



5S RED TAG

Create a Visual Workplace

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Best practices for a leaner and safer workplace

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CHAPTER 1

What is a Visual Workplace & Why Do You Need It?

Let's begin with the basics of just what it means to have a Visual Workplace and why it's important.

It All Starts with a Visual Workplace

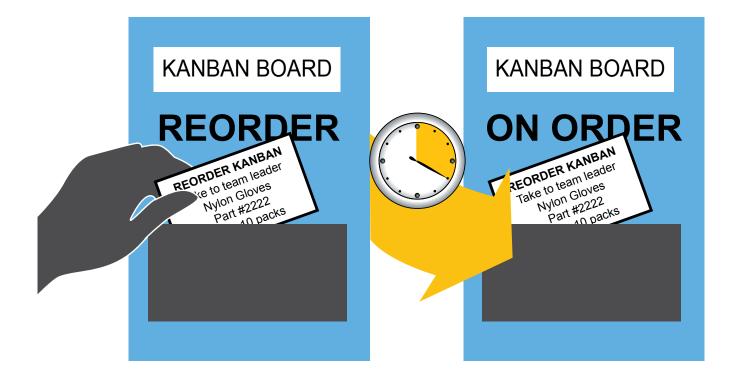
Visual Workplace is a lean concept that's all about putting important information right where employees need to see it. This concept plays a critical role in some of the most popular lean tools, including 5S. That's because it creates a sustaining base for lean improvements to remain clearly visible, readily understood and consistently adhered to.

To sum it up, using labels for safety information, procedures, facility identification and a variety of other applications is a great way to help reduce waste, improve knowledge and improve productivity for the long haul.



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What if a label...

reduced waste by giving employees the information they need to complete tasks efficiently?

Let's explain how a Visual Workplace helps you

Reduce Waste

You might be surprised to learn that only a fraction of your activities actually add value for your customers. In fact, Taiichi Ohno, co-developer of the Toyota Production System, suggests that wastes account for up to 95% of all costs in non-lean manufacturing environments.

This waste is typically caused by information gaps - employees simply not knowing the best way to get the job done. Instead, time is wasted searching, waiting, retrieving and reworking.

With a Visual Workplace, employees have the information they need to effectively do their jobs. And when employees know how to tackle their jobs well, your facility benefits from significant improvements. For example, when your storeroom shelves are well labelled, employees don't have to waste time searching for something or accidentally grabbing

the wrong item. You improve efficiency by helping them find what they need at a glance.

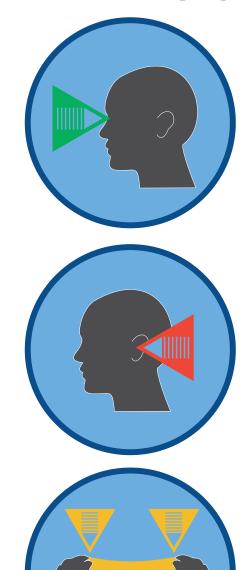
> Did you know? 78 million baby boomers are expected

baby boomers are expected to retire over the next 10-15 years?² Visuals help less experienced employees learn the job quickly and effectively.

² Moltz, D. (2011). Completion Agenda for Baby Boomers. Association for the Study of Higher Education.



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Did you know?

75% of knowledge is gained through visuals

13% through hearing and 12% through smell, touch and taste.³

³ Laird, D. (1985). Approaches to training and development. Addison-Wesley.

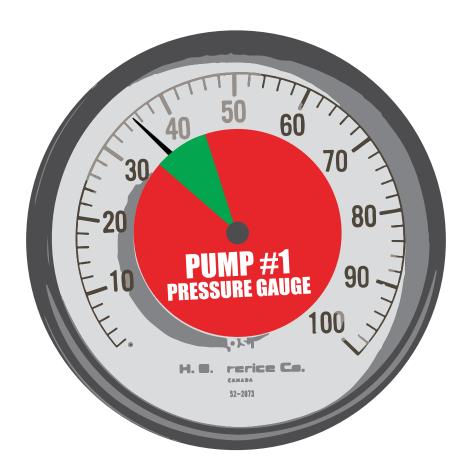
Improve Knowledge

We have another statistic for you. Did you know that people gain 75% of their knowledge from visuals? That's why employees need effective workplace signs and labels that enhance training and make their jobs easier. An effective visual instructs an employee on what procedural and safety information is appropriate, when and where they need to know it.

