

Operating Instructions for the WEIDMANN Type WP-Junior Piercing Press with table





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Content

The purpose of these operating instructions
General safety information and general safety instructions2
Description of the piercing press2
Intended use2
Important information about the piercing press2
Transport, handling and storage of the piercing press and/or components
Putting into operation4
Setting up6
Tool fixing6
Operating the press (production)7
Cleaning
Maintenance8
Replacing the Teflon brake disk8
Production stoppage9
Malfunction of the piercing press9
Taking out of service9
Disposal9
CE Conformity Declaration10
Dimension Diagram (Layout/Plan View)11
Drawing of Punch Insert12
Illustration of all Parts/Replacement Parts13
Datasheet for HSA Anchor Fixings by Hilti14

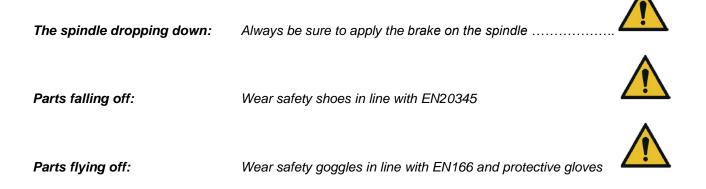
The purpose of these operating instructions

These operating instructions must be retained for the entire service life of the piercing press and must be observed whenever any activities are undertaken in connection with the piercing press.

If you sell the piercing press on to a third party, you must hand these operating instructions over to the purchaser concerned.

General safety information and general safety instructions

You may be exposed to the risks set out below whenever you use the piercing press, and you must therefore take the following protective measures:



Description of the piercing press

Mechanical piercing press, manually operated.

The manufacturer rejects all liabilities for any defects that may arise as a result of any modification that may have been made to the piercing press without the written approval of the manufacturer.

Intended use

This press is intended for use by adults within indoor spaces in trading and industrial premises.

These presses can be used for all pressing-in and pressing-out operations, at pressure forces of up to 1.5 tonnes. The press is also suitable for the following tasks: broaching, straightening, pressing, bending, riveting, embossing, stamping and assembly tasks.

The following are examples of improper use: splitting wood and the simultaneous operation of the hand wheel by more than one person.

Only those people who have read the necessary information within the operating instructions may work with the press, or interfere with the press or its operation.

Important information about the piercing press

The piercing press is constructed in line with the current status of technology and meets the requirements of the Swiss Federal Law on Product Safety, as well as the Swiss Ordinance on Product Safety.

Dimension Diagram (Layout/Plan view), see Page 11

Drawing of Punch Insert, see Page 12

Illustration of All Parts /Replacement Parts, see Page 13

Datasheet for HSA Stud Anchors by Hilti, see Pages 14/15

Transport, handling and storage of the piercing press and/or components

The following people may be involved in these procedures: third parties; mechanics; transport agents

The following procedure must be adopted during transport of the piercing press:

- Prepare a small pallet 80x60cm and 1 wooden batten, measuring 260 mm ٠
- Use straps to secure the vertical piercing press at the press head. See "Dimension Diagram" on Page ٠ 11.
- Lift the piercing press

Risk caused by gravitational force Check strap for damage and carrying capacity. The weight of the piercing press is set out in the "Dimension Diagram" on Page 11.

Suspend the strap from the crane hook in accordance with the instructions

Secure the strap in accordance with the "Dimension Diagram" on Page 11

- ٠ Use a crane to position the piercing press in the centre of the pallet
- Use the hand wheel (ring or star-shaped hand wheel) to lift the press spindle all the way to the top ٠
- Lay the wooden batten transversely across the press table and secure to the pallet with a steel strap

Risk of the steel straps flying off into a person's eyes and when they are cut Wear protective glasses in accordance with EN166

Wear protective gloves

Move the press spindle completely to its lowest position and apply the spindle brake

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

- Pack the piercing press ٠
- Use a pallet truck to transport the pallet, in accordance with instructions ٠
- Unload the piercing press from the pallet: see section on "Putting into operation" on page 4 ٠







The following procedure must be adopted when you transport the table:

- Prepare a small pallet 80x60 cm and 1 wooden batten, measuring 520 mm ٠
- Use 2 straps positioned diagonally on the table plate to secure the table in a vertical position. See ٠ Dimension Diagram on Page 11.
- ٠ Lift the table

Risk caused by gravitational force Check strap for damage and carrying capacity. The weight of the table is set out in the "Dimension Diagram" on Page 11.

