

2 Industry Electric- and cordless tools





# The right innovation for every industry

Professional sheet metal fabricators in many industries around the world rely on user-friendly power and battery tools by TRUMPF. Our products convince not only by their high quality "made in Switzerland", but also by the latest technology. As the world's leading manufacturer of manufacturing technology, TRUMPF stands for innovation on a high level. Benefit from our cross-industry application know-how in the field of power tools.

Electric- and cordless tools Industry 3





### Steel and metal construction

Easily achieve true-to-size and visually appealing results in steel and metal construction: With our deburrers and the TRUMPF bevellers you can prepare components with clean visible edges, remove burrs cleanly and thoroughly and prepare materials for painting & galvanizing or prepare weld seams.

## Roof and building envelope

Reduce physical strain when working on the roof and on the facade with ergonomic, optimally balanced tools. With the TRUMPF nibblers, slitting shears, shears and the panel cutter, you can cut easily and accurately.

#### **Automotive plants**

Do you rightly aspire to use products flexibly from batch size one or more and up to process project-specific components? Use the TRUMPF deburrers, e.g. to create weld seams to contours.

## Container and machinery construction

Water tightness is a basic prerequisite in the construction of tanks or containers. With the TRUMPF beveller you can save a lot of time and money, since you get safe, high-quality seams without reworking.

## Heating / ventilation / air conditioning

In the field of heating, air conditioning and ventilation, you can work quickly, precisely and with consistently high quality even in inaccessible places. Thereby use our shears, slitting shears, seam lockers and power fasteners, without the requirements of hot works permits.

#### Tank removal / demolition / disassembly

TRUMPF has developed its demolition nibbler specially for continuous use in dismantling and disassembly works. This allows you to safely and reliably separate sheet metal thicknesses up to 10 mm – without emissions and flying sparks.

# Processes and product groups



Electric- and cordless tools Applications

# Product groups and applications

PRO	ODUCT GROUPS	С	S	N	PN	ТРС	F	TF	TKA	TKF	DD HD ID	FCN	TSC
7	Chamfering												
ō	Slat cleaning												
APPLICATION	Make notches												
$\stackrel{\hookrightarrow}{\vdash}$	Process containers and tanks	-	-										
РР	Trimming												
4	Cutting fiber composite materials												
	C-L-U profile cutting												
	Make coils cuts												
	Cut flat sheet metal												
	Secure flanges												
	Interior cutouts												
	Close ducts	-		-									
	Cut ducts												
	Deburr edges												
	Prepare edges for painting / galvanizing												
	Process plastic materials												
	Cut manholes												
	Sandwich panels	-	-	-									
	Windows / doors / interior cutouts												
	Cut sandwich panels												
	Close fan housings												
	Cuts over splays, doubled												
	sheet metals and weld seams	.	.		l								
	Screwing & drilling		.										
	Weld seam preparation												
	Create visible edges												
	Drilling in steel												
	Front edge milling												
	Joining parts												
	Cut trapezoidal sheet metal												
	Cut corrugated sheet metal												
	Cut spiral ducts												
	Close angle and standing seams												
	Container and machinery construction												
ELD	Roof and building envelope												
뿐	Automotive plants												
	Heating / ventilation / air conditioning												
	Aerospace												
	Machine construction												
	Steel and metal construction												
	Sport industrie												
	Tank removal / demolition / disassembly												
	iank removary demontions disassembly				1								

Cutting – Slitting shears Electric- and cordless tools 6

Slitting shears









TruTool C 160 TruTool C 160 with chip clipper

TruTool C 250 with chip clipper

Technical data						
Slitting shears TruTool			50 / * n chip clipper		C 250 ** with chip clipper	
		Cutter straight	Cutter CR	Cutter straigt	Cutter CR	Cutter SC
		1–1.6 mm	0.5-1.2 mm	1.5-2.5 mm	0.5-1.5 mm	
Max. sheet thickness						
Steel 400 N/mm²	mm	1.6		2.5		
Steel 600 N/mm²	mm		1.2		1.5	
Aluminium 250 N/mm²	mm	2		3		
Spiral ducts 400 steel N/mm²	mm		4 x 0.6			4 x 0.9 / 6 x 0.6
Spiral ducts 600 steel N/mm²	mm					4 x 0.6
Working speed	m/min	6-10	6-10	3-10	3-10	3-10
Min. start hole diameter	mm	15	15	22	20	18
Smallest radius	mm	90	160	100	100	150
Rated input power	W	350	350	550	550	550
Weight without cable	kg	1.4	1.4	2	2	2

