

Below you will the current technological capabilities available at Tarmetec and also at our active subcontractors marked with [§].

Sheet metal preparation						
Process		Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Notes
Sheet laser cutting		3000	1500	20	800	Stainless steel, steel, aluminum, copper
	<i>Sheet cutting[§]</i>	<i>TBD</i>		<i>50</i>	<i>TBD</i>	<i>Plasma, Gas, laser cutting different dimensions and thickness</i>
Sheet bending		TBD	3000	TBD	TBD	Force up to 200t
	<i>Sheet Bending[§]</i>	<i>TBD</i>				
De-burring	Machine	n/a	1070	90	<60	Radius up to 0.5mm
	Manual	n/a				
Vibratory finish		25-250	25-250	25-50	<60	Only for stainless steel
Stamping, rolling		TBD				Up to 1000T presses

Additional capability: Flow drilling, threading, stud pressing etc.

TBD - Limitations are dependent on the unique features of the product and need to be specified individually.

Tube preparation							
Process		Length (mm)	Width (mm)	Thickness (mm)	Weight (kg)	Diam. Ø (mm)	Notes
Tube laser cutting		4500	150	8	<130	>150	Stainless steel, steel, aluminum, copper
	<i>Tube laser cutting[§]</i>	<i>TBD</i>				<i>>350</i>	
Tube bending		TBD				10-76	Also available for square tubes
	<i>Rod bendings[§]</i>	<i>TBD</i>				<i><10</i>	
Tube rolling		TBD				15-60	CLR starting from 250
Tube end preparation		TBD				30-80	Widening and compressing tube ends and also bead pressing
De-burring	Manual	n/a				up to 200	
Mechanical grinding, polishing	Machine	TBD				5-110	For bended pipes CLR needs to be larger than 150mm
	Manual	n/a					

Additional capability: Flow drilling, threading etc.

TBD - Limitations are dependent on the unique features of the product and need to be specified individually.

Welding						
Process		Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Notes
TIG welding		n/a				
MIG/MAG welding		n/a				
TIG robot welding		1250	800	800	<250	
MIG/MAG robot welding		5000	1600	1800	<1500	
<i>Laser welding^s</i>		n/a				
<i>Laser robot welding^s</i>		n/a				
Orbital welding		1800	n/a		<100	Diameter up to 460mm
Stud welding		n/a				M3-M8 for inside/outside threads.
Passivation	Machine	n/a				With acid
	Manual	n/a				With electrical brush

TBD - Limitations are dependent on the unique features of the product and need to be specified individually.

Machining							
Process		Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Diam. Ø (mm)	Notes
Milling		1500	700	500	<800	n/a	
<i>Milling^s</i>		TBD					
Turning		600	TBD			<350	
<i>Turning^s</i>		TBD					
Wire cutting machine (EDM)		600	400	350	<400	n/a	

TBD - Limitations are dependent on the unique features of the product and need to be specified individually.

Surface treatment						
Process		Length (mm)	Width (mm)	Height (mm)	Weight (kg)	Notes
Machine grinding, polishing		2700	1500	1300	<50	Possible surface condition grinded, brushed, polished.
Powder coating		3000	1500	2000	<500	
Wet painting		3000	1500	1900	<500	
Metal bead blasting		1400	1400	2100	<800	Steel and stainless steel.
	<i>Glass bead blasting^s</i>	<i>TBD</i>				<i>Aluminum, stainless steel</i>
	<i>Sand blasting^s</i>	<i>TBD</i>				<i>Steel</i>
Electro polishing		4000	1000	900	<150	Only possible for AISI 304 and AISI 316 material.
Rilsan coating		800	500	500	<20	
Pickling		2800	900	900	n/a	Only possible for AISI 304 and AISI 316 material.
Laser marking (area)		n/a	n/a	<1000	n/a	From light gray to black for area 175x175mm
<i>Hot dip galvanizing^s, Zinc Electroplating^s, Anodizing^s, Passivating^s, KTL coating^s, Screen printing^s</i>						

TBD - Limitations are dependent on the unique features of the product and need to be specified individually.

Assembling and quality	
Process	Notes
Mechanical and electrical assembly	All types of assemblies from mechanical to electrical assemblies on ESD area. Programming, testing etc.
Hydraulically and pneumatical assembly	Installation, adjusting and testing
Laser scanning	Possible to scan product to compare results or use for modeling
Quality control	Quality control in measurement laboratory with manual or CNC measuring machine. Product based controls, VT2 etc.
Cleaning, packing	Cleaning and packing with different methods for bulk package to custom specifies end product package.
	<i>Packing solutions^s</i> <i>Wood/ carboard packing solutions according to drawings and needs</i>
	<i>Electrical solutions^s</i> <i>Different type of cabling and electrical components according to drawings</i>

Product development	
Process	Notes
Product development	3D design, preparing, controlling and testing for samples
Tools building	Desing, development and manufacturing different type of jigs, welding fixtures, stamp tooling etc.
	<i>Casting^s</i> <i>Different type of casting + tooling's for steel, stainless steel, plastic</i>