

OSCHATZ GmbH / NICICO Iran**Item 1 1 pc. Drag Chain Conveyor B = 800 mm, L = 35,8 m for radiation section
225-CV-001**

Capacity, design maximum	max. 25 t/h, specific weight 1,0-2,0 t/m ³ , temperature 450°C (temporary max.650°C)
Chain speed, design maximum 50 Hz	3 m/min (lower at normal capacity)
Frequency converter	delivered by others
Chain	2 pcs type 216, flight spacing 648 mm, scraper flight spacing approx. 3 m
- chain material	20 MnCr5, case hardened, hardness 60 RC
- flight material	carbon steel
- scraper flight	carbon steel + hard welding
Drive wheels	Z = 8, with changeable tooth rims, Dillidur 400 V or equal
Tail wheel	Z = 7, two-part wheel, Dillidur 400 V or equal
Gear motor	11 kW, Nord, 400VAC
Roller chain reduction	i = 3,52 :1, with shear pin, 32B-2
Frame structure	
- flange	Pl 10 mm carbon steel
- covers	Pl 4 mm carbon steel
- sides	Pl 10 mm carbon steel
- bottom	Pl 16 mm Dillidur 400 V or equiv.
- support rail for return chain	2 kpl 16 x 120 mm Dillidur 400 V or equal
- side rail for return chain	2 kpl 16 x 80 mm Dillidur 400 V or equal
- side rail for conveying chain	2 kpl 16 x 80 mm Dillidur 400 V or equal
Spring support	2 pcs
Zero speed switch	IFM

Hopper part length abt. 31,5 m

Delivery includes

- Conveyor tail end and drive end assembled
- Drag chain with flights
- Slide rails Pl 16 mm Dillidur 400 V or equal
- Conveyor bottom Pl 16 mm Dillidur 400 V or equal
- Attachment with M20 bolts

In the drive end there are service doors, 3 pcs

In the tail end there are service doors, 2 pcs

Equipment dry weight approx. 23.100 kg

Item 2 1 pc. Drag Chain Conveyor B = 800 mm, L = 22,6 m for convection section
225-CU-002

Capacity, design maximum	max. 25 t/h, specific weight 1,0-2,0 t/m ³ temperature 450°C (temporary max.650°C)
Chain speed, design maximum 50 Hz	3 m/min (lower at normal capacity)
Frequency converter	delivered by others
Chain	2 pcs type 216, flight spacing 648 mm, scraper flight spacing approx. 3 m
- chain material	20 MnCr5, case hardened, hardness 60 RC
- flight material	carbon steel
- scraper flight	carbon steel + hard welding
Drive wheels	Z = 8, with changeable tooth rims, Dillidur 400 V or equal
Tail wheel	Z = 7, two-part wheel, Dillidur 400 V or equal
Gear motor	5,5 kW, Nord, 400VAC
Roller chain reduction	i = 3,52 :1, with shear pin, 32B-1
Frame structure	
- flange	Pl 10 mm carbon steel
- covers	Pl 4 mm carbon steel
- sides	Pl 10 mm carbon steel
- bottom	Pl 16 mm Dillidur 400 V or equiv.
- support rail for return chain	2 kpl 16 x 120 mm Dillidur 400 V or equal
- side rail for return chain	2 kpl 10 x 80 mm Dillidur 400 V or equal
- side rail for conveying chain	2 kpl 10 x 80 mm Dillidur 400 V or equal
Spring support	1 pc
Zero speed switch	IFM
Hopper part length abt. 18,6 m	
Delivery includes	
- Conveyor tail end and drive end assembled	
- Drag chain with flights	
- Slide rails Pl 16 mm Dillidur 400 V or equal	
- Conveyor bottom Pl 16 mm Dillidur 400 V or equal	
- Attachment with M20 bolts	
In the drive end there are service doors, 3 pcs, carbon steel.	
In the tail end there are service doors, 2 pcs, carbon steel.	
Equipment dry weight	approx. 14.600 kg

Item 3 Slide gate 800x800 mm

- Materials
- Frame: Carbon steel
 - Slide plate: Stainless steel

General

Shaft inlets have tightened and lubricated sealing housings.