 $<sup>^{\</sup>star}$   $\,$  More cutters available: Cutter straight up to 1 mm. Curve cutter up to 1 mm

<sup>\*\*</sup> More cutters available: Cutter straight 0.5–1.5 mm. Curve cutter up to 1.5 mm

7



#### **Battery**







Technical data										
Slitting shears TruTool		chip o	160 * with lipper tery 10.8 V	Li	C 200 ** -lon battery 1	B V	C 250 ** with chip clipper Li-lon battery 18 V			
		Cutter straight	Cutter CR	Cutter straight	Cutter CR	Cutter SC	Cutter straight	Cutter CR	Cutter SC	
		1–1.6 mm	0.5-1.2 mm	1.5 –2 mm	0.5-1.5 mm	2 mm	1.5 –2.5 mm	0.5-1.5 mm		
Max. sheet thickness										
Steel 400 N/mm²	mm	1.6		1.5 – 2			2.5			
Steel 600 N/mm²	mm		1.2		1.5			1.5		
Aluminium 250 N/mm²	mm	2		3			3			
Spiral ducts 400 steel N/mm <sup>2</sup>	mm		4 x 0.6			4 x 0.9 / 6 x 0.6			4 x 0.9 / 6 x 0.6	
Spiral ducts 600 steel N/mm <sup>2</sup>	mm					4 x 0.6			4 x 0.6	
Working speed	m/min	5 – 9	5 – 9	3-12	3 –10	3 – 12	3 – 10	3 – 10	3 – 10	
Min. start hole diameter	mm	15	15	20	18	8	22	20	18	
Smallest radius	mm	90	160	80	80	80	100	100	150	
Voltage	V	10.8	10.8	18	18	18	18	18	18	
Weight (with 2 Ah )	kg	1.4	1.4	2.3	2.3	2.3	2.3	2.3	2.3	
Weight (with 4 Ah)	kg	1.6	1.6	2.6	2.6	2.6	2.6	2.6	2.6	

<sup>\*</sup> More cutters available: Cutter straight up to 1 mm. Curve cutter up to 1 mm \*\* More cutters available: Cutter straight 0.5-1.5 mm. Curve cutter up to 1.5 mm

8 Cutting – Shears Electric- and cordless tools

Shears



- Chip-free cutting
- Clear view of the work surface and cutting line
- Best possible flexibility in curves
- Fast, precise cutting, even in overhead position
- Minimum force required thanks to optimum cutting geometry













TruTool S 160

TruTool S 350





U/min

TruTool S 450

TruTool S 114 battery 10.8 V



TruTool S 160 battery 10.8 V







TruTool S 250 battery 18 V

Technical data								
Shears TruTool		S 160	S 250	S 350	S 450	S 114 Li-lon battery 10.8 V	S 160 Li-lon battery 10.8 V	S 250 Li-lon battery 18 V
Max. sheet thickness								
Steel 400 N/mm²	mm	1.6	2.5	3.5	4.5	1.6	1.6	2.5
Steel 600 N/mm²	mm	1.2	2	3	3.5	1	1.2	2
Steel 800 N/mm²	mm	1	1.5	2	2.5			1.5
Aluminium 250 N/mm²	mm	2	3	4	5	2	2	3
Spiral ducts steel 400 N/mm²	mm					4 x 0.75		
Spiral ducts steel 600 N/mm <sup>2</sup>	mm					4 x 0,5		
Working speed	m / min	8 –12	4 -7	4-6	4-6	6 –13	5-9	4 – 7
Min. start hole diameter	mm	27	28	50	75		27	28
Smallest radius	mm	15	20	R 30 / L 16	R 35 / L 25	60	15	20
Minimal tube diameter	mm					50		
Throat depths	mm					30		
Rated input power	W	350	550	1400	1400			
Voltage	V					10.8	10.8	18
Weight without cable	kg	1.6	2.2	5.6	6.2			
Weight (with 2 Ah )	kg					1.7	1.6	2.5
Weight (with 4 Ah)	kg					1.9	1.8	2.8



Cutting without feed force

Electric- and cordless tools

- Clear view of the work surface
- Hollow round punch for the greatest manoeuvrability
- Rectangular punch for the highest level of profile flexibility



