

REVIT FAMILY USER GUIDE

IBAR



Set up & install

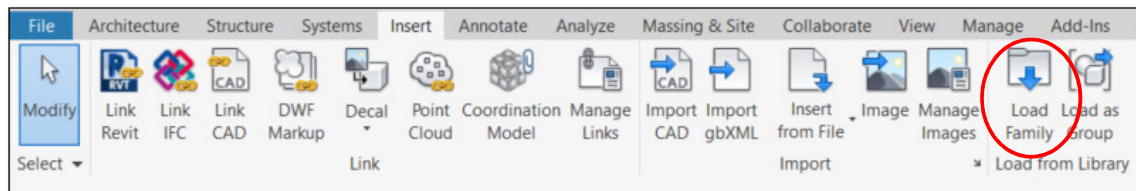
1. Choose correct material Revit Family package on [our \[insert webpage link here\]](#) page and download to desired location:

- IBAR – HXA - Internal IP55 busbar - aluminium
- IBAR – HXC - Internal IP55 busbar - copper
- RESINBAR – CXA - External IP68 busbar - aluminium
- RESINBAR – CXC - External IP68 busbar - copper

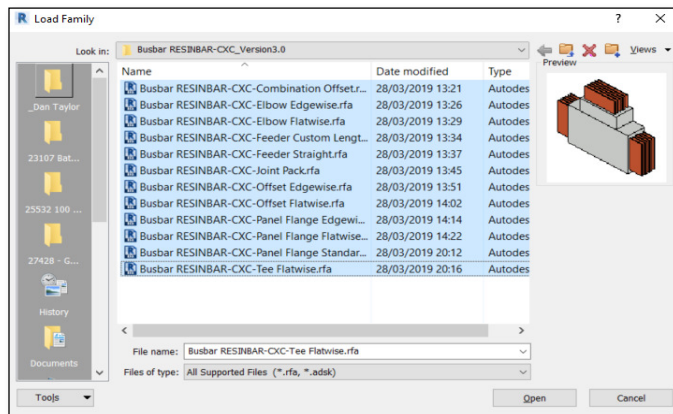
2. Open Project in required Revit release

3. Loading the family

3a. Insert -> Load Family



3b. When you 'Load Family' in Revit, import all the various part files in one go



3c. When you insert the families into Revit, an Insert Table will appear prompting you to choose the ampere rating for each component. (feeder, elbow, tee etc)

Specify Types

Family	Types										
	Type	Busbar Conductor Type (all)	Busbar Rating (all)	Busbar Casing Height (all)	Busbar Casing Width (all)	Busbar Casing Width _A (all)	Busbar Casing Width _B (all)	Busbar Casing Width _C (all)	Busbar Rating Code (all)	Busbar Range Code (all)	Busbar Conductor Type Code (all)
Busbar RESBNA-CNC Tie Busbar RESBNA-CNC Car Busbar RESBNA-CNC Ebb Busbar RESBNA-CNC Eib Busbar RESBMA-CNC Tie Busbar RESBMA-CNC Car Busbar RESBMA-CNC Ebb Busbar RESBMA-CNC Eib Busbar RESBNAC-CNC Tie Busbar RESBNAC-CNC Car Busbar RESBNAC-CNC Ebb Busbar RESBNAC-CNC Eib Busbar RESBNAC-CNC Pen Busbar RESBNAC-CNC Pan Busbar RESBNAC-CNC Pin	1000A	COPPER	1000.0 A	120.0	90.0	90.0	120.0	140.0	10	CX	C
	1200A	COPPER	1200.0 A	130.0	90.0	90.0	120.0	140.0	12	CX	C
	1600A	COPPER	1600.0 A	160.0	90.0	90.0	120.0	140.0	16	CX	C
	1800A	MAGNETIC	1800.0 A	180.0	90.0	90.0	120.0	140.0	18	CX	C
	2500A	COPPER	2500.0 A	250.0	90.0	90.0	120.0	140.0	25	CX	C
	3200A	COPPER	3200.0 A	300.0	90.0	90.0	120.0	140.0	32	CX	C
	4000A	COPPER	4000.0 A	380.0	100.0	100.0	120.0	140.0	40	CX	C
	5000A	COPPER	5000.0 A	480.0	100.0	100.0	120.0	140.0	50	CX	C
	6300A	COPPER	6300.0 A	580.0	100.0	100.0	120.0	140.0	63	CX	C