Knowledge-based visuals can include:

- Procedure labels Move procedures out of their binders and onto the shop floor where employees can see them and use them daily.
- **Bilingual signs** With a growing workforce speaking different languages, it's important to have the right languages on your signs and labels to keep everyone informed.
- **Pipe markers** Inform employees and contractors quickly and easily about the flow direction and content of a particular pipe.
- **Safety signs** Identify and explain potential dangers to employees, and the appropriate safety precautions to take.
- Electrical disconnect labels Clearly indicate the location of the disconnect switch on your equipment in order to avoid accidents and save lives.

With these workplace visuals, employees have the knowledge they need to eliminate non-value-added waste, improve safety and compliance, and enhance workplace organisation.





What if a label...

saved time and ensured equipment performance, by indicating proper working conditions at a glance?

Improve Productivity

We all know productivity is a big concern for any company. And you're in luck, because creating an effective 5S Visual Workplace goes a long way in improving productivity. But don't just take our word for it. Dr. Brian Harston, lean leader with a Master of Science degree in manufacturing management with an emphasis in lean implementation and a Doctorate of Business Administration in Project Management, shares his own experiences:

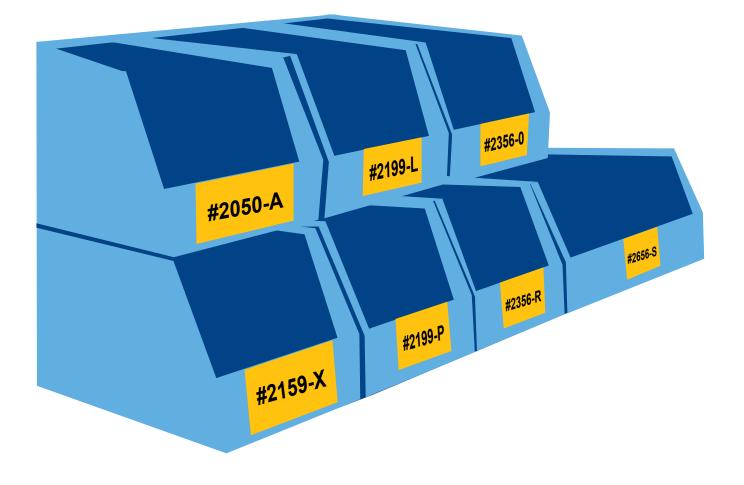
Tool Labelling Saves over 900,000 EURO/Day

A manufacturing company was experiencing an exorbitant amount of tools being checked out of the tool crib every day. Through a 5S rapid improvement event, it was identified that the core problem was tool mis-identification, leading to workers wasting an average of 45 minutes per shift searching for tools.

The corporation decided to label each tool according to work-cell and operator and create a new mobile work cart with shadowboards to store tools. With this system in place, workers no longer needed to check out or purchase additional tools and the corporation increased production capacity of its large mining trucks that average 7,2 mio EURO price per unit. This led to an additional over 900,000 EURO per day* in revenue and saved an average of 54,000 EURO monthly in tool costs.

* Large scale of savings was so due to the fact that the high-end, defense technology industry has annual revenue exceeding 53 billion EURO.







Did you know?

Lean manufacturing can lead up-to a

40% increase in productivity.

⁴ Kilpatrick, J. (2003). Lean Principles. Utah Manufacturing Extension Partnership.

CHAPTER 2

Meet 5S Plus Safety

If you haven't implemented 5S, we'll walk you through it. But let's first start with what "5S Plus" is all about.

Meet 5S Plus Safety

While 5S is one of the most widely adopted techniques from the lean manufacturing toolbox, "5S Plus" goes a step further to emphasise a critical aspect of any workplace: Safety. That way you benefit from a workplace that is both efficient and safe.

Now, let's explain more about the famous 5S's. These are essential elements in establishing the operational stability you need to both make and sustain continuous improvement. The point is to create a clean, orderly and safe environment – where there is a place for everything, and everything is in its place. And once you have that, 5S helps you reduce unnecessary waste and establish the framework and discipline needed to maintain and continually improve your workplace.