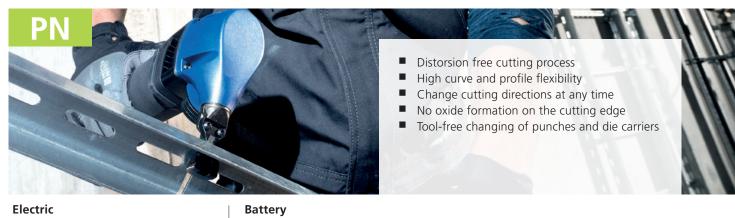






TruTool N 200 battery 18 V

Technical data												
Nibbler		N 160	N 200	N 350	N 500	N 700	N 1000		N 160	N 200		
TruTool							1 <sup>st</sup> gear	2 <sup>nd</sup> gear	Li-lon- battery 10.8 V	Li-lon- battery 18 V		
Max. sheet thickness												
Steel 400 N/mm²	mm	1.6	2	3.5	5	7	10	8	1.6	2		
Steel 600 N/mm²	mm	1	1.5	2.3	3.2	5	7	5	1	1.5		
Steel 800 N/mm²	mm	0.7	1	1.8	2.5	3.5	5	4	0.7	1		
Aluminium 250 N/mm²	mm	2	2.5	3.5	7	10	12	10	2	2.5		
Working speed	m/min	2.4	1.7	1.4	1.5	1.3	1	1.6	1.9	1.3		
Min. start hole diameter	mm	22	17	30	41	50	75	75	22	17		
Smallest radius	mm	24	4	7	90	140	300	300	24	4		
Rated input power	W	350	550	1400	1400	1600	2600	2600				
Voltage	V								10.8	18		
Weight without cable	kg	1.5	1.8	3.7	4	8.3	14.7	14.7				
Weight (with 2 Ah)	kg								1.5	2		
Weight (with 4 Ah)	kg								1.6	2.3		







Technical data											
Profile nibblers TruTool	N 160 with extension	PN 200	PN 201	N 160 with extension Li-lon battery 10.8 V		PN 200 Li-Ion battery 18 V	PN 201 Li-lon battery 18 V				
Max. sheet thickness											
Steel 400 N/mm²	mm	1.6	2	2	1.6	1.3	2	2			
Steel 600 N/mm²	mm	1	1.5	1.5	1	0.8	1.5	1.5			
Steel 800 N/mm²	mm	0.7	1	1	0.7		1	1			
Aluminium 250 N/mm²	mm	2.0	3	3	2	2.0	3	3			
Working speed	m/min	2.4	2.1	2.2	1.9	2.5	1.6	1.6			
Min. start hole diameter	mm	22	24	24	22	15	24	24			
Smallest radius	mm	24	50	50	24	25	50	50			
Rated input power	W	350	550	550							
Voltage	V				10.8	10.8	18	18			
Weight without cable	kg	1.7	1.8	2							
Weight (with 2 Ah)	kg				1.7	1.4	2	2.2			
Weight (with 4 Ah)	kg				1.8	1.6	2.3	2.5			





Technical data										
Panel Cutter TruTool	TPC 165									
Max. panel thickness	mm	165								
Single sheet thickness for steel 400 N / mm <sup>2</sup>	mm	0.9								
Isolation material		Polyurethane, polyisocyanurate foam (PUR / PIR)								
Smallest possible opening created by piercing	mm	340 x 340								
Working speed	m/min	4								
Rated input power	W	1700								
Cutting width	mm	4								
Weight without cable	kg	9.6								

**12** Fastening – Seam lockers Electric- and cordless tools





- Closing Pittsburgh seam and automatic adjustement to sheet thickness (except TruTool F 125)
- Cost-effective seam closure, at the installation site
- Constant seaming result on straight and curved channels
- Quick, consistently tight seam closure
- Reduced-noise, vibration-free closing

