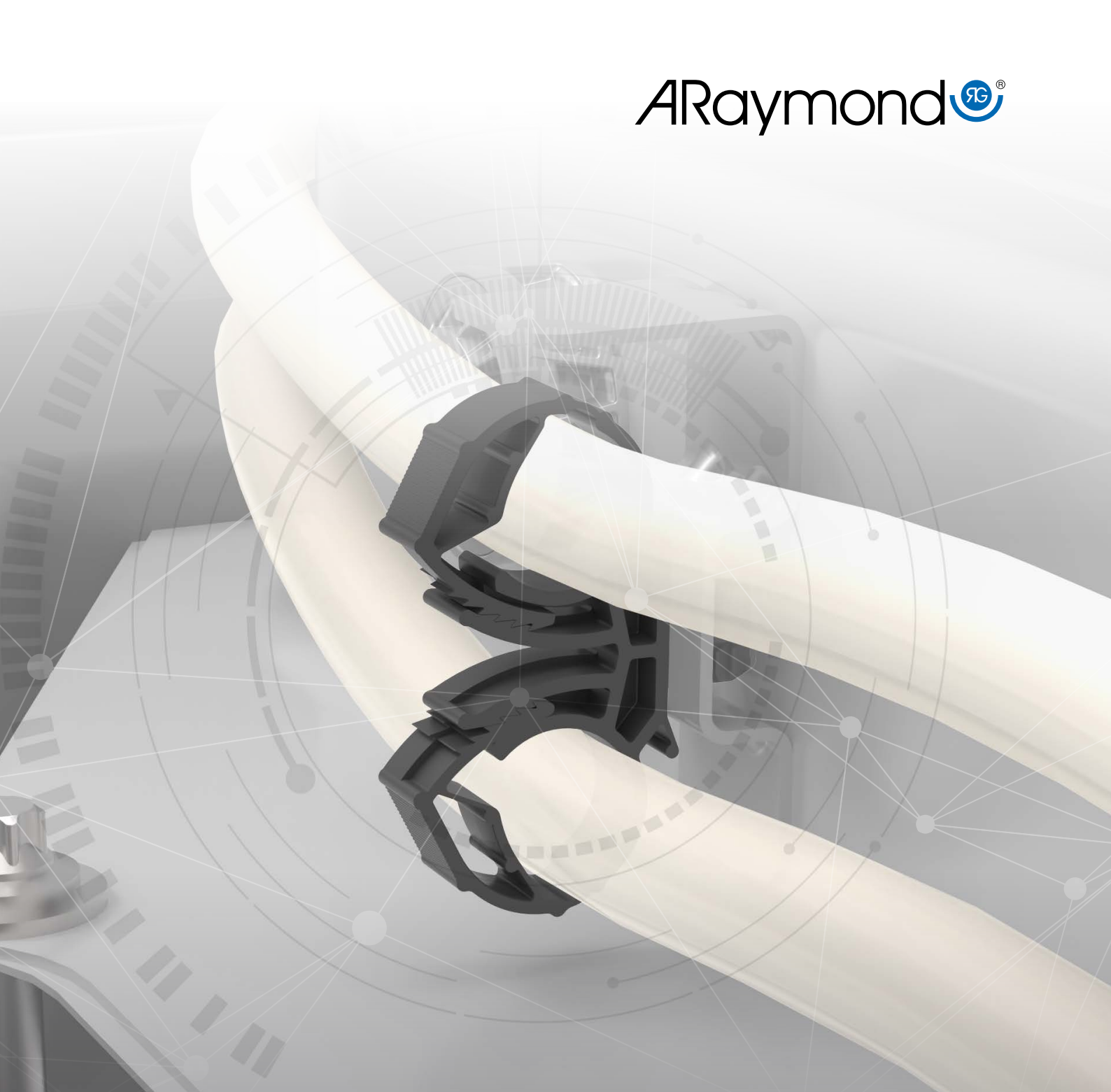




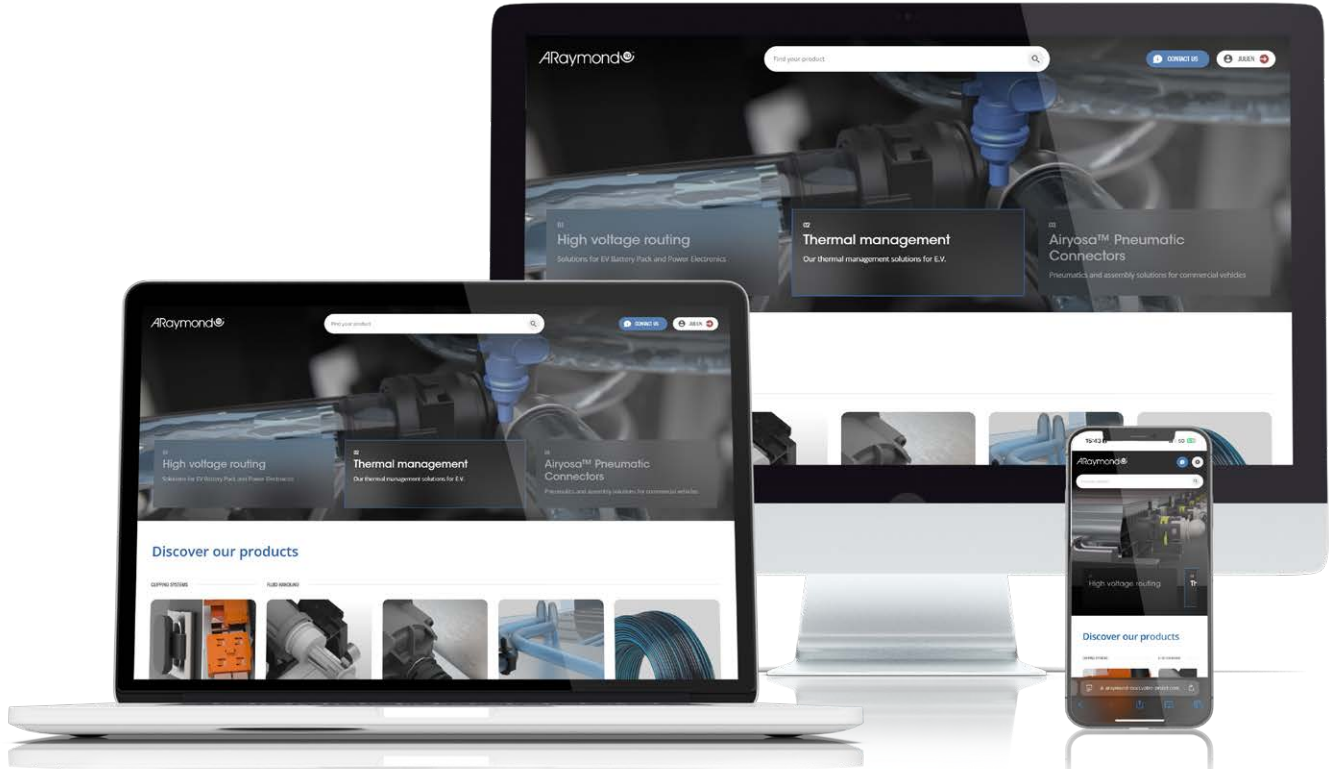
MOBILITY

PRODUCT CATALOG



THERMAL MANAGEMENT FASTENING SOLUTIONS

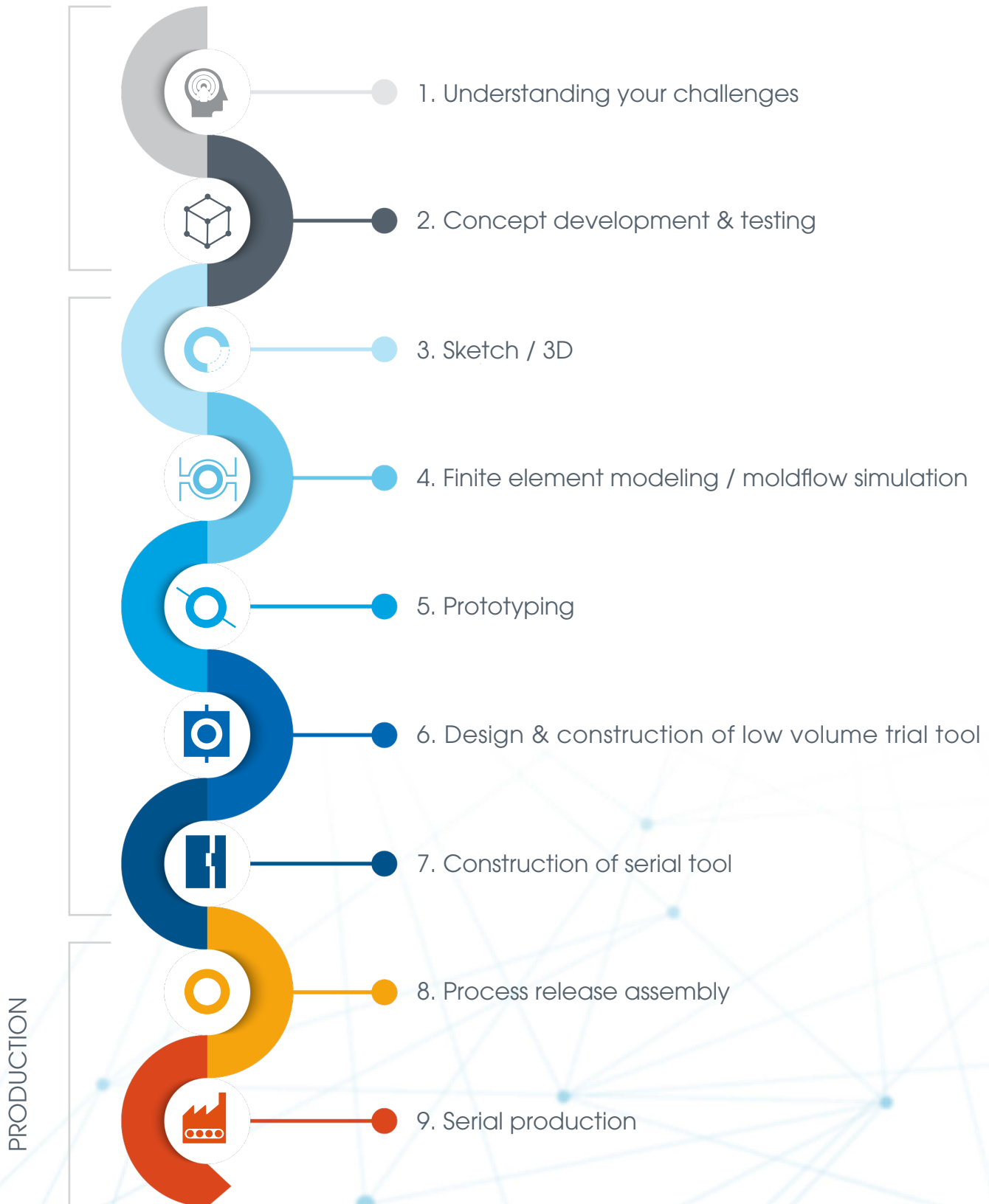
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GENERAL SUMMARY

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METAL AND PLASTIC EXPERTISE

METAL TRANSFORMATION

At ARaymond we manage all major metal transformation processes—cutting, bending and stamping. We work with spring steel, stainless steel, brass and copper in thicknesses of 0.2 to 6.35 mm, and can provide single or multi-layer surface treatments (Zn, Zn-Ni, Zn-Fe, etc.). We have in-house capabilities to handle the entire process from design to production, surface treatment and quality control and we have the capacity to produce up to 140 million pieces per year for a specific reference.



PLASTIC INJECTION

The ARaymond facilities are equipped with late model, standard and bi-injection molding machines with the capability to run less than 10 second cycle times and manage 128-cavity molds. Our bi-injection and overmolding processes are compatible with over 300 thermoplastic materials (polyamide, polyethylene, polyvinyl acetates, polypropylenes and more).

For applications calling for tracking, RFID (Radio Frequency IDentification) tags can be incorporated directly into the product.

Bi-injected cable strap

Excellent sealing performance to protect against water ingress for round and oval holes.



