



TORONTECH™

## CATALOGUE

2014

TTAAB-Series of Pulp Pumps (ISO)



PRODUCT BROCHURE

TORONTECH  
**PUMPS**

TORONTECH.COM



TORONTECH™

Torontech™ is a leading North American based international manufacturer and supplier of pumps, pipes, valves & actuators. The Torontech™ group has established an extensive network in the USA as well as international markets and remains to be a preferred vendor of choice supplying quality pumps for today's leading corporations.

Creating comprehensive solutions for our clients has always been the core value of our company. From sales, to order execution, and post-sales support; every staff member is here to assist you in selecting the solution that best suits your unique requirements and budget.

The Torontech™ group offers a complete range of quality pumps that are, ANSI to ISO approved and engineered to last, ensuring your company continuous production without interruptions.

Since the beginning, we have succeeded in only offering quality manufactured pumps that are currently being used worldwide. We offer the best value for your investment and provide world-class support.

Due to the demand for our quality pumps, Torontech™ has experience explosive growth primarily in the oil & gas, water filtration and chemical refinery industries.

We offer an extensive range of solutions and products for oil & gas projects, refineries, petrochemical plants, and marine applications. Our main class of pumps includes API (American Petroleum Institute) Standard, Mining, Water & Sewage and Firefighting applications. The pumps are offered in various configurations depending on orientation of the pump, required head and type of fuel used for operation.





TTAAB-Series of Pulp Pumps (ISO)

Wide Hydraulic Coverage

**Description**

- TTAAB series of pulp pump is designed for continuous operation in industrial process.
- Which means the pumps can be used for all kinds of liquids from clean water to abrasive or corrosive liquids.
- The main feature is as follows:
  - 1 - Self-venting top, centerline casing, externally adjustable side plate, double volute casing for large size.
  - 2 - Balance hole on the impeller, heavy duty bearing, back vane stabilize the pressure in the shaft seal chamber.

**Dynamic Seal:**

- Dynamic seal is specially designed for fibrous liquids such as paper stock or other different liquids.
- The dynamic seal do not need the external flushing water. It is essentially free of maintenance with outstanding reliability.

**Mechanical Seal:**

- Single mechanical seal: can use liquid for the lubrication and cooling.
- Cartridge dural mechanical seal/normal dural mechanical seal: need high pressure seal pipe.
- Cartridge Single Mechanical seal: need higher pressure bars 2-3bar than suction pressure of pump

Gland Packing: Need high pressure seal pipe.

**Bearing:**

- (NU308E/7308B, NU310E/7310B, NU312E/7312B, NU316E/7316B, NU320E/7320B)

**Shaft Seal:**

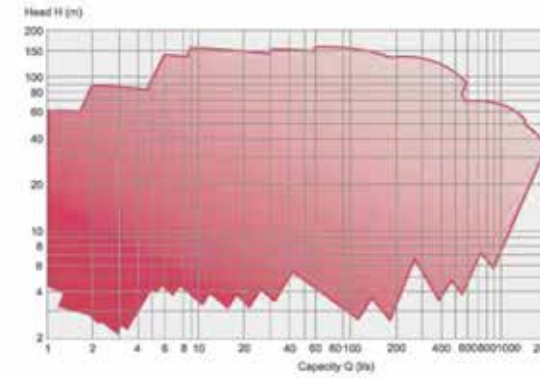
- 38mm/48mm/53mm/65mm/90mm
- Gland Packing: Need high pressure seal pipe.
- Single mechanical seal: can use liquid for the lubrication and cooling.
- Cartridge dural mechanical seal/normal dural mechanical seal: need high pressure seal pipe.
- Cartridge Single Mechanical seal: need higher pressure bars 2-3bar than suction pressure of pump

**Flange:**

- Standard: DIN2501 1.0 Mpa (10bar)
- Option: 1.6Mpa (16bar)

