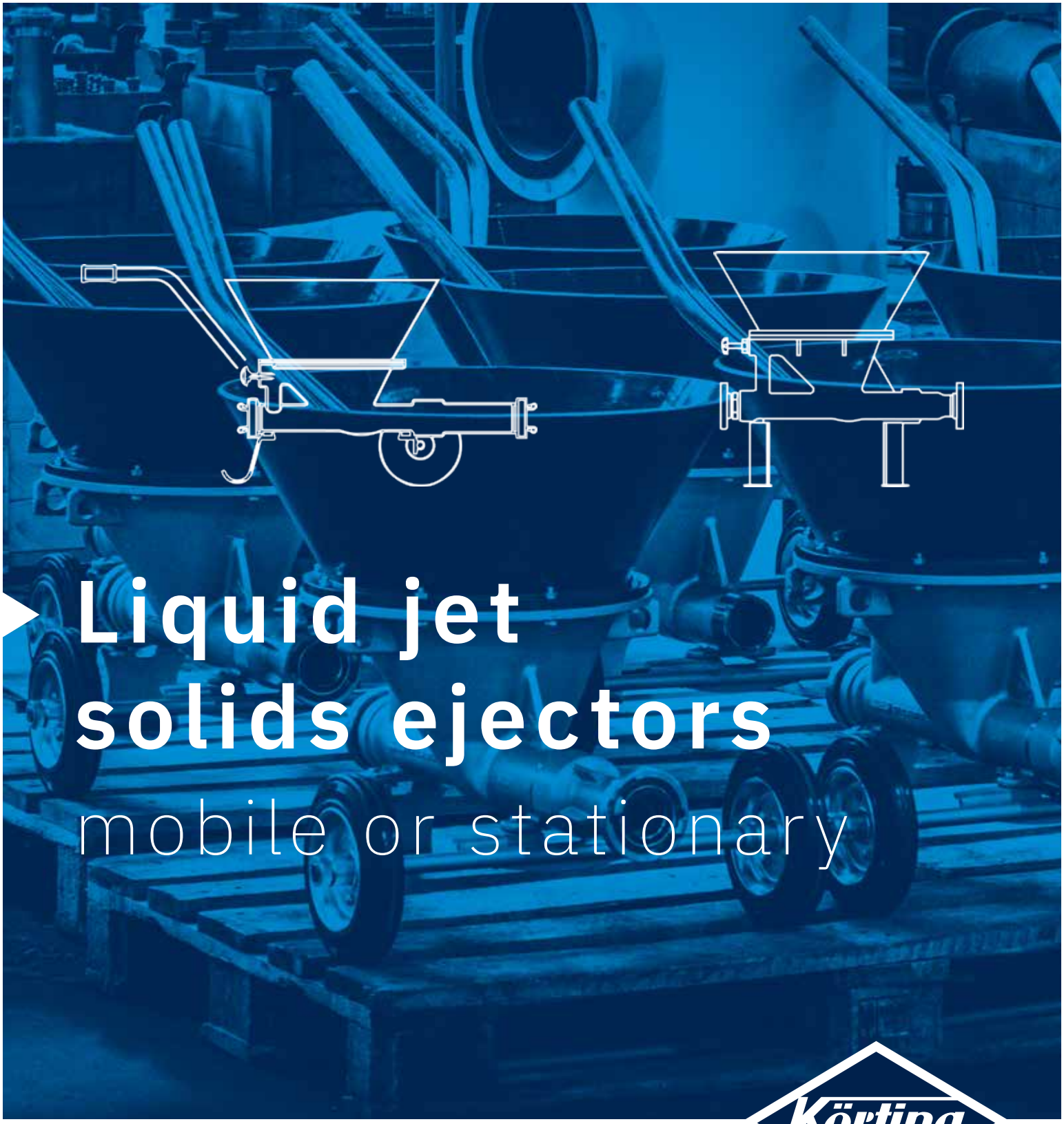


Liquid jet solids ejectors

mobile or stationary

Körting

THE EJECTOR COMPANY

Bulk material conveying with Körting jet ejectors

Superior durability and low-maintenance operation

Liquid jet solids ejectors

APPLICATIONS

The mobile liquid jet solids ejector is used for conveying granular materials and particles (max. particle diameter 8 mm). The material is incorporated and conveyed with the motive water when mixing- or rinsing-water is added at the same time.