ASSEMBLY

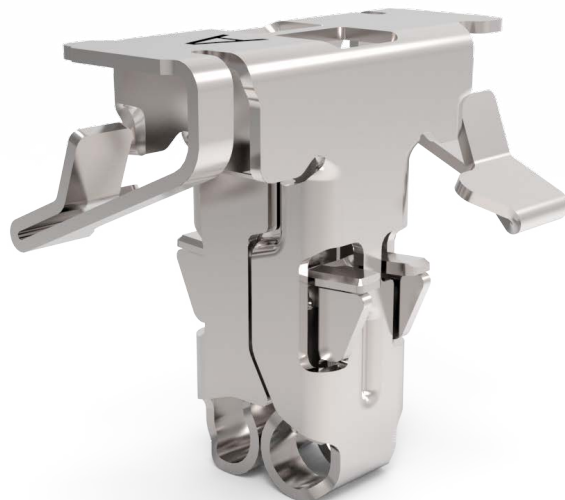
ARaymond's plants worldwide handle all modes of assembly: manual, semi-automated and cycle-time optimized fully automated assembly. Our many years of experience have made us experts in designing and building semi and fully automatic assembly machines and devices.





Airbag clip

High retention performance side curtain airbag fastening and retention for safety of all passengers. Easy pre-assembly into the airbag module with flexible and adaptive legs for a simple manual assembly into the car body.



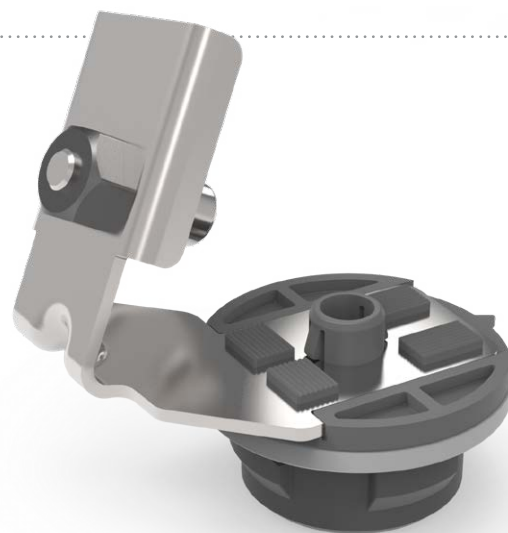
Overmolded tape-on clip with integrated metal starwasher

For mounting on plastic or plain metal studs. Repeatable high assembly quality preventing squeaks and rattles.

