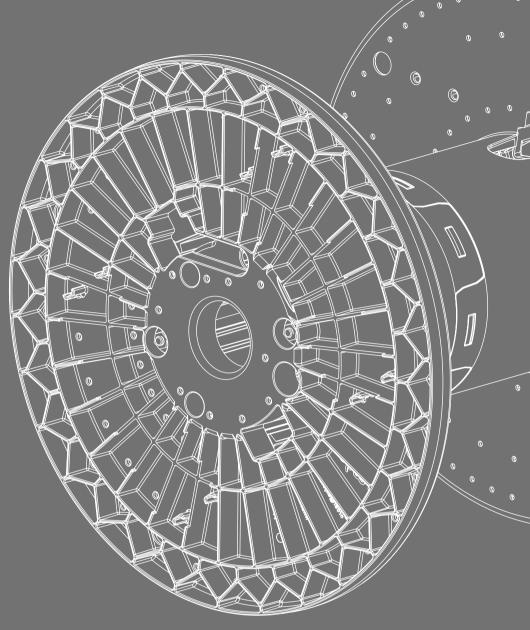
axjo







Axjo America is a Swedish owned manufacturer of cable and wire packaging solutions made from recycled polymers. The company was founded in the US in 2011 and moved to its current 143,000 sqft location in Conover, NC in 2016. We are one of the world's largest manufacturers and distributors of plastic spools and reels for wire and cable industry. Located just 1.5 miles from I-40, the facility supports the manufacture, storage, and distribution of our extensive product line. Since coming to the US, Axjo America has been growing at 20-30% annually. The Axjo Group has established long-term collaborations with several global companies that use our solutions in their production, solutions that not only improve cost efficiency but also a secure transition to a new era and new technology.





The Axjo Greenology Concept permeates every aspect of our business operations. For over 15 years we have been a leader in the development of sustainable recycled polymer compounds for our products. We are now moving to the next level and highlighting the progress we have made and the success that has stemmed from the Axjo Greenology Concept. We would like to mediate our vision for how we can help and train our customers and reinforce their sustainability work in both the short term and the long term. Based on our bywords, we are making comprehensive use of our know-how and expertise to reduce our carbon footprint even further.

Ultimately, this comes down to the technology used in product development, including weight reduction, monomaterial design, and the adoption of 100% PCR (Post-Consumer Recycling). We are also working to develop Closed Loop Recycling, which involves making use of the same material for the whole product. By doing so we are moving away from the linear production process. We also have a clear ambition in our manufacturing system to be completely  ${\rm CO_2}$  positive within a few years.

# xjo Core Values 6 / PRODUCT CATALOG

With innovation as a common thread running through every aspect of our operations, we are able to offer solutions that provide benefits on all levels. We have over 800 individual products, optimised for all areas of use. A packaging solution developed by Axjo is designed to meet your needs both now and in the future. Using our own green compounds, we are able to adapt material to achieve the best possible result, not only from a technical point of view but also in terms of what is best to ensure a sustainable future. We have also developed a whole new series of logistics-enhancing products





We live in a world marked by a growing demand for efficiency, and time and materials management are key elements that need to be factored into the manufacturing process. Our challenge is to find smarter solutions that increase productivity. We have been able to develop products that have been specially adapted to achieve greater productivity and a more efficient logistics flow. This includes up to 60% lower weight and products that offer greater precision and performance. Global operations in over 50 countries have allowed us to build up extensive knowledge about the needs of our customers and provide them with products adapted specifically to their requirements. The flexibility we can offer generates added value for our customers without necessarily increasing costs.

What worked well yesterday will not necessarily be the best solution tomorrow. As a global operator, we realise the importance of assuming responsibility for the way we work. By using 100% recycled materials in our products and carefully monitoring our carbon footprint in our delivery chain, we can support our customers with products with exceptionally low environmental impact for a green future. We call this concept Greenology. This also includes engineering methods designed to find ways of removing scrap from customer sites and transforming it into a valuable resource that can be used in the end product.