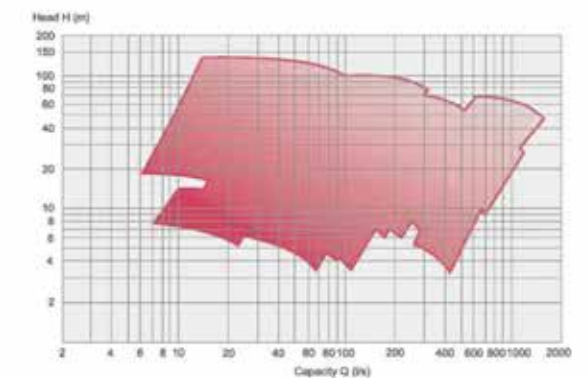
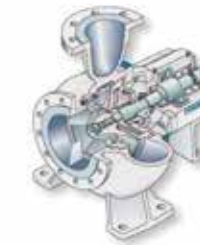
**Technical Data:**

- Flow (max): 3300m<sup>3</sup>/h
- Head(max):100m
- Speed: 750rpm/990rpm/1450rpm/2900rpm (50Hz)
- 1750rpm/3500rpm (60Hz)
- Temperature: -10°C--120°C
- Operating Pressure: 1.0Mpa to 1.6Mpa
- Max Test pressure 2.5Mpa
- Max solid contains: <8%



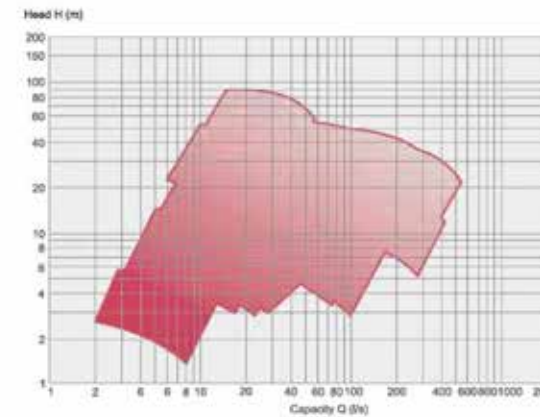
**A Performance**

Head up to 160 m.  
Temperature max. 180 °C.  
Capacity up to 2000 l/s.  
Operating frequencies 50 or 60 Hz.  
Pressure up to 1.6 MPa,  
depending on material and size.



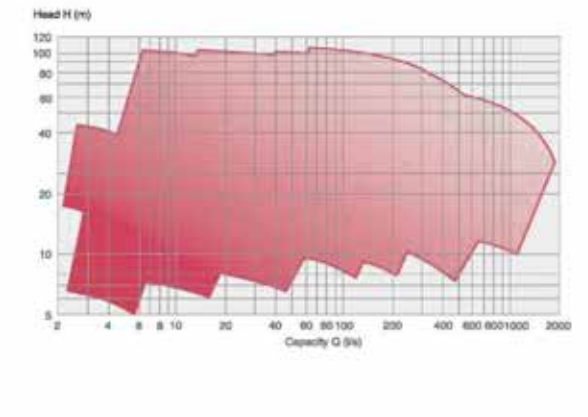
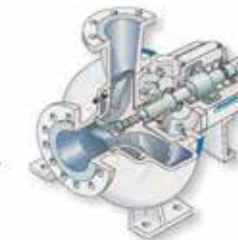
**E Performance**

Head up to 140 m.  
Temperature max. 210 °C.  
Capacity up to 1700 l/s.  
Operating frequencies 50 or 60 Hz.  
Pressure up to 2.5 MPa.



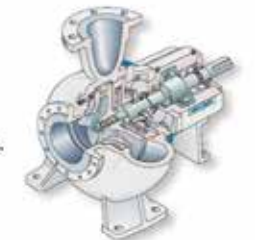
**N Performance**

Head up to 90 m.  
Temperature max. 180 °C.  
Capacity up to 550 l/s.  
Operating frequencies 50 or 60 Hz.  
Pressure up to 1.6 MPa,  
depending on material and size.



