
- New line reactor
- PLC based control system with touch screen display
- Multiple Drive Configurations
 - Can be integrated with up to 32 Drives
 - Can be configured as single or multiple drives per motion zone
- Remote Diagnostics capable via customer supplied high speed Internet Connection
 - Troubleshooting drive module and PLC
 - View touch screen to check faults
 - Remote capability to upgrade drive module and PLC programs
 - Remote restoration of lost drive module parameters and PLC programs
- Constructed with readily available components
- 24 / 7 parts and service support

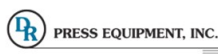
This package is a generic setup without a control system, a **TSC Drive Interface** panel will be required for replacement of controls. This system is set up for Remote Diagnosis TSC configured PC for Remote access and requires the customer to have an internet connection.

800-452-9481



The Siebold Company, Inc.

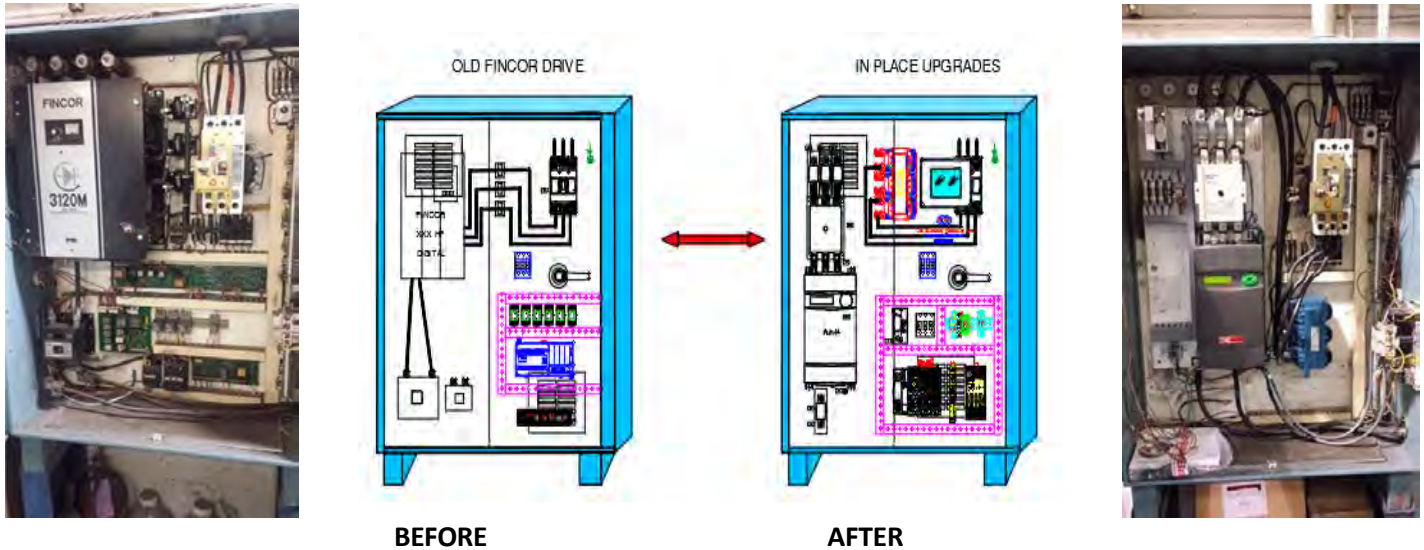
sieboldgraphicarts.com
sieboldparts.com



TSC 3000 Press Drive Controls System - Drive Swap

TSC assembles and tests each drive panel at our facility. Once it passes our extensive testing and quality control process it is sent to the site pre-assembled and ready to install to reduce the press down time during your drive swap out.

