

## **HALFEN POWERCLICK ZUBEHÖR/ACCESSORIES**

**Produktinformation Technik/Technical Product Information**



# Leviat

We imagine, model and make engineered products and innovative construction solutions that help turn architectural visions into reality and enable our construction partners to build better, safer, stronger and faster.

**Leviat is a world leader in connecting, fixing, lifting and anchoring technology.**

From the build of new schools, hospitals, homes and infrastructure, to the repair and maintenance of heritage structures, our engineering skills are making a difference around the world.

We provide technical design assistance at every stage of a project, from initial planning to installation and beyond.

Our technical support services range from simple product selection through to the development of a fully customised project-specific design solution.

Every promise we make locally, has the commitment and dedication of our global team behind it. We employ almost 3,000 people at 60 locations across North America, Europe and Asia-Pacific, providing an agile and responsive service worldwide.

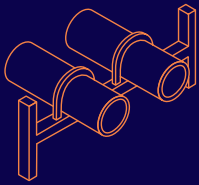




**>3,000**  
People

**60+**  
Locations

**~20**  
Countries

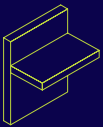


### Industrial Technology

Mounting channels, pipe clamps and other versatile framing systems that provide safe fixing in a wide range of industrial applications.

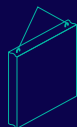
- Modular Framing Systems
- Modular Support Systems
- Mounting Channel Systems
- Accessories for channels, framing & support systems
- General accessories
- Versatile Interior Systems

### Other areas of expertise:



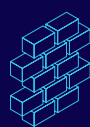
#### Structural Connections

Systems to form robust, efficient connections, and continuity of concrete reinforcement as necessary, between walls, slabs, columns, beams and balconies, providing structural integrity as well as enhanced thermal and acoustic performance.



#### Lifting & Bracing

Systems for the safe and efficient transportation, lifting and temporary bracing of cast concrete elements and tilt-up panels before permanent structural connections are made.



#### Façade Support & Restraint

Systems for the safe and thermally-efficient fixing of the external building envelope, including brick and natural stone, insulated sandwich panels, curtain walling and suspended concrete façades, and also the repair and strengthening of existing masonry installations.



#### Anchoring & Fixing

Systems for fixing secondary fixtures to concrete, including anchor channels, bolts and inserts; also tension rod systems for roofs and canopies.



#### Formwork & Site Accessories

Non-structural accessories that complement our engineered solutions and help keep your construction environment operating safely and efficiently, including moulds for casting standard and special concrete elements and construction essentials such as reinforcing bar spacers.

### Leviat product ranges:

Ancon | Aschwanden | Connolly | Halfen | Helifix | Isedio | Meadow Burke | Modersohn | Moment | Plaka | Scaldex | Thermomass

## HALFEN POWERCLICK SYSTEM

Powerclick auf einen Blick / *Powerclick at a Glance*

### Noch nie war wenig so viel: DREI GRÖSSEN – ein System

*Never has so little given so much: THREE SIZES – one system*

#### POWERCLICK SYSTEM 63



Das einzigartige System von umschließenden Verbindungselementen überträgt Biegemomente besser als andere Systeme.

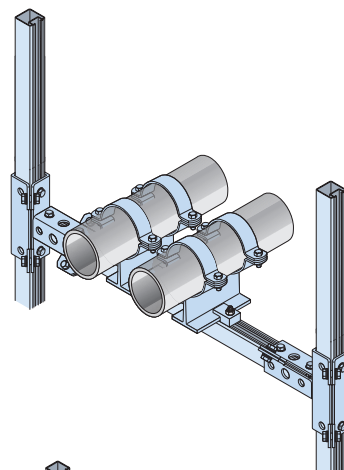
*Unique "closed" design of connection elements resists moment forces more effectively than other systems.*

Katalog PC 63

*Catalogue PC 63*



TÜV GEPRÜFT  
NACH EN 13480  
(BAUMUSTERPRÜFUNG)  
POWERCLICK SYSTEM 63  
TESTED TO EN 13480  
(TYPE TESTED)  
BY TÜV



#### POWERCLICK SYSTEM 41

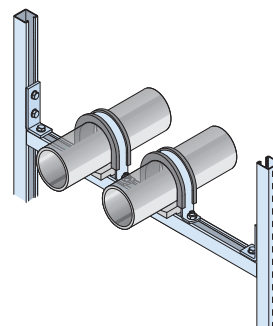
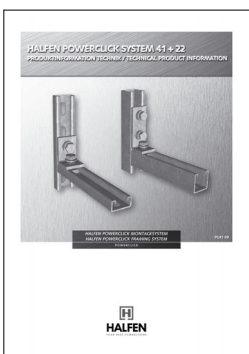


Vormontierte Verbindungsteile – komfortabel für den Planer und zeitsparend auf der Baustelle.

*Pre-assembled connection hardware is convenient for the designer, and saves time on-site.*

Katalog PC 41

*Catalogue PC 41*



#### POWERCLICK SYSTEM 22

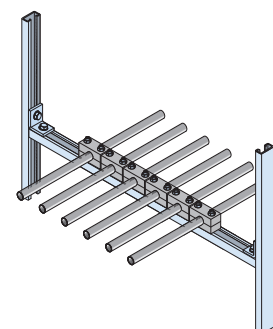
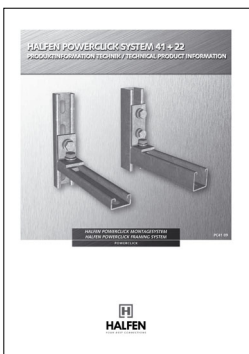


Für kleine Rohrdurchmesser - kompatibel mit unseren Systemen 63 und 41.