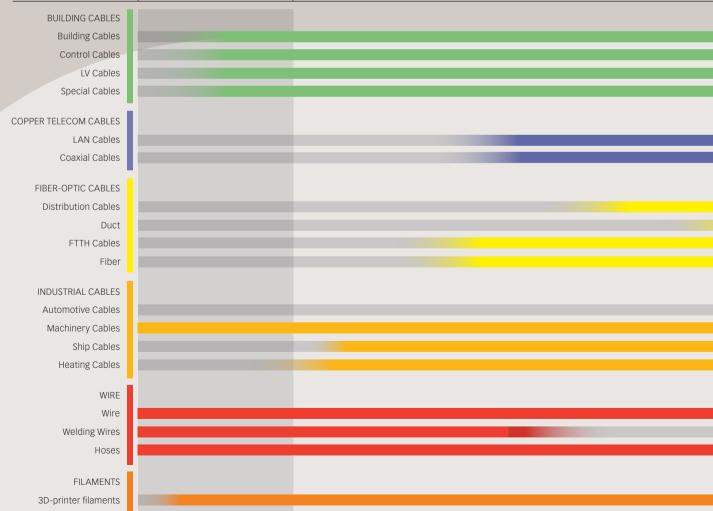


### SPOOLS AND REELS

### In a constant state of development

Spirited, innovative production development has become a characteristic feature of Axjo over the years. With our pioneering combination of plastic spools and reels with different sizes and features, we protect and pack products effectively to meet each specific need. Below you can see our range of different spools and reels.







### Large reels ≈ 24"-50"

### Greenology TECH CENTER



Our **GREENOLOGY TECH CENTER** has the equipment that allows us to perform different types of analysis to ensure the quality and content of a raw material upon delivery.



Axjo offers the widest range of spools for the cable industry on the market. The spools satisfy the same requirements as wood fiber-based material in terms of load capacity. Our spools are available in more precise dimensions, facilitating both production and installation.

Our spools are manufactured according to different standards markets. Apart from being considerably lighter than the older They do not absorb moisture and they are designed to be Heavy, wet, mouldy materials that risk disintegrating are

The UV-resistant plastic can tolerate extreme temperatures – transport, installation, and winding. The products are arranged into small and medium spools. Each version is designed

### **Small Spools**

### SAY HELLO TO OUR RANGE OF SMALL SPOOLS!

This range consists of spools from 3.5"-6.5" in flange diameter. They are customized depending on which application you need them for, and can be produced in ABS, PS, PP or PE.

Made for building wire and cables, industrial applications, low voltage and welding wire, as well as hoses.

Our small spools are designed for high speed manufacturing and the special honeycomb flange structure gives added strength. With our small spools you will discover a whole new world of packaging. A high degree of precision, considerable flexibility and high impact resistance are the distinguishing features of this product range.



4.5x3.5"



3.5x3"



### Medium Spools

Our medium spools are designed for heavier loads and come in many different varieties. They can be customized with a large series of cut-outs for various automatic machines and fiber-optic solutions. In combination with an efficient production method they are very cost-efficient.

Made for building wire and cable, commercial and industrial communication, automotive, argiculture wires and cables, as well as both bare and insulated fiber optics.

The medium spools range is available with multiple arbor hole options which gives a great flexbility for customer needs. All spools are made of PP or PE materials and available with mono or two-piece designs.











Our reels are manufactured from polymer materials that satisfy and exceed the demands made on equivalent products made of plywood and wood. We also work unconditionally. We know that the standard varies depending on the market and that each company needs its own unique solution. Our reels have huge potential in a whole range of different product applications, including building wires, communication wires, fibre-optic cables, and microduct.