TSC will reuse your existing cabinet, Main Circuit Breaker, Control Transformer, and Blower Motor Starter. While providing and installing the following parts in the reused cabinet to control an existing DC Motor:



- New Drive Module (up to 150hp, non-reversing with regenerative braking
Built in Field supply up to 16amp)
- New main Contactor on AC side of the drive
- New high-speed fusing on line side and load side
- New line reactor
- Off the shelf components for easy and cost-effective maintenance

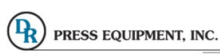
The new ***TSC 3000 Press Drive Controls System*** is the most cost-effective way to replace your old, worn and obsolete press drives. Eliminate press down time and the fear of press drive failure. All TSC Press Drive Controls Systems are designed with off-the-shelf components for easy and inexpensive maintenance and repairs. All TSC Press Drive Controls Systems are capable of remote diagnostics for immediate remote service support.

800-452-9481



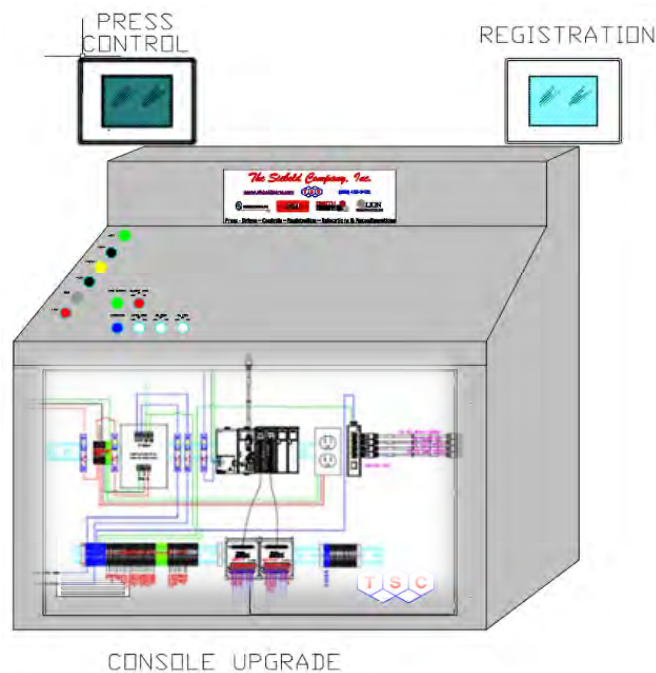
The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



TSC Press Control Console Upgrades

TSC offers a Console upgrade package designed to upgrade any existing console with programmable auto sequential startup of pneumatic functions, auto shutdown of pneumatic functions, a single set on pushbutton for Impressions, programmable water curve for presses with sock dampening, flood button for water motors, touch screen for count display and adjustment of set up parameters, option to cycle micrometrics on and off at slow speed for slower speed make ready for presses with manual registration.



Advantages of our console upgrade package:

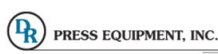
- **Drive control and Reliability** – TSC has partnered with Bardac, Phoenix Contact, and others to provide our customers cutting edge and proven technology.
- **Operator consistency** - With process-less plates it is very important the press start is done consistently.
- **User Interface** - Easy to use interface screens that offer an abundance of information from the press counters, press faults, drive conditions and more.
- **Remote login** that allows our skilled technicians “real time” dial in capabilities to assist the site when needed.
- **Supported Products** – TSC’s control system is based on “COTS” - current off the shelf supportable hardware and software.
- **Modular System Integration** - Easily upgraded and modified system controls.