Liquid jet solids ejectors are used for filling, cleaning, and emptying water treatment plants, conveying gravel, sand and salts – as well as granulated slag and ash in ash removal plants, etc.

DESIGN

The solids ejector's core component is the jet ejector housing, which includes the connection for the rinsing fluid. All components are fitted to this housing.

The technical data sheets (see pages 4 - 7) show the external dimensions.

MATERIALS

Körting's liquid jet solids ejectors are made of the following materials:

- The jet ejector housing of nodular cast iron or stainless steel
- Replaceable mixing section of nodular cast iron or stainless steel
- Motive and rinsing water nozzle of bronze or stainless steel
- Funnel of PE
- Push rods of galvanised steel tubing
- Connection hose couplings of special alloy brass or stainless steel

SPARE PARTS

All components are available as spare parts. Because of the inherent wear and tear, we recommend keeping spare motive nozzles and mixing sections in stock.

When applications involve exceptionally abrasive and erosive materials, our mixing section made of oxide ceramics is ideal.

PERFORMANCE

Jet ejector design is governed by the quantity of solids, their density, granularity, height at which they're conveyed and the motive water pressure available.

The table on the next page shows the performance data for the standard version. The density of the solids was based on a figure of 2 kg/dm^3.

PRICES

The costs are based on the current price list. Contact us if you'd like to know more.

For more detailed information and practical questionnaires to complete so that you can request a quote quickly, go to: **koerting.de/en/liquid-jet-solids-ejector.html**

PERFORMANCE DATA FOR THE STANDARD VERSION OF THE LIQUID JET SOLIDS EJECTOR BASED ON TD 181001/184001

p_D	$\dot{m}_{SF}$	$\dot{V}_{SS}$	$\dot{V}_{Tr}$	p_{Tr}
[bar abs.]	[10^3 kg/h]	[m^3/h]	[m^3/h]	[bar abs.]
1.5	3.9	1.2	13.1	2.5
	5.8	1.8	15.5	3.0
	7.4	2.3	17.7	3.5
	8.5	2.6	19.4	4.0
	9.3	2.9	21.1	4.5
1.6	5.0	1.5	15.2	3.0
	6.7	2.1	17.5	3.5
	8.1	2.5	19.3	4.0
	9.1	2.8	21.0	4.5
	9.9	3.0	22.4	5.0
	10.5	3.2	23.8	5.5
1.7	4.0	1.3	15.0	3.0
	6.0	1.9	17.3	3.5
	7.4	2.3	19.1	4.0
	8.7	2.7	20.9	4.5
	9.6	2.9	22.3	5.0
	10.4	3.2	23.8	5.5
1.8	5.3	1.6	17.0	3.5
	6.7	2.1	18.9	4.0
	8.1	2.5	20.7	4.5
	9.3	2.9	22.3	5.0
	10.0	3.0	23.6	5.5
	10.9	3.3	25.0	6.0
	11.7	3.6	26.4	6.5
1.9	4.3	1.3	16.7	3.5
	6.1	1.9	18.7	4.0
	7.6	2.3	20.5	4.5
	8.6	2.6	22.0	5.0
	9.9	3.0	23.6	5.5
	10.6	3.2	24.9	6.0
	11.3	3.4	26.2	6.5
	12.1	3.7	27.5	7.0
	12.6	3.8	28.6	7.5
2.0	3.4	1.1	16.5	3.5
	5.5	1.7	18.5	4.0
	7.0	2.2	20.4	4.5
	8.3	2.5	21.9	5.0
	9.3	2.8	23.4	5.5
	10.3	3.2	24.9	6.0
	11.0	3.4	26.2	6.5
	11.9	3.6	27.4	7.0
	12.5	3.8	28.6	7.5
2.1	4.5	1.4	18.2	4.0
	6.3	2.0	20.2	4.5
	7.7	2.4	21.8	5.0
	8.9	2.7	23.3	5.5
	9.8	3.0	24.7	6.0
	10.8	3.3	26.1	6.5
	11.6	3.5	27.3	7.0
	12.2	3.7	28.5	7.5