Axjos cable and wire reels are manufactured according to different standards but can also be specially adapted for different customers and markets. Our unique compound, consisting of 100% recycled material, offers a longer lifespan and makes it resistant to weather and other external influences. A plastic cable reel is also considerably easier to handle than older wooden reels. The smooth surface and

exact dimensions allow more rapid, high precision winding. Our cable reels have an extremely flexible design and will soon be available in dimensions ranging from 27" to 48". As one of the original driving forces behind Drumster, we can also offer a process that allows reels to be returned in conjunction with new purchases.

### Heavy Duty Pro

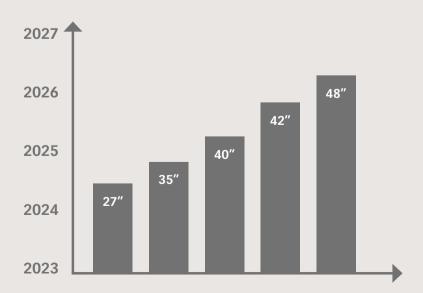
Heavy Duty Pro is the latest in a line of innovative products where we maximize the strength of our plastic compounds. The product range has enhanced properties and is the perfect choice for heavy cables or products in demanding closed-loop systems. All sizes are pallet and logistics optimized.





Our range of larger reels will over the next coming years expand to sizes up to 48". The Heavy Duty Pro reels are designed for customers who desire reels which can be used as both process and shipping reels. The Heavy Duty Pro Series was developed by improving upon the design of the previous Heavy Duty range and processing reels. The highly engineered flanges make the product extremely stiff during handling, but allow for flexibility in case of dropping a loaded reel. This range will be available in multiple traverse lengths and can be configured with RFID tags, label plates, customers logos and other customer specific requests. The range will also be ideal for multiusage and return systems.

### Launch Schedule for lager reels



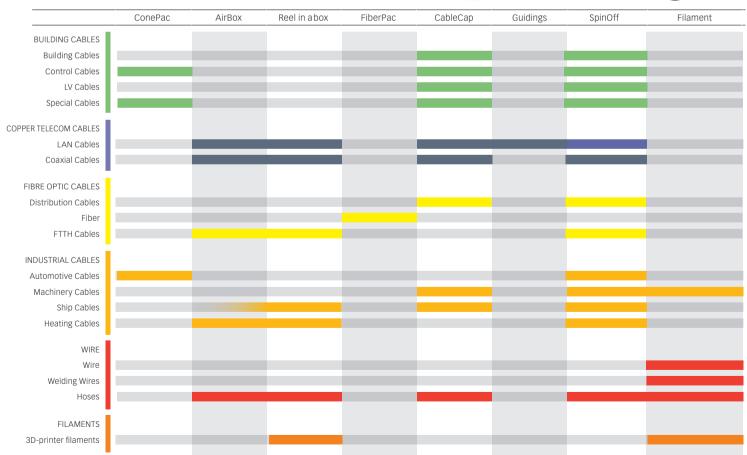


Innovative products are a philosophy. With over 800 individual products we offer external packaging and other applications to protect and pack products effectively. Our product solutions have been optimized for all areas. From more sensitive cables, through to wire, hoses, textiles and chains. On the following pages, you can see our special solutions with a variety of smart features.

### SPECIAL SOLUTIONS

## Customized solutions as our standard







### Axjo® ConePac

ConePac is the ideal solution if what you require is durable, cost-effective packaging for winding thin cables. The cone shape allows it to be stacked compactly on a pallet, optimizing transport and storage.





Our ConePac spool is fully compatible with modern production flows and offers a very high degree of precision during winding. The stackable ConePac also provides the optimal transport solution as it takes up the minimum of space. ConePac has a UV-resistant surface and is available in any colour to suit the needs of the customer. It is also fully compatible with existing machines on the market. The product is available in four different versions and can also be produced as a disposable spool for even more efficient handling.





### Axjo® Airbox

With Airbox, we have brought our successful Reel in a box to a whole new level. The smart design and the flexibility offered in terms of spool size makes this solution particulary suitable for sensitive cables.