800-452-9481



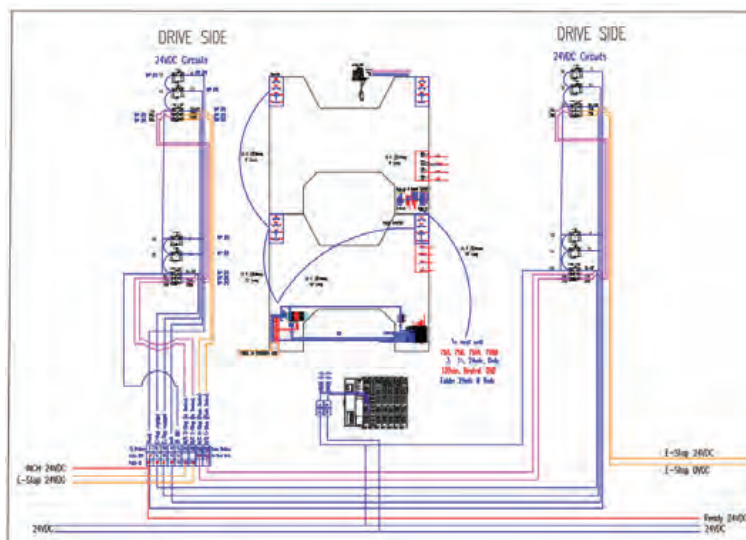
The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



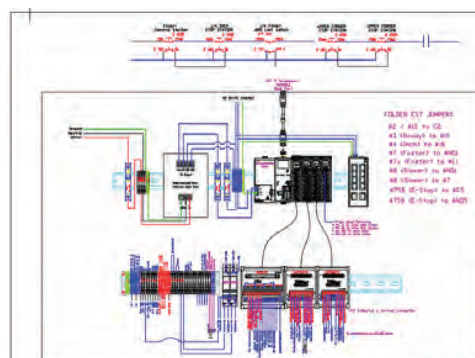
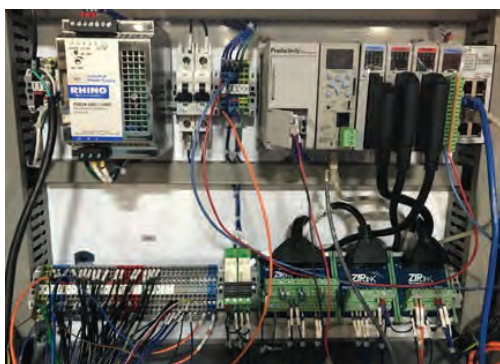
TSC Tower Controls Upgrades

Towers can be fitted with remote I/O blocks pre-wired with interface harnesses that will be plugged into the existing controls. The remote I/O blocks will be linked to the folder PLC's via ethernet (CAT5).



TSC Folder Interface Panels

TSC offers a Folder integration package as an assembly that interfaces to new and existing devices .



This package includes:

- Enclosure
- Circuit breakers for controls
- PLC
- Touch Screen or informational display
- Safety relays

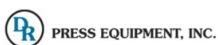
A standard panel is built to handle controls for (1) folder with up to 3 drives, clutching inputs to connect multiple folders together. Programmable outputs for speed points for press auxiliaries and 0-5v or 0-10v selectable for press speed signals to press. This option can be customized if standard panel does not meet the needs of the user (customized panel is priced job specific).

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



IDS - 3D

Color Register & Control System

Applications for color and register control by IDS-3D

- Automatic control of ink keys, ink fountain rollers and dampening units (Color and damp control).
- Automatic control of color register in all directions from all colors to each other (Color-to-color register).
- Measuring the register on multiple locations on the printing cylinder to define register deviations between plate positions and to control the web growth behavior (Fan-out control & Plate to Plate Register).
- Alarm for the identification of production preparation failures such as incorrectly positioned plates (Production preparation failures).
- Alarm in case of production process failures (Production process monitoring).
- Press presetting tools and extensive reporting of production relevant information to optimize the printing process (Printing process optimization).

What are the unique features?

- Combined functionality of color and register in one camera.
- Works by measurements in the print without the use of marks.
- Online measurements on a free running web.
- Automatic cleaning of the optics thanks to AIMS.
- Extensive "remote diagnostics" via VPN connection.
- Measurement of colors in print in CIELab color values.
- Easy to operate by means of a touch screen.
- Combined control of ink and dampening.
- Detection of production preparation and process failures.

What are the advantages of IDS-3D?