Select one or more types on the right for each family listed on the left

OK Cancel Help

3d. When selecting 'Feeder Straight' lengths in the Insert Table, please select 1m, 2m & 3m lengths from the rating you desire

Specify Types

Family:

Busbar IBAR-HOC-Tee Flat

Busbar IBAR-HOC-Combinal

Busbar IBAR-HOC-Distribut

Busbar IBAR-HOC-Elbow Ed

Busbar IBAR-HOC-Elbow Fla

Busbar IBAR-HOC-End Cap

Busbar IBAR-HOC-End Feed

Busbar IBAR-HOC-Feeder C

Busbar IBAR-HOC-Feeder F

Busbar IBAR-HOC-Joint Pack

Busbar IBAR-HOC-Offset Ed

Busbar IBAR-HOC-Offset Fla

Busbar IBAR-HOC-Panel Fla

Busbar IBAR-HOC-Panel Fla

Busbar IBAR-HOC-Panel Fla

Type:

Type	Busbar Conductor Type	Busbar Rating	Busbar Length	Busbar Casing Width	Busbar Casing Height	Busbar Conductor Width	Busbar Rating Code	Busbar Single Stack Boundary Rating	Busbar Stack Size Code	Busbar Range Code	Busbar Type
	(all)	(all)	(all)	(all)	(all)	(all)	(all)	(all)	(all)	(all)	
1000A 1m	COPPER	1000.0 A	1000.0	155.0	115.0	55.0	10	3200.0 A	S	HX	C
1000A 2m	COPPER	1000.0 A	2000.0	155.0	115.0	55.0	10	3200.0 A	S	HX	C
1000A 3m	COPPER	1000.0 A	3000.0	155.0	115.0	55.0	10	3200.0 A	S	HX	C
1250A 1m	COPPER	1250.0 A	1000.0	155.0	130.0	70.0	12	3200.0 A	S	HX	C
1250A 2m	COPPER	1250.0 A	2000.0	155.0	130.0	70.0	12	3200.0 A	S	HX	C
1250A 3m	COPPER	1250.0 A	3000.0	155.0	130.0	70.0	12	3200.0 A	S	HX	C
1600A 1m	COPPER	1600.0 A	1000.0	155.0	150.0	90.0	16	3200.0 A	S	HX	C
1600A 2m	COPPER	1600.0 A	2000.0	155.0	150.0	90.0	16	3200.0 A	S	HX	C
1600A 3m	COPPER	1600.0 A	3000.0	155.0	150.0	90.0	16	3200.0 A	S	HX	C
2000A 1m	COPPER	2000.0 A	1000.0	155.0	185.0	125.0	20	3200.0 A	S	HX	C
2000A 2m	COPPER	2000.0 A	2000.0	155.0	185.0	125.0	20	3200.0 A	S	HX	C
2000A 3m	COPPER	2000.0 A	3000.0	155.0	185.0	125.0	20	3200.0 A	S	HX	C
2500A 1m	COPPER	2500.0 A	1000.0	155.0	220.0	160.0	25	3200.0 A	S	HX	C
2500A 2m	COPPER	2500.0 A	2000.0	155.0	220.0	160.0	25	3200.0 A	S	HX	C
2500A 3m	COPPER	2500.0 A	3000.0	155.0	220.0	160.0	25	3200.0 A	S	HX	C
3200A 1m	COPPER	3200.0 A	1000.0	155.0	290.0	230.0	32	3200.0 A	S	HX	C
3200A 2m	COPPER	3200.0 A	2000.0	155.0	290.0	230.0	32	3200.0 A	S	HX	C
3200A 3m	COPPER	3200.0 A	3000.0	155.0	290.0	230.0	32	3200.0 A	S	HX	C

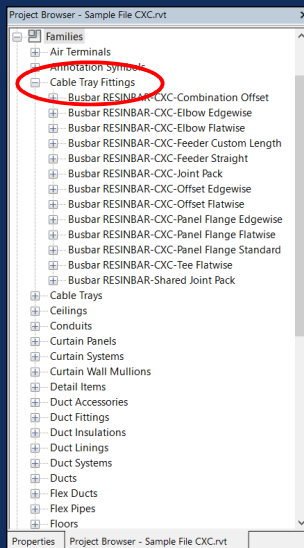
Select one or more types on the right for each family listed on the left