Airbox is sold as a complete solution, including the machinery, mechanical installation, automation, and spool. The product provides a complete packaging solution designed specifically for cables that are particularly sensitive. It is intended to replace previous solutions from competitors that left the cable entirely unprotected when winding. The spool inside Airbox can be supplied in the desired size anywhere between between 11"-15". This means that the spool can be easily adapted to best suit the cable and provide safe, quick winding. Installation can be carried out in any direction and guarantees a completely problem-free result. The spool is designed to fit service vehicles for installation in the field. The production method is also different. This has led to an extremely flexible product that provides the customer with one of the most cost-effective packaging alternatives on the market, manufactured using our 100% recycled compound.

### Axjo® Reel in a box

Our successful Reel in a box packaging now has a completely new form. Still with the same smart function and design but now manufactured entirely in ecofriendly monomaterial. The result is an even more durable product but at no extra cost.



Customised product for specific needs.

With our highly developed Reel in a box concept, products are packed onto a smart plastic reel with protective external packaging complete with your exclusive profile. You avoid the need to invest in development or tools and a straight, clean cable is assured in all situations. We have now launched an even more robust version of Reel in a box with outer packaging made

entirely of hard plastic. There are lots of different packaging solutions on the market, almost all of them containing more than one material. With our new Reel in a box, there is just one material, the green Axjo compound. It offers a whole range of benefits. The new Reel in a box is more resistant to knocks and is totally water resistant. It is even equipped with an integrated handle that blends perfectly into the simple yet attractive design.





### Axjo® FiberPac

Fiber can be packed safely and cost effectively using our solution FiberPac. This innovative spool has foam to protect the sensitive fiber, creating a very compact surface structure. The foam is entirely free of joints and provides excellent cushioning.



Production of our FiberPac spool takes place using our own patented method. FiberPac offers a very high degree of precision during winding and a completely ecofriendly foam gives it a very compact surface structure. These features allow the fiber to

be packed safely and without worrying about whether the cable is being damaged. The foam is injected onto the ABS spool, creating a mechanical interaction between the plastic materials in the flanges. Everything is designed to minimize the risk of cut fibers. The foam is also extremely resistant to scraping and the spool can be reused several times. FiberPac is available in 50 km size or according to customer specifications.

### Axjo® SpinOff

SpinOff Carriage is a smart solution for long, pre-wired cable. The user-friendly functions makes it incredibly easy to maneuver and ensures unwinding runs smoothly, even with very long lengths.

The shape of the reel means no extra wheels are needed and the reel can be easily switched to different sizes and models. The adjustable handle makes the SpinOff very convenient and easy to adjust to fit all uses. SpinOff Carriage is foldable, making transportation considerably easier.



### Axjo® Filament spools

Based on our successful eco-friendly spools, we have made a spool specially adapted for a whole new market. The spools for 3D filaments are available in different sizes and are stackable to fully utilize available storage space. The neat size and light weight makes them easy to handle.

Axjo offers you a wide range of spools for 3D filaments, with a unique, "green" flange design, that are made of high-end quality materials and are customisable and recyclable. Your idea is our mission – there is no limit on what we cancreate. It starts with the standard black colour and plain design of the flange but the colour and design are optional, and so are the surface and transparency of the material. Maybe you want your brand name and design printed, elevated, stylishly embossed, or simply as neat cut-outs. Filament spools are available in a range of loading capacities, 1.1-11 lbs.





### Payout Tube

All REELEX® packages require a payout tube. The purpose of the payout tube is to ensure that each twist in the coil is resolved inside the package prior to exiting the coil so as to result in smooth, twist-free payout. Payout tubes also serve to prevent the coil from rotating inside the package. If a payout tube is not used, some loops of the coil would exit the package resulting in twists and possible tangles.

### Payout Tube and Package Types

While each payout tube type does not need to use a cardboard box package, each package type is typically named after the tube used, as each payout tube type defines the box construction (top or side-loaded) and how the tube attaches to the package. As a result, the package type is usually referred to based on what payout tube is used.