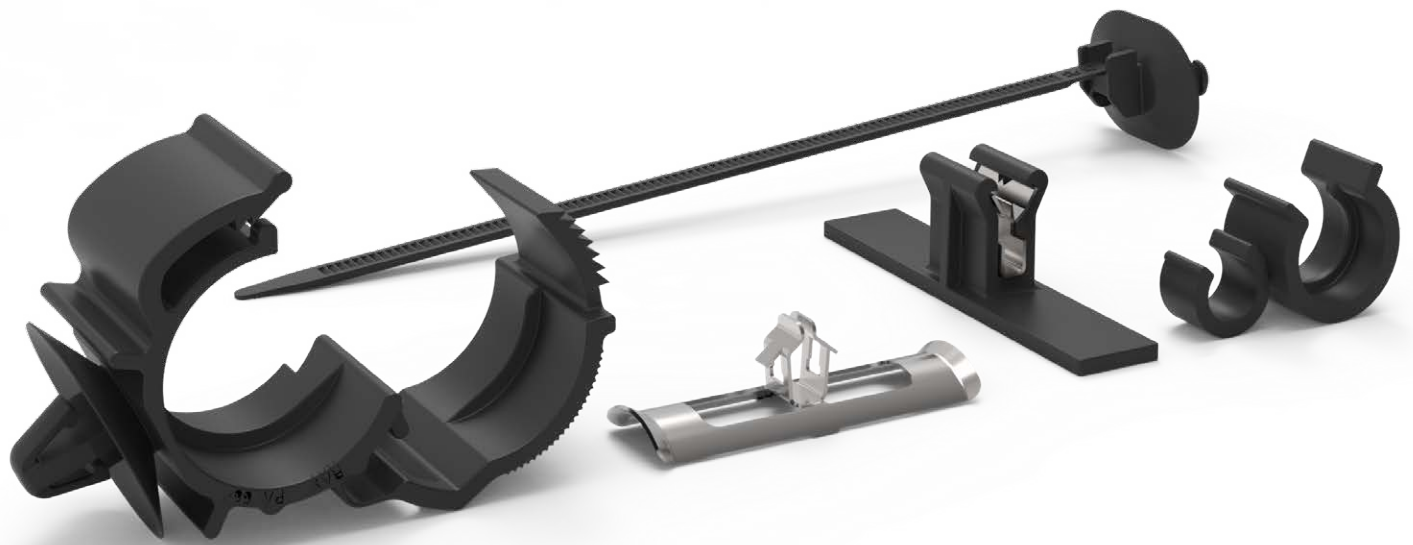


Multi-material bracket with ultrasonic welded plastic interface and crimped nut

An assembly that combines the best of each material: strength for the metal bracket, and design freedom for the plastic receiver. The final assembly is managed with a tool designed by ARaymond to improve assembly ergonomics.



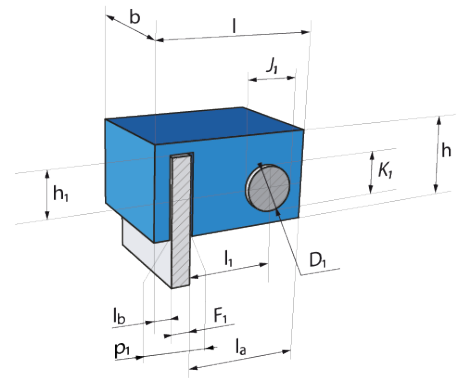
CABLE & TUBE FASTENERS



TUBE AND CABLE FASTENER

TUBE HOLDER

1 housing - Edge mount

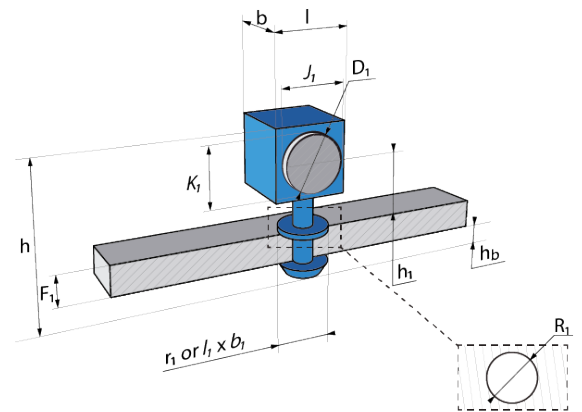
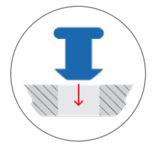


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1 or J1 x K1	F1	la	lb	l1	h1	l x b x h
263206		13.6-15.2	1.5-3.5	26	4	11	0	32.57 x 13 x 38.4
267182		15.2-17.2	1.5 / 3.5	28	4	13	0	33.41 x 13 x 41.5

TUBE HOLDER

1 housing - Round hole mount

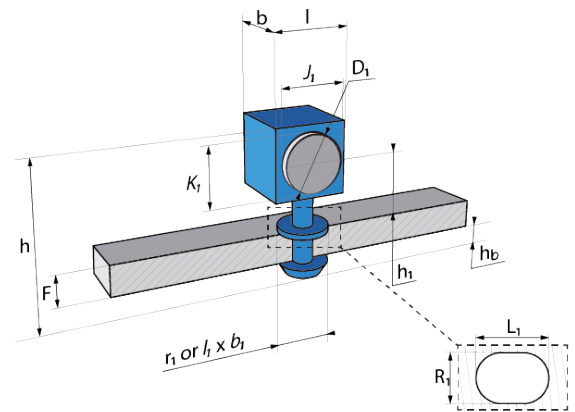
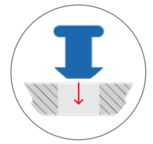


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1 or J1 x K1	R1	F1	r1 or l1 x b1	h1	hb	Features
278427		13-17	6.5-6.7	0.6-4	15 x 10	12.9	9.4-12.8	
274780		17-20	6.5-6.7	0.8-4	20.8 x 14	12	10.4	
279151		20-23	6.5-6.7	0.8-4	20.8 x 14	13.5	10.2	
255874		21;18.7	6.5-6.7	0.7-3.5	21.5 x 10	16.5	7.7-10.5	CORRUGATED HOSE
276173		23-27	6.5-6.7	0.8-4	20.8 x 14	16	10.4	