**W Performance**

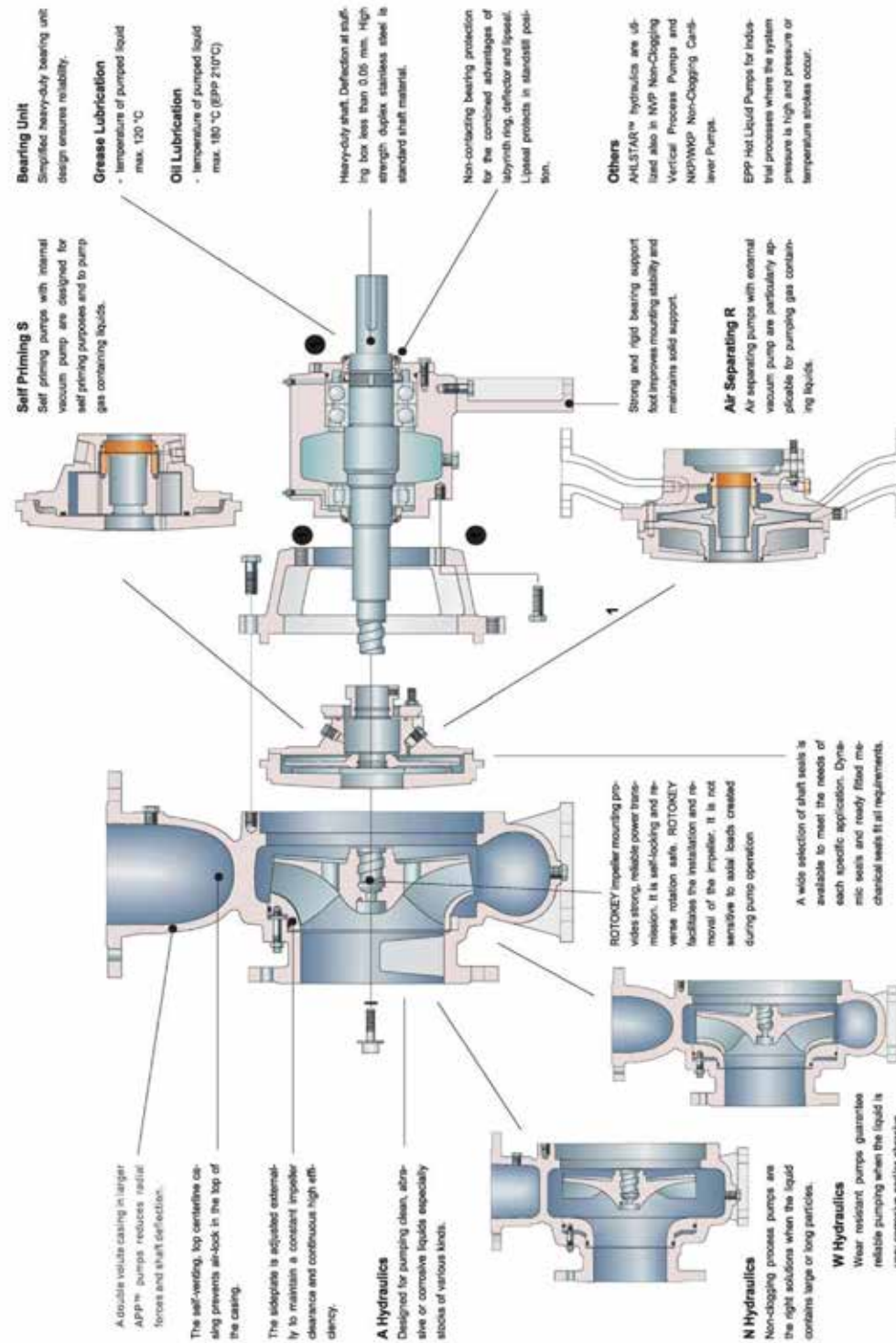
Head up to 110 m.  
Temperature max. 180 °C.  
Capacity up to 2000 l/s.  
Operating frequencies 50 or 60 Hz.  
Pressure up to 1.6 MPa,  
depending on material and size.







