A.CO BATTERY
Aco Battery Industrial Group

ACO Battery Industrial Group

Automotive Product Catalogue

Since:1982

carpile / TINOO / Hi Pile / HANDEL / KAMA

We are committed...

Since:1982

A.CO BATTERY
Aco Battery Industrial Group

2010 — The beginning of Ashja Commercial Company

2010 — Establishment of Ashja Battery Commercial Company

2013 — The largest Distributor Of Batteries In The Country Cince 2013 To 2018

2018 — Operation of The Automotive Battery Factory

2021 — Setting up industrial Battery Factories (UPS, Front Access...)

2022 — Launching The ACO PLAST Plastic Injection Factory

2022 — Winning the Model Industrial Unit Award and The National Quality Award For The First Knowledge-based Company in Iran's Battery Production Industry

2023
- Increase Production Capacity
- Winning The National Quality Award ★★★★
- Construction Of a New Industrial Battery Factory

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Aco Battery Industrial Group

"The ACO Battery Group of factories currently employs more than 1,000 direct personnel in the production sector and covers an area of over 50,000 square meters."

Aco Battery Industrial Groupe, with more than four decades of consecutive successful experience in the battery industry, commenced its operations in 1982 as Ashja Commercial Company. Over the years, the company expanded its presence by acquiring representation from local manufacturers in the provincial area. Since 2010, the company has launched its exclusive brand, which has been produced by reputable domestic manufacturers and distributed across the country and in response to product supply shortage, a close partnership with foreign producers from Turkey, Ukraine, and Korea, resulting in exclusive brand collaboration stablished.

Since 2013, the company's activities have expanded geographically to cover the entire country. Ashja Battery agents and wholesalers have been working across all provinces, ensuring a strong nationwide presence. As a result of this strategy, Ashja Company was recognized as the largest battery distributor in the country between 2013 and 2018. In 2017, after conducting all necessary scientific and technical investigations while considering both national requirements and international standards, the establishment of a car battery factory was initiated. The first phase of this factory has been operational since 2018. In this phase, Aco company successfully completed the trial production of plates using expanded metal technology and entered the production phase. In the second phase, starting in 2019, we fully utilized all stages of the production chain, including recycling, assembly, and battery charging. Additionally, since 2023, battery covers and lids have been produced at Aco Plast factory, one of the factories affiliated with Aco company group.

Currently, automotive batteries are produced in a wide range of amperage hours from 35 to 225 under brand names such as Tinoo, carpile, HiPile, KAMA, and our latest addition, HANDEL. HANDEL batteries feature new technology and a cutting-edge technical design, and they are supplied with a genuine -21month warranty.

«We are committed» – this is the Aco Battery company slogan. Guided by this approach, commitment to quality remains our most important principle in both technical and production aspects. Since 2020, following extensive market research and studies conducted by our R&D team, and employing the most advanced technologies worldwide, Aco Battery factory began producing UPS batteries under the UFO and ZICO brands. In 2023, our factory was recognized as the only knowledge-based producer in the battery industry. Furthermore, this year, the company received several accolades, including the title of Best National Unit in the country and the National Quality Award.In response to market demands, we have been producing motorcycle batteries under the brand names HANDEL and Tinoo since 2024. These batteries are available in various amperage hours, catering to different requirements, and are manufactured in mass production. At present, our operations consist of four factories: lead recycling and extraction, automotive battery production, lithium and UPS battery production, motorcycle battery production, and plastic injection.

آکو باتری
A.CO BATTERY

we are committed....

carpile | TINOO | Hi Pile | HANDEL | KAMA

Automotive lead acid battery

Aco Battery's product portfolio includes starter batteries in various amperage hours and sizes, ranging from 35 to 225. These batteries are available under our carpile, Tinoo, HANDEL, HiPile, and KAMA brands. In collaboration with a Turkish consulting team, we established the technical for automotive battery production. Currently, all aspects of car battery manufacturing, from lead ingots to plates and assembly, as well as the production of lids and covers, are expertly handled by our technical team using cuttinge-dge technology, advanced expertise, and innovative design.