Suspend the strap from the crane hook in accordance with the instructions

Secure the strap in accordance with the "Dimension Diagram" on Page 11

- Use a crane to position the table in the centre of the pallet ٠
- Lay the wooden batten horizontally over the tray (below) and secure to the pallet with a steel strap. ٠

Risk of the steel straps flying off into a person's eyes and when they are cut Wear protective glasses in accordance with EN166

Wear protective gloves

- Pack the table ٠
- Use a pallet lifting truck to transport the pallet ٠
- Unload the table from the pallet: see section on bringing into service on Page 4 ٠

Putting into operation

This operation may be undertaken by: third parties; mechanics

The following procedure must be adopted when the equipment is first put into service:

Cut off the steel straps

Risk of the steel straps flying off into a person's eyes and when they are cut Wear protective glasses in accordance with EN166

Wear protective gloves

- Unpack the press and table ٠
- Use 2 straps to secure the vertical table diagonally in a vertical position by the table plate, see ٠ Dimension Diagram on Page 11.







purpose

Loosen the belt

Locate the rotary table in the indentation provided in the table plate ٠

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

Use the screws delivered with the press to secure it to the table at the 4 fixing holes intended for this

www.suva.ch/88190.d. Use lifting gear if necessary.

Operating Instructions for the type WP Junior Piercing Press with table

- Use Hilti HSA M12 stud anchors to secure the table in the holes in the floor drilled for this purpose (see ٠ Datasheet on Page 14/15).
- Check whether the spindle brake is applied; if not, apply it now ٠
- Use straps to secure the vertical piercing press at the press head. See "Dimension Diagram" ٠ on Page 11.
- Lift the piercing press and position it on the table, which is already anchored to the floor ٠

Risk caused by gravitational force

Check strap for damage and carrying capacity. The weight of the piercing press is set out in the "Dimension Diagram" on Page 11.

Suspend the strap from the crane hook in accordance with the instructions

Secure the strap in accordance with the "Dimension Diagram" on Page 11

Set up the piercing press where you can ensure the necessary free space is available (see the "Dimension diagram" on Page 11).

Please note that there must also be enough ambient lighting to carry out the work.

- Secure the strap in accordance with the "Dimension Diagram" on Page 11
- Use a crane to position the table at the intended location and loosen the belt ٠

Risk caused by gravitational force / risk of tipping over

Set the table only on a base surface that is clean and even so that the base surface is suitable for the Hilti HSA stud anchors

Lift the table ٠

Risk caused by gravitational force

Check strap for damage and carrying capacity. The weight of the table is set out in the "Dimension Diagram" on Page 11.

Suspend the strap from the crane hook in accordance with the instructions





Setting up

This operation may be undertaken by: users; third parties; mechanics

The following method must be used for setting up:

Check whether the spindle brake is applied; if not, apply it now

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

Apply the spindle brake

- Rotate the rotary table to the required slot width
- Remove the rotary table if it is not in use

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.

Tool fixing

- Hold the insert punch/tool underneath on the press spindle
- Loosen the clamping screw on the press spindle
- Remove the insert punch/tool
- Insert the insert punch/tool
- Use the clamping screw on the press spindle to secure the insert punch/tool

Risk caused by falling objects

Any insert punches/tools not fabricated by the manufacturer must be manufactured in accordance with the drawing of the insert punch on Page 12.

If the insert punch/tool is loose, tighten the clamping screw.







This operation may be undertaken by: users; third parties; mechanics

Operating the press (production)

At the operational stage (production), the procedure below must be followed:

Take the workpiece and place it upon the rotary table or table plate

Risk caused by incorrect loading

For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.