*For small diameter piping. Fully compatible with 41 and 63 systems.*

Katalog PC 41

*Catalogue PC 41*

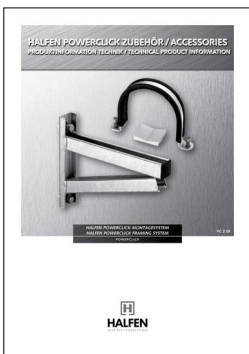


#### POWERCLICK ZUBEHÖR POWERCLICK ACCESSORIES

Konsolen, Rohrschellen, Gleitlager  
*Cantilever arms, pipe clamps, sliding supports*

Katalog PC Z

*Catalogue PC Z*

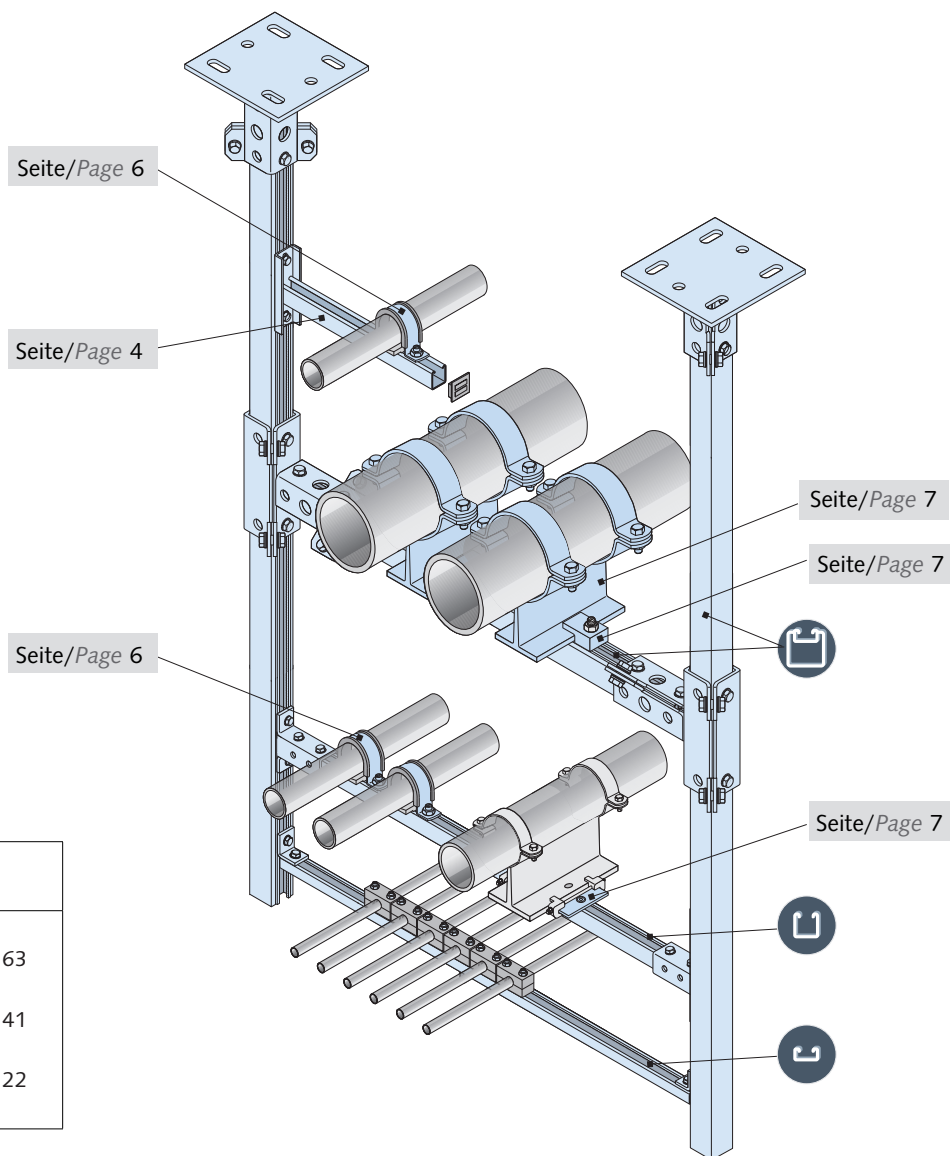


# HALFEN POWERCLICK SYSTEM




Einfache und zeitsparende Montage / Simple and Time Saving Assembly

## Ein kompatibles System für wirtschaftliche Unterstüzungen

One system compatible with all channels for economical supports



für Systeme:  
Systems used:

-  Powerclick System 63
-  Powerclick System 41
-  Powerclick System 22

### Werkstoff/Ausführung

### Material/Finish:

**fv** = S 235JR feuerverzinkt (stückverz.) ① **hdg** = S 235JR hot-dip galvanized (piece galv.) ①

**A4** = Edelstahl 1.4571/1.4404

**A4** = stainless steel grade 1.4571/ 1.4404

① **fv** = - Verbindungsteil **fv**,  
Zinkauflage > 50 µm  
- Schraubverbindung **fv**  
Zinkauflage > 45 µm  
- Profil **fv**, Zinkauflage > 50 µm

① **hdg** = - connection part **hdg**,  
zinc coating > 50 µm  
- bolt connection **hdg**,  
zinc coating > 45 µm  
- channel **hdg**, zinc coating > 50 µm

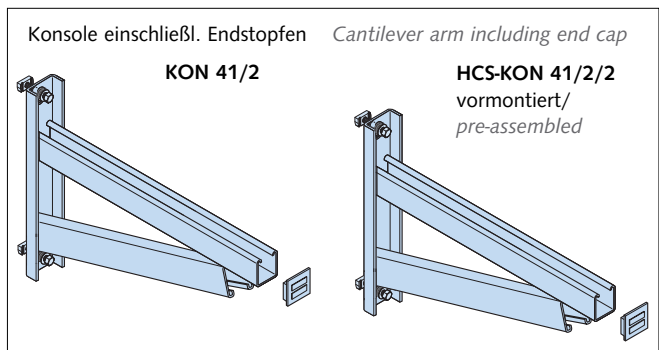
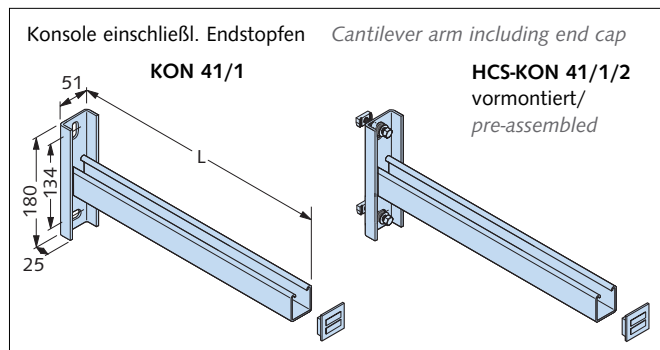
### Verfügbarkeit Availability:

● = Standard/Off-the-shelf component

# HALFEN POWERCLICK

## Konsolen *Cantilever arms*

### Konsolen *Cantilever arms:*



HCS-KON 41/1/2 vormontiert / pre-assembled				
Bezeichnung <i>Description</i>	Länge/Length L [mm]	Bestell-Nr. Part no.		
HCS-KON 41/1/2 - fv - 175		0302.010-00004	1	●
HCS-KON 41/1/2 - fv - 325		0302.010-00005	1	●
HCS-KON 41/1/2 - fv - 475		0302.010-00006	1	●
HCS-KON 41/1/2 - A4 - 175		0302.010-00001	1	●
HCS-KON 41/1/2 - A4 - 325		0302.010-00002	1	●
HCS-KON 41/1/2 - A4 - 475		0302.010-00003	1	●

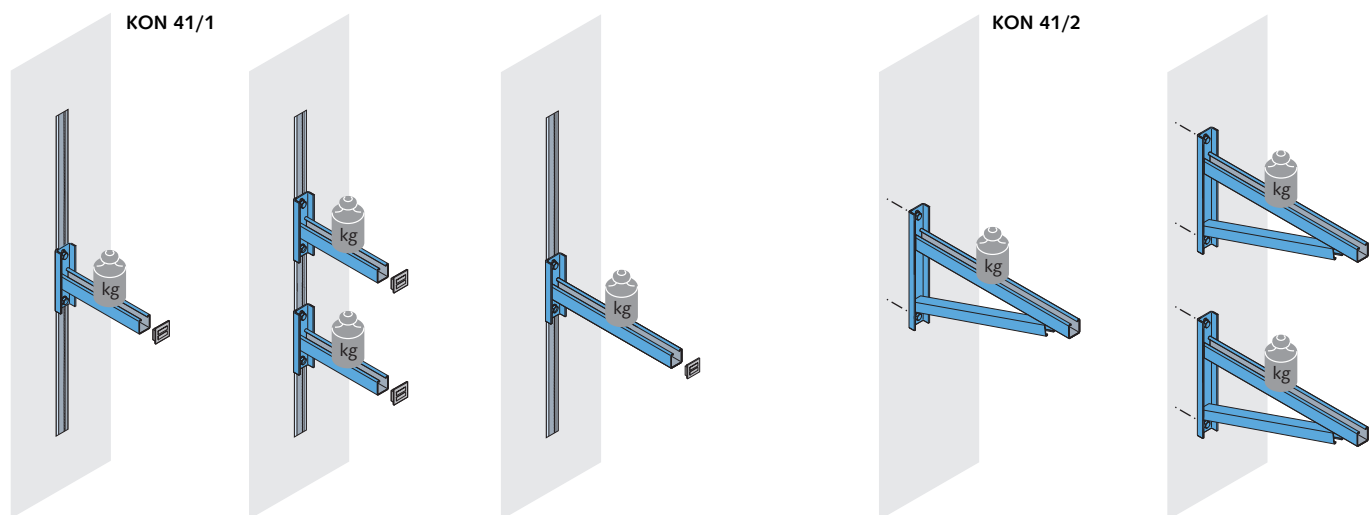
Typ/Type HCS-KON 41/2/2 vormontiert/pre-assembled					
Bezeichnung <i>Description</i>	Länge/Length L [mm]	H [mm]	Bestell-Nr. Part no.		
HCS-KON 41/2/2 - fv - 325		270	0302.020-00005	1	●
HCS-KON 41/2/2 - fv - 475		330	0302.020-00006	1	●
HCS-KON 41/2/2 - fv - 625		380	0302.020-00007	1	●
HCS-KON 41/2/2 - fv - 775		430	0302.020-00008	1	●
HCS-KON 41/2/2 - A4 - 325		270	0302.020-00001	1	●
HCS-KON 41/2/2 - A4 - 475		330	0302.020-00002	1	●
HCS-KON 41/2/2 - A4 - 625		380	0302.020-00003	1	●
HCS-KON 41/2/2 - A4 - 775		430	0302.020-00004	1	●

Bezeichnung <i>Description</i>	Länge/Length L [mm]	Bestell-Nr. Part no.		
KON 41/1 - fv - 175		0310.010-00001	1	●
KON 41/1 - fv - 325		0310.010-00002	1	●
KON 41/1 - fv - 475		0310.010-00003	1	●
KON 41/1 - A4 - 175		0310.010-00004	1	●
KON 41/1 - A4 - 325		0310.010-00005	1	●
KON 41/1 - A4 - 475		0310.010-00006	1	●

Bezeichnung <i>Description</i>	Länge/Length L [mm]	H [mm]	Bestell-Nr. Part no.		
KON 41/2 - fv - 325		270	0310.020-00001	1	●
KON 41/2 - fv - 475		330	0310.020-00002	1	●
KON 41/2 - fv - 625		380	0310.020-00003	1	●
KON 41/2 - fv - 775		430	0310.020-00004	1	●
KON 41/2 - A4 - 325		270	0310.020-00005	1	●
KON 41/2 - A4 - 475		330	0310.020-00006	1	●
KON 41/2 - A4 - 625		380	0310.020-00007	1	●
KON 41/2 - A4 - 775		430	0310.020-00008	1	●

fv = feuerverzinkt, *hot-dip galvanized*  
A4 = Edelstahl A4, *stainless steel grade A4*

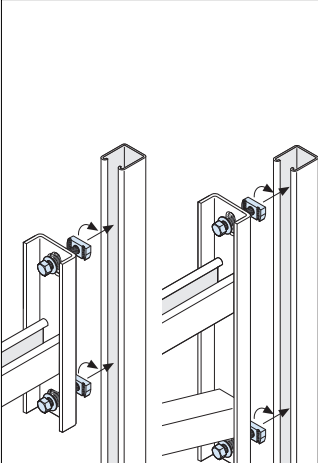
### Anwendungsbeispiele *Application examples:*



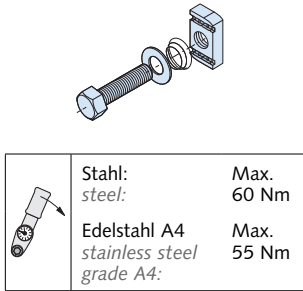
## HALFEN POWERCLICK

### Powerclick-Schraube, Konsolen-Aussteifung *Powerclick bolt, Bracing*



**Powerclick-Schraube** *Powerclick bolt:*



Anbindung an Montageschienen System 63, 41 und 22:  
*Connection to framing channels system 63, 41 and 22:*