Shaft bearings and inspection doors are designed for 100 mm insulation.

Insulation is not included to Raumaster delivery.

Load factor of the gearing based on the electric motor is ~ 1,2.

The intermediate pipes of the conveyor are erected consecutively at the workshop in order to verify the straightness of the conveyor's and the boiler chute's flange joint.

The max. temperature of conveyed material is 500 °C. Temporary maximum of 650° is allowed.

Conveyors are designed and manufactured according to European standards (DIN EN).

Bearing housings are type SKF SNL

Bearings are type SKF serie 222

Bearing seals are type SKF TSN G

Bolts are hot galvanized and according strength class 8.8.

Project **3046**

Offer no.

Customer **OSCHATZ GmbH**

Created **03.04.2013 / UKI**

Spare part list by position

Customer position	Device/name	Assembly drawing	Part no.	Master code	Units/device	Total amount	Unit	Recommended amount	Wear part	Spare part
3046.101	Drag chain conveyor	EH-CDB-0800	P1115118			1	pc			
3046.101	225-CV-001 Drag chain conveyor B=800 H=650, L=35.855m									
3046.101	3 Drive end assembly B=800 L=2100	P1115118	1 P1116219		1	1	pc			
3046.101	318 Gear Motor SK103/52-160M/4	P1116219	1 29400		1	1	pc			X
3046.101	322 Spherical roller bearing 22228 CC/W33	P1116219	2 05747		2	2	pc			X
3046.101	324 Bearing housing SNL 528	P1116219	3 03333		2	2	pc			X
3046.101	325 Locating ring SKF FRB 15/250	P1116219	4 03361		2	2	pc			X
3046.101	324 Sealing TSN 228 L	P1116219	5 03453		2	2	pc			X
3046.101	324 End cover ASNH 528	P1116219	6 03507		1	1	pc			X
3046.101	322 Spherical roller bearing 22213 EK	P1116219	7 05727		2	2	pc			X
3046.101	325 Adapter sleeve H 313	P1116219	8 03406		2	2	pc			X
3046.101	324 Bearing housing SNL 513-611	P1116219	9 03323		2	2	pc			X
3046.101	325 Locating ring SKF FRB 10/120	P1116219	10 03337		2	2	pc			X
3046.101	324 Sealing TSN 513 L	P1116219	11 03467		2	2	pc			X
3046.101	324 End cover ASNH 513-611	P1116219	12 03498		2	2	pc			X
3046.101	351 Roller chain 32B-2 DIN 8187, 115 links	P1116219	14 03046		5.8422	5.8422	m		X	
3046.101	351 Straight connection link 32B-2 DIN 8187	P1116219	15 03058		1	1	pc		X	
3046.101	352 Roll chain sprocket 60/32B-2 L=180	P1116219	16 29212		1	1	pc			X
3046.101	6V Roller chain sprocket with shear pin Z=17/32B-2 Dxl=130x250	P1116219	17 P1116221		1	1	pc		X	
3046.101	6 Shear pin ø22	P1116219	18 P40321		6	6	pc		X	
3046.101	7 Chain releaser 216	P1116219	24 P306574		1	1	pc			X
3046.101	7 Chain releaser 216	P1116219	25 P1116320		1	1	pc			X
3046.101	7 Chain releaser 216	P1116219	26 P306575		1	1	pc			X
3046.101	7 Chain releaser 216	P1116219	27 P1116321		1	1	pc			X