p_D	$\dot{m}_{SF}$	$\dot{V}_{SS}$	$\dot{V}_{Tr}$	p_{Tr}
[bar abs.]	[10^3 kg/h]	[m^3/h]	[m^3/h]	[bar abs.]
2.2	3.6	1.1	17.9	4.0
	5.5	1.7	19.9	4.5
	7.1	2.2	21.6	5.0
	8.3	2.5	23.1	5.5
	9.5	2.9	24.6	6.0
	10.3	3.1	25.9	6.5
	11.4	3.5	27.3	7.0
	12.0	3.7	28.5	7.5
2.3	4.6	1.5	19.7	4.5
	6.5	2.0	21.4	5.0
	7.8	2.4	23.0	5.5
	8.9	2.7	24.4	6.0
	10.0	3.1	25.9	6.5
	10.8	3.3	27.1	7.0
	11.8	3.6	28.4	7.5
2.4	4.0	1.3	19.5	4.5
	5.8	1.8	21.2	5.0
	7.3	2.2	22.8	5.5
	8.5	2.6	24.3	6.0
	9.5	2.9	25.7	6.5
	10.6	3.2	27.0	7.0
	11.4	3.5	28.3	7.5
2.5	5.0	1.6	21.0	5.0
	6.7	2.1	22.7	5.5
	8.0	2.4	24.1	6.0
	9.2	2.8	25.6	6.5
	10.1	3.1	26.9	7.0
	11.0	3.4	28.2	7.5
2.6	3.7	1.2	20.6	5.0
	6.0	1.8	22.4	5.5
	7.5	2.3	24.0	6.0
	8.6	2.6	25.4	6.5
	9.7	3.0	26.8	7.0
	10.6	3.2	28.0	7.5

p_D Discharge pressure measured just at the outlet nozzle of mixed flow

$\dot{m}_{SF}$ Solid matter content of the suction flow. The suction flow consists of the solid matter content and the rinsing liquid flow

$\dot{V}_{SS}$ Rinsing liquid flow; it is led into the hopper through the rinsing nozzle

$\dot{V}_{Tr}$ Motive water flow including rinsing liquid flow

p_{Tr} Motive pressure measured just at the motive nozzle

Körting Hannover GmbH
Badenstedter Straße 56
30453 Hannover
Telefon +49 5112129-0 Fax -223
E-Mail info@koerting.de

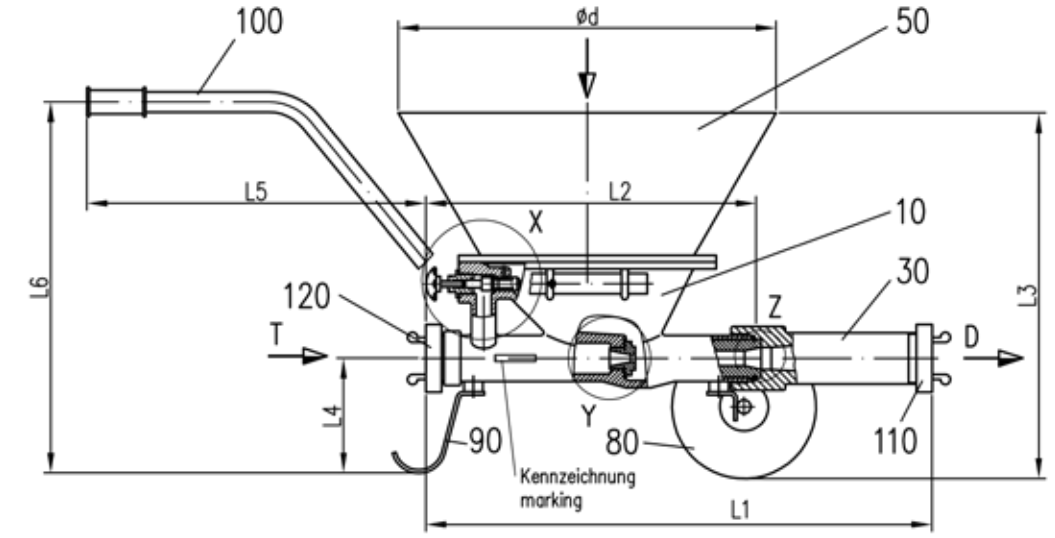
Flüssigkeitsstrahl-Feststoffpumpe (FFeP)
aus CrNi-St, fahrbar

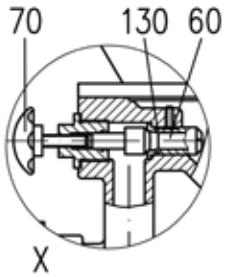
Liquid jet solids ejector (FFeP)
made of stainless steel, mobile