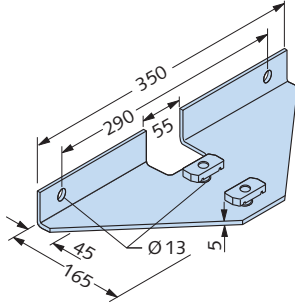
Stahl: <i>steel:</i>	Max. 60 Nm
Edelstahl A4 <i>stainless steel grade A4:</i>	Max. 55 Nm



Bezeichnung Description	Bestell-Nr. Part no.		
HCS-GWP41/41-fv-M12×25	0308.010-00002	50	●
HCS-GWP41/41-A4-M12×25	0308.010-00001	50	●

fv = feuerverzinkt, *hot-dip galvanized*  
A4 = Edelstahl A4, *stainless steel grade A4*

**Konsolen-Aussteifung** *Bracing:*

Aussteifung mit 2 POWERCLICK Schrauben, vormontiert  
*Bracing incl. 2 Powerclick bolts, pre-assembled*



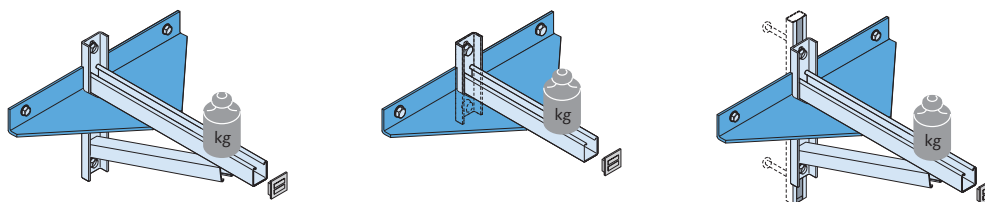
Bezeichnung Description	Bestell-Nr. Part no.		
HCS KON - Z1 - fv	0302.050-00002	1	●
HCS KON - Z1 - A4	0302.050-00001	1	●

fv = feuerverzinkt, *hot-dip galvanized*  
A4 = Edelstahl A4, *stainless steel grade A4*

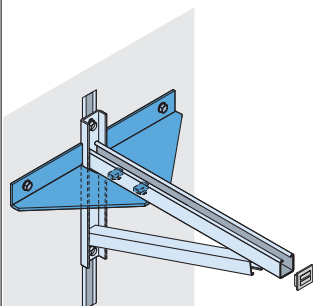
### Anwendungsbeispiele: *Application examples:*

Aussteifung für Konsole  
z.B. für Leitungen mit Dehnung oder Windlasten

*Bracing for cantilever arm  
e.g. for systems with thermal expansion or for wind loads*



### Montagebeispiel: *Assembly example:*



**Montage:**  
Gewindeplatte abschrauben, KON-Z1 mit Schraube in die vorhandene Langlochung der Konsole einsetzen, Gewindeplatte festschrauben.

**Hinweis:**  
Für die Anbindung an Beton 2 × Dübel M12 erforderlich.

**Assembly:**  
Unscrew the locking plate, set KON-Z1 and insert the bolts through the slots in the back of the profile, tighten the bolt.

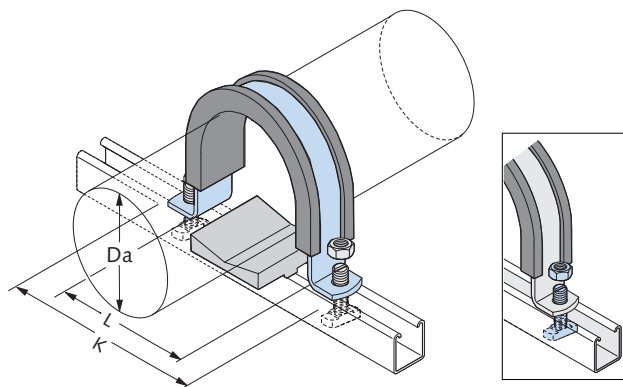
**Note:**  
For fixing to concrete use 2 × site drilled M12 bolts.

# HALFEN POWERCLICK

## Rohrschellen Pipe clamps

### Rohrschelle Pipe clamp:

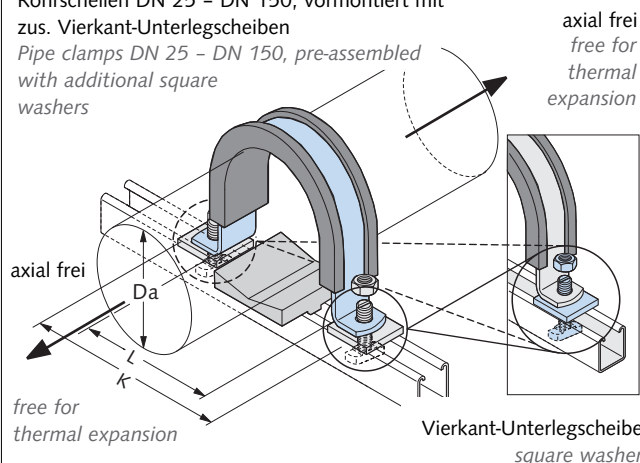
Rohrschellen DN 25 – DN 150, vormontiert  
Pipe clamps DN 25 – DN 150, pre-assembled



Da: Außendurchmesser / outer diameter of pipe  
Dämmgummi, EPDM / rubber insulation, EPDM,  
temperaturbeständig / temperature range -40° – +110 °C

### Rohrschelle, axial frei Pipe clamp free in axial direction:

Rohrschellen DN 25 – DN 150, vormontiert mit  
zus. Viereck-Unterlegscheiben  
Pipe clamps DN 25 – DN 150, pre-assembled  
with additional square  
washers



Da: Außendurchmesser / outer diameter of pipe  
Dämmgummi, EPDM / rubber insulation, EPDM,  
temperaturbeständig / temperature range -40° – +110 °C

### Typenauswahl

### Type selection:

DN 25 Da= 33,7		Bezeichnung Description	Bestell-Nr. Part no.
K = 108,5 mm L = 82,5 mm		1 HCS-RADV- 48/2 -fv	0301.010-00008
		1 HCS-RADV- 48/2 -A4	0301.010-00001
DN 40 Da= 48,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 120 mm L = 94 mm		1 HCS-RADV- 60/2 -fv
		1 HCS-RADV- 60/2 -A4	0301.010-00002
DN 50 Da= 60,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 132 mm L = 105 mm		1 HCS-RADV- 75/2 -fv
		1 HCS-RADV- 75/2 -A4	0301.010-00015
DN 80 Da= 88,9		Bezeichnung Description	Bestell-Nr. Part no.
	K = 165 mm L = 139 mm		1 HCS-RADV-105/2 -fv
		1 HCS-RADV-105/2 -A4	0301.010-00004
DN 100 Da= 114,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 191 mm L = 165 mm		1 HCS-RADV-131/2 -fv
		1 HCS-RADV-131/2 -A4	0301.010-00005
DN 125 Da= 139,7		Bezeichnung Description	Bestell-Nr. Part no.
	K = 217 mm L = 191 mm		1 HCS-RADV-157/2 -fv
		1 HCS-RADV-157/2 -A4	0301.010-00006
DN 150 Da= 168,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 265 mm L = 233 mm		1 HCS-RADV-185/2 -fv
		1 HCS-RADV-185/2 -A4	0301.010-00007