### Reelex I™

REELEX I is designed for smaller, flexible cables and has been in use for over 30 years in packaging security alarm cables, smaller data cables and single conductor building wires. Suitable for side-load box designs, REELEX I tubes are available in in 3"-6" lengths and include a snap-on ring which secures the tube to the package. Suggested from product diameters under under 0.15".

Made from recycled PP.



Reelex L5™

REELEX 1.5 is sized between REELEX I and REELEX II and is an ideal solution for mid-sized low-voltage cables. Providing an entry opening diameter of 1.5" and a length of 5".

REELEX 1.5 is suitable for side-load box designs and includes a snap-on ring which securely fastens the guide tube to the package. Suggested for product diameters under 0.2".

Made from recycled PP.



### Reelex II™

REELEX II is one of the most popular "last mile" package designs for twisted-pair data cables. Utilizing a top-load package design featuring multi-layer handles and robust construction, the MP60 guide tube can be easily assembled and removed for rapid package breakdown. The conical shape allows tubes to nest, saving space and maximizing shipping density. MP60 is suitable for use on automated REELEX equipment and is typically used for products between 0.15 and 0.40".

Made from recycled PP.



### Reelex Air™

An evolution of the ubiquitous REELEX II tube, REELEX AIR® builds upon the superb payout performance of REELEX II and combines it with a 30% reduction in package size, 45% less material usage and 40% increase in shipping density. REELEX AIR features a rounded entry for even smoother payout, significantly less plastic usage and allows coils to compress for an improvement in shipping density of up to 40%. REELEX AIR is suitable for use on automated REELEX equipment or top-load manually-packed boxes.

Made from recycled PP.



### EcoCore<sup>™</sup>

EcoCore™ is an environmentally-friendly guide tube alternative which utilizes a cardboard paper "core" as the payout tube, and affixes it to the package via a plastic locking ring ("Nano"). 100% recyclable and significantly reducing the volume of plastic in the package, the Nano locking ring allows the manufacturer to source any cardboard core length with an ID of 2.0 inches. EcoCore is suggested for product diameters under 0.20" and requires a side-load package design.

Made from recycled PP.

# CableCap



CableCap is the quickest way to ensure that exposed cable ends are protected against the elements and other external influences. With no tools required, the cap is fitted to the end of the cable and then secured with the aid of a rubber sleeve – it's that simple!

Axjo Cable Caps offer huge advantages, ensuring exposed cable ends are protected safely against the elements and other external influences. There are three categories of products. The Axjo Cable Cap is our state-of-the-art product where you have the same protection as with heat shrink caps, but they can be removed and fitted multiple times without any glue or residues left on the cables. The method is also a much quicker

solution than heat shrink caps and is totally safe for the operator. The Cable Cap Nano version is used for bulk products or cutting stations where you require short-term protection. The Cable Cap Heat Shrink is a common method for securing the cable and provides permanent, reliable protection. All caps are available in a wide range of diameters.



Cable Cap, 7 sizes, 0.24"-1.8"



Cable Cap Nano, 9 sizes, 0.34"-2.75"



Cable Cap Heat Shrink, 0.37"-5.98"

### Cable Cap

The original Cable Cap is a state-of-the-art product that offers the same protection as heat shrink. The caps can easily be removed and fitted multiple times without leaving any residue on the cable. Using this method, no heat or glue is required, making the working procedure for the operator much safer and quicker.

### Cable Cap

### NANO

A cost-efficient bulk cap in our in-house developed material for maximum friction with the cable. Each size can handle several cable diameters. Our standard colour is orange.

### Cable Cap

### HEAT SHRINK

Heat Shrink is a common product, but Axjo has put a great deal of effort into the material to produce homogenous shrinkage and a glue that reacts at lower temperatures. The product offers 100% sealed protection.