#### **Electric**



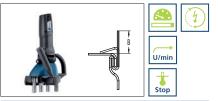
TruTool F 300



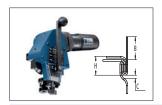
TruTool F 301



TruTool F 125



TruTool F 300 with 1400-W-motor

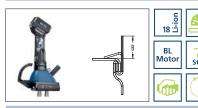


TruTool F 140

#### **Battery**



TruTool F 300 battery 18 V



TruTool F 301 battery 18 V

Seam lockers		F 300	F 300	F 301	F 140	F 125 *	F 300	F 301
TruTool			with 1400 W motor				Li-Ion battery 18 V	Li-lon battery 18 V
Max. sheet thickness								
Steel 400 N/mm² (min.)	mm	0.75	0.75	0.45			0.75	0.45
Steel 400 N/mm² (max.)	mm	1.25	1.25	1	1.4	1.25	1.25	1
Steel 600 N/mm² (max.)	mm				0.6			
Edge length (H)	mm				10-15	40		
Flange height (B):								
For sheet thickness 0.75–1	mm	9-11	9-11				9-11	
For sheet thickness >1-1.25	mm	11–13	11–13				11–13	
For sheet thickness 0.45-1	mm			8-11				8-11
For sheet thickness 0.6–1	mm				8-10			
For sheet thickness >1-1.4	mm				10-12			
Clearance (C)	mm				2.5			
Working speed	m / min	4-7	6.5-10.5	4-7	6-10	5-6	4-7	4-7
Smallest inner radius (preformed)	mm	150	150	150	300		150	150
Smallest outer radius	mm	300	300	300	500		300	300
Rated input power	W	550	1400	550	550	550		
Voltage	V						18	18
Weight without cable	kg	5.4	6.5	5.2	4.2	2.8		
Weight (with 2 Ah)	kg						5.8	5.5
Weight (with 4 Ah)	kg						6.0	5.9

<sup>\*</sup> Max. seam thickness: 5 mm

- For strong, resistant and corrosion-resistant joints in one operation
- Replaces fasteners such as rivets and screws
- Unbeatably fast process
- Joining of different materials, as well as coated and uncoated workpieces
- Minimal setup time





#### **Battery**



TruTool	TF 350	battery	18 V
---------	--------	---------	------

Technical data									
Power fasteners TruTool		TF 350	TF 350 Li-lon battery 18 V						
Max. sheet thickness									
Steel 400 N/mm²	mm	3.5	3.5						
Steel 600 N/mm²	mm	2.5	2.5						
Aluminium 250 N/mm²	mm	4	4						
Minimum sheet thickness	mm	0.8	0.8						
Maximum locking power	kN	25	25						
Max. stroke power	1/s	2	2						
Edge distance minimum	mm	8	8						
Edge distance maximum	mm	58	58						
Straight flange height maximum	mm	36	36						
Rated input power	W	1400							
Voltage	V		18						
Weight without cable	kg	8.3							
Weight (with 2 Ah)	kg		7.8						
Weight (with 4 Ah)	kg		8.1						

**14** Bevelling – Deburrers Electric- and cordless tools

**Deburrers** 



■ Fast, emission-free process

TruTool

- Clean, oxide-free edge surfaces
- Accurate, constant edge quality in one step
- Tool-free and quick adjustment of the bevel height
- For chamfers with 0° and 15° 60° (in increments of 5°). Apply round edges with 2, 3 or 4 mm radii.

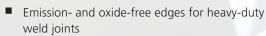
#### Electric





TruTool TKA 1500

Deburrer			TKA 500							TKA	1500		
TruTool													
Bevel angles			0°	4	45°		60°		0°	45°		60°	
Max. bevel length (ls)		ls	hs	ls	hs	ls	hs	ls	hs	ls	hs	ls	hs
Max. bevel height (hs)													
Steel 400 N/mm²	mm	7,0	6,1	7,0	4,9	7,0	3,5	15	13	15	10,6	15	7,5
Steel 600 N/mm²	mm	3,7	3,1	3,7	2,5	3,7	1,8	12	10,4	12	8,5	12	6
Steel 800 N/mm²	mm	2,3	1,8	2,3	1,6	2,3	1,1	10	8,7	10	7,1	10	5
Aluminium 250 N/mm²	mm	10	6,5	10	6,4	10	5	15	13	15	10,6	15	7,5
Min. sheet thickness	mm			1,5	+ hs					3 +	- hs		
Smallest inner radius	mm			1	8					3	80		
Smallest hole diameter	mm		35					5	55				
Working speed	m/min	3 – 4					1-	1,5					
Rated input power	W	1400				2600							
Weight without cable	kg		3,5			10							



- Welding seam preparation in a single step, no reworking
- High working speed
- Various angle adjustments
- Tool-free change of cutting tools