- Single camera system reduces the need of multiple camera's.
- Less labor-intensive thanks to automatic color and register corrections.
- Less waste due to automatic color and register optimization while starting up and recognition of incorrectly positioned plates.
- Alarms triggered by printing problems such as running dry.
- Reproduction with absolute color stability, independent of job, printing company or press.
- Color register information per individual page or plate position.
- Easy to expand for product quality reports via Intelligent Quality Management.

Options:

- Anti embossing: all printing units are controlled such that ink buildup on the blankets is reduced and the wash frequency can be minimized.
- Front to back register control ensures that the front of the printed web is brought into register with the back of the printed web.
- Waste gate control: dumping unsellable copies when produced.
- Error reporting button on operator screen.
- Alarm signals via traffic light.

IDS-3D is a fully automatic image based color and register measuring and control system for web offset presses that also detects failures in print. A digital camera ensures that the measured data is processed in real-time and uses the digital file data as its reference. The ultimate result realized by IDS-3D is reproduction with absolute color and register stability in products independent of job, printing company or press at minimum waste and maximum efficiency.

Technical specifications IDS-3D

Camera:

Type:	3D - CMOS - 2.6 megapixel
Measurements:	60 per second - 400 DPI
Time to measure 1 Meter web width:	10 to 15 sec (depends on print)
Light source:	LED
Processor:	FPGA, Dual Core / DSP + ARM
Max. web speed:	59 ft/s
Dimensions:	5.5 in. * 3.2 in. * 1.6 in.
Weight:	8.82 oz.
Temperature during operation:	23° F to 113° F
Temperature in storage:	-13° F to 140° F
Power consumptions:	0.16 kWh p/t during production. 0.1 kWh p/t during non production.
Impacts / Vibrations:	< 2.5 oz. / < .25 oz. (11 -200 Hz)
Camera IP code:	IP67
Certifications:	CE / UL / FCC

AIMS :

Lifespan:	Approx. 9 Months, 150 refreshments
-----------	---------------------------------------

Motorized transport:

Speed:	6.5 ft/s
Transport motor IP code:	IP65

Color and register control functionality from the image:

Digital reference image:	RIP data; 1-Bit TIFF or TIFF/G4 files
Colors:	CMYK / 2 x PMS only in color bars.
Web stability condition:	± 0.12 in. (laterally + circumferentially) ± 0.16 in. (focus depth)
Accuracy CIELab color value:	1 ΔE
Accuracy raster percentage:	± 1 %
Accuracy dot gain:	± 2 %
Accuracy K-value:	± 2 %
Accuracy Density:	± D0.02
Accuracy Color register:	± 0.0004 in.
Colorimetrics measurements:	CIE L*a*b*, ΔE* CIELAB
Maximum color register error:	± 0.12 in.
Minimum density:	0.6 D for CMYK
Density determination:	Density, Dot gain, Contrast

Measuring conditions:

Reference white:	Absolute, relative
Exposure profiles:	D50
Angle of observation:	2° optional: 10°
Density standards:	DIN 16536/Status-E, ANSI Status T

Used Q.I. Press Controls owned patented technology:

Color control from the image: US5,774,635; EP0699132; EP 1551635; US7,040,232; NL2009786;
Print Failure detection: US5,774,635; EP0699132; US7,040,232;
Damp Control: US5,774,635; EP0699132; US7,040,232;
Register & Ribbon Control: US6,108,436; EP0850763; 2354230; US6,604,463;
AIMS: NL2008732

Specifications may change without further notice.

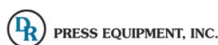


800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



m RC-3D

Register Control System

Applications:

- Color register in circumferential direction from printing unit to printing unit (Unit to unit).
- Color register of all colors in all directions relative to each other (Color to color).
- Side laying the entire web using the web guide system (Ink guide).
- Cut-off register.
- Side laying a web section using a turner bar.
- Correcting the lateral growth of the web downstream of the printing units compared to the web upstream of the printing units (Fan-out).
- Plate cocking control.