Let's Get to Know "5S Plus Safety"

Sort	Eliminate non-essential items by going through all of the tools and materials in your facility and discarding unused items.
Shine	Get the workplace clean, maintain its appearance and use preventative measures to keep it clean.
Set in Order	Focus on organising equipment, establishing safety measures, and creating procedures, product quality standards, and effective inventory and material handling.
Standardise	Make the improved workplace a standard by creating best practices.
Sustain	Maintain momentum, ensure employees know the importance of workplace organisation, and strive to continuous improvement.
Plus Safety	Make the workplace safer by looking for any potential hazards and resolving them.

Key benefits to having a "5S Plus" workplace

Non-value-added activities

Mistakes made by employees or suppliers

Time for employee training

Time searching for tools, parts and supplies

Unnecessary transportation of goods and navigation around the facility

IMPROVE

Floor space utilisation

Employee safety and morale

Product quality

Equipment reliability through frequent cleaning and inspections

REDUCE

CHAPTER 3

"5S Plus" in Action

To create and maintain an orderly, efficient and safe "5S Plus" workplace, you need a variety of durable labels, signs and tags. When it comes to these visuals, the key is to ensure the message is understood at a glance. That means avoiding too much information in one visual.

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	Item Description:	
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Tag #1002		
Item Descri	ption:	
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What if a label...

helped you sort through all of your equipment and supplies to determine what you need and what you don't - right at a glance?

Sort

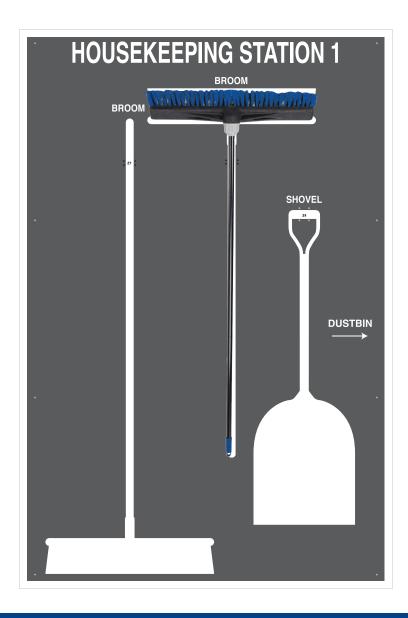
The very first step of 5S is deciding what to keep and what to get rid of. This is done by sorting through all of the tools and materials onsite and only keeping essential items. Everything else is discarded to keep your workplace free of clutter and hazards. You'll be amazed by how many materials sit around your facility going unused on a daily basis and taking up space.

You could use:

- Tags To red-tag unused items and store them in a designated area for employees to sift through and grab anything that is still needed. Any items left at the end of five days are discarded.
- Floor marking tape To signify the "red tag" section, where employees can find equipment that will be discarded if not claimed.
- **Red tag record forms** To track supplies that are kept and discarded.
- Camera To take before and after photos of the area.









What if a label...

increased productivity by reducing time spent looking for the broom?

Shine

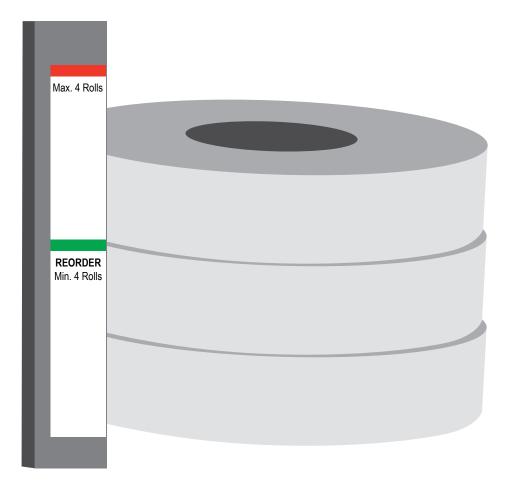
And by shine... we mean clean! By eliminating dirt, dust, sources of contamination and other debris, as well as inspecting equipment, you can improve the safety and productivity of your facility. Not to mention that your workplace will look like new, making your employees proud to come to work each day.

You could use:

- Cleaning supplies (of course!) Including brooms, dust pans, rags, degreasers and floor cleaners.
- Shadowboard To store cleaning equipment.
- Personal Protective Equipment (PPE) Including gloves and safety glasses to keep employees safe from hazardous cleaning supplies and debris.
- Lockout equipment To protect workers from the release of hazardous energy when performing equipment cleaning or maintenance.