Equipment and production process

In our assembly, charging, and finishing units, we employ %100 automatic control equipment to ensure error-proof production lines that adhere to Poka-Yoka standards. These standards, derived from the lean manufacturing concept, focus on mistake-proofing and error prevention, ultimately enhancing product quality and efficiency to maintain high levels of accuracy and consistency in our manufacturing processes. To maintain and enhance the quality of our batteries, we source materials for key components from reputable brands across the globe. These materials include tin, active copper, battery paste, and separators, which are procured from trusted suppliers in Germany, Turkey, England, and Korea. At Aco Battery, we have invested in most modern equipment from Germany for our laboratory. This modern facility enables us to conduct comprehensive tests on raw materials and production plates, leveraging contemporary technical knowledge in collaboration with a German team and our in house R&D department. A significant tool in this laboratory is the spectrometer, which is essential for metallurgical analysis and determining the purity percentage and elements of both pure and alloyed lead. In the electrical laboratory, which has been accredited by the National Accreditation Center (NACI) in accordance with the ISO/IEC 17025 standards, is equipped to measure all technical parameters of our final products in line with industry standards. Some of the tests conducted include capacity testing, charge acceptance measurement, reserve capacity assessment, cold cranking amps evaluation, vibration resistance testing, battery life cycle analysis, and water loss measurement. These tests adhere to both domestic ISIRI 1-71 and 2-71 standards, as well as European EN standards, ensuring that Aco Battery can confidently supply its products to domestic and international markets with a guarantee of quality.

ISO 14001:2015
45001:2018
10002:2018
10004:2018
HSE-MS

Quality Control Laboratories

In line with one of Aco Battery Group's core policies, we have established chemical and electrical laboratories to maintain and enhance product quality. These facilities work closely with expert teams and experienced consultants in this field to ensure the quality of both raw materials and final products. Regular visits from these specialists further contribute to our continuous improvement efforts and demonstrate our dedication to delivering high-quality products that meet our customers' expectations.

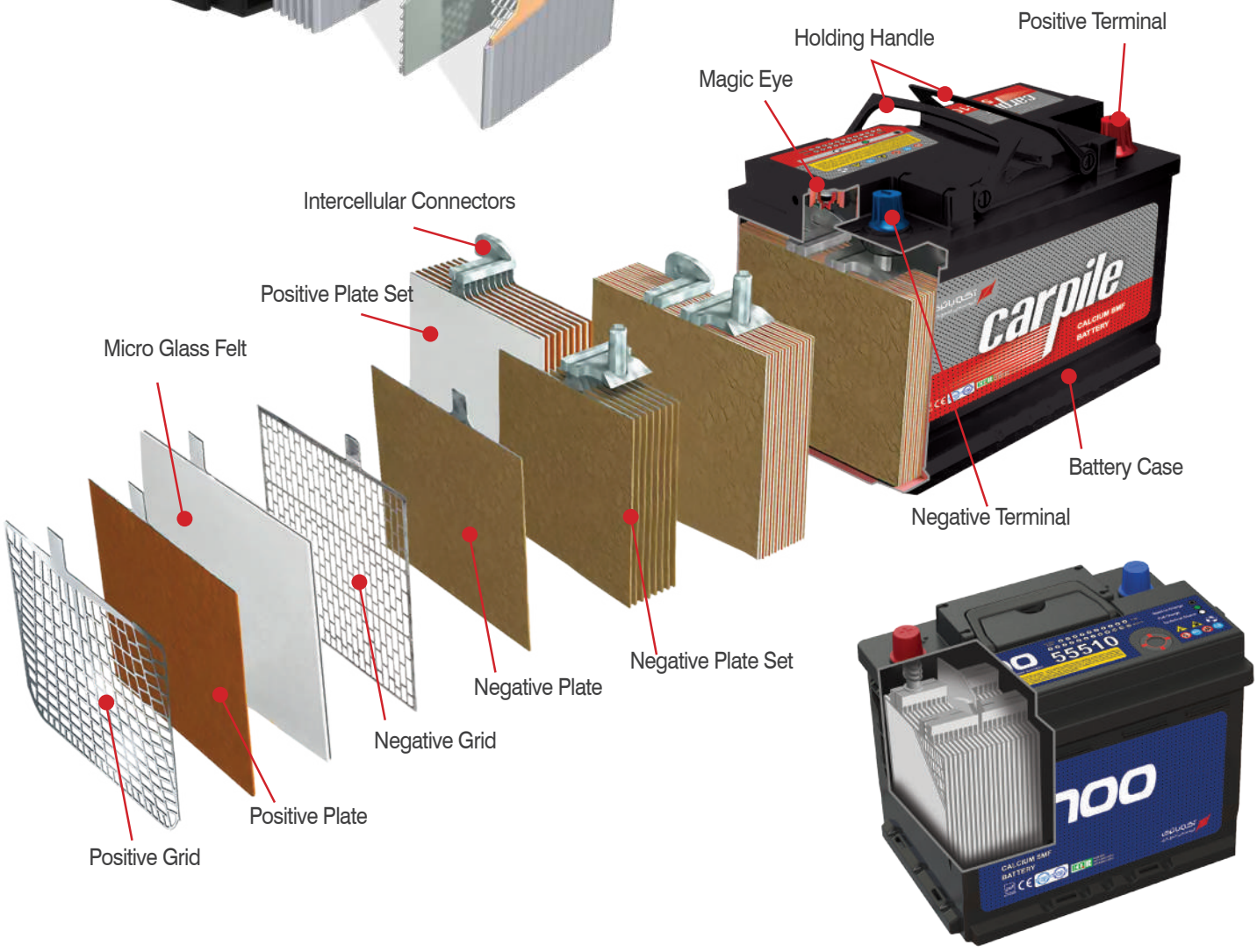
Wide Network of After-Sale Service and guaranty