What are the unique features?

- mRC-3D measures accurately independent of the focal distance and paper deformation.
- Camera and data processing combined into one small component.
- Innovative optical technology using LED lighting.
- Instant detection of register marks at start-up by a measuring area with a width of 60mm.
- VPN connection for remote diagnostics.
- 3 functions in 1 scanner: color register, cut-off register and sidelay register.
- Easy to operate by means of a touch screen.
- Optional motorized scanner for lateral pre-setting.
- Optional motorized scanner for corrections on fan-out and plate errors.
- Optional automatic cleaning of optic by driven foil (AIMS).
- Optional cleanable optic by removable glass (IMS).

What are the advantages of the mRC-3D?

- Less labor intensive thanks to automatic control.
- Consistency in measuring and controlling, also in case of web flutter, waves and creases in the paper webs.
- Less waste because the different colors are automatically brought into register while starting up.
- Consistent quality, independent of job, printing company or press.
- Reliability due to quality, simplicity and intelligent software.
- Easy operation using a touch screen.
- Easy to expand with Intelligent Quality Management for quality reporting.

Options:



- Anti-embossing control: all printing units are controlled such that ink build-up on the blankets is reduced and the wash frequency can be minimized.
- Automatic waste gate control if an error is greater than a preset value.
- Progressive control predicts and corrects for errors due to speed change before they occur.
- Dynamic folder control calculates the stretch of the paper and extrapolates this as additional error behind the cut-off register camera's.
- Front-to-back control ensures that the front of the printed web is brought into register with the back of the printed web.
- Compensator or phasor control: a compensator roller between the printing units is driven to enable large errors to be compensated quickly.
- Motorization package for the circumferential and side-lay registers.

The mRC-3D is a fully automatic color and cut-off register system for web off-set presses. Two digital camera's with built-in microprocessors provide real-time data processing of the measured data. Because of its 3D functionality the 3D scanner is capable to accurately measure the printed micro-marks independent of the focal distance and the deformations in the paper web.

Technical specifications mRC-3D

Max. color register error:	± 0.275 in.
Max. cut-off register error:	± 3.94 in.
Max. side-lay register error:	± 1.0 in.

Register marks:

ID:	tiny	small
Shape:	square	square
		
Mark size:		
Min.:	0.004 x 0.004 in.	0.012 x .012 in.
Max.:	0.012 x 0.012 in.	0.024 x 0.024 in.
Clearance:	0.2 x 0.2 in.	0.28 x 0.28 in.
Max. colors:	6	6

Range:

Min. side-lay:	± 0.06 in.	± 0.06 in.
Min. circumferential:	± 0.06 in.	± 0.06 in.
Max. side-lay:	± 0.1 in.	± 0.2 in.
Max. circumferential:	± 0.12 in.	± 0.28 in.

Camera:

Maximum number of measurements:	40 per second
Light source:	LED 130 lumen /Watt
Lateral reading range:	2.4 in.
Focus depth:	± 0.8 in.
Max. web speed:	59 ft/s
Minimum mark density:	0.3 D
Dimensions	5.5 in. * 3.2 in. * 1.6 in.
Weight (without IMS or AIMS) Mounting on bar	8.11 oz.
	Symmetric

Motor-bar:

Motor speed	6.5 ft/s
IP code	IP65

Accuracy:

Color register:	± 0.0004 in.
Cut-off register / sidelay register:	± 0.001968 in.

AIMS:

Refreshments	150
cassette Lifespan	Appr. 9 months, 150 refreshments

Used Q.I. Press Controls owned patented technology:

Register & Ribbon Control: US6,108,436; EP0850763; 2354230;
US6,604,463; NL2009786
AIMS: NL2008732

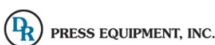


800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



ABD II

FAN-OUT CONTROL SYSTEM

Applications

- Fan-out control between heatset printing units.
- Fan-out control between H-printing units in newspaper printing.