What if a label...

reduced waste by showing employees the stock levels of materials at a glance?

Set in Order

You've sorted. You've cleaned. Now it's time to look for ways to reduce the sources of waste and errors in your facility and make it more visually instructive. Easy? Not exactly. Worth it? Definitely!

You need to focus on:

Organising Equipment

- Sign and label printers, label materials and label-creation software – To quickly and easily print your own facility and equipment identification.
- Shadow boards To store tools and equipment at the point of need.

Establishing Safety Measures

- Safety signs To inform employees of any workplace hazards.
- **Pipe markers** To instantly tell you everything you need to know about pipe contents, directions of flow and level of safety.

Creating Procedures

- **Procedure labels** To move procedures out of their binders and onto the shop floor so employees can see them and use them daily.
- **Training signs** To place the necessary safety information at the point of use, leading to less training and improved safety.

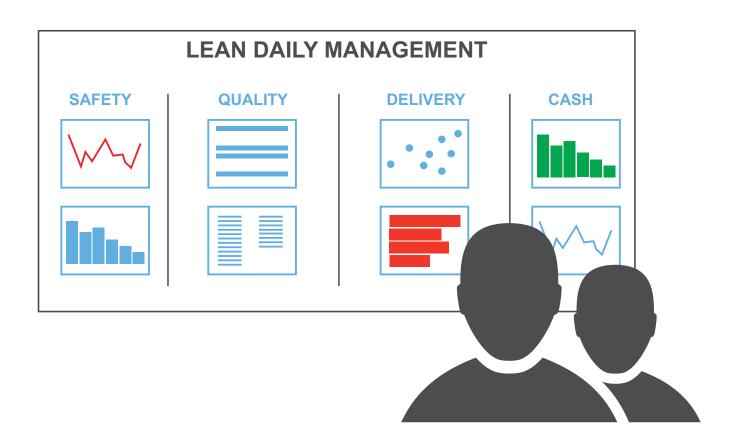
Establishing Product Quality Standards

- Floor marking tapes To mark traffic lanes, storage locations and products that need to be inspected for quality assurance and more.
- **Gauge labels** To easily detect pressure or temperature abnormalities at a glance.

Creating Effective Inventory and Material Handling

- Magnetic or repositionable material labels To label and organise workbenches, shelves, racks, bins, cabinets and totes.
- **Minimum and maximum level indicators** To highlight overstock situations and points where stock should be re-ordered.







What if a label...

helped employees take pride in their work?

Standardise

You have a good start on making your workplace leaner. Now it's time to expand your efforts and create best practices to maintain a company standard. This is implemented with clear consistent roles and responsibilities, including visual controls.

You could use:

- Job scheduling board To visually sequence job orders and indicate work delays or missed deadlines.
- Schedules and check sheets To show which employees should be performing certain tasks and when those tasks should be completed.
- Supplies checkout board To locate supplies quickly and control their usage.
- Lean Daily Management (LDM) boards To track metrics and drive improvement.
- Safe state visuals To help prevent accidents by indicating if valves or air pumps are opened or closed.









What if a label...

reminded employees about that one critical step that always gets overlooked?

Sustain

Don't stop now! You've done the work - now you need to keep it up. Maintain momentum, ensure employees understand that workplace organisation is a top priority and strive to continually improve.

You could use:

- On-site printer, label materials and label creation software – To create signs, labels and tags as needs arise.
- Dance charts To help employees remember task sequences based on a standard flow diagram.
- Preventative maintenance targets To keep preventative maintenance readings consistent by labelling vibration and ultrasound probe points.
- **Replacement part visuals** To clearly identify correct replacement parts.
- One-point lessons and labels To help employees remember a particularly forgettable or essential part of a procedure.

Did you know?

Not only does effective safety signage help you maintain compliance with this standard, but it helps reduce workplace accidents across the board.





Warning Crushing of hands

BRADY



What if a label...

prevented your employee from losing a finger?

Plus Safety

You've got efficiency – but don't forget about safety! Make your workplace safer by looking for any potential hazards and resolving them. With custom, on-demand signage you can easily prevent costly accidents before they occur. Most importantly, when you have the right signage in the right places, you can send employees home safely every day.

