PRETREATMENT EQUIPMENT











Screw Compactor · TC



Screw Conveyor \cdot TT



Sand Remover · DA



Channel Screen Conveyor · TTC



Compact Pretreatment Plant · PPC

DEFENDER®, MANUFACTURED IN STAINLESS STEEL





Technical Specifications:

	Screw Compactor - Technical Specifications, mm (in)													
Model	Screw Diameter	Power Kw (HP)	Flow 0° m³/h (US gpm)	Drainage Diameter	А	В	С	D	E	F	G	Н	I	
TC - 160	160 (6 2/8)	1.1 (1.5)	1.16 (5.11)	2"	2,075 (81 6/8)	1,510 (59 4/8)	300 (11 6/8)	200 (7 _{7/8})	377 (14 _{7/8})	3,050 (120 1/8)	360 (14 1/8)	767 (30 _{2/8})	150 (5 7/8)	
TC - 215	215 (8 4/8)	1.5 (2)	2.81 (12.37)	3"	3,075 (121 1/8)	2,510 (98 7/8)	350 (13 6/8)	235 (9 _{2/8})	406 (16)	4,110 (161 6/8)	410 (16 1/8)	844 (33 _{2/8})	150 (5 7/8)	
TC - 280	280 (11)	2.2 (3)	6.21 (27.34)	3"	2,575 (101 3/8)	2,010 (79 1/8)	435 (17 1/8)	275 (10 7/8)	444 (17 4/8)	3,650 (143 _{6/8})	495 (19 _{4/8})	929 (36 5/8)	150 (5 7/8)	
TC - 315	315 (12 3/8)	2.2 (3)	8.84 (38.92)	3"	4,075 (160 _{3/8})	3,510 (138 _{2/8})	475 (18 6/8)	305 (12)	466 (18 3/8)	5,220 (205 4/8)	535 (21 1/8)	979 (38 4/8)	150 (5 7/8)	

NOTES:

• The flow figure is for guidance only. Volume and turning speed of this screw will be extrapolated for each application in function of the type of waste to transport, inclination and degree of compaction.

• The length of the unit can be adapted to meet requirements.

• The dimensions and technical specifications can vary slightly due to the ongoing development of the products by the engineering department of Toro Equipment S.L.

- When preparing your order ask for a specifications diagram.
- More specific figures can be found on our webpage, www.toroequipment.com.



Conformity Drawing · TC Defender®:



Technical Specifications:

	Screw Conveyor - Technical Specifications, mm (in)														
Model	Screw Diameter	Power Kw (HP)	Flow 0° m³/h (US gpm)	Flow 25° m ³ /h (US gpm)	А	В	С	D	E	F	G	Н	Ι		
TT - 160	160	1.1	1.16	0.58	2,000	2,775	1,650	575	1,720	310	460	1,230	380		
	(6 2/8)	(1.5)	(5.11)	(2.55)	(78 6/8)	(109 _{2/8})	(65)	(22 5/8)	(67 _{6/8})	(12 2/8)	(18 1/8)	(48 _{3/8})	(15)		
TT - 215	215	1.5	2.81	1.4	3,000	3,775	2,070	994	2,629	360	510	2,139	430		
	(8 4/8)	(2)	(12.37)	(6.16)	(118 1/8)	(148 _{5/8})	(81 4/8)	(39 1/8)	(103 4/8)	(14 1/8)	(20 1/8)	(84 _{2/8})	(16 7/8)		
TT - 280	280	2.2	6.21	3.1	2,500	3,325	1,880	785	2,175	445	595	1,685	515		
	(11)	(3)	(27.34)	(13.65)	(98 _{3/8})	(130 _{7/8})	(74)	(30 _{7/8})	(85 5/8)	(17 _{4/8})	(23 _{3/8})	(66 3/8)	(20 2/8)		
TT - 315	315	2.2	8.84	4.42	4,000	3,520	2,505	1,412	3,537	485	635	3,047	555		
	(12 3/8)	(3)	(38.92)	(19.46)	(157 _{4/8})	(138 5/8)	(98 5/8)	(55 5/8)	(139 _{2/8})	(19 1/8)	(25)	(120)	(21 7/8)		

NOTES:

• The flow figure is for guidance only. Volume and turning speed of this screw will be extrapolated for each application in function of the type of waste to transport, inclination and degree of compaction.

• The length of the unit can be adapted to meet requirements.

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Conformity Drawing · TT Defender®:









Grain-size test of a sample coming from a Defender® sand rermover unit installed in a plastics factory.