TTAAB-Series of Pulp Pumps (ISO)



An Impeller Tailored to Each Liquid

**Closed Impeller**

is used for pumping clean liquids or liquids containing some impurities.

APP  
EPP



**Open Impeller**

is designed for liquids containing solid particles, abrasive liquids or stock up to 8 % consistency.

APP  
ARP  
ASP  
EPP



**Special Open Impeller**

is suitable for liquids containing bigger solid particles and long fibers, abrasive liquids or stock up to 8 % consistency.

APP  
ARP  
ASP



**Low Pulse Impeller**

is designed and manufactured to minimize pressure pulsations.

APP



**Non-clogging Closed Impeller**

is used for sludges or slurries containing big solid particles.

NPP  
NRP  
NSP



**Vortex Impeller**

is suitable for liquids containing big or long solid particles or abrasive liquids.

NPP  
NRP  
NSP  
WPP  
WRP  
WSP



**Wear Resistant Closed Impeller**

is used for pumping both erosive and corrosive liquids or slurries containing solid particles.

WPP  
WRP  
WSP



**Wear Resistant Open Impeller**

is suitable for liquids with bigger solid particles and long fibers, abrasive liquids or stock up to 8% consistency.

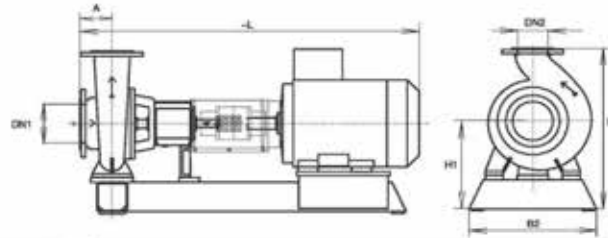
WPP  
WRP  
WSP







Main Dimensions



**TTAAB Pulp Pumps**

Dimensions ISO 2858 (up to size 44-200)  
Specifications ISO 5199  
Stuffing box ISO 3069  
Flange drilling Several flange drilling options according to valid standards.

Size	DN1	DN2	B2 <sup>1)</sup>	H <sup>1)</sup>	L <sup>1)</sup>	A	H1	Weight kg <sup>2)</sup>
11-32	50	32	500	480	1240	80	300	125
11-40	65	40	500	480	1260	100	300	125
11-50	80	50	630	540	1330	100	340	160
21-65	100	65	630	640	1580	100	415	230
21-80	125	80	630	665	1600	125	415	240
22-32	50	32	630	620	1490	100	395	230
22-40	65	40	630	670	1710	100	445	250
22-50	80	50	630	640	1600	125	415	235
22-65	100	65	720	730	1820	125	480	275
22-80	125	80	720	760	1820	125	480	280
23-40	65	40	630	740	1700	125	460	280
23-50	80	50	720	800	2020	125	520	350
31-100	125	100	730	835	2290	140	555	420
31-125	150	125	730	910	2290	140	555	430
31-150	200	150	630	840	1670	160	465	340
32-65	100	65	730	835	2270	125	555	420
32-80	125	80	730	870	2270	125	555	410
32-100	125	100	730	915	2400	140	600	480
32-125	150	125	730	955	2400	140	600	500
33-100	125	100	720	820	1780	140	465	370
33-125	150	125	720	900	1860	140	500	400
41-200	250	200	730	980	2100	200	530	510
41-300	300	300	730	1175	2150	225	615	630
42-150	200	150	730	930	2100	180	530	460
42-200	250	200	730	980	2100	180	530	500
43-250	300	250	830	1175	2600	225	615	660
43-300	350	300	880	1365	2700	250	735	870
44-150	200	150	830	1005	2350	180	555	570
44-200	250	200	880	1175	2650	180	675	740
51-250	300	250	880	1295	2850	200	735	840
51-300	350	300	1160	1440	2900	250	770	1060
52-350	400	350	880	1645	2900	280	845	1190
52-400	400	400	1160	1770	2900	280	920	1420
53-100	200	100	880	1185	2700	180	685	740
53-150	250	150	880	1185	2800	180	685	780
53-200	250	200	1160	1330	2800	180	770	1000
53-250	300	250	1160	1400	2850	200	770	1060
53-300	350	300	1160	1590	3100	250	920	1110
54-400	500	400	1160	1850	3000	355	1000	1600
54-500	500	500	1160	2000	3000	355	1000	1780
55-100	200	100	1160	1330	2850	250	770	1130
55-200	300	200	1160	1415	2820	200	785	1250
55-250	300	250	1160	1495	2850	225	785	1330
55-300	400	300	1160	1645	2870	250	845	1410
61-500	500	500	1340	2100	3180	400	1100	2350
61-600	600	600	1340	2280	3180	420	1100	2350
62-400	500	400	1340	1960	3135	355	1010	2020