You could use:

- **CLP/GHS labels** To identify primary and secondary chemical containers.
- **Safety signs** To clearly and effectively communicate potential hazards throughout the workplace and how to respond to them.
- LOTO labels and tags To keep employees safe from unexpected equipment startups during cleaning and maintenance.
- Arc flash labels To promote electrical safety and prevent electrical arc flash accidents.
- **Fire visuals** To indicate the location of fire extinguishers and fire hose cabinets so they are readily accessible in case of an emergency.
- First aid identification To identify where first aid supplies can be found.
- Machine and equipment identification To alert employees of machine hazards and protect them from personal injury or equipment failure.

SORT SHINE SET IN ORDER STANDARDISE SUSTAIN PLUS SAFETY



CHAPTER 4

Faceoff: Do-It-Yourself vs. Pre-Made Labels and Signs

Now that you know what types of visuals you need to create a "5S Plus" visual workplace, it's time to take action. You've got two options: do-it-yourself (DIY) printing or ordering pre-printed labels and signs.







What if a label...

saved you over 6,000 EURO annually in breakdown costs by helping contractors and employees locate the right line?



When compared to ordering pre-printed materials, choosing DIY is simple - It's more cost effective, more efficient and convenient, and you can create your own customised content.

Let us explain more:

It's more COST Effective

Can you believe printing your own labels and signs is cheaper than purchasing them pre-printed? That's because there is:

- NO purchase order charges for every order
- NO minimum order quantity
- NO inventory costs for stocking large quantities of signs and labels

With an onsite label printer, you can simply print what you want to print, whenever you want to print it, at the point of use.



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What if a label...

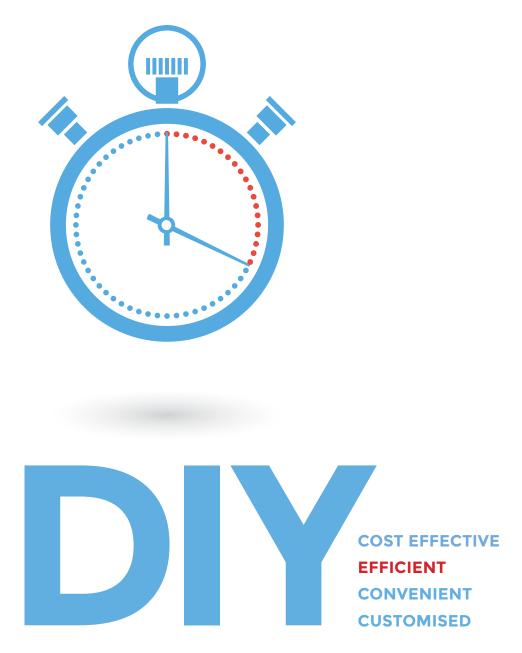
reduced the severity of an accident because the safety equipment was clearly identified?



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It's more **EFFICIENT**

There's no need to wait - You'll have your labels in seconds, not days. That means there's no time away from your current project because you don't have to wait around for your pre-made signs and labels to arrive. When you recognise the need for new visuals in your facility, you can print what you need - Just like that!

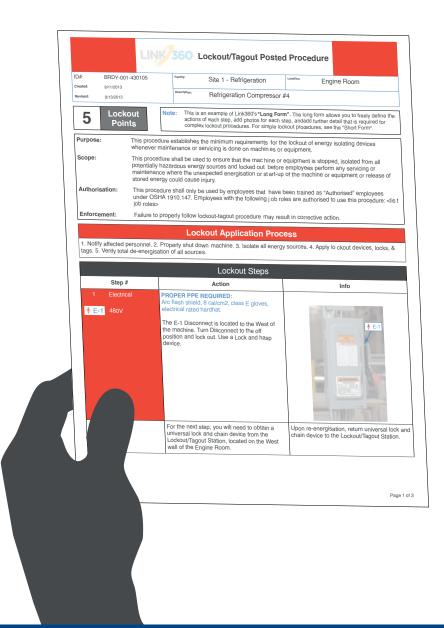


Let's put this into perspective:

	Do-it-Yourself Labels	Pre-Printed Labels
Day 1	You need a label.	You need a label.
	You walk up to your printer, choose a material, create the label on a simple user interface, print it and apply it. Then you print more, because you can and it would benefit your workplace. Your facility is just a little bit	You do some research on what and where to order.
	safer and more efficient thanks to your new labels.	
		You either customise your label or choose a generic label to order.
Day 2		You decide to place the order, which takes time to process and provide all of the necessary information.
Day 3		The waiting begins.
Day 4		An accident almost occurs because the label you needed wasn't in place to inform employees of the hazard.
Day 5		You wait for the label to arrive.
Day 6		Still waiting.
Day 7		The label arrives! You put it in place and realise you could really use a few more. Back to the drawing board!