TUBE HOLDER

1 housing - Oblong hole mount

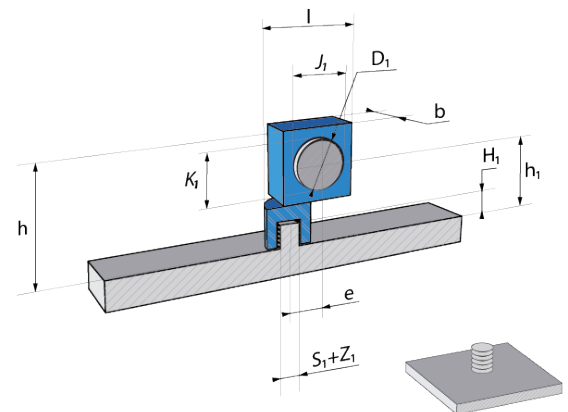
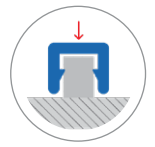


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D	L1 x R1	F1	r1 or l1 x b1	h1	hb	l x b x h	Features
258033		14.5-18	11.7-12 x 6-7	0.6-4	21.57 x 10	13.9	8.3-11.6	26.8 x 10 x 37.3-41.1	
249145		16.1;13.3	11.7-13 x 6-7	0.6-4	22.42 x 10	13.6	8.3-11.7	27.1 x 10 x 23.5 / 26.4	CORRUGATED HOSE
249146		18-21.4	11.7-13 x 6-7	0.6-4	24.3 x 10	16.5	8.3-11.4	32 / 32.6 x 10 x 28.7 / 34.8	CORRUGATED HOSE
258034		18-23	11.7-12 x 6-7	0.6-4	21.57 x 10	16.7	8.3-11.6	32.6-33.5 x 10 x 41.8-49	
258350		23-27		0.7-4	23.17 x 10	19	8.3-11.6	36.9-37.7 x 10 x 45.7-52.3	
249147		37.7 / 42.1	11.7-13 x 6-8	0.6-4	31.6 x 15	27.2	8.3-11.7	51.8 / 52.3 x 15 x 60.9 / 66.4	CORRUGATED HOSE

TUBE HOLDER

1 housing - Stud mount

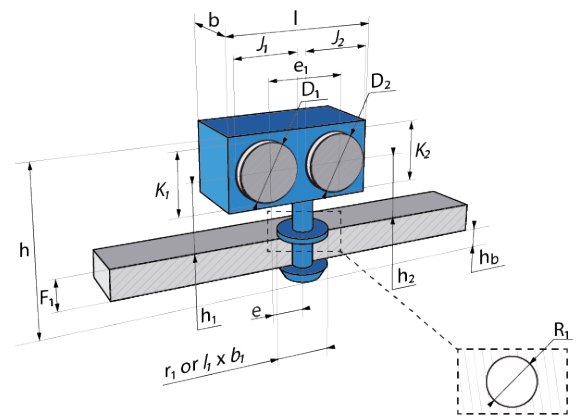
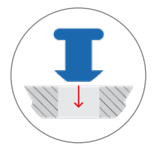


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1 or J1 x K1	H1	S	h1	e	l x b x h	Features
249151		13.3-16.1		T5 Stud + T6 Stud + M5 x 0,80 + M6 x 1,00	13.6	18	43 x 10 x 28.7	CORRUGATED HOSE
258040		14.5-18		M5 x 0,80 + M6 x 1,00 + T5 Stud + T6 Stud	14.5	15	42 x 10 x 25.5- 29.6	
249152		18-21.4		M5 x 0,80 + M6 x 1,00 + T5 Stud + T6 Stud	16.5	21	44.5-47.1 x 10 x 34.3-36.4	CORRUGATED HOSE
258041		18-23		M5 x 0,80 + M6 x 1,00 + T5 Stud + T6 Stud	16	22	45.6-49.8 x 10 x 35.7	
258351		23-27	15	M5 x 0,80 + M6 x 1,00 + T5 Stud + T6 Stud	17.15	20	45.7-49 x 10 x 39.8-40.3	
249153		37.7-42.1		M5 x 0,80 + M6 x 1,00 + T5 Stud + T6 Stud	23	25.3	66.6 x 15 x 46.2 / 51.7	CORRUGATED HOSE