### Product design philosophy

A packaging solution from Axjo is developed here and now – designed to work today and in the future. There is no denying that a great deal has happened since the heyday of the wooden drum in the 1950s. Nowadays, logistics requirements are totally different when it comes to loading, unloading and storage. Time and material have become hard currency at the workplace and installations are more and more complex.



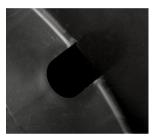
1. Axjo has a number of patented assembly methods. Our most famous are Light, Micro and Nano.



2. All our spools and reels can be supplied with engravings or ID-numbers.



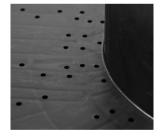
3. All reels can be supplied with three different sizes of starting hole. All have a smooth design to reduce impact on the cable.



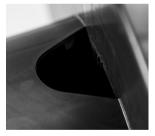
4. Cut-out for automatic winding machines, such as Windak and Müller. It is available on all Axjo spools.



5. Two-way starting hole. The operator does not need to turn the reel in the machine. The operator can start from both sides



6. Reels over 20" have built-in drainage holes. This helps keep your cable dry.



7. This cut-out allows the cable to be close to the flange.



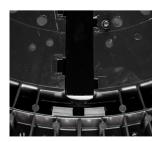
8. To help our customers promote their brand, Axjo makes printed label plates.



9. Axjo has the best shipping reel solution on the market for fiber producers. This is the fiber cutout on a 27" reel. The fiber versions are available from 27-48".



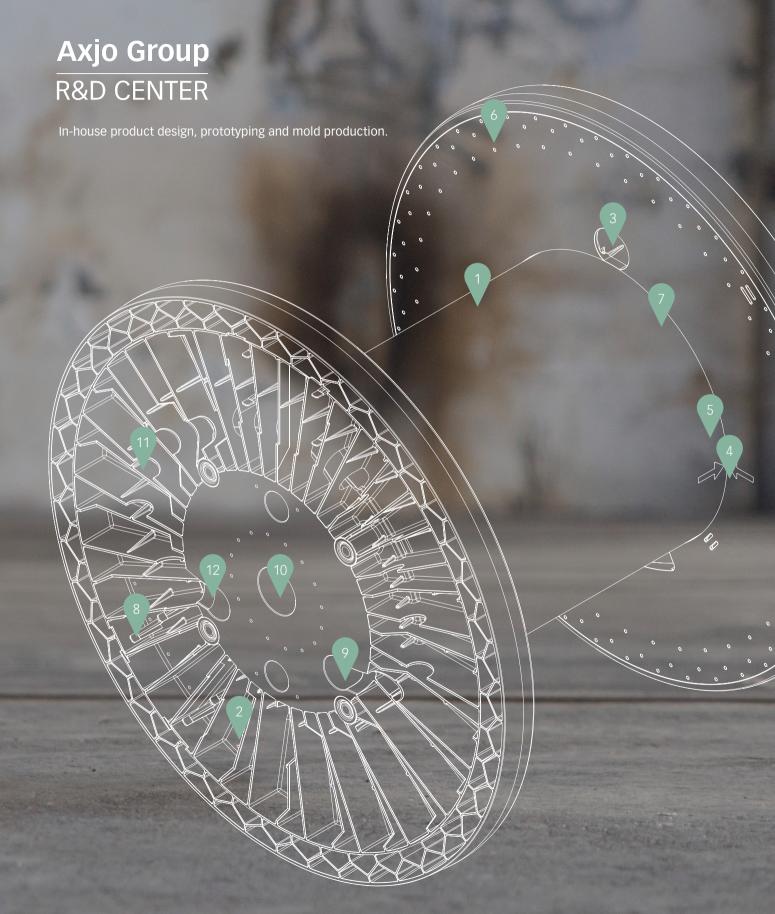
10. To reduce the risk of a stoppage in the winding equipment, our HD reels are made with a draft in the centre hole. This draft also increases the life span of the reel.



11. The fiber cover is the best way to lock and protect the fiber end. For testing, simply unlock the cover and pull the cable end.