DN 25 Da= 33,7		Bezeichnung Description	Bestell-Nr. Part no.
K = 108,5 mm L = 82,5 mm		1 HCS-RADV- 48/2D -fv	0301.020-00008
		1 HCS-RADV- 48/2D -A4	0301.020-00001
DN 40 Da= 48,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 124 mm L = 98 mm		1 HCS-RADV- 64/2D -fv
		1 HCS-RADV- 64/2D -A4	0301.020-00002
DN 50 Da= 60,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 132 mm L = 105 mm		1 HCS-RADV- 75/2D -fv
		1 HCS-RADV- 75/2D -A4	0301.020-00015
DN 80 Da= 88,9		Bezeichnung Description	Bestell-Nr. Part no.
	K = 165 mm L = 139 mm		1 HCS-RADV-105/2D -fv
		1 HCS-RADV-105/2D -A4	0301.020-00004
DN 100 Da= 114,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 191 mm L = 165 mm		1 HCS-RADV-131/2D -fv
		1 HCS-RADV-131/2D -A4	0301.020-00005
DN 125 Da= 139,7		Bezeichnung Description	Bestell-Nr. Part no.
	K = 217 mm L = 191 mm		1 HCS-RADV-157/2D -fv
		1 HCS-RADV-157/2D -A4	0301.020-00006
DN 150 Da= 168,3		Bezeichnung Description	Bestell-Nr. Part no.
	K = 265 mm L = 233 mm		1 HCS-RADV-185/2D -fv
		1 HCS-RADV-185/2D -A4	0301.020-00007

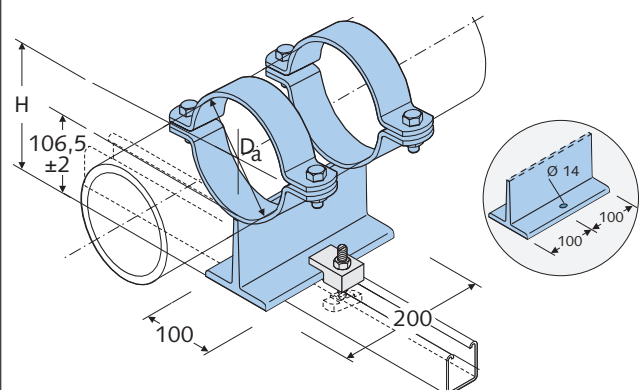
fv = feuerverzinkt, hot-dip galvanized  
A4 = Edelstahl A4, stainless steel grade A4

# HALFEN POWERCLICK

## Gleitlager + Zubehör *Sliding supports + Accessories*

### Gleitlager *Sliding support*

Gleitlager DN 15-DN 200, Rohrschellen nach DIN 3567, Form A  
*Sliding support DN 15-DN 200, pipe clamps acc. to DIN 3567, shape A*



Befestigung mit 2 Abhebesicherungen HCS AHS 5/1 - fv  
*Fixing with 2 spacer clips HCS AHS 5/1 - fv*

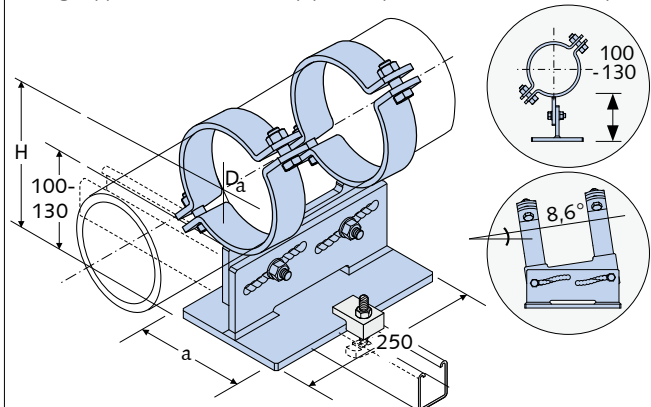
#### Typenauswahl *Type selection:*

DN 15			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 21,3$ $H = 116$		1	HCS HRG 4 - 21 - fv	0291.040-00001
<b>DN 25</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 33,7$ $H = 122$		1	HCS HRG 4 - 33 - fv	0291.040-00002
<b>DN 40</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 48,3$ $H = 129$		1	HCS HRG 4 - 48 - fv	0291.040-00003
<b>DN 50</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 60,3$ $H = 136$		1	HCS HRG 4 - 60 - fv	0291.040-00004
<b>DN 65</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 76,1$ $H = 144$		1	HCS HRG 4 - 76 - fv	0291.040-00009
<b>DN 80</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 88,9$ $H = 150$		1	HCS HRG 4 - 89 - fv	0291.040-00005
<b>DN 100</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 114,3$ $H = 166$		1	HCS HRG 4 - 116 - fv	0291.040-00006
<b>DN 125</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 139,7$ $H = 178$		1	HCS HRG 4 - 141 - fv	0291.040-00007
<b>DN 150</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 168,3$ $H = 192$		1	HCS HRG 4 - 168 - fv	0291.040-00008
<b>DN 200</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 219,1$ $H = 217,5$		1	HCS HRG 4 - 219 - fv	0291.040-00010

fv = feuerverzinkt, hdg = hot-dip galvanized

### Gleitlager, höhenverstellbar und neigungsfähig *Sliding support, height adjustable and inclinable*

Gleitlager DN 15-DN 200, Rohrschellen nach DIN 3567, Form A  
*Sliding support DN 15-DN 200, pipe clamps acc. to DIN 3567, shape A*



Befestigung mit 2 Abhebesicherungen HCS AHS 5/1 - fv  
*Fixing with 2 spacer clips HCS AHS 5/1 - fv*