Retention at 0.25mm

Retention at 0.063mm

Technical Specifications:

	Sand Remover - Technical Especifications, mm (in)															
Model	Srew Diameter	Power Kw (HP)	Flow m ³ /h (US gpm)	Inlet	Outlet	Drainage	А	В	С	D	E	F	G	Н	I	J
DA - 0,6/100	100 (3 7/8)	0.25 (0.33)	15 (66.045)	DN 100 4"	DN 100 4″	2"	2,621 (103 2/8)	750 (29 4/8)	1,384 (54 4/8)	950 (37 3/8)	988 (38 7/8)	2,215 (87 2/8)	1,300 (51 1/8)	802 (31 5/8)	250 (9 7/8)	1,165 (45 7/8)
DA - 2/215	215 (8 4/8)	0.75 (1)	50 (220.15)	DN 100 4"	DN 150 6"	3"	4,963 (195 3/8)	1,480 (58 2/8)	2,436 (95 7/8)	1,650 (65)	1,666 (65 5/8)	4,190 (165)	2,550 (100 3/8)	1,327 (52 2/8)	250 (9 7/8)	2,330 (91 6/8)
DA - 4/280	280 (11)	1.1 (1.5)	100 (440.30)	DN 200 8"	DN 250 10"	3"	6,058 (238 4/8)	1,880 (74)	2,920 (115)	1,950 (76 6/8)	2,095 (82 4/8)	5,490 (216 1/8)	3,015 (118 6/8)	1,627 (64)	250 (9 7/8)	2,900 (114 1/8)
DA - 6/280	280 (11)	1.5 (2)	150 (660.45)	DN 200 8"	DN 250 10"	3"	6,742 (265 3/8)	2,280 (89 6/8)	3,140 (123 5/8)	2,250 (88 5/8)	3,175 (125)	5,950 (234 2/8)	3,750 (147 5/8)	1,902 (74 7/8)	250 (9 7/8)	2,660 (104 6/8)

NOTES:

• The specified flow rates are for fine sands of 2.65 kg/dm³. It will be necessary to adjust the de-sander depending on the type and quantity of sands to remove. Consult our engineering department for further information.

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• When preparing your order ask for a specifications diagram.

• More specific figures can be found on our webpage, www.toroequipment.com.

Conformity Drawing · DA Defender®:





Technical Specifications:

	Channel Screen Conveyor - Technical Specifications, mm (in)													
Model	Screw Diameter	Power Kw (HP)	А	В	С	D	E	F	G	Н	I			
TTC - 200	190	1.1	1,500	3,750	200	680	2,465	1,450	435	2,465	2,060			
	(7 1/2)	(1.5)	(59)	(147 5/8)	(7 7/8)	(26 6/8)	(97)	(57 1/8)	(17 1/8)	(97)	(81 1/8)			
TTC - 300	262 - 190	1.1	1,500	3,995	300	680	2,605	1,590	435	2,667	2,262			
	(10 3/8 - 7 4/8)	(1.5)	(59)	(157 2/8)	(11 6/8)	(26 6/8)	(102 4/8)	(62 5/8)	(17 1/8)	(105)	(89)			
TTC - 400	344 - 190	1.1	1,500	4,260	400	680	2,757	1,742	506	2,884	2,479			
	(13 4/8 - 7 4/8)	(1.5)	(59)	(167 6/8)	(15 6/8)	(26 6/8)	(108 4/8)	(68 5/8)	(19 7/8)	(113 4/8)	(97 5/8)			
TTC - 500	442 - 190	1.1	1,500	4,510	500	680	2,900	1,885	570	3,088	2,683			
	(17 3/8 - 7 4/8)	(1.5)	(59)	(177 4/8)	(19 5/8)	(26 6/8)	(114 1/8)	(74 2/8)	(22 4/8)	(121 5/8)	(105 5/8)			

Clean Water Maximum Flow Rates, m ³ /h (US gpm)													
Mesh Size	Grill M	esh ▼▼, m	nm (in)	Perforated Mesh Ø, mm (in)									
Model	1.00	2.00	2.00	3.00	4.00	5.00	6.00						
	(0.04)	(0.08)	(0.08)	(0.12)	(0.16)	(0.20)	(0.24)						
TTC - 200	82	127	156	55	65	74	84	93					
	(361)	(559)	(687)	(242)	(286)	(326)	(370)	(409)					
TTC - 300	159	246	302	108	126	144	162	180					
	(700)	(1,083)	(1,330)	(476)	(555)	(634)	(713)	(793)					
TTC - 400	249	386	475	155	198	245	281	324					
	(1,096)	(1,700)	(2,091)	(682)	(872)	(1,079)	(1,237)	(1,427)					
TTC - 500	354	548	674	216	281	353	425	497					
	(1,559)	(2,413)	(2,968)	(951)	(1,237)	(1,554)	(1,871)	(2,188)					





NOTES:

• A reduction factor has to be applied to the specified clean water flow rates, depending on the type and quantity of solids to be removed. Enquiries to our engineering department.