12. If you use manual winders, you can have holes to lock the cable end quickly and efficiently.



# Technical information

SMALL SPOOLS 3.5" - 6.5"

Art. No.	D1	D2	D4	11	12	Material	Load capacity	Weight (lbs)	Q/Pallet	Q/Package	RFID	Draining holes	Lagging option	Autohole (V/U)	Colours	RIB compatible	Cut-out	Engravings	Recyclable	Label plate
209039005	3.5	1	0.75	3.2	3	PS	7	0.3	2400	300	-	-	-	-	-	-	•	-	•	-
209043002	3.5	1	0.75	3.2	3	PS	7	0.3	2400	300	-	-	-	-	-	-	•	-	•	-
210244001	4	1	0.75	3.2	3	PS	10	0.35	1800	225	-	-	-	-	-	-	•	-	•	-
211554001	4.5	1.86	0.78	3.86	3.5	PS	10	0.4	1000	125	-	-	-	-	-	-	•	-	•	-
216563004	6.5	2.13	0.75	4.05	3.5	PP	10	0.5	990	990	-	-	-	-	-	-	•	-	•	-
216563020	6.5	2.13	0.75	5.05	4.5	PP	15	0.7	810	810	-	-	-	-	-	-	•	-	•	-
216563022	6.5	2.13	0.75	5.05	4.5	PP	15	0.7	810	810	-	-	-	-	-	-	•	-	•	-
216579019	6.5	2.13	0.87	6.1	6.5	PP	25	0.8	540	540	-	-	-	-	-	-	•	-	•	-
216579020	6.5	2.13	0.87	6.1	6.5	PP	25	0.8	540	540	-	-	-	-	-	-	-	-	•	-
216579021	6.5	2.13	0.87	6.1	6.5	PP	25	0.8	540	540	-	-	-	-	-	-	•	-	•	-

### MEDIUM SPOOLS 10.5"-19.75"

Art. No.	D1	D2	D4	11	12	Material	Load capacity	Weight (lbs)	Q/Pallet	Q/Package	RFID	Draining holes	Lagging option	Autohole (V/U)	Colours	RIB compatible	Cut-out	Engravings	Recyclable	Label plate
21053534042	10.5	3.5	1.5	7.5	7	ABS	50	1	150	150	-	-	-	-	-	-	-	-	•	-
21053534060	10.5	3.5	1.5	7.5	7	PP	50	1	150	150	-	-	-	-	-	-	-	-	•	-
21055034060	10.5	3.5	1.5	10	9	HDPE	75	1.25	144	144	-	-	-	-	-	-	-	-	•	•
21174036010	11.75	2.25	2	4	3.63	HDPE	50	1	176	176	-	-	-	-	-	-	-	-	•	-
21176054069	11.75	5	1.5	11	10	HDPE	85	1.75	100	100	-	-	-	-	-	-	-	-	•	•
21176056060	11.75	5	2	11	10	HDPE	85	1.75	100	100	-	-	-	-	-	-	-	-	•	•
21200405806	12	5	2	9	8	HDPE	85	1.75	125	125	-	-	-	-	-	-	-	-	•	•
21200405807	12	5	1.5	9	8	HDPE	85	1.75	125	125	-	-	-	-	-	-	-	-	•	•
21207044060	12	4	1.5	12.2	11	PE	50	1.75	175	175	-	-	-	-	-	-	-	-	•	•
21207544060	12	4	1.5	12.7	11.5		50	2	125	125	-	-	-	-	-	-	-	-	•	•
21209054010	12	5	1.5	13	11.75	PP	65	1.8	125	125	-	-	-	-	-	-	-	-	•	•
21356054065	13.5	5	1.5	11.26	10	HDPE	105	2	64	64	-	-	-	-	-	-	-	-	•	•
21356056060	13.5	5	2	11.26	10	HDPE	105	2	64	64	-	-	-	-	-	-	-	-	•	•
21356056063	13.5	5	2	12.67	11	PE	135	2.75	112	112	-	-	-	-	-	-	-	-	•	•
21356056064	13.5	5	2	11.26	10	PE	105	2	64		-	-	-	-	-	-	-	-	•	•
21407044060	14	4	1.5	12.2	11	HDPE	50	1.8	112	112	-	-	-	-	-	-	-	-	•	•
21407544060	14	4	1.5	12.7	11.5	HDPE	50	1.9	80	80	-	-	-	-	-	-	-	-	•	•