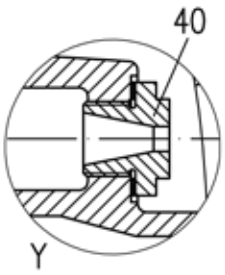
Technisches Datenblatt
Techn. Data Sheet

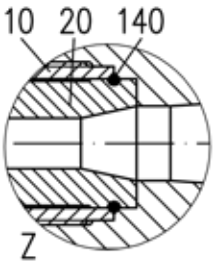
TD 181001

Seite/Page 1 2









Bestell-Nummer requisition no.	Festkupplung DN rigid coupling		Baumaße dimensions							Spurweite gauge	Gewicht weight
	T	D	L_1	L_2	L_3	L_4	L_5	L_6	ød		[kg]
181001 473120	C	C DIN 86204	630	482	570	164	570	550	554	500	42,0
181001 473130	DIN 86204	B DIN 86205	750								44,0

Tab.2

T Treibanschluss motive connection
D Gemischanschluss mixed flow connection

Pos. item	Benennung	denomination	Werkstoff	material
10	Gehäuse	casing	CrNi-St	St-St
20	Mischstrecke	mixing element	CrNi-St	St-St
30	Diffusor	diffusor	CrNi-St	St-St
40	Düse	nozzle	CrNi-St	St-St
50	Trichter	funnel	PE	PE
60	Spüldüse	flushing nozzle	CrNi-St	St-St
70	Ventilkopf	valve head	CrNi-St	St-St
80	Radsatz	wheelset	C-St/Gummi	C-St/rubber
90	Fuß	foot	C-St	C-St
100	Schubstange	piston	C-St verz.	C-St galv.
110	Festkupplung	rigid coupling	CrNi-St	St-St
120	Festkupplung	rigid coupling	CrNi-St	St-St
130, 140	O-Ring (Set)	o-ring (set)	NBR	NBR
---	Dichtung	gasket	SIL	SIL

Tab.1

Schubstangen werden lose mitgeliefert.
Pistons are supplied in bulk.

Änderungen vorbehalten !
Subject to change !

Schutzvermerk ISO 16016 beachten.
Refer to protection notice ISO 16016

Ausgabe: 2021-02-04
Issue:

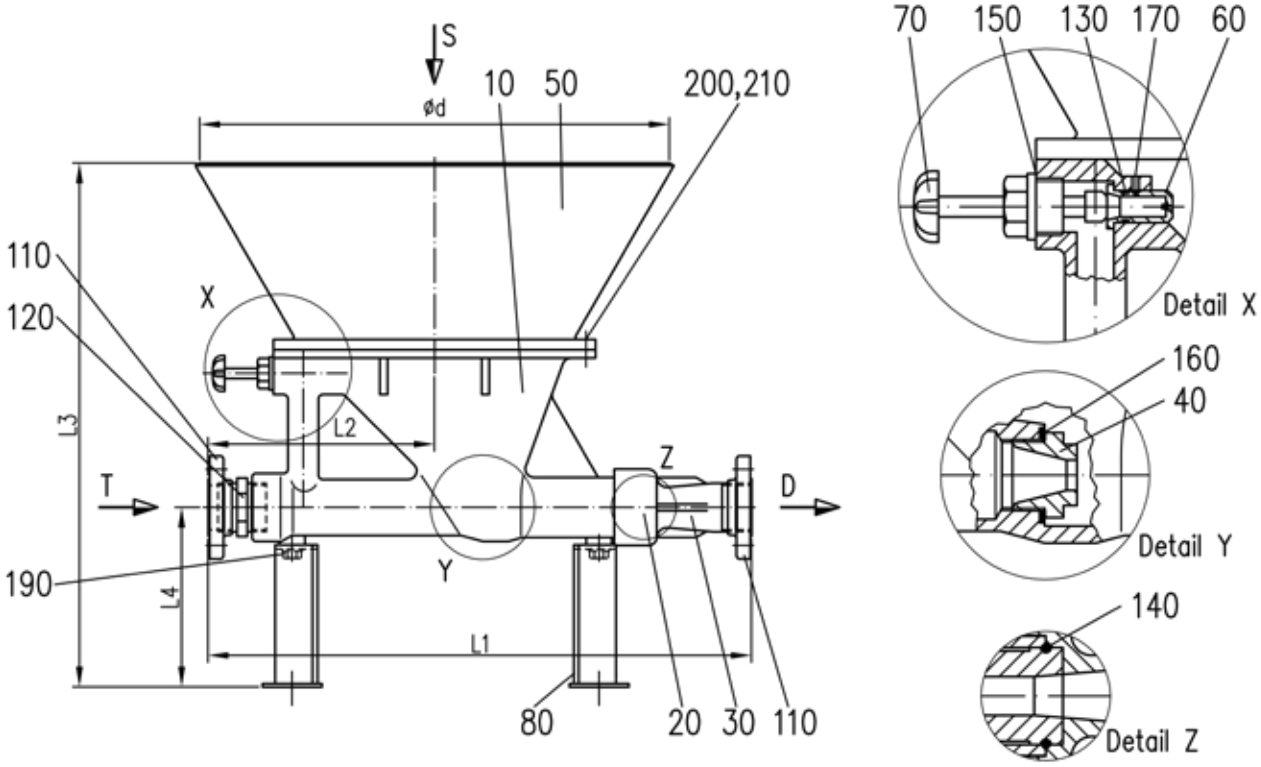
Körting Hannover GmbH
Badenstedter Straße 56
30453 Hannover
Telefon +49 5112129-0 Fax -223
E-Mail info@koerting.de