#### Typenauswahl *Type selection:*

DN 15			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 21,3$ $H = 116-146$ $a = 100$		1	HCS HRG 5 HV-21-FV	0291.080-00001
<b>DN 25</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 33,7$ $H = 122-152$ $a = 100$		1	HCS HRG 5 HV-33-FV	0291.080-00002
<b>DN 40</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 48,3$ $H = 129-159$ $a = 100$		1	HCS HRG 5 HV-48-FV	0291.080-00003
<b>DN 50</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 60,3$ $H = 136-146$ $a = 100$		1	HCS HRG 5 HV-60-FV	0291.080-00004
<b>DN 65</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 76,1$ $H = 144-174$ $a = 100$		1	HCS HRG 5 HV-76-FV	0291.080-00005
<b>DN 80</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 88,9$ $H = 150-180$ $a = 100$		1	HCS HRG 5 HV-89-FV	0291.080-00006
<b>DN 100</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 114,3$ $H = 166-196$ $a = 120$		1	HCS HRG 5 HV-116-FV	0291.080-00007
<b>DN 125</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 139,7$ $H = 178-208$ $a = 120$		1	HCS HRG 5 HV-141-FV	0291.080-00008
<b>DN 150</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 168,3$ $H = 192-222$ $a = 120$		1	HCS HRG 5 HV-168-FV	0291.080-00009
<b>DN 200</b>			Bezeichnung <i>Description</i>	Bestell-Nr. <i>Part no.</i>
$D_a = 219,1$ $H = 217-247$ $a = 180$		1	HCS HRG 5 HV-219-FV	0291.080-00010

fv = feuerverzinkt, hdg = hot-dip galvanized

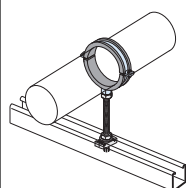
# HALFEN POWERCLICK

## Rohrschellen Pipe clamps

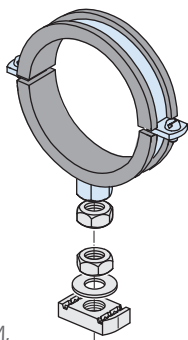
### Isophonic Rohrschelle M8/M10 Isophonic Pipe clamp M8/M10

#### Rohrschelle HCS HRS-DI Pipe clamp HCS HRS-DI

inkl. incl.  
1 × GWP 41/41 M10,  
2 × MU 10-gv DIN 934 FK 8  
und and  
1 × US M10-gv



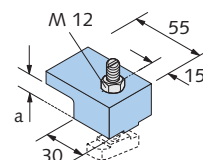
Dämmgummi, EPDM /  
rubber insulation, EPDM,  
temperaturbeständig /  
temperature range -40° - +110°C



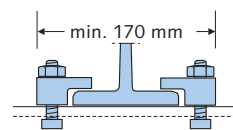
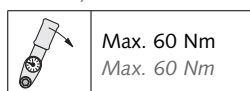
Anwendungsbeispiel Application example

### Abhebesicherung HCS AHS Spacer clip HCS AHS

Abhebesicherung, Einsatz paarweise,  
vormontiert mit jeweils  
1 × HZS 41/22 - fv 8.8 - M12 × 50  
  
Spacer clip, used in pairs,  
each pre-assembled with  
1 × HZS 41/22 - fv 8.8 - M12 × 50



Montagemaße  
Assembly dimensions



Bezeichnung Description	a [mm]	Bestell-Nr. Part no.		
HCS AHS 5/1 - fv	13	0308.040-00001	20	●
HCS AHS 6/1 - fv	17,5	0308.040-00002	20	●

### Typenauswahl Type selection

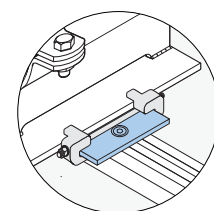
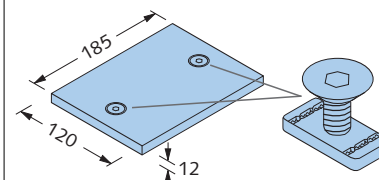
DN 10 Da= 17,2		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-17-gv	0305.010-00001
DN 15 Da= 21,3		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-21-gv	0305.010-00002
DN 20 Da= 26,9		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-27-gv	0305.010-00003
DN 25 Da= 33,7		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-33-gv	0305.010-00004
DN 32 Da= 44,5		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-44-gv	0305.010-00005
DN 40 Da= 48,3		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-48-gv	0305.010-00006
DN 50 Da= 60,3		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-60-gv	0305.010-00007
DN 65 Da= 76,1		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-76-gv	0305.010-00008
DN 80 Da= 88,9		Bezeichnung Description	Bestell-Nr. Part no.
	1	HCS HRS-DI-89-gv	0305.010-00009

- Für die Rohrschellen gilt: Applies to pipe clamps:  
gv = galvanisch verzinkt zinc coated DIN 50961 / ISO 4520 ≥ 5 µm
- Gewindeplatten GWP: Channel nut plates GWP:  
galvanisch verzinkt + chromatiert Zinc chromate coating ≥ 5 µm

### Adapterplatte Adaptor plate HCS PL

Die Adapterplatte eignet sich für die Anwendung aller herkömmlichen Gleitlager, die mit alternativen Klemmbefestigungen angebunden werden.  
The adaptor plate is suitable for applications of all conventional sliding supports, which are attached with alternative clamp fixings.

Adapterplatte, 2 Senkschrauben M 12 nach DIN 7991 vormontiert  
Adaptor plate, 2 flat head bolts M 12 acc. to DIN 7991, pre-assembled



Hinweis: Senkschraube darf nach Montage nicht vorstehen  
Note: Flat head bolts must be screwed in flush with the plate

Anwendungsbeispiel für Adapterplatte mit alternativem Gleitlager Δ  
Application example for adaptor plate with alternative sliding support

Bezeichnung Description	L [mm]	Bestell-Nr. Part no.		
HCS PL 185×120×12/2-fv		0308.020-00001	1	●

### Gewindestange GWS Threaded rod GWS

Gewindestange GWS  
bitte separat bestellen!



Threaded rod GWS  
please order separately!