What are the unique features?

- No physical contact with the paper or printed image.
- Compressed air exit at 1 Mach with greater contact surface on the printing web.
- Mechanical movement of individual nozzle, elevation range of 0.6 inches.
- Extruded mounting bar incorporates flexible positioning of each air nozzle.
- The possibility to make presets per paper type.
- Manual back-up system with ability to position and adjust nozzles manually.
- Fully closed-loop fan-out control using automatic color register system.
- The removable air nozzle bar with its click system offers easy access to the press.
- Part of a flexible and extendable Ethernet network.

What are the benefits of the ABD II?

- Consistent printing quality.
- Insensitive to vibration and flapping effects of the printing web.
- High start-up savings thanks to closed-loop control.
- Time and labor-saving thanks to closed-loop control.
- Constant and economic use of compressed air resources (52% energy saving).
- The contact-less system prevents smearing, making it highly suitable to poster or tabloid productions with continuous image areas.
- In closed-loop mode, the system uses an intelligent algorithm to calculate the deviation between the individual fan-out register errors. As a result, the printer does not have to select an individual "air nozzle" to make corrections.
- The air nozzle seals automatically when it has reached its zero position. It can be sent to its zero position manually or by entering a command on the touch screen, for example when producing on a half web.
- Eliminates the risk of the web creasing or breaking.
- Larger correction range than with conventional solutions.
- Warning system in the case of technical printing problems.
- Easy and accurate operation with 22" touch screen panel.
- System can be easily linked to Intelligent Quality Management for quality reporting.

ABD II is a fan-out correction system, which functions without contact with the web. It works by means of a motorised adjustment of the nozzle top, the ABD II exercises pressure on the paper web without actually touching the paper or using more air. The compressed air outlet of the nozzle top is ring-shaped with an air gap of only 30 µm. As a result, air consumption has been reduced from 42 liters per minute to only 20 liters per minute. The compressed air exit reaches a speed of almost 1 Mach, resulting in substantially greater pressure on the paper web compared with the old design.

Specifications

Number of nozzles:

Web widths up to 39 inches:	2
Web widths of 39 – 54 inches:	2-3
Web widths of 54 – 66 inches:	3-4
Web widths of 66 – 80 inches:	4-5
Web widths of 80 – 90 inches:	5-6
Web widths of 90 – 103 inches:	6-7
Web widths of 102 – 118 inches:	7-8

The above values are intended as indicative values.

Mechanical:

Maximum number of nozzles per bar:	12
Maximum web width:	118 inches
Maximum adjustment:	0.6 inches
Maximum number of bars per press:	Unlimited because of Ethernet network
Maximum number of nozzles per Air Bustle Controller:	12
Compressed air consumption:	20 liters / minute (0.7 c.f.m.) / nozzle

Temperature:

During operation:	23° F to + 135° F
In storage:	- 13° F to + 140° F

Certification:

CE / UL / FCC

Compressed air requirements:

DIN – ISO 8573-1-2001-241

Used Q.I. Press Controls owned patented technology:

Patent number: US6604463, GB2354230, DE19983340, AU703647B

Specifications may change without further notice.

Options:

- Fan-out control: several color register cameras measure the growth behavior of the web; the ABD II uses this information as feedback to automatically compensate errors.

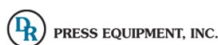


800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



IQM

What are the unique features?

- The IRS, mRC+, mRC-3D, IDS and the IDS-3D provide the IQM with details on the colour register, the colour density, cut-off register, side-lay register and fan-out.
- External sources with relevant details about the printing process, such as web tension, temperature and humidity, can be linked to the IQM.
- Real-time information about the product quality is provided, taking into account additional external variables which may affect your printed matter.
- The IQM is a web-based system, storing data in a SQL database.

What are the advantages of the IQM?