Flüssigkeitsstrahl-Feststoffpumpe (FFeP)
aus CrNi-St, stationär

Liquid jet solids ejector (FFeP)
made of stainless steel, stationary

Technisches Datenblatt
Techn. Data Sheet

TD 181001



Bestell-Nummer requisition no.	Anschlussmaße Connection dimension DN			Baumaße dimensions					Gewicht weight
	T	D	Norm/standard	L_1	L_2	L_3	L_4	Ød	[kg]
181001 473195	50	50	EN 1092-1	650	265	725	320	554	45

Tab.2

T Treibanschluss motive connection
D Gemischanschluss mixed flow connection
S Zufuhr supply

Pos. item	Benennung	denomination	Werkstoff	material
10	Gehäuse	casing	CrNi-St	St-St
20	Mischstrecke	mixing element	CrNi-St	St-St
30	Diffusor	diffuser	CrNi-St	St-St
40	Treibdüse	motive nozzle	CrNi-St	St-St
50	Trichter	funnel	PE	PE
60	Spüldüse	flushing nozzle	CrNi-St	St-St
70	Ventilkopf	valve head	CrNi-St	St-St
80	Rahmen	frame	CrNi-St	St-St
110	Flansch	flange	CrNi-St	St-St
120	Doppelnippel	double nipple	CrNi-St	St-St
130, 140	O-Ring (Set)	o-ring (set)	NBR	NBR
150, 160	Dichtring	seal ring	SIL	SIL
170	Gewindestift	setscrew	A2	A2
190, 200	Sechskantschraube	hexagonal bolt	A2	A2
210	Sechskantmutter	hexagonal nut	A2	A2

Tab.1

Ausgabe: 2021-02-04
Issue:

Körting Hannover GmbH
Badenstedter Straße 56
30453 Hannover
Telefon +49 5112129-0 Fax -223
E-Mail info@koerting.de

Flüssigkeitsstrahl-Feststoffpumpe (FFeP)

aus GJS, Treibdüse aus Gussbronze, fahrbar

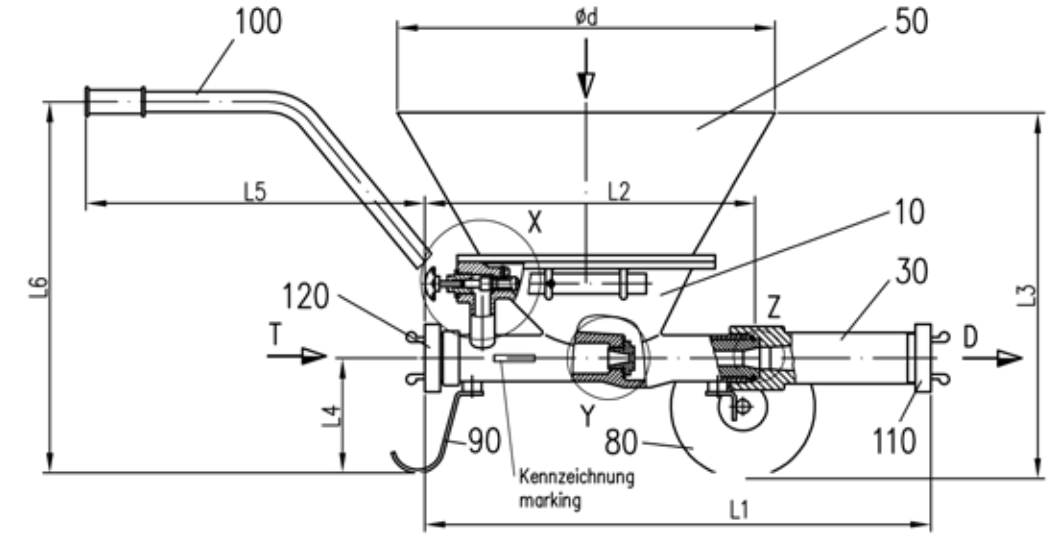
Liquid jet solids ejector (FFeP)