TruTool TKF 1500 with 2 speed

	Quick & Stop		4x Stop
TruTool TKF 1100/1101		TruTool TKF 1500	

Technical data												
Bevellers TruTool		TKF 700		TKF 1100 / TKF 1101		TKF 1500		TKF 1500 with 2 speed				
Bevel angles	l angles		30° 37.5° 45°		30° 37.5° 45°		20°-45° *20°-55°		20°-45° *20°-55°		20°-45° *20°-55°	
								1st gear		2 <sup>nd</sup> gear		
Max. bevel length (ls) Max. bevel height (hs)		ls	hs	ls	hs	ls	hs	ls	hs	ls	hs	
Steel 400 N/mm²	mm	7	5.0	11	7.8	15	10.6	15	10.6	15	10.6	
Steel 600 N/mm²	mm	5.7	4.0	9	6.4	9	6.4	11	7.8	9	6.4	
Steel 800 N/mm²	mm	4	3.0	6	4.2	6	4.2	9	6.4	6	4.2	
Sheet thickness	mm	1-	-20	3-	3-25 4-160 4-160 4-		4-	160				
Smallest inner radius	mm	40 40 55 55		5	55							
Working speed	m/min	1.5		2		2		1.25		2		
Rated input power	W	1400		1600		2000		2000		2000		
Weight without cable	kg	5.4			10	16.5		19.5		19.5		

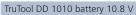
<sup>\*</sup> Bevel length (ls) for all bevel angles. Bevel height (hs) for  $45^{\circ}$ 

<sup>\*\*</sup> Bevel angles with special stripper



#### **Cordless tool**





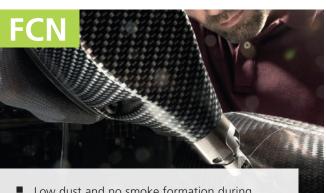


TruTool HD 1813 battery 18 V



TruTool ID 1861 battery 18 V

Technical data					
Drill driver / Hammer drill / Impact driver TruTool		DD 1010 Li-lon battery 10.8 V	DD 1813 Li-lon battery 18 V	HD 1813 Li-lon battery 18 V	ID 1861 Li-lon battery 18 V
Gears		2	2	2	
Chuck					hexagon socket 1/4"
Quick-action drill chuck	mm	10	13	13	
Max. drill performance Ø steel	mm	8	13	13	
Max. drill performance Ø wood	mm	20	32	32	
Max. drill performance Ø masonry	mm			13	
Max. screw-Ø	mm				M 18
Torque settings		17 + drilling	15 + drilling	21 + drilling + screwing	3
Max. torque (soft / hard)	Nm	15/30	25 / 56.5	25 / 56.5	
Torque (1st / 2nd / 3rd level)	Nm				50 / 90 / 155
Idle speed (1st / 2nd gear)	1/min	440/1450	0 - 560 / 0 - 1900	0 - 560 / 0 - 1900	
Idle speed (1st / 2nd / 3rd level)	1/min				0 - 1200 / 0 - 1800 / 0 - 2500
Voltage	V	10.8	18	18	18
Weight (with 2 Ah)	kg	1.1	1.6	1.7	1.4
Weight (with 4 Ah)	kg	1.3			
Weight (with 5 Ah)	kg		1.9	2	1.7



- Low dust and no smoke formation during
- Perfect cutting edge, without delamination and fraying
- Precise work, clear view of the cutting line
- Cuts all common fiber composite materials, even aramid



- Repeated cleaning of support slats possible
- Suitable for various materials, including stainless
- Simultaneous cleaning on flatbed laser machines with pallet changer
- Can be operated by one person

Fiber composite nibbler



#### Electric



Technical data					
Fiber composite nibbler TruTool		FCN 250			
Max. material thickness CFRP / GFRP / AFRP	mm	2.5			
Start hole diameter	mm	17			
Smallest radius	mm	4.3			
Working speed up to	m / min	1.9			
Rated input power	W	550			
Weight without cable	kg	1.8			

* CFRP = carbon-fiber-reinforced	plastic / GFRP :	= glass-fiber-reinforced	plastic /
AFRP = aramid-fiber-reinforced	plastic		

Technical data				
Slat cleaner TruTool		TSC 100		
Support slat thickness	mm	2 - 3.9		
Max. slag thickness	mm	25		
Min. spacing between support slags	mm	33.5		
Working speed	m/min	4 - 8		
Rated input power	W	1400		
Weight without cable	kg	18.4		