To ensure customer satisfaction, we have established a dedicated customer feedback unit along with an extensive network of after-sales services and warranty coverage across the country. This allows us to offer consultation and guidance to our customers effectively. Furthermore, we have set up distribution sales offices and wholesale agencies in all provinces to provide enhanced service and support. Aco Battery has also been active in the neighboring countries'markets and is currently working on exporting products to distant countries as part of our ongoing development and expansion strategy. Our commitment to customer satisfaction and market growth enables us to build strong relationships with our customers and partners worldwide.

Establishment of Product Tracking and Identification System

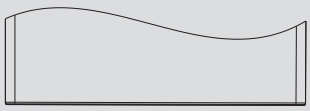
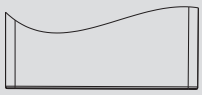
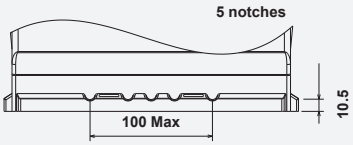
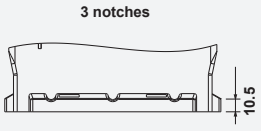
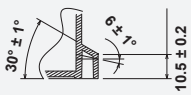
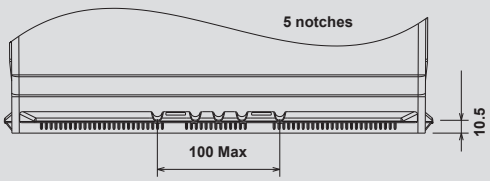
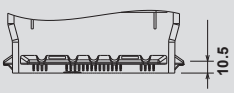
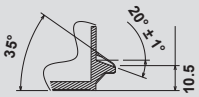
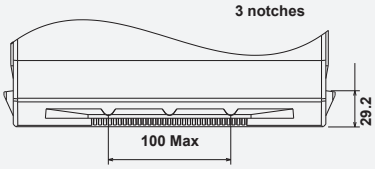
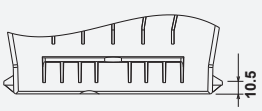
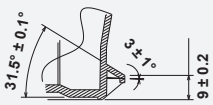
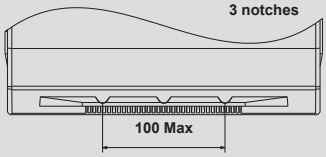
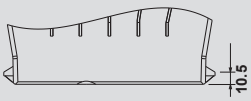
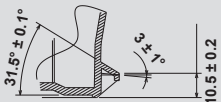
Another key strength of Aco company is the standardization of production lines, achieved through the implementation and establishment of a traceability and identification system. This system tracks and records the details of raw materials, work-in-progress, production stations, and the final battery product. By utilizing this advanced software, we can monitor and evaluate all production parameters, from the properties of lead ingot raw materials used in battery production to quality control measures performed throughout the process. This allows us to maintain detailed production and quality records for each battery, serving as a unique product ID card and ensuring quality in our manufacturing processes