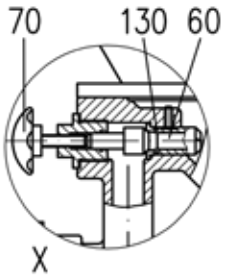
made of nodular cast iron, motive nozzle made of cast bronze, mobile

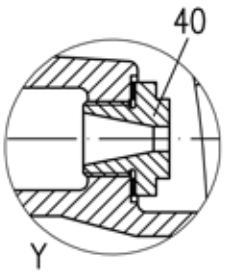
Technisches Datenblatt
Techn. Data Sheet

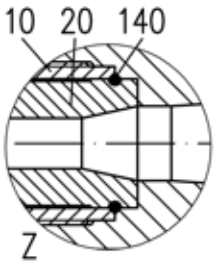
TD 184001

Seite/Page 1 2









Bestell-Nummer requisition no.	Festkupplung DN rigid coupling		Baumaße dimensions							Spurweite gauge	Gewicht weight
	T	D	L_1	L_2	L_3	L_4	L_5	L_6	ød		[kg]
184001 473140	C	C DIN 86204	630	482	570	164	570	550	554	500	36,5
184001 473150	DIN 86204	B DIN 86205	750								38,0

Tab.2

T Treibanschluss motive connection
D Gemischanschluss mixed flow connection

Pos. item	Benennung	denomination	Werkstoff	material
10	Gehäuse	casing	GJS	GJS
20	Mischstrecke	mixing element	GJS	GJS
30	Diffusor	diffusor	GJS	GJS
40	Treibdüse	motive nozzle	Bronze	cast bronze
50	Trichter	funnel	PE	PE
60	Spüldüse	flushing nozzle	Bronze	cast bronze
70	Ventilkopf	valve head	Messing	brass
80	Radsatz	wheelset	C-St/Gummi	C-St/rubber
90	Fuß	foot	C-St	C-St
100	Schubstange	piston	C-St verz.	C-St galv.
110	Festkupplung	rigid coupling	Messing	brass
120	Festkupplung	rigid coupling	Messing	brass
130, 140	O-Ring (Set)	o-ring (set)	NBR	NBR
---	Dichtung	gasket	SIL	SIL

Tab.1

Schubstangen werden lose mitgeliefert.
Pistons are supplied in bulk.

Änderungen vorbehalten !
Subject to change !

Schutzvermerk ISO 16016 beachten.
Refer to protection notice ISO 16016

Ausgabe: 2020-01-10
Issue:

Körting Hannover GmbH
Badenstedter Straße 56
30453 Hannover
Telefon +49 5112129-0 Fax -223
E-Mail info@koerting.de

Flüssigkeitsstrahl-Feststoffpumpe (FFeP)

