

Creating <sup>Dewatering</sup> solutions  
over three decades



*Simply pump!*

# TOUGH PUMPS FOR INDUSTRIAL APPLICATIONS



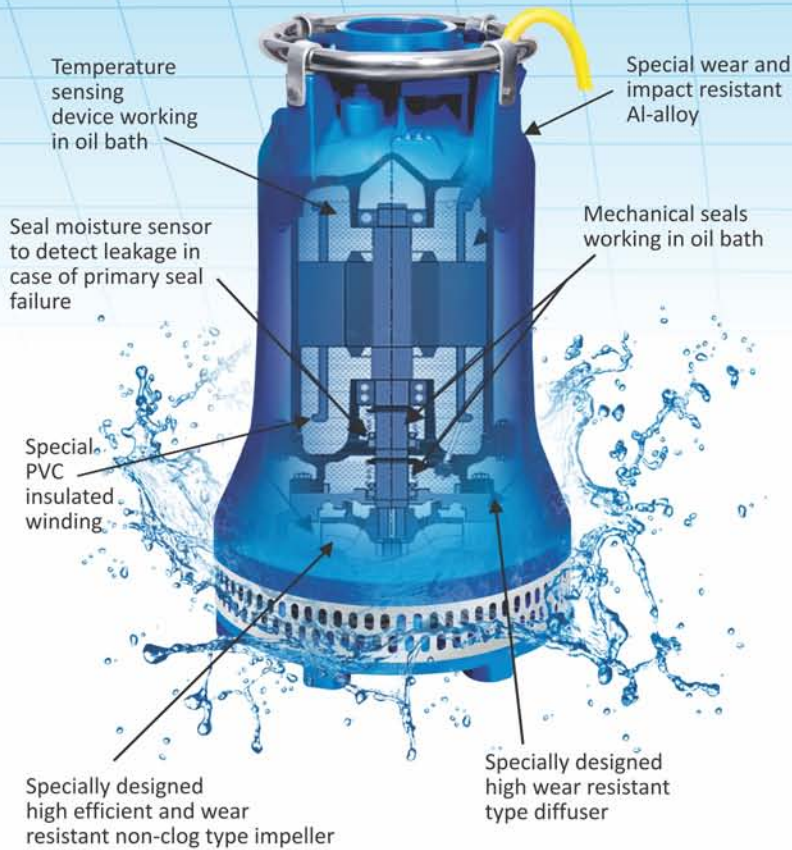
- Automobile grade aluminum alloy for higher corrosive resistance & higher ductile strength
- Protection against dry running, unique design ensures continuous cooling
- Wide impeller passages, less wear & tear, better overall efficiencies
- Motor capable to withstand adverse load fluctuations
- Mechanical seals independent of discharge pressure
- Protection against ingress of water through cable

TUFF & T SERIES PUMPS

**DARLING PUMPS**  
Pioneers in Submersible

# TUFF SERIES

Darling Tuff Series JT Pumps are very much ideal for tough & varied pumping demands in arena of industrial water dewatering. Industries like Steel, Cement, Power, Pharma etc. where liquid may contain abrasive particles can largely benefit from these Pumps. These pumps are also ideal for basement dewatering & for pumping heavily contaminated water with sand, gravel & sludge.



## DENOMINATION

Product code	JT
Installation	Vertical/Portable
Impeller characteristics	Radial/Non-clog
Discharge connection	3"

## PROCESS DATA

Liquid temperature	Max 40°C
Liquid density	Max 1100kg/m <sup>3</sup>
Strainer hole size	Up to 16 mm
Suitable for liquid pH	6 to 8

## MOTOR DATA

Submersible squirrel cage Induction motor	
Frequency	50 Hz (±3%)
Voltage variation	415 (+6/-15%)
Phase	Three
Starting	D.O.L.

## SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor(RPM)	Rated Current
2.2	54	2820	6.5
3.7	57	2830	9.5
5.5	84	2850	13
7.5	90	2850	16
9.3	90	2860	19

## MATERIALS

Discharge shell	AL LM 25
Impeller	ASTM A217 CA 15
Wear ring	ASTM A217 CA 15
Motor body	AL LM 25
Strainer	Stainless steel
Shaft	AISI 410
O-ring	Nitrile rubber

## MONITORING EQUIPMENT

Thermal contacts cut off temperature +85°C

## CABLE

Heavy-duty double sheathed Submersible cable

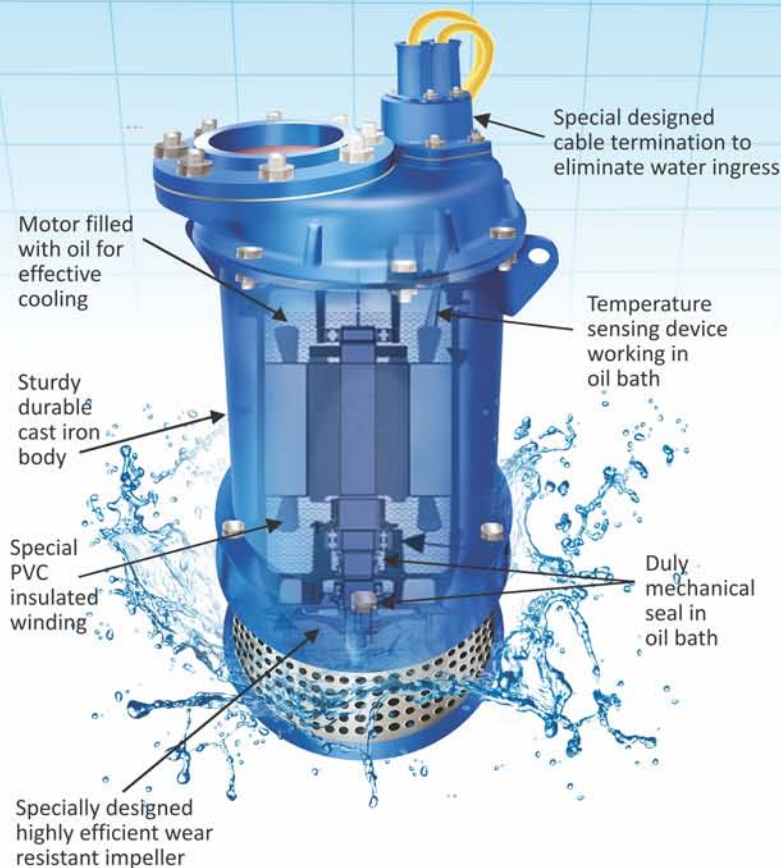
## DARLING MAKE SUBMERSIBLE TUFF SERIES PUMPS

Model	kW/HP	Outlet in MM/Inch	220	400	600	800	1000	1200	DISCHARGE IN LPM
JT - 33	2.2/3	80 / 3	14	13	<b>11.8</b>	<b>10</b>	<b>07</b>	04	HEAD IN MTRS
Model	kW/HP	Outlet in MM/Inch	250	500	750	1000	1250	-	DISCHARGE IN LPM
JT - 53	3.7/6	80 / 3	15	13.5	<b>12</b>	<b>10</b>	<b>6.5</b>	-	HEAD IN MTRS
Models	kW/HP	Outlet in MM/Inch	300	600	900	1200	1500	1800	DISCHARGE IN LPM
JT - 73	5.5/7.5	80 / 3	22	20.5	<b>18</b>	<b>15</b>	<b>11</b>	-	
JT - 103	7.5/10	80 / 3	27	25.5	<b>23.5</b>	<b>20</b>	<b>15</b>	-	HEAD IN MTRS
JT - 1203	9.3/12.5	80 / 3	27.5	26.5	25.5	<b>23.5</b>	<b>20</b>	<b>15</b>	

- Note:**
- Above performance is at rated voltage (415 Volts), 3 phase & rated frequency (50 Hz).
  - Above performance is for specific gravity 1 and viscosity as of water.
  - Due to continuous improvements from time to time, given performance is subject to change without any prior notice.
  - Highlighted / Bold duties are best efficiency point for given pump.

# T SERIES

Darling T Series