OK

Cancel

Help

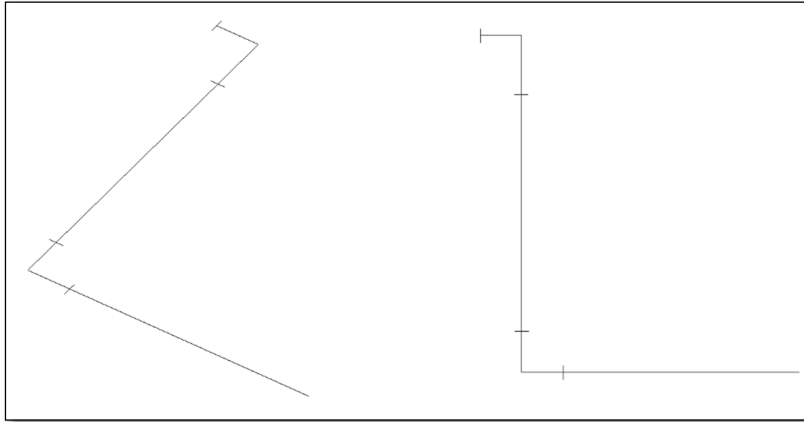
3e. Once loaded, all families will list under '**Cable Tray Fittings**' in your Project Browser



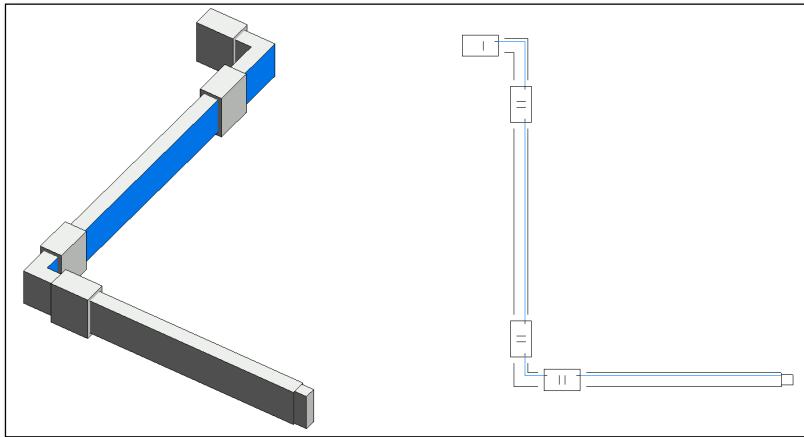
User Guide

We have created the following Level of Detail for your visual display mode:

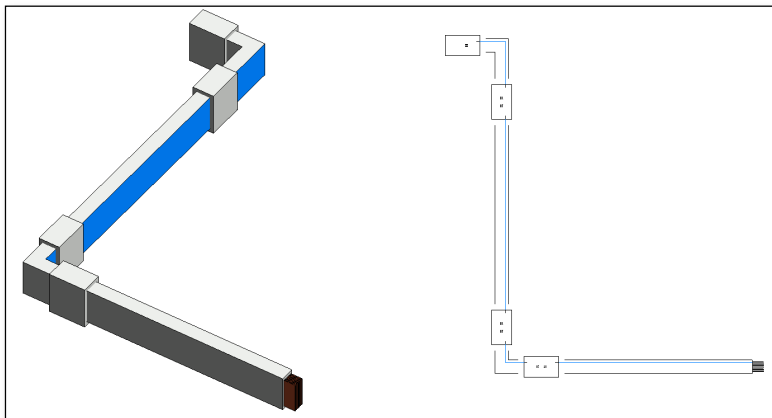
Single Line / LOD100 – Coarse



Double Line / LOD 300 – Medium

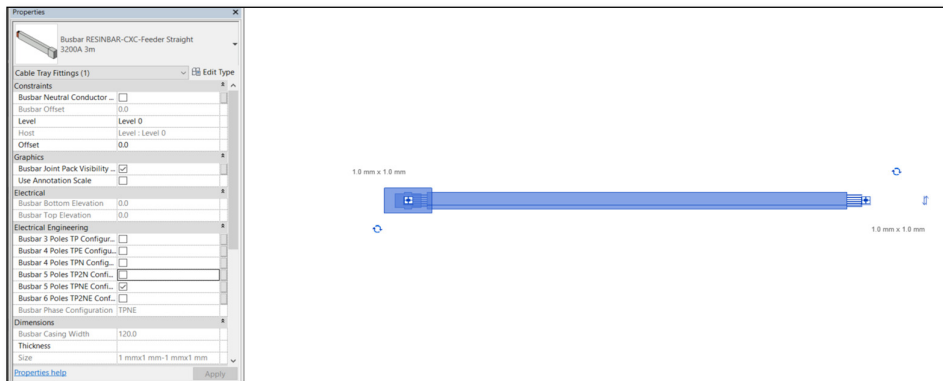


As Built / LOD 400 – Fine

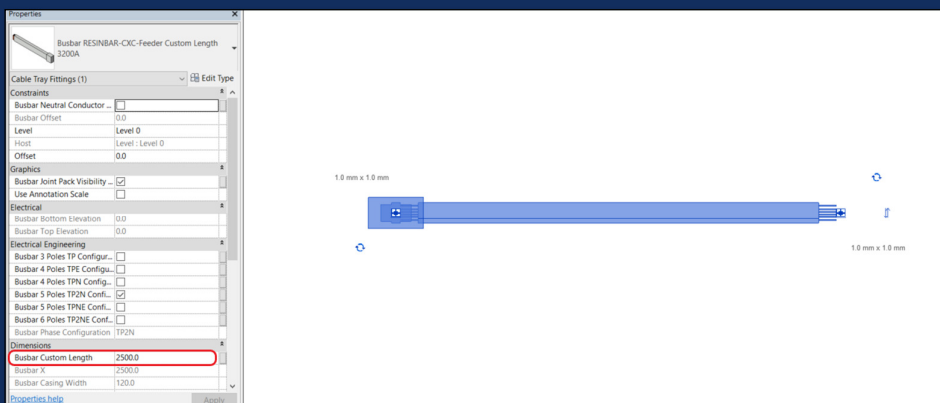


Feeders

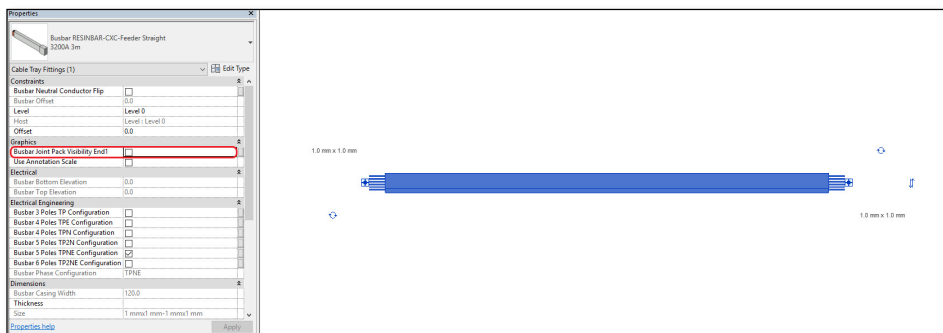
The 'Feeder Straight' object should be used for 3000mm, 2000mm or 1000mm straight busbar pieces (These have a different part number than the custom or 'non-standard' length feeders, hence the reasoning for two separate families)



The 'Feeder Custom Length' family should be used for all other straight length measurements. Simply change 'Busbar Custom Length' parameter to size required



Each component has one end open, and one end with the option to toggle the joint pack on/off (in the instance parameters). This is to enable the production of an accurate Bill of Materials with correct number of joint packs