### Bezeichnung Description

Bezeichnung Description	Bestell-Nr. Part no.
Gewindestange GWS	GWS M10-gv-l=1000 mm
	0400.040-00001

gv = galvanisch verzinkt zinc coated DIN 975 ≥ 12 µm

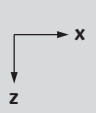
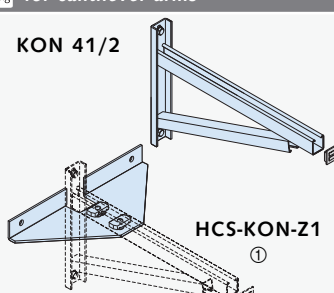
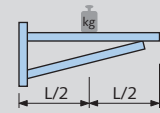

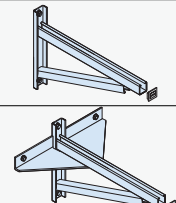

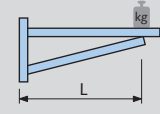

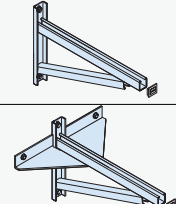

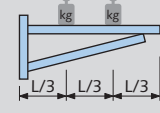

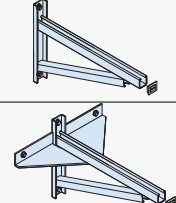

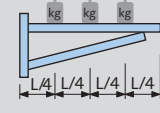

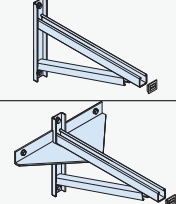

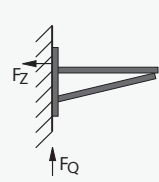
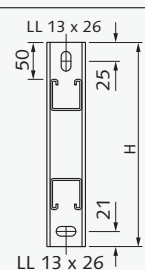

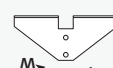
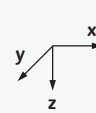
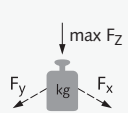
# HALFEN POWERCLICK

## Statik Konsolen *Load information cantilever arms*

Max. Einzellast $F_z$ max pro Lastpunkt $kg$ für Konsolen		Max. centred single load $F_z$ max per load point $kg$ for cantilever arms															
		Zulässige Gebrauchslast $F_z$ max [kN] bei Stablänge L [mm]: Max. service load $F_z$ max [kN] for channel length L [mm]:															
		L = 175 $F_z$ [kN]	L = 325 $F_z$ [kN]	L = 475 $F_z$ [kN]	KON 41/1  HCS-KON-Z1 ①												
		5,35	2,65	1,75													
		3,70	2,10	1,50													
		2,65	1,30	0,85													
		1,90	1,05	0,75													
		2,65	1,30	0,85													
		1,85	1,05	0,75													
		1,75	0,85	0,55													
		1,25	0,70	0,50													
<p>Max. Anschlusskräfte Max. force at connection</p>		<table border="1"> <thead> <tr> <th>Länge Length [mm]</th> <th>FZ [kN]</th> <th>FQ [kN]</th> </tr> </thead> <tbody> <tr> <td>175</td> <td>3,23</td> <td>5,35</td> </tr> <tr> <td>325</td> <td>2,97</td> <td>2,65</td> </tr> <tr> <td>475</td> <td>2,87</td> <td>1,75</td> </tr> </tbody> </table>	Länge Length [mm]	FZ [kN]	FQ [kN]	175	3,23	5,35	325	2,97	2,65	475	2,87	1,75			
Länge Length [mm]	FZ [kN]	FQ [kN]															
175	3,23	5,35															
325	2,97	2,65															
475	2,87	1,75															
<p>Erläuterungen: Explanations:</p>	<p>= Einzelkraft pro Lasteinleitung (z.B. Leitungen ohne Dehnung) = point load without lateral forces (e.g. pipes without expansion)</p>				<p>① Max. Drehmoment <math>\pm M = 30</math> kNm ① Max. tightening torque <math>\pm M = 30</math> kNm</p>												
	<p>= aus Überlagerung / Superposition <math>F_x</math> oder/oder <math>F_y = 0,3 \times F_z</math> max (z.B. Leitungen mit Dehnung o. Windlasten) (Point loads with lateral forces)</p>				<p>Die Befestigung mittels Dübel und Verbundanker muss bauseits nachgewiesen werden. Fixings using site drilled bolts and adhesion anchors must be site tested.</p>												

# HALFEN POWERCLICK

## Statik Konsolen *Load information cantilever arms*

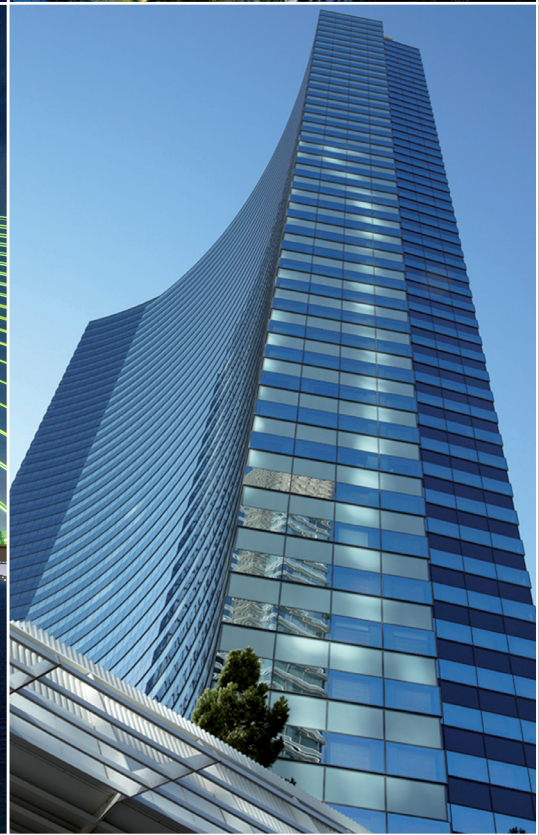
Max. Einzellast $F_z$ max pro Lastpunkt $\text{kg}$ für Konsolen		Max. centred single load $F_z$ max per load point $\text{kg}$ for cantilever arms																							
 Belastungsfall <i>Load situation</i>		Zulässige Gebrauchslast $F_z$ max [kN] bei Stablänge L [mm]: <i>Max. service load <math>F_z</math> max [kN] for channel length L [mm]:</i>				 KON 41/2 HCS-KON-Z1 ①																			
		L = 325 $F_z$ [kN]	L = 475 $F_z$ [kN]	L = 625 $F_z$ [kN]	L = 775 $F_z$ [kN]																				
		7,50	5,00	3,50	2,65																				
		5,50	3,20	2,30	1,65																				
		4,90	4,75	3,50	2,65																				
		2,60	1,70	1,40	1,20																				
		4,80	3,70	2,75	2,05																				
		2,85	1,70	1,25	0,90																				
		3,40	2,45	1,85	1,40																				
		1,85	1,20	0,85	0,65																				
Max. Anschlusskräfte <i>Max. force at connection</i>		<table border="1"> <thead> <tr> <th>Länge Length [mm]</th> <th>FZ [kN]</th> <th>FQ [kN]</th> <th>H [mm]</th> </tr> </thead> <tbody> <tr> <td>325</td> <td>9,30</td> <td>10,20</td> <td>270</td> </tr> <tr> <td>475</td> <td>10,16</td> <td>7,40</td> <td>330</td> </tr> <tr> <td>625</td> <td>8,23</td> <td>5,55</td> <td>380</td> </tr> <tr> <td>775</td> <td>6,63</td> <td>4,20</td> <td>430</td> </tr> </tbody> </table>	Länge Length [mm]	FZ [kN]	FQ [kN]	H [mm]	325	9,30	10,20	270	475	10,16	7,40	330	625	8,23	5,55	380	775	6,63	4,20	430			
Länge Length [mm]	FZ [kN]	FQ [kN]	H [mm]																						
325	9,30	10,20	270																						
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	 = aus Überlagerung / Superposition $F_x$ oder/oder $F_y = 0,3 \times F_z \text{ max}$ (z.B. Leitungen mit Dehnung o. Windlasten) (Point loads with lateral forces or windloads)	Die Befestigung mittels Dübel und Verbundanker muss bauseits nachgewiesen werden. <i>Fixings using site drilled bolts and adhesion anchors must be site tested.</i>																							