18 Product overview Electric- and cordless tools

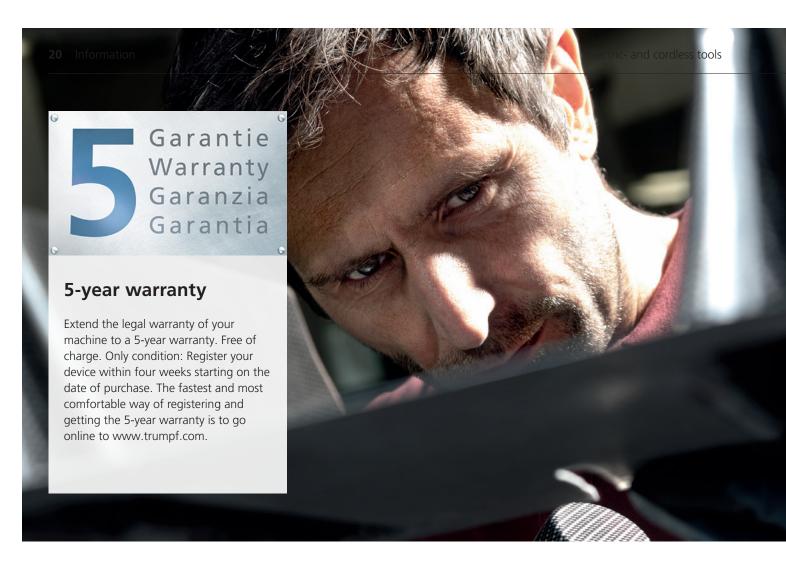
## Product overview



Electric- and cordless tools Product overview 19

## Product overview





#### Legend

You can find the symbols on the machine pages



#### Li-Ion Technologie

Battery-powered machines with 10.8 V drive.



#### Li-Ion Technologie

Battery-powered machines with 18 V drive.



#### **Brushless motor**

Low-wear and tear motor for maximum longevity.



#### Quick & Easy

Quick and easy tool change.



#### Several times rotatable

The cutters can be turned twice and ensure a long service life.



#### Several times rotatable

The cutters can be turned 4 times and ensure a long service life.



#### Turnable and regrindable several times

Cutting tools up to 2-fold turnable and regrindable. For long service life.



#### Turnable and regrindable several times

Cutting tools up to 4-fold turnable and regrindable. For long service life.



#### Low-vibration

Minimal vibration values and highest user friendliness.



#### Rotating punch

Ensures regular wear and long service life.



#### Light-weight

Low machine weight for low-fatigue work.



#### Integrated lubrication

For a constant cutting quality and long tool service life.



#### Quick-acting brake

Safe working due to fast tool stop.



#### Softgrip

Ensures optimum and convenient machine control and minimizes vibration.



#### Speed governor

Adjustable speed for material-specific working and perfect results (only for 230 V machines).



#### Smooth start

Ergonomic work through smooth starting.



#### Overload protection

Protects the motor from over-heating.



#### Restart protection

Prevents unwanted starting after power interruptions.



#### Optimum protection

Avoidance of hazardous dust.

Electric- and cordless tools Your partner 21

## Our drive: Passion

Whether production and manufacturing technology, laser technology or material processing: We develop highly innovative products and services that are industrial quality and proven absolutely reliable. We give it our all to achieve competitive advantages for you: Know-how and experience.





#### Lasers for manufacturing technology

Whether macro, micro or nano: We have the right lasers and the right technology that is innovative and at the same time cost-efficient for every production application. Beyond the technology, we provide you with system solutions, application knowledge and consulting.



#### Power supplies for high tech processes

From semiconductor manufacturing to solar cell production: With our high and medium frequency generators, power for induction heating and plasma and laser excitation receives a defined form consisting of frequency and power – that is highly reliable and repeatable.



#### Machine tools for flexible sheet metal- and tube processing

Laser cutting, punching, bending, laser welding: For all processes in flexible sheet metal production, we offer you precisely tailored machines and automation solutions, including consulting, software and services – so you can reliably produce your products in high quality.



#### Power tools for metal processing

Cutting, fastening, bevelling: Our power tools offer the most innovative technology and the highest quality. Original accessories and a free 5-year warranty provide extra security. Whether on construction sites or in job shopes: High-quality and long-lasting machines are our quality promise.



#### Industry 4.0

The solutions world TruConnect connects man and machine through information. It covers all steps in the manufacturing process – from quote to the shipment of parts.