Structural Plates Of ACO Batteries

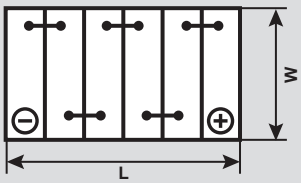


B NS L1 L2 L3 L5 D26 D31 C/D6

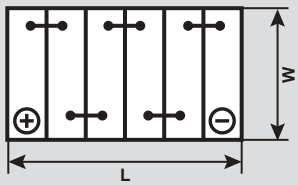
Battery Base Hold Down (Dimension in millimetre)

B00	**NS-B-C/D6**			
B13	**L1 - L2 - L3**			
B16	**L5**			
B09	**D26**			
B01	**D31**			

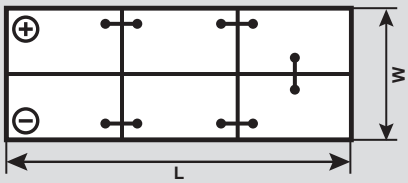
Terminal Layout



Layout 0



Layout 1

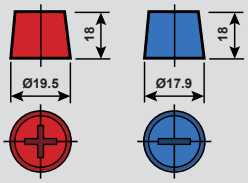


Layout 2

Terminal Type (Dimension in millimetre)

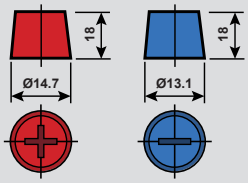
Terminal 1

T1



Terminal 2

T2



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35AH

SMF351B20 L/R

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA ISIRI/EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
B20 (NS40)	SMF351B20L	Sealed	35	320	T2	0	B00	196	126	204	227	10.90
B20 (NS40)	SMF351B20R	Sealed	35	320	T2	1	B00	196	126	204	227	10.90

45AH

SMF451B24 L/R

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA ISIRI/EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
B24 (NS60)	SMF451B24L	Sealed	45	380	T1	0	B00	237	126	204	227	12.85
B24 (NS60)	SMF451B24R	Sealed	45	380	T1	1	B00	237	126	204	227	12.85

50AH

SMF55040

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
L1	SMF55040	Sealed	50	420	T1	0	B13	209	175	188	188	12.30

50AH

SMF55010

55AH

SMF55510

60AH

SMF56010

carpile TINOO Hi Pile HANDEL KAMA

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
L2	SMF55010	Sealed	50	440	T1	0	B13	242	175	188	188	13.30
L2	SMF55510	Sealed	55	470	T1	0	B13	242	175	188	188	13.90
L2	SMF56010	Sealed	60	520	T1	0	B13	242	175	188	188	14.60

50AH

SMF55010

55AH

SMF55510

60AH

SMF56010

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
L2	SMF55010	Sealed	50	520	T1	0	B13	242	175	188	188	14.70
L2	SMF55510	Sealed	55	570	T1	0	B13	242	175	188	188	15.30
L2	SMF56010	Sealed	60	650	T1	0	B13	242	175	188	188	16.10

66AH

SMF56610

74AH

SMF57410

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
L3	SMF56610	Sealed	66	670	T1	0	B13	278	175	188	188	17.70
L3	SMF57410	Sealed	74	700	T1	0	B13	278	175	188	188	18.60

66AH

SMF56610

74AH

SMF57410

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
L3	SMF56610	Sealed	66	570	T1	0	B13	278	175	188	188	16.50
L3	SMF57410	Sealed	74	650	T1	0	B13	278	175	188	188	17.30

60AH

SMF605D26 L/R

70AH

SMF705D26 L/R

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
D26	SMF605D26L	Sealed	60	540	T1	0	B09	266	175	198	220	16.20
D26	SMF605D26R	Sealed	60	540	T1	1	B09	266	175	198	220	16.20
D26	SMF705D26L	Sealed	70	620	T1	0	B09	266	175	198	220	17.30
D26	SMF705D26R	Sealed	70	620	T1	1	B09	266	175	198	220	17.30

90AH

SMF901D31 L/R

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
D31	SMF901D31R	Sealed	90	760	T1	1	B01	306	175	207	227	22
D31	SMF901D31L	Sealed	90	760	T1	0	B01	306	175	207	227	22

90AH

SMF59010

100AH

SMF60010

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
L5	SMF59010	Sealed	90	790	T1	0	B16	351	175	188	188	22.10
L5	SMF60010	Sealed	100	880	T1	0	B16	351	175	188	188	23.30

150AH

LM65010

SMF65020

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA I EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
B	LM65010	Non-Sealed	150	1050	T1	2	B00	510	222	195	218	39.6
B	SMF65020	Sealed	150	1050	T1	2	B00	510	222	202	224	39.6