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## Australia

Unit A, 1 Heinrich Close,  
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Tel: +61 - 2 8808 3100  
Email: [info.au@leviat.com](mailto:info.au@leviat.com)

## Austria

Leonard-Bernstein-Str. 10  
Saturn Tower, 1220 Wien  
Tel: +43 - 1 - 259 6770  
Email: [info.at@leviat.com](mailto:info.at@leviat.com)

## Belgium

Industrielaan 2  
1740 Ternat  
Tel: +32 - 2 - 582 29 45  
Email: [info.be@leviat.com](mailto:info.be@leviat.com)

## China

Room 601 Tower D,  
Vantone Centre  
No. A6 Chao Yang Men Wai Street  
Chaoyang District  
Beijing P.R. China 100020  
Tel: +86 - 10 5907 3200  
Email: [info.cn@leviat.com](mailto:info.cn@leviat.com)

## Czech Republic

Pekařská 695/10a  
155 00 Praha 5  
Tel: +420 - 311 - 690 060  
Email: [info.cz@leviat.com](mailto:info.cz@leviat.com)

## Finland

Vädursgatan 5  
412 50 Göteborg / Sweden  
Tel: +358 (0)10 6338781  
Email: [info.fi@leviat.com](mailto:info.fi@leviat.com)

## France

6, Rue de Cabanis  
31240 L'Union  
Tel: +33 (0)5 34 25 54 82  
Email: [info.fr@leviat.com](mailto:info.fr@leviat.com)

## Germany

Liebigstrasse 14  
40764 Langenfeld  
Tel: +49 - 2173 - 970 - 0  
Email: [info.de@leviat.com](mailto:info.de@leviat.com)

## India

Unit S4, 902, A Wing,  
Lodha iThink Techno Campus Building,  
Panchpakhadi, Pokharan Road 2,  
Thane, 400606  
Tel: +91-022 695 33700  
Email: [info.in@leviat.com](mailto:info.in@leviat.com)

## Italy

Via F.lli Bronzetti 28  
24124 Bergamo  
Tel: +39 - 035 - 0760711  
Email: [info.it@leviat.com](mailto:info.it@leviat.com)

## Malaysia

28 Jalan Anggerik Mokara 31/59  
Kota Kemuning,  
40460 Shah Alam Selangor  
Tel: +603 - 5122 4182  
Email: [info.my@leviat.com](mailto:info.my@leviat.com)

## Netherlands

Oostermaat 3  
7623 CS Borne  
Tel: +31 - 74 - 267 14 49  
Email: [info.nl@leviat.com](mailto:info.nl@leviat.com)

## New Zealand

246D James Fletcher Drive, Otahuhu,  
Auckland 2024  
Tel: +64 - 9 276 2236  
Email: [info.nz@leviat.com](mailto:info.nz@leviat.com)

## Philippines

27F Office A, Podium West Tower,  
12 ADB Avenue, Ortigas Center  
Mandaluyong City, 1550  
Tel: +63 - 2 7957 6381  
Email: [info.ph@leviat.com](mailto:info.ph@leviat.com)

## Poland

Ul. Obornicka 287  
60-691 Poznań  
Tel: +48 - 61 - 622 14 14  
Email: [info.pl@leviat.com](mailto:info.pl@leviat.com)

## Singapore

10 Benoi Sector,  
Singapore 629845  
Tel: +65 - 6266 6802  
Email: [info.sg@leviat.com](mailto:info.sg@leviat.com)

## Spain

Polígono Industrial Santa Ana  
c/ Ignacio Zuloaga, 20  
28522 Rivas-Vaciamadrid  
Tel: +34 - 91 632 18 40  
Email: [info.es@leviat.com](mailto:info.es@leviat.com)

## Sweden

Vädursgatan 5  
412 50 Göteborg  
Tel: +46 - 31 - 98 58 00  
Email: [info.se@leviat.com](mailto:info.se@leviat.com)

## Switzerland

Grenzstrasse 24  
3250 Lyss  
Tel: +41 (0)800 22 66 00  
Email: [info.ch@leviat.com](mailto:info.ch@leviat.com)

## United Arab Emirates

RA08 TB02, PO Box 17225  
JAFZA, Jebel Ali, Dubai  
Tel: +971 (0)4 883 4346  
Email: [info.ae@leviat.com](mailto:info.ae@leviat.com)

## United Kingdom

President Way,  
President Park,  
Sheffield S4 7UR  
Tel: +44 - 114 275 5224  
Email: [info.uk@leviat.com](mailto:info.uk@leviat.com)

## USA / Canada

6467 S Falkenburg Road  
Riverview, FL 33578  
Tel: (800) 423-9140  
Email: [info.us@leviat.us](mailto:info.us@leviat.us)

For countries not listed

Email: [info@leviat.com](mailto:info@leviat.com)

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