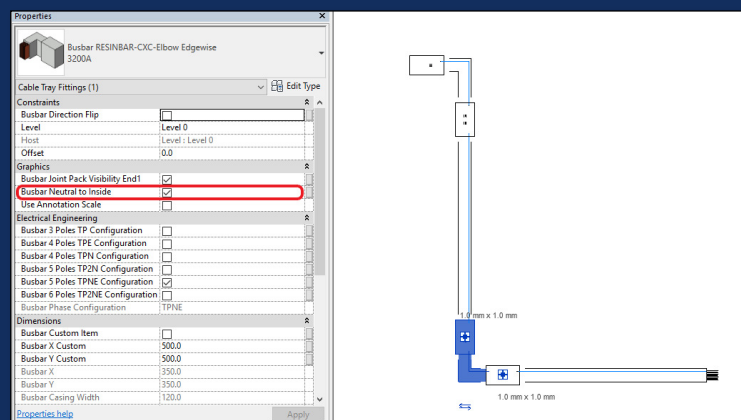
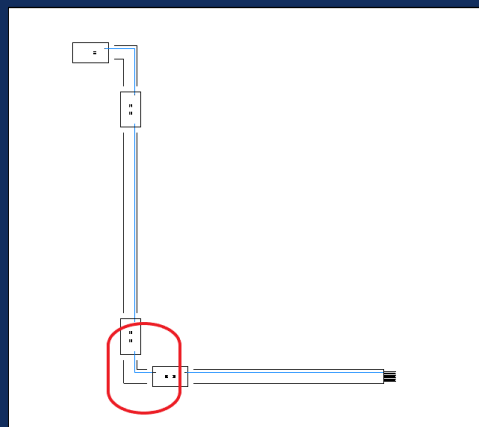
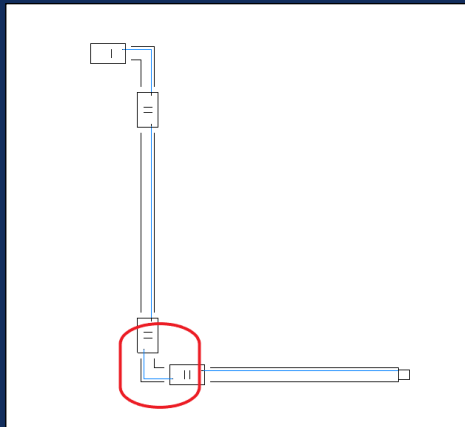
Pole Selection

It is critical that you select the correct amount of poles per element created. This creates the right size in **RESINBAR** elements, provides the correct part number for any BOM you export, and easy for your electrical engineer to check against any tech subs!



Neutral

The Neutral 'BLUE' side is indicated by the BLUE face in a 3D view, or thin BLUE line in 2D / floor plans. This is to follow the phasing orientation from panel to panel. You can toggle this by using the **'Busbar Neutral to Inside'** parameter on Elbows, Offsets & Combinations, or use the rotation symbols on Straight Feeders



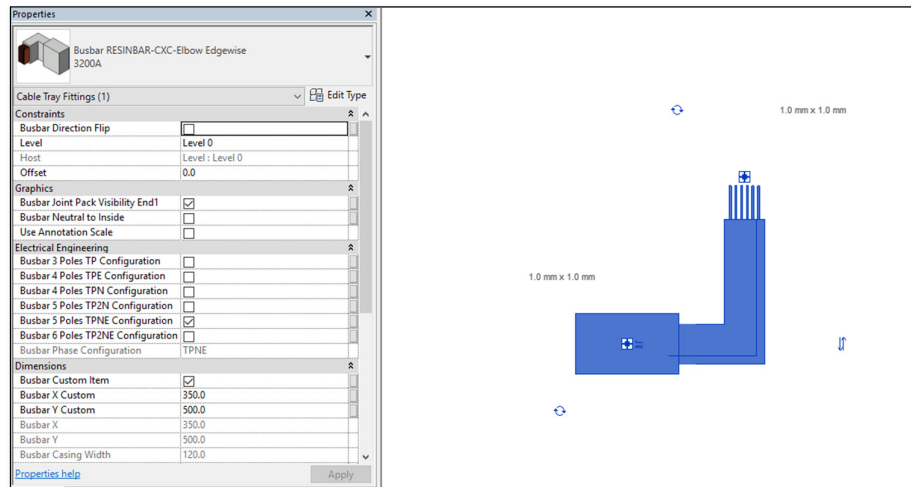
Note – Anord Mardix Busbar Pole Phasing / Order is:

N L1 L2 L3 E

3-pole (no Neutral) = 'BLUE' dictates L1 side

Custom Length Items

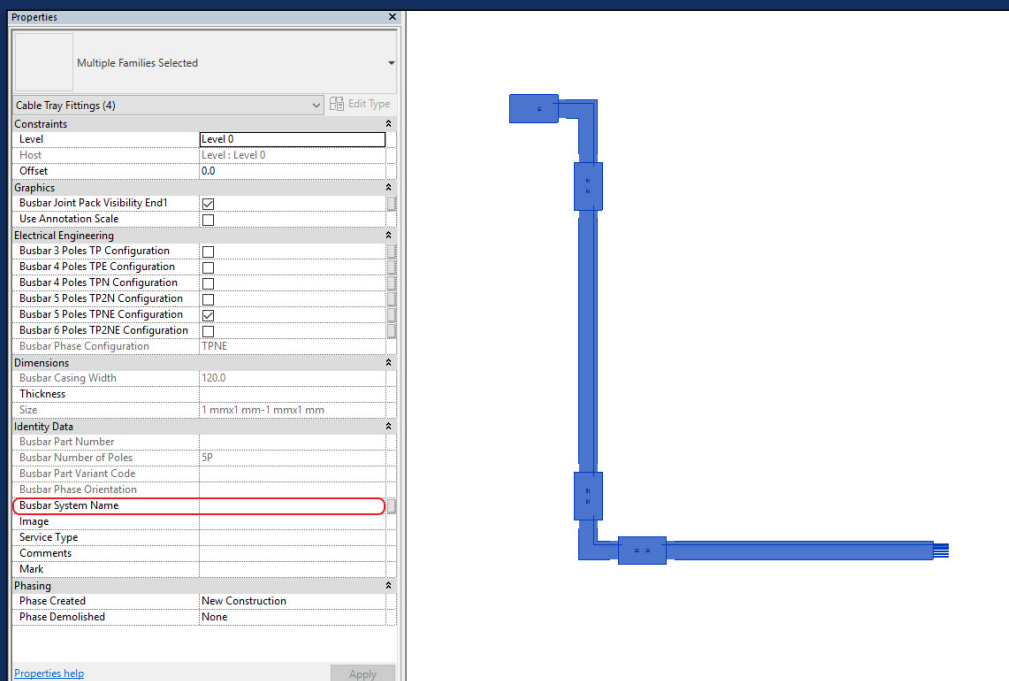
If you need to create custom elbows, offsets, combinations & panel flange elbows, please tick **'Busbar Custom Item'** box and input a new measurement. We recommend, where possible, to utilise the standard sizes to enable faster manufacturing and delivery



IMPORTANT - Please ensure that all element connectors are placed at the same location when joining to the previous / next piece to create a completed run. We suggest using the Align tool between two external casings of two separate elements

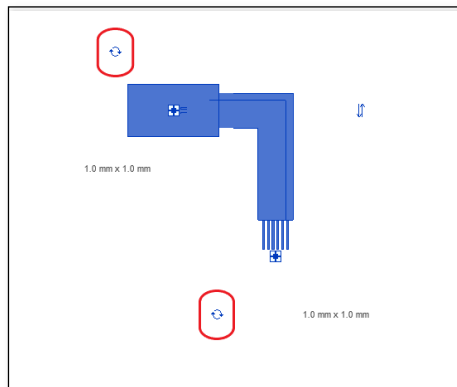
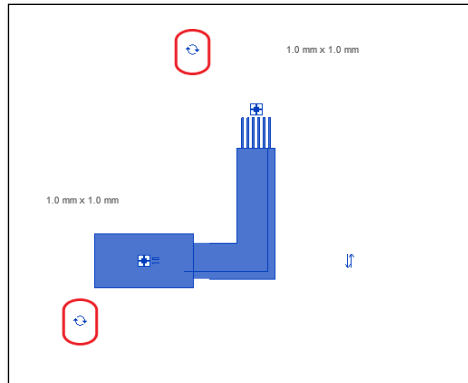
Naming

Once the run is complete, you can name the run via the **'Busbar System Name'** parameter. This should make filtering easier for you.



Rotation

Some items do not rotate in section view. To get an item rotated into the correct position, use the rotate symbols when highlighting an element.



Casing Width

Please do not alter the '**Casing Width**' parameters in the Type parameters. This will severely alter the IBAR Revit families and have a knock-on impact across the entire run

**If you have any
questions, please
contact us**

sales.emea@anordmardix.com

www.anordmardix.com

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We produce the most comprehensive product range in the market - from power, control, and monitoring solutions to our unique service capability. Our ability to customize and produce on a large scale delivers the most reliable end-to-end power systems to all our customers, from independent providers to hyper-scale leaders.