LM70010

200AH

SMF70020

	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA I EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
B	LM70010	Non-Sealed	200	1250	T1	2	B00	510	222	195	218	45.6
B	SMF70020	Sealed	200	1250	T1	2	B00	510	222	202	224	45.6

225AH

SMF72520

Type	Model	Sealed/ Non-Sealed	Capacity 20HR (Ah, 25°C)	CCA EN (A, -18 °C)	Terminal Type	Terminal Layout	Hold Down	Overall Dimension (mm)				Weight (±3%Kg)
								Length	Width	Height	T.Height	
C/D6	SMF72520	Sealed	225	1350	T1	2	B00	511	273	213	233	55.6

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6278205985

ISO 14001:2015
45001:2018
10002:2018
10004:2018
HSE-MS

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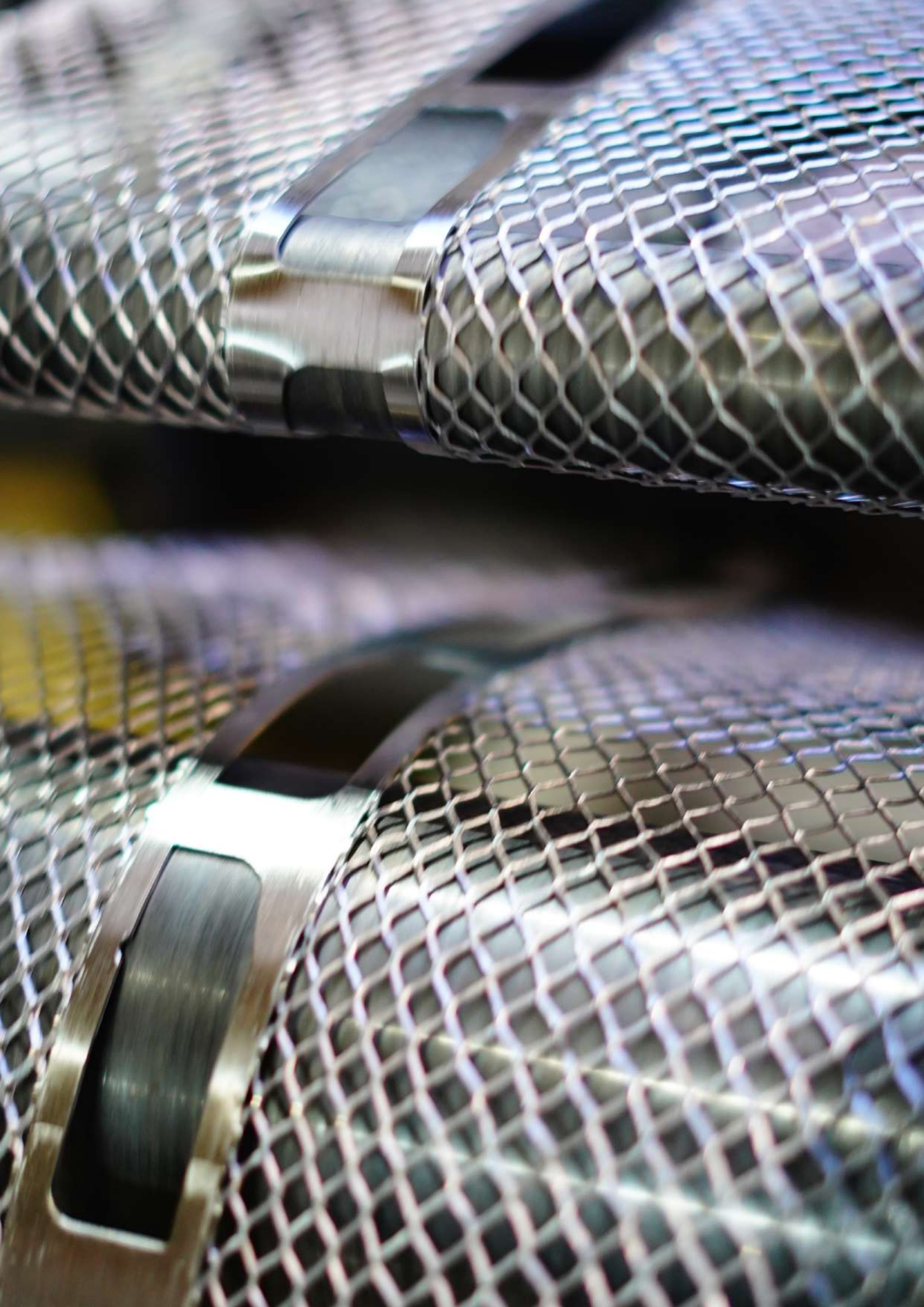
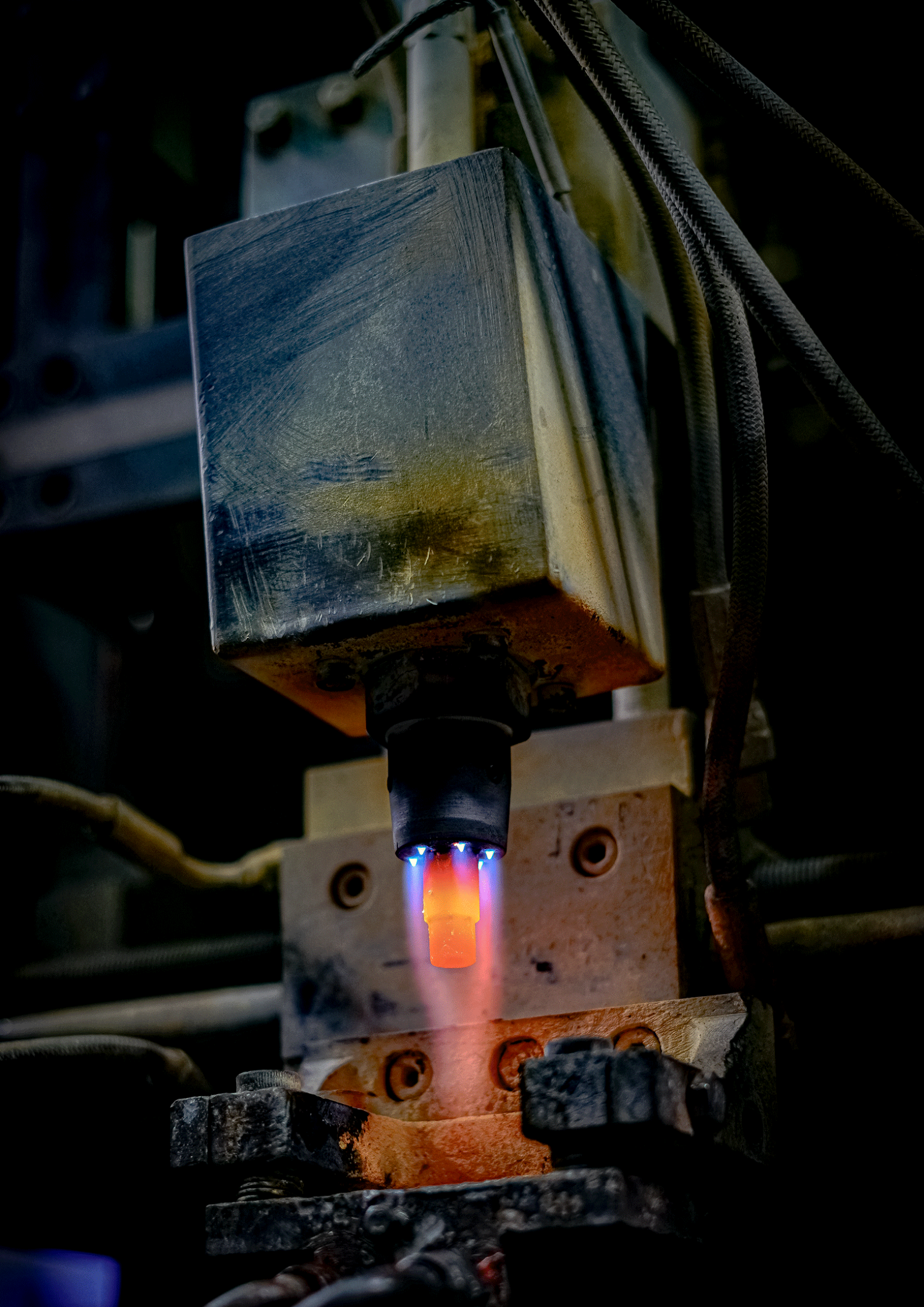
www.aco-battery.com





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AC-2025-GEN-V02

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