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What if a label...

used a Visual Lock Out Procedure (VLOP) to tell you the right way to lockout each unique piece of equipment, keeping employees safe during maintenance?

It's CONVENIENT

Everything that needs a label, gets a label!

When you have an easy-to-use printing tool ready and waiting at your facility, you can:

- **Create** labels using built-in label templates for common applications, such as lockout/tagout, CLP/GHS, signs, pipe markers, and much more
- Utilise a wide offering of labelling materials to meet your application needs
- **Pace** your labelling projects, instead of doing it all at once in the case of ordering pre-made labels and signs
- **Complete** projects quickly by sharing the responsibility amongst multiple employees





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What if a label...

warned workers of a potential hazard in multiple languages?

It's CUSTOMISED

This isn't a one-size-fits-all approach. We know it's important to be able to customise workplace visuals to align with your unique safety, compliance and productivity goals. With on-demand printing, you can decide what to make, how it should look and how many you need.

By creating your own signs, labels and tags, you can ensure you have:

- **Multiple languages** to ensure warnings are understood by everyone.
- **Operating instructions at the point of need** to get new employees up to speed and ready to master critical tasks. As an experienced workforce ages and retires, effective instructions ensure that training is thorough and efficient for new employees.
- **Consistent messaging** to enforce safety and make tasks easier to understand with at-a-glance, identified signage. The plant also looks more professional, so employees can take pride in their workplace and make a positive impact on visitors.



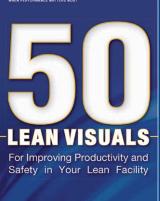


Now that you know why your workplace needs 5S Plus Safety, let's get to work.

YOUR SIGN AND LABEL SOLUTION

Brady has the innovative products, reliable label materials and dedicated experts to bring you the facility identification you need to stay lean, compliant and safe. Our printers offer reliable, on-demand labelling and a range of durable materials to meet your industrial printing and labelling needs.





Check out our 50 tried-and-true ways to effectively use visuals throughout your facility. Use these examples to get started creating your own visuals – and take the first steps to transforming your facility into a visual workplace!

Download at www.bradyeurope.com/Lean

Africa Randburg, South Africa Tel.: +27 11 704 3295 Email: africa@bradycorp.com

Benelux Zele, Belgium Tel.: +32 (0) 52 45 78 11 Email: benelux@bradycorp.com

Central & Eastern Europe Bratislava, Slovakia Tel.: +421 2 3300 4800 Email: central_europe@bradycorp.com

Denmark Odense Tel.: +45 66 14 44 00 Email: denmark@bradycorp.com

France Roncq Tel.: +33 (0) 3 20 76 94 48 Email: france@bradycorp.com

Germany, Austria & Switzerland Egelsbach, Germany Tel.: +49 (0) 6103 7598 660 Email: germany@bradycorp.com Hungary Budaörs Tel.: +36 23 500 275 Email: central_europe@bradycorp.com

Italy Gorgonzola Tel.: +39 02 26 00 00 22 Email: italy@bradycorp.com

Middle East FZE Dubai, UAE Tel.: +971 4881 2524 Email: me@bradycorp.com

Norway Kjeller Tel.: +47 70 13 40 00 Email: norway@bradycorp.com

Romania Bucharest Tel.: +40 21 202 3032 Email: central_europe@bradycorp.com

Russia Moscow Tel.: +7 495 269 47 87 Email: central_europe@bradycorp.com Spain & Portugal Madrid, Spain Tel.: +34 900 902 993 Email: spain@bradycorp.com, portugal@bradycorp.com

Sweden, Finland, Baltic states Kista, Sweden Tel.: +46 (0) 8 590 057 30 Email: sweden@bradyeurope.com

Turkey Istanbul Tel.: +90 212 264 02 20 / 264 02 21 Email: turkey@bradycorp.com

UK & Ireland Banbury, UK Tel.: +44 (0) 1295 228 288 Email: uk@bradycorp.com

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