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• More specific figures can be found on our webpage, www.toroequipment.com.







Technical Specifications:

	Compact Pretreatment Plant - Technical Specifications, mm (in)															
Model	Power Kw (HP)	Flow Rate m ³ /h (US gpm)	Inlet	Outlet	Grease Outlet	Drainage	A	В	С	D	E	F	G	н	I	J
PPC-10	3.07	36	DN 150	DN 150	DN 100	DN 50	4,220	1,550	3,950	1,820	1,550	820	310	3,215	1,205	390
	(4.17)	(158.51)	ANSI 6"	ANSI 6"	ANSI 4"	ANSI 2"	(166 1/8)	(61)	(155 4/8)	(71 5/8)	(61)	(32 2/8)	(12 2/8)	(126 5/8)	(47 4/8)	(15 3/8)
PPC-30	4.02	108	DN 200	DN 250	DN 100	DN 50	7,807	1,550	4,214	1,875	1,575	1,045	310	6,802	1,205	490
	(5.46)	(475.52)	ANSI 8"	ANSI 10"	ANSI 4"	ANSI 2"	(307 3/8)	(61)	(165 7/8)	(73 7/8)	(62)	(41 1/8)	(12 2/8)	(267 6/8)	(47 4/8)	(19 2/8)
PPC-60	4.57	216	DN 250	DN 300	DN 150	DN 50	8,807	1,790	4,414	2,070	1,740	1,490	350	7,802	1,497	640
	(6.21)	(951.05)	ANSI 10"	ANSI 12"	ANSI 6"	ANSI 2"	(346 6/8)	(70 4/8)	(173 6/8)	(81 4/8)	(68 4/8)	(58 5/8)	(13 6/8)	(307 1/8)	(58 7/8)	(25 2/8)
PPC-100	5.40	360	DN 350	DN 400	DN 200	DN 100	12,200	2,110	4,720	2,315	1,990	1,490	375	11,195	1,810	740
	(7.34)	(1,585.08)	ANSI 14"	ANSI 16"	ANSI 8"	ANSI 4"	(480 3/8)	(83 1/8)	(185 7/8)	(91 1/8)	(78 3/8)	(58 5/8)	(14 6/8)	(440 6/8)	(71 2/8)	(29 1/8)

NOTES:

• A reduction factor has to be applied to the specified clean water flow rates, depending on the type and quantity of solids to be removed. Enquiries to our engineering department.

• The dimensions and technical specifications can vary slightly due to the ongoing development of the products by the engineering department of Toro Equipment S.L.

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Conformity Drawing · PPC Defender®:

Standard Pretreatment: TTC, DA, TR, TC and FSG



Group TT, TBB, TTM and TT:



Channel Screen Conveyor:



Screw Conveyor:



Group DA, TR and TC:



Compact Pretreatment Plant:



Equipment: Standard 🗾 & Optional 📗

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	Rotary Screen TR 40863 Defender®					
	Rotary Screen TR HPS M&L Defender®					
Static Screen TE Defender®	Static Screen TE Defender®					

NOTAS:

 \bullet The optional equipment has a surcharge. Request information and quotation.

• The ongoing development of the units can alter some of their specifications.

• You will find the latest information in www.toroequipment.com.

Advantages and Applications:

- Extensive range of models designed and tested by Toro Equipment, manufactured in stainless steel type 304 and 316.
- Guaranteed against material or production defects under normal conditions of use and maintenance.
- The Defender[®] equipments can be combined with each other to achieve optimal treatment results.
- Quick and easy installation. Can be mounted in limited spaces.
- Maintenance is fast and easy.
- The units are always wrapped in retractable material and optionally in treated wooden crates.
- Toro Equipment offers commissioning services and after-sales service. Ask for details.
- Applications: paper mills, tanneries and textile works, food industry, municipal works, cellars, fish and meat handling, products with high oil content, canning, laundries, dairy industry, biodiesel, etc.

Quality and Industrial Processes:

- To achieve the high quality of our products and services, Toro Equipment has developed and implemented a Quality Management System according to the standard UNE-EN-ISO 9001, adapted to the needs of the company and is continuously improving the procedure.
- The system is based on continuous monitoring of all activities undertaken in the company:
 - Design.
 - Manufacture.
 - After sales service.
- Standard finish with microsphere shot-blasting.

Compact and Pre-mounted plants:

• Defender[®] pretreatment units can be preinstalled in marine containers or on platforms in the place of origin, ready for assembly and use.

















Factory La Cistérniga - Valladolid



© TORO EQUIPMENT APRIL 2014 DEFENDER® SCREW COMPACTOR DEFENDER® SCREW CONVEYOR DEFENDER® SAND REMOVER DEFENDER® CHANNEL SCREEN CONVEYOR DEFENDER® COMPACT PRETREATMENT PLANT



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