- Increased production capacity.
- The quality tolerances can be preset for each product.
- A warning signal is triggered to enable immediate adjustment of a non controlled variable if the system detects a variation from the quality levels you entered.
- Details about waste are collected, including the frequency of out of tolerance events, enabling you to investigate whether customers' claims are justified and if so, to what degree.
- Possibility to generate quality reports per press or per job.
- Visual comparisons of all production variables, including different kinds of paper, ink and blanket indicating how they affect quality and waste.
- Remote management via internet or other means is possible.

Options:

- Plate-to-plate register analysis to document plate-to-plate defects on newspaper presses.
- Automatic make-ready time calculation.
- Real time module to display the results measured by the QIPC control systems installed.
- Trend analyses add-on module is used to display press performance in time, which can be visualised by selectable aggregation methods.
- Shift performance module to compare the various shifts on the different presses. This enables easy comparison of performance levels.
- Connection module to compare different presses physically located at different locations.
- Reporting by exception.
- Comparison of press lines.

Specifications

Software:

Operating system:	Microsoft Windows 2008 Server
Database:	Microsoft SQL Server 2008
Web platform:	.NET framework 4.0

Control system:

Real-time information delay:	10 seconds
Availability of analysis history:	1 month
Availability of production history:	5 years
Back-up capacity (optional):	10-30 GB a week

Requirements:

Client operator hardware:

Type:	IBM PC & Apple compatible 1024x768
Video card resolution:	Ethernet 10/100 Mbit adapter
Network:	

Client operator software:

Operating system:	Microsoft Windows 9x/ME/NT/2K/XP/Windows 7 Apple Mac OS X Leopard or Mac OS X Tiger version 10.4.11 and higher Microsoft Internet Explorer 8 and higher Safari 4.0 and higher (Windows and Mac) Google Chrome 2.0 and higher (Windows) Firefox 4.0 and higher (Windows) Opera 10.0 and higher (Windows)
Web browser:	

Adobe Reader

Software:

Specifications may change without further notice.

Intelligent Quality Management

The IQM (Intelligent Quality Management) is a management information system which visualises the quality of the printed matter produced. IQM is a web-based system that makes use of the measurement data from the IRS, mRC+,mRC-3D, IDS and IDS-3D. In addition to providing detailed information about the individual product quality, the IQM system can help develop strategies and solutions to improve the production process.



800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



TSC 3-Page Wide - Angle Bar / Slitter / Web Realignment System

Designed for mounting on a wide variety of presses, including the DGM430, DGM440, DGM850, Advantage II, Goss Community®, and Urbanite® printing units.



TSC 3-Page Wide - Angle Bar / Slitter / Web Realignment System

- Assembly is self contained with integral mounted low pressure air blower.
- Air bars are plumbed in 3 zones facilitating air flow shut-off control to unused sections.
- Pneumatic slitter cuts against a web driven hardened steelroller.

Electrical: 120V/60Hz/1 PH

Options

- Additional Compensators for slit webs

Specifications

Service Requirements & Connections

Operational

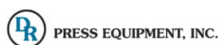
- Angle bars are all 2 1/4" diameter polished hard chrome plated
- Can be configured for 35" or 36" web widths units.
- Minimum width of full web is 30", slit into 20" and 10" ribbons.
- Maximum width of full web is 36", slit into 24" and 12" ribbons. Operator or gear side of the full web can slit off into the 1/3 ribbon.
- Exiting 1/3 ribbon can be placed on the operator or gear side, above or below the 2/3 ribbon.

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



****TSC1100 Circulating System & *TSC1000 Dampening System***

New Innovative circulating and dampening system technology for newspaper, commercial and sheet-fed applications.

We now offer all new cost-effective solutions for all of your Circulating and Dampening System requirements. The **TSC1100** is the ideal solution for replacing your old dampening system and the **TSC1000** is the perfect high-performance and reliable Dampening System for your Spray Dampening system.