Raumaster position	Class code	Customer position	Device/name	Assembly drawing	Part no.	Raumaster code	Units/device	Total amount	Unit	Recommended amount	Wear part	Spare part
3046.101	6		Drive wheel Z=8/216	P1116219	34 P206724		4	4	pc		X	
3046.101	6		Tail wheel Z=5/216, d=75	P1116219	35 P306571		2	2	pc		X	
3046.101	6V		Packing housing d=70	P1116219	36 P308453/70		2	2	pc			X
3046.101	6V		Packing housing d=170	P1116219	38 P308453/170		2	2	pc			X
3046.101	336		Glass-fiber fabric 3 mm LK100	P1116219	68 06607		0.3264	0.3264	m ²			X
3046.101	3		Tail end B=800 H=650, L=4375	P1115118	2 P1116111		1	1	pc			
3046.101	322		Spherical roller bearing 22228 CCK/W33	P1116111	1 05748		2	2	pc			X
3046.101	325		Adapter sleeve H 3128	P1116111	2 03405		2	2	pc			X
3046.101	324		Bearing housing SNL 528	P1116111	3 03333		2	2	pc			X
3046.101	325		Locating ring SKF FRB 15/250	P1116111	4 03361		2	2	pc			X
3046.101	324		Sealing TSN 528 G	P1116111	5 03481		2	2	pc			X
3046.101	6V		Packing housing d=150	P1116111	6 P308453/150		2	2	pc			X
3046.101	7		Tail wheel Z=7/216	P1116111	15 P320132		1	1	pc			X
3046.101	7		Tail wheel ø390	P1116111	16 P320133		1	1	pc			X
3046.101	336		Glass-fiber fabric 3 mm LK100	P1116111	28 06607		0.544	0.544	m ²			X
3046.101	3		Drag chain 2x216 C/C=670	P1115118	9 P2005931		72.144	72.144	m			X
3046.101	7		Rotation guard Z=9 PCT	P1115118	13 P302353		1	1	pc			X
3046.101	413		Rotation guard DI 0001 IFM	P1115118	14 04217		1	1	pc			X
3046.101	335		Glass fibre webbing 5x100	P1115118	29 20982		67	67	m			X
3046.102			Drag chain conveyor									
3046.102	2	225-CV-002	Drag chain conveyor B=800 H=650, 22,605m	EH-CDB-0800	P1116467			1	pc			
3046.102	3		Drive end assembly B=800 L=2100	P1116467	1 P1116653		1	1	pc			
3046.102	318		Gear Motor SK83-132S/4	P1116653	1 29213		1	1	pc			X
3046.102	322		Spherical roller bearing 22228 CC/W33	P1116653	2 05747		2	2	pc			X
3046.102	324		Bearing housing SNL 528	P1116653	3 03333		2	2	pc			X
3046.102	325		Locating ring SKF FRB 15/250	P1116653	4 03361		2	2	pc			X
3046.102	324		Sealing TSN 228 L	P1116653	5 03453		2	2	pc			X
3046.102	324		End cover ASNH 528	P1116653	6 03507		1	1	pc			X
3046.102	322		Spherical roller bearing 22213 EK	P1116653	7 05727		2	2	pc			X