- Take the insert and place it in the intended location on the workpiece
- Use the hand wheel (ring or star-shaped hand wheel) to move the press spindle onto the workpiece

Risk of crushing

- Apply the spindle brake
- The press spindle may only be moved if no part of the body is within the area of risk

Do not place your hands within the area of risk caused by the spindle

- The press spindle presses on the workpiece
- Use the press spindle to press the workpiece at the required position
- Raise the press spindle
- Remove the workpiece

Risk caused by incorrect loading For workpieces weighing more than 5 kg, use the following method to evaluate the handling method:

www.suva.ch/88190.d. Use lifting gear if necessary.









Cleaning

This operation may be undertaken by: users; third parties

Cleaning tasks must be carried out as follows:

• Use a cleaning cloth to clean the press spindle on a weekly basis

Maintenance

This operation may be undertaken by: third parties; mechanics

Maintenance tasks must be carried out as follows:

- Use slideway oil to lubricate the press spindle on a weekly basis
- Use a universal grease to lubricate the grease nipple on the drive mechanism every 6 months
- Check the Teflon brake disk on the hand wheel every year and replace as necessary

Replacing the Teflon brake disk

Only original replacement parts may be used for this procedure (Order no.: Teflon brake disk).

• Lower the press spindle onto the table plate

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

Apply the spindle brake

- Remove the plate washer and spacing washer
- Remove the hand wheel
- Remove the slot key
- Remove the Teflon brake disc and replace with a new brake disc
- Insert the slot key
- Mount the hand wheel
- Fit the galvanised spacing washer
- Fit the black plate washer with the indentation onto the hand wheel
- Fit and tighten the star handle in the centre of the hand wheel



Production stoppage

This operation may be undertaken by: third parties; mechanics

The following procedure must be used in the event of production stoppages:

- Rotary table (slot width) in the wrong position: turn to the correct position as necessary
- Foreign body between table plate and workpiece: remove foreign body as necessary

Malfunction of the piercing press

This operation may be undertaken by: third parties; mechanics

The following procedure must be used in the event of a malfunction of the piercing press:

• The press spindle lowers of its own accord: apply the spindle brake

Taking out of service

This operation may be undertaken by: third parties; mechanics

The following procedure must be used to take the equipment out of service:

- Raise the rotary table and lift it out of the centring hole on the table
- Move the press spindle completely to its lowest position and apply the spindle brake

Risk of crushing

Do not place your hands within the area of risk caused by the spindle

- Loosen the screws in the holes fixing the press to the table
- Use a crane to lay the piercing press on a pallet (see Transportation operating mode on Page 3)
- Loosen the Hilti HSA anchor fixings on the floor surface
- Use a crane to lay the table on a pallet (see Transportation operating mode on Page 3)

Disposal

This operation may be undertaken by: third parties; mechanics; transportation providers, disposal specialists

The following procedure must be used for disposal of the equipment:

- Remove oil and grease
- Dismantle plastic components and dispose of them correctly
- Dispose of metal components correctly



CE Conformity Declaration

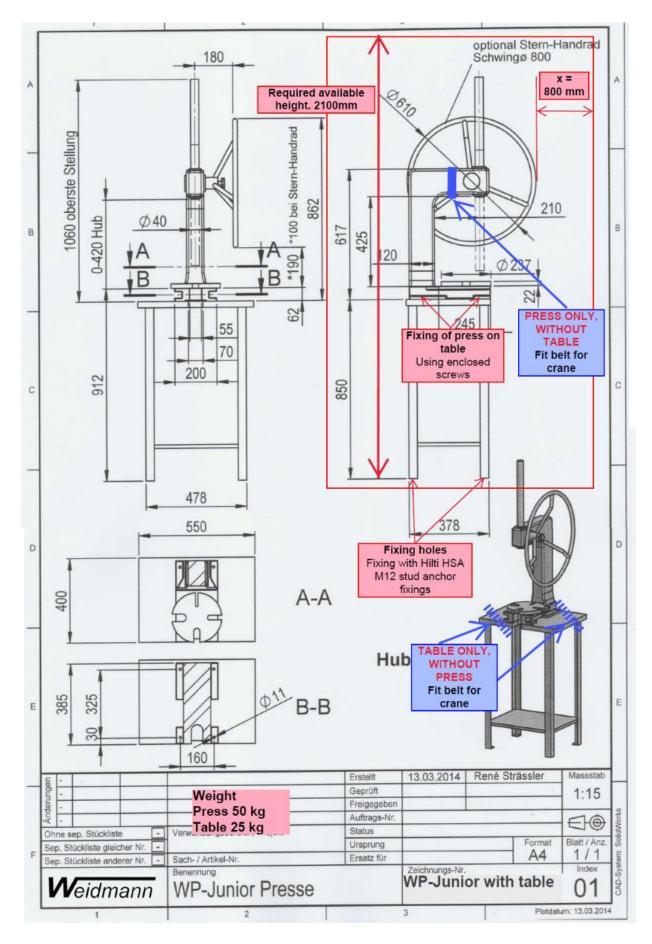
We hereby declare that we **may not attach any CE label** to our piercing presses, since these presses are operated solely by human effort and do not include any lifting procedures. As a result, they do not fall within the scope of EU Machinery Directive 2006/42/EC.