### MEDIUM SPOOLS 10.5"-19.75"

Art. No.	D1	D2	D4	L1	12	Material	Load capacity	Weight (lbs)	Q/Pallet	Q/Package	RFID	Draining holes	Lagging option	Autohole (V/U)	Colours	RIB compatible	Cut-out	Engravings	Recyclable	Label plate
21408044010	14	8	2	11	10	PP	65	2.25	112	112	-	-	-	-	-	-	-	-	•	•
21408044065	14	4	1.5	12.7	11.5	HDPE	50	1.9	112	112	-	-	-	-	-	-	-	-	•	•
21408074010	14	6.75	1.5	13	12	PP	75	2.5	80	80	-	-	-	-	-	-	-	-	•	•
21576054060	15.75	5	2	11.24	9.67	PE	150	3	84	84	-	-	-	-	-	-	-	-	•	•
21978054010	19.75	5.75	1.5	12.75	11.5	PP	85	5	45	45	-	-	-	-	-	-	-	-	•	•
21978054011	19.75	7.5	3.13	17	15	HDPE	135	7	36	36	-	•	-	-	-	-	-	-	•	-
21978054012	19.75	7.5	3.13	17	15	HDPE	135	7	45	45	-	•	-	-	-	-	-	-	•	-

### REELS 24"- 50"

Art. No.	D1	D2	D4	11	12	Material	Load capacity	Weight (lbs)	Q/Pallet	Q/Package	RFID	Draining holes	Lagging option	Autohole (V/U)	Colours	RIB compatible	Cut-out	Engravings	Recyclable	Label plate
22409008010	24	18	3.13	10	20.76	PP/PE	650	14	60	60	-	•	-	-	-	-	-	-	•	•

### SPECIAL SOLUTIONS

### FILAMENT

Art. No.	D1 (mm)	D2 (mm)	D4 (mm)	L1 (mm)	L2 (mm)	Material	Weight (lbs)	Q/Pallet	Q/Package	RFID	Filaments	Lagging option	Colours	Engravings	Recyclable
220121000	200	105	52	53	47	PS	0.46	700	700	-	•	-	•	•	•
220121435	200	105	52	53	47	PC	0.46	700	700	-	•	-	•	•	•
220123340	200	105	52	53	47	ABS	0.46	700	700	-	•	-	•	•	•
220137000	200	105	52	76	70	PS		1274	1274	-	•	-	•	•	•
220137435	200	105	52	76	70	PC	0.52	490	490	-	•	-	•	•	•
220138440	200	105	52	76	70	ABS	0.52	490	490	-	•	-	•	•	•
235020000	350	180	52	101	90	PS	1.72	120	120	-	•	-	-	-	•

### FIBERPAC

Art. No.	10	D2	D4	7	77	Material	Load capacity	Weight (lbs)	Q/Pallet	Q/Package	RFID	Draining holes	Lagging option	Autohole (V/U)	Colours	RIB compatible	Cut-out	Engravings	Recyclable	Label plate
22643074642	10.41	6.7	1	6.7	5.9	ABS	75	1.5	120	120	-	-	-	-	-	-	-	-	-	-

# Contact information





TIM SCHULTZ
PRESIDENT
tim.schultz@axjo.com

PHILLIP NORMAN

DIRECTOR OF OPERATIONS AND SALES
phillip.norman@axjo.com

TERESA CHAPMAN

CUSTOMER RELATION MANAGER

teresa.chapman@axjo.com



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