TUBE HOLDER

2 housings - Round hole mount

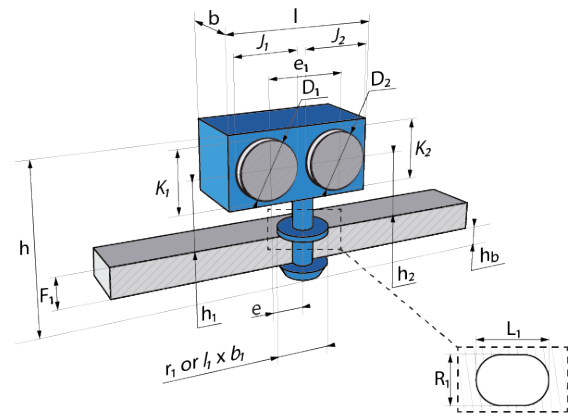


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1	D2	R1	F1	r1 or l1 x b1	h1	h2	e1	e	hb
263510		14.5-18	14.5-18	6.5-6.7	0.6-4	25 x 10	12.9	12.9	33.4	16.7	7.9-11.3
255175		18-22	18-22	6.5-6.7	0.7-3.5	39 x 10	16.5	16.5	39	19.5	7.7-10.5
277422		23-27	23-27	6.5-6.7	0.6-4	10 x 10	17.4	17.4	44.2	22.1	7.45-10.85

TUBE HOLDER

2 housings - Oblong hole mount

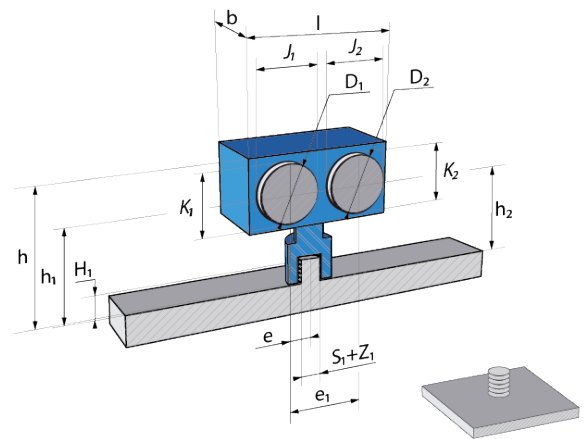
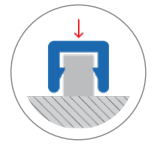


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1	D2	L1 x R1	F1	h1	h2	r1 or l1 x b1	hb	Features
249148		13.3-16.1	13.3-16.1	11.7-13 x 6-7	0.6-4	13.6	13.6	38.73 x 10	8.3-11.7	CORRUGATED HOSE
258036		14.5-18	14.5-18	11.7-12 x 6-7	0.6-4	12.9	12.9	23.57 x 10	8.3-11.7	
249149		18-21.4	18-21.4	11.7-13 x 6-7	0.6-4	16.5	16.5	42.17 x 10	8.3-11.7	CORRUGATED HOSE
258037		18-23	18-23	11.7-13 x 6-7	0.6-4	14.9	14.9	25.54 x 10	8.3-11.7	
262037		23-27	23-27	11.7-13 x 6-7	0.6-4	17.4	17.4	11.6 x 10	6.3-9.7	
249150		37.7-42.1	37.7-2.1	11.7-13 x 6-7	0.6-4	25.2	25.2	30 x 15	8.3-11.7	CORRUGATED HOSE