Extract from EU Machinery Directive 2006/42/EC

Within the meaning of Article 1 of the Machinery Directive, machines must, according to Article 2 of the Machinery Directive, exhibit one of the following characteristics in respect of their drive systems:

- an assembly, fitted with or intended to be fitted with a drive system other than directly applied human or animal effort, consisting of linked parts or components, at least one of which moves, and which are joined together for a specific application
- an assembly of linked parts or components, at least one of which moves and which are joined together, intended for lifting loads and whose only power source is directly applied human effort.

Dimension Diagram (Layout/Plan View)



Drawing of Punch Insert

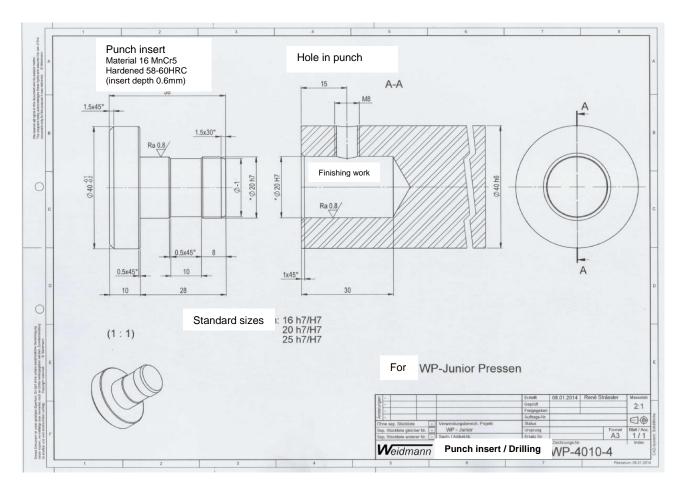
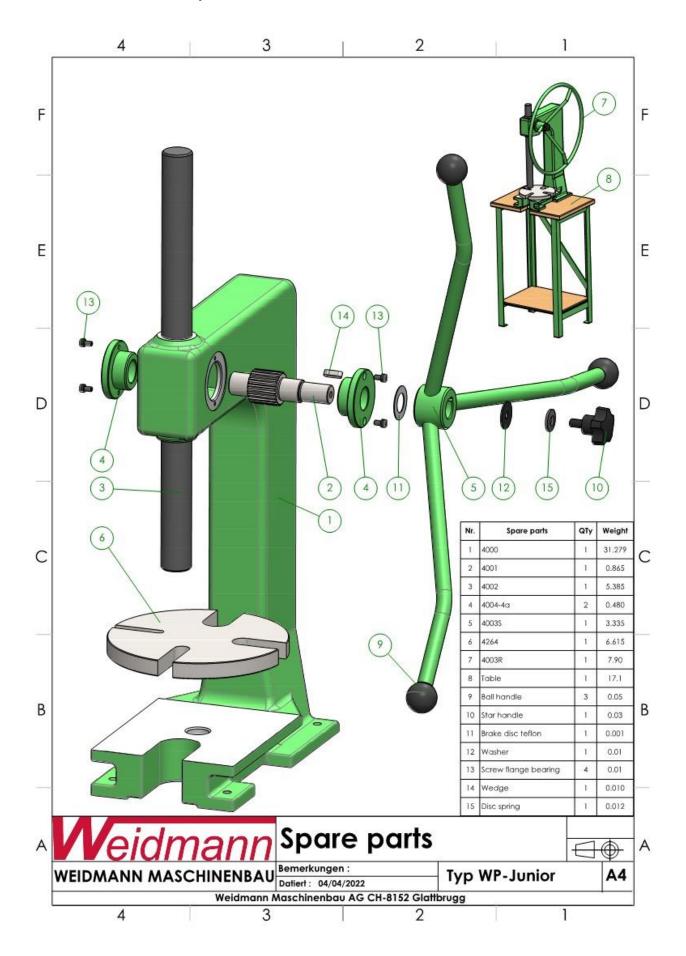
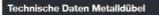