For detailed *TSC1100 & *TSC1000 information, including pricing, call 800-452-9481.

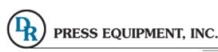
**Note: Formerly Smith Pressroom Products*

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



****TSC SprayMATIC G4 Dampening System***

Inovative spray dampening technology for newspaper, commercial and sheet fed applications. Exclusive "Dual Fluid Capability" for both dampening and economical blanket cleaning.

FEATURES

- Shortest on/off time on the valve (<3.0 mS) and minimal flow variation of (+/- 5%).
- High tolerance range of water pressure (3.5-4.5 bar) no need for pressure regulators for different press levels.
- Closed loop water system, no heat generation and no algae or bacteria growth.
- Low maintenance system. Eliminates most supply system cleaning, roller and open pan maintenance.
- Added wash function for nozzles, damp form rollers, pipe rollers and blankets.
- Distributed control logic with automatic spray bar diagnostics.
- Lift out spray bar/no tools required.
- Precision small orifice(.018) laser cut nozzles.
- 1/4 turn quick change nozzle design for fast replacements.
- SprayMatic G4 is the only system with Dual Fluid capability from one Nozzle for Blanket Cleaning in addition to Spray Dampening.

OPTIONS

- Dual spray blanket cleaning
- Waste water recycling
- Chillers / Heat Exchanger for Temperature Stability
- Additional Operator Station
- RO Systems for Water Stability
- Spare Parts Package
- On-Site Installation and Training



****TSC SprayMATIC G4 Dampening System***

SPECIFICATIONS

General

Mode Spraymatic G4
Spraybars 4, 6, 8, 12, nozzle bars

Service Requirements & Connections

208/230V 3 PH 50/60HZ

Operational

Pressurized system supply: 20-100 PSI
Filtration: 20 micron cartridge filters
Incoming water supply
Supply output
Blanket wash
20 gallon capacity

Tank:
Supply Line: 5/8 in.
Return Line: 5/8 in.
Drain Line: 5/8 in.
Water Supply: 5/8 in.

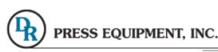
****Note: Formerly Smith Pressroom Products***

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com



TSC Equipment Removal & Scrapping Services

TSC offers complete turnkey equipment removal solutions customized to your specific needs, including single-width, double-width, commercial and insert press equipment.

A partial listing of our services include:

- Heavy Press Equipment Removal & Scrapping
- Heavy Press Equipment Hauling
- Skidding & Crating services
- Loading & Off-loading
- Heaving Press Equipment Rigging
- Press Installations
- Mechanical & Electrical Disassembly
- Electrical Disassembly
- Hauling Overweight Loads
- Short & Long-term Equipment Storage



We are also in the press parts business and we provide Press Equipment Auditing services to determine the value of your press parts. This helps to reduce your press equipment removal costs. Whether your press equipment removal project is large or small - we can help!

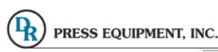


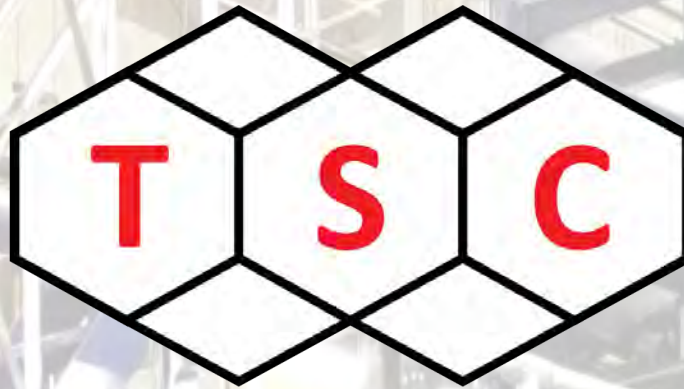
800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com





Products & Services

800-452-9481



The Siebold Company, Inc.

sieboldgraphicarts.com
sieboldparts.com