TUBE HOLDER

2 housings - Stud mount

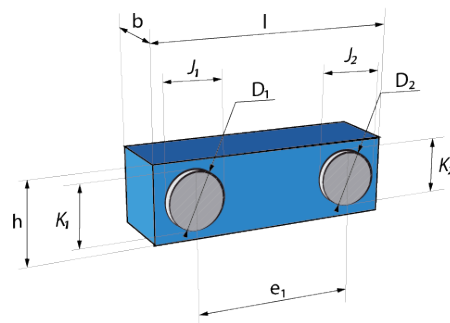


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1	D2	H1	S1	h1	h2	e1	e	Features
249154		13.3-16.1	13.3-16.1		T5 Stud	13.6	13.6	36	18	CORRUGATED HOSE
258043		14.5-18	14.5-18	15	M5 x 0,80	14.5	14.5	35	17.5	
249155		18-21.4	18-21.4		M5 x 0,80	16.5	16.5	42	21	CORRUGATED HOSE
256297		18-22	18-22		M5 x 0,80	16.5	16.5	42	21	
262038		23-27	23-27	14.2	M5 x 0,80	17.5	17.5	48	10	
249156		41.1-42.1	37.7-38.7		M5 x 0,80	25	25	61	30.5	CORRUGATED HOSE

SPACER

2 housings

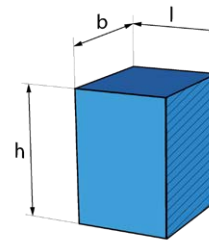
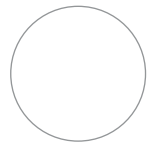


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1	D2	e1	l x b x h
277198		11.5-14	11.5-14	22	59.9 x 13 x 34.6
277199		14-18	14-18	22	69.1 x 13 x 39.4
276903		18-22	18-22	26	92.2 x 13 x 40.2
277200		22-26	22-26	34	103.5 x 13 x 45.1

SWIVEL TUBE HOLDER

1 housing - Swivel clips

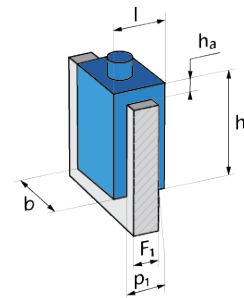


All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	D1	l x b x h or d x h
281152		13-17	37.1 x 14 x 39.6
281151		13-17	37.1 x 14 x 40.7
280523		17-20	38.3 x 14 x 47.6
280524		17-20	38.3 x 14 x 48.9
280525		20-23	42.1 x 14 x 51.9
280526		20-23	42.1 x 14 x 53.3
280654		23-27	45.6 x 14 x 58.6
280655		23-27	45.6 x 14 x 59.9

ADAPTERS

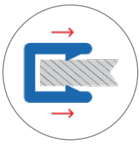
SWIVEL CLIP MOUNTED ADAPTERS



All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	F1	p1	ha	l x b x h
238645		1-3			19.5 x 17.8 x 16
202124		1-3	3.4	3.7	16 x 15 x 16.25
252287		1.9-2.1		9.25	9.9 x 14 x 16.9
235223		2-4		3.9	19.4 x 16 x 17.8
238630		2-4	4.4		19.5 x 16 x 17.8
082607		2-4	4.4	3.7	16 x 15 x 16.25
237564		4-6			24.35 x 16 x 17.25
212334		4-6	2	10.05	

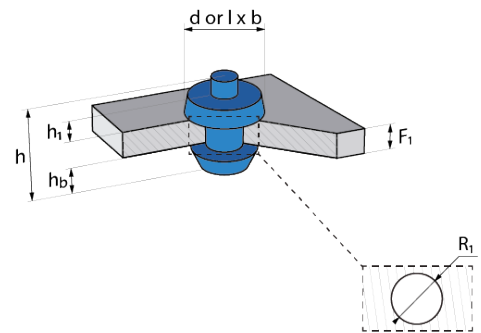
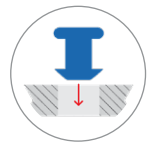
SWIVEL CLIP MOUNTED ADAPTERS



All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	F1	p1	ha	l x b x h
238627		4-6	6.4		24.5 x 16 x 17.25

SWIVEL CLIP MOUNTED ADAPTERS



All dimensions in mm / Other dimensions and variants on request.

Ref.	Design	F1	R1	d	h1	hb
243286		0.6-6	6.5-6.7	18	2.55	4.45-11.85
243285		0.6-6	6.5-6.7	18	9.05	6.45-11.85

ARAYMOND PART NUMBER INDEX

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ARAYMOND, AROUND THE WORLD



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