Illustration of all Parts/Replacement Parts







Segmentanker HSA





Zulassungen/Prüfberichte

Beschreibung	Behörde/Prüfstelle	Nummer	
Europäisch Technische Zulassung *	DIBt, Berlin	ETA-11/0374	
Brandschutzprüfbericht	IBMB, Braunschweig	3215/229/12	

Alle in diesem Abschnitt angegebenen Daten laut ETA-11/0374.

Lastdaten (für Einzelbefestigungen).

Alle Daten in diesem Abschnitt basieren auf folgenden Grundlagen:

- Korrekte Montage (siehe Montageanweisung).
- Kein Einfluss von Achs- und Randabständen.
- Einhaltung der Mindestbauteildicke.
- Ungerissener Beton C 20/25, f_{ck,cube} = 25 N/mm².

Geprüfte Befestigungen im vorbeugenden baulichen Brandschutz für Segmentanker HSA/HSA-R

Deliference		Geprüft nach der international genormten Einheitstemperaturkurve (ISO 834, DIN 4102-2)				
Prüfungen		Geprüft im gerissenen Beton bei direkter Beflammung ohne so	hützende Maßnahmen			
Bericht des IBMB Technische Universität Bra	unschweig Nr.	3049/8151				
		Maximale Lasten [kN] für geforderte Feuerwiderstandsdauer				
	90 min M6 0,3		120 min			
HSA	M6	0,3	0,25			
	M8	0,5	0,4			
	M10	1,3	1,0			
	M12	1,8	1,2			
	M16	4,0	3,0			
	M20	7,0	5,0			
HSA-R	M6	0,8	0,6			
Rost frei	M8	1,8	1,2			
\sim	M10	3,0	2,5			
	M12	4,0	3,0			
	M16	7,5	6,0			