Size	DN1	DN2	B2 <sup>1)</sup>	H <sup>1)</sup>	L <sup>1)</sup>	A	H1	Weight kg <sup>2)</sup>
31-65	100	65	755	780	1790	140	465	390
31-100	150	100	795	820	1830	160	465	400
32-100	150	100	875	965	1910	175	555	480
41-150	200	150	940	1000	2010	195	590	530
41-200	250	200	1010	1105	2070	200	640	600
42-150	200	150	1010	1100	2100	195	640	600
42-200	250	200	1050	1155	2520	200	640	650
42-250	300	250	1150	1230	2640	220	657	760
43-100	150	100	1010	1100	2040	175	640	660
43-150	200	150	1050	1150	2510	195	640	690
52-350	400	350	1600	1950	3160	355	1100	2580
53-100	200	100	1200	1240	2870	195	740	1000
53-200	250	200	1200	1305	2870	220	740	1030
53-250	300	250	1200	1360	2870	220	740	1100
53-300	350	300	1350	1420	3040	220	800	1300
54-300	350	400	1480	1590	3080	270	870	1550
54-500	500	500	1600	1980	3180	355	1100	2960
55-300	400	300	1480	1620	3090	270	870	200
61-500	500	500	1800	2260	3260	400	1200	3550
21-50	80	50	720	680	1820	125	480	260
21-80	100	80	720	705	1885	160	480	270
22-50	80	50	720	705	1830	125	480	275
22-80	100	80	630	715	1785	160	465	260
31-100	150	100	720	745	1835	180	465	310
32-80	100	80	720	760	1875	160	480	335
32-100	150	100	730	870	2365	180	555	440
33-80	100	80	730	910	2140	160	555	480
33-100	150	100	730	910	2355	180	555	480
42-150	200	150	880	1070	2710	200	670	680
42-200	200	200	880	1120	2710	210	670	720
44-150	200	150	880	1070	2710	200	670	710
44-200	200	200	880	1125	2710	210	675	740
53-250	250	250	1160	1370	2950	240	770	1125
22-32	50	32	630	640	1600	125	415	265
22-50	65	50	630	640	1600	125	415	265
23-50	80	50	720	800	2020	125	520	390
32-80	125	80	730	870	2270	125	555	460
32-100	125	100	730	915	2400	140	600	535
32-125	150	125	730	955	2420	160	600	555
33-100	125	100	720	820	1780	140	465	435
44-150	200	150	830	1005	2350	160	555	655
44-200	250	200	880	1175	2650	180	675	840
53-100	200	100	880	1185	2700	180	685	845
53-150	250	150	880	1185	2800	180	685	895
53-200	250	200	1160	1330	2800	200	770	1150
53-250	300	250	1160	1400	2850	225	770	1230
54-400	500	400	1160	1850	3000	355	1000	1910
55-300	400	300	1160	1645	2870	250	845	1700
61-600	600	600	1340	2280	3180	420	1100	3185

1) Max. dimensions for biggest IEC-motor required in standard operation  
2) With biggest steel baseplate and coupling but without motor.  
APP is available with both metric and US standard dimensions with compatible fasteners and fittings. NOTE! Dimensions not to be used for construction.



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TM

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