Raumaster position	Class code	Customer position	Device/name	Assembly drawing	Part no.	Raumaster code	Units/device	Total amount	Unit	Recommended amount	Wear part	Spare part
3046.102	325		Adapter sleeve H 313	P1116653	8 03406		2	2	pc			X
3046.102	324		Bearing housing SNL 513-611	P1116653	9 03323		2	2	pc			X
3046.102	325		Locating ring SKF FRB 10/120	P1116653	10 03337		2	2	pc			X
3046.102	324		Sealing TSN 513 L	P1116653	11 03467		2	2	pc			X
3046.102	324		End cover ASNH 513-611	P1116653	12 03498		2	2	pc			X
3046.102	351		Roller chain 32B-2 DIN 8187, 109 links	P1116653	14 03046		5.5372	5.5372	m		X	
3046.102	351		Straight connection link 32B-1 DIN 8187	P1116653	15 06956		1	1	pc		X	
3046.102	352		Roll chain sprocket 60/32B-1 L=160	P1116653	16 03189		1	1	pc			X
3046.102	6V		Roller chain sprocket with shear pin Z=17/32B-1	P1116653	17 P220473		1	1	pc		X	
3046.102	6		Shear pin ø18	P1116653	18 P40321		6	6	pc		X	
3046.102	7		Chain releaser 216	P1116653	24 P306574		1	1	pc			X
3046.102	7		Chain releaser 216	P1116653	25 P1116320		1	1	pc			X
3046.102	7		Chain releaser 216	P1116653	26 P306575		1	1	pc			X
3046.102	7		Chain releaser 216	P1116653	27 P1116321		1	1	pc			X
3046.102	6		Drive shaft	P1116653	32 P221798		1	1	pc			X
3046.102	6		Drive wheel Z=8/216	P1116653	34 P206724		4	4	pc		X	
3046.102	6		Tail wheel Z=5/216, d=75	P1116653	35 P306571		2	2	pc		X	
3046.102	6V		Packing housing d=70	P1116653	36 P308453/70		2	2	pc			X
3046.102	6V		Packing housing d=170	P1116653	38 P308453/170		2	2	pc			X
3046.102	336		Glass-fiber fabric 3 mm LK100	P1116653	66 06607		0.3264	0.3264	m ²			X
3046.102	3		Tail end B=800 H=650, L=1955	P1116467	2 P1116468		1	1	pc			
3046.102	322		Spherical roller bearing 22218 EK	P1116468	1 05736		2	2	pc			X
3046.102	325		Adapter sleeve H 318	P1116468	2 03412		2	2	pc			X
3046.102	324		Bearing housing SNL 518-615	P1116468	3 03327		2	2	pc			X
3046.102	325		Locating ring SKF FRB 12.5/160	P1116468	4 03354		2	2	pc			X
3046.102	324		Sealing TSN 518 L	P1116468	5 03473		2	2	pc			X
3046.102	6V		Packing housing d=100	P1116468	6 P308453/100		2	2	pc			X
3046.102	7		Tail wheel Z=7/216, d=115	P1116468	15 P320132		1	1	pc			X
3046.102	7		Tail wheel ø390, d=115	P1116468	16 P320133		1	1	pc			X
3046.102	336		Glass-fiber fabric 3 mm LK100	P1116468	28 06607		0.56	0.56	m ²			X

Raumaster position	Class code	Customer position	Device/name	Assembly drawing	Part no.	Raumaster code	Units/device	Total amount	Unit	Recommended amount	Wear part	Spare part
3046.102	3		Drag chain 2x216 C/C=670	P1116467	7 P2005931	45.36	45.36	m			X	
3046.102	7		Rotation guard Z=9 PCT	P1116467	11 P302353	1	1	pc				X
3046.102	413		Rotation guard DI 0001 IFM	P1116467	12 04217	1	1	pc				X
3046.102	335		Glass fibre webbing 5x100	P1116467	27 20982	41	41	m				X
3046.103 Slide gate, manual												
3046.103	2		Slide gate 800x800, H=140	EH-VSM	P1117739	2	2	pc				
3046.103	6		Trapezoid thread Tr30*6 Xx800	P1117739	3 P3007333	1	2	pc				X
3046.103	6V		Trapezoid nut	P1117739	5 P431629	1	2	pc				X
3046.103	239		Bearing bush 18x20 SMS 776 EN 1982-CuSn5Zn5Pb5-C	P1117739	10 06794	1	2	pc				X
3046.103	327		Flange bearing 22x16 SMS 778	P1117739	11 06791	2	4	pc				X
3046.103	335		Graphite impregnated glass fiber rope 12x12 mm LKPGR	P1117739	22 12443	4.8	9.6	m				X
Common spare parts												
335			Sealing rope, glass fiber ø5mm		07382			m			X	X
7			Access door 400x400 ZnK		P44774			pc				
7			Access door 400x250 ZnK		P44778			pc				