Technische Daten für Segmentanker HSA/HSA-R

au	iszug aus den Anwendungsbedingungen de Zulassung	- Luiassung na	on Demessu	ngavenallien A (E	. n.u. rumex 0, 198	ETA-11/0374 v	om 19.07.2012		
	Verankerungsgrund								
	estankerungagrunu			Beton ≥ C20/25 (B25) HSA					
				M6	M8	M10	M12	M16	M20
	Bohrdurchmesser	d	[mm]	6	8	10	12	16	20
	Durchgangsbohrrung im Anbauteil			7	9	10	12	18	20
		d _f	[mm]	5	9	25	50	80	22
	Drehmoment beim Verankern	T _{inst} SW	[Nm]	10	13	17	19	24	30
	Schlüsselweite		[mm]	10	15	17	19	24	30
	Gerissener Beton mit reduzierter (hnomt) Verankerungstiefe: ¹⁰ Zulässige Zuglast je Dübel N _{zul} [kN] -								
	 Zulässige Zuglast je Dübel Zulässige Querlast je Dübel 	V _{zul}	[kN]	-	-	-	-	-	-
				-	-	-	-	-	-
	Ungerissener Beton mit reduzierter (hnor	· · · · · ·		2.0	10	6.4	0.5	10.6	45.0
	 ¹⁾ Zulässige Zuglast je Dübel ¹⁾ Zulässige Querlast je Dübel 	Nzul	[kN]	2,9	4,0	6,1	8,5	12,6	15,6
1	¹⁾ Zulässige Querlast je Dübel	V _{zul}	[kN]	3,7	4,0	10,8	16,9	29,1	31,2
	Gerissener/Ungerissener Beton mit redu				00	100	450	105	005
	4 Achsabstand	S _{cr}	[mm]	90	90	120	150	195	225
	4 Randabstand	Ccr	[mm]	45	45	60	75	97	113
	Minimaler Achsabstand	S _{min}	[mm]	35	35	50	70	90	195
	5) Minimaler Randabstand	C _{min}	[mm]	35	40	50	70	80	130
	Bohrlochtiefe	h _{nom1}	[cm]	4,2	4,4	5,5	7,2	8,5	9,8
	Mindestbauteildicke	h _{min}	[mm]	100	100	100	100	140	160
	Gerissener Beton mit Standard (hnom2) Ve	erankerungstie							
	¹⁾ Zulässige Zuglast je Dübel	Nzul	[kN]	-	-	-	-	-	-
	¹⁾ Zulässige Querlast je Dübel	V _{zul}	[kN]	-	-	-	-	-	-
	Ungerissener Beton mit Standard (h _{nom2})	Verankerungs	tiefe:						
	¹⁾ Zulässige Zuglast je Dübel	N _{zul}	[kN]	3,6	6,1	8,5	12,6	17,2	24,0
	¹⁾ Zulässige Querlast je Dübel	V _{zul}	[kN]	3,7	6,1	10,8	16,9	29,1	49,0
	Gerissener/Ungerissener Beton mit Star	ndard (hnom2) V	erankerungs	tiefe:					
	4) Achsabstand	Scr	[mm]	120	120	150	195	240	300
	4) Randabstand	Ccr	[mm]	60	60	75	97	120	150
	⁵⁾ Minimaler Achsabstand	Smin	[mm]	35	35	50	70	90	175
	5) Minimaler Randabstand	C _{min}	[mm]	35	35	40	65	75	120
	Bohrlochtiefe	h _{nom2}	[cm]	5,2	5,4	6,5	8,7	10,0	12,3
	Mindestbauteildicke	h _{min}	[mm]	100	100	120	140	160	220
	Gerissener Beton mit erhöhter (hnom3) Ve	rankerungstie	e:						
	¹⁾ Zulässige Zuglast je Dübel	Nzul	[kN]	-	-	-	-	-	-
	¹⁾ Zulässige Querlast je Dübel	Vzul	[kN]	-	-	-	-	-	-
	Ungerissener Beton mit erhöhter (hnom3)	Verankerungs	tiefe:						
		Nzul	[kN]	4,3 *	7,6 2)	11,9	16,7	23,8	29,7
	¹⁾ Zulässige Querlast je Dübel	Vzul	[kN]	3,7 *	6,1 *	10,8	16,9	29,1	49,0
Verankerungstiefe	Gerissener/Ungerissener Beton mit erhöhter (hnoms) Verankerungstiefe:								
	³⁾ Achsabstand	S _{cr}	[mm]	180 ຈ	210 =	240	300	360	345
	a) Randabstand	Cer	[mm]	130 %	105 =>	120	150	180	173
	4) Minimaler Achsabstand	S _{min}	[mm]	35 =>	35 =	50	70	90	175
	4) Minimaler Randabstand	C _{min}	[mm]	35 %	35 =	40	55	70	120
	Mindestbauteildicke	h _{min}	[mm]	120	120	160	180	180	220
	Bohrlochtiefe	h _{nom3}	[cm]	7,2	8,4	9,5	12,2	14	13,8
	1) Lasten gelten für randferne Einzelbefestigung g		runa. Teilsiche	rheitsbeiwert % = 1.0		TAG 001. Progress File	12,2		10,0

1) Lasten gelten für randferne Einzelbefestigung ohne dichte Bewehrung, Teilsicherheitsbeiwert γ₁ = 1,0 für Betonversagen (ETAG 001, Progress File).
 2) Beschränkt auf redundante Verankerungen (Mehrfachbefestigungen)
 3) Bei Randabstand c ≥ c_c, und Achsabstand s ≥ s_c, ist N_{±4} (Gruppe) = N_{±4} × Dübelanzahl der Gruppe
 4) Die zulässige Last muss bei s_{mb} ≤ s ≤ s_c und oder c_{mb} ≤ c ≤ c_c entsprechend Bemessungsverfahren A (ETAG Annex C, 1997) reduziert werden.