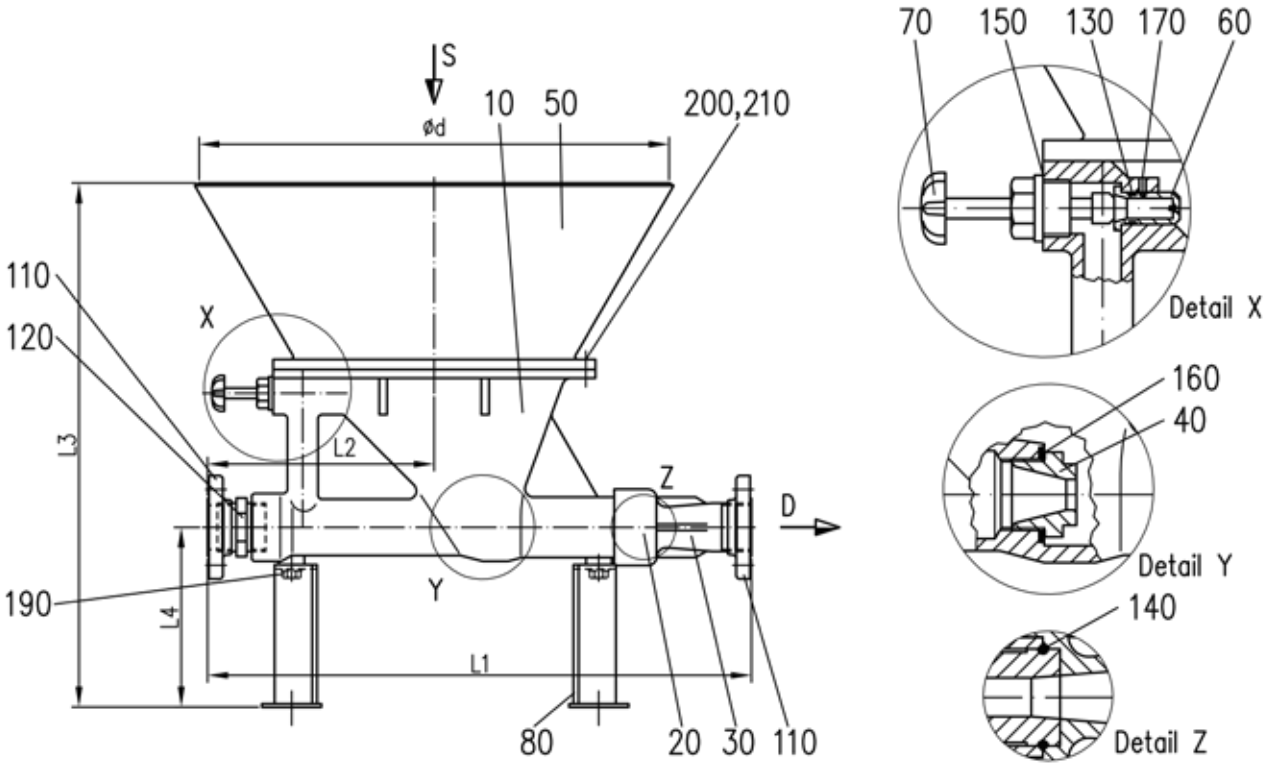
aus GJS, Treibdüse aus Gussbronze, stationär

Liquid jet solids ejector (FFeP)

made of nodular cast iron, motive nozzle made of cast bronze, stationary

Technisches Datenblatt
Techn. Data Sheet

TD 184001



T	Treibanschluss motive connection
D	Gemischanschluss mixed flow connection
S	Zufuhr supply

Bestell-Nummer requisition no.	Anschlussmaße Connection dimension DN			Baumaße dimensions					Gewicht weight
	T	D	Norm/standard	L_1	L_2	L_3	L_4	ød	[kg]
184001	50	50	EN 1092-1	650	265	725	320	554	39

Tab.2

Pos. item	Benennung	denomination	Werkstoff	material
10	Gehäuse	casing	GJS	GJS
20	Mischstrecke	mixing element	GJS	GJS
30	Diffusor	diffuser	GJS	GJS
40	Treibdüse	motive nozzle	Bronze	cast bronze
50	Trichter	funnel	PE	PE
60	Spüldüse	flushing nozzle	Bronze	cast bronze
70	Ventilkopf	valve head	Messing	brass
80	Rahmen	frame	CrNi-St	CrNi-St
110	Flansch	flange	C-St verz.	C-St galv.
120	Doppelnippel	double nipple	C-St verz.	C-St galv.
130, 140	O-Ring (Set)	o-ring (set)	NBR	NBR
150, 160	Dichtring	seal ring	SIL	SIL
170	Gewindestift	setscrew	45H gvz	45H gvz
190, 200	Sechskantschraube	hexagonal bolt	8.8 gvz	8.8 gvz
210	Sechskantmutter	hexagonal nut	8 gvz	8 gvz

Tab.1

Ausgabe: 2021-12-08
Issue:

Körting Hannover GmbH
Badenstedter Straße 56
30453 Hanover | Germany

+49 511 2129 - 284
sales@koerting.de

KOERTING.DE

130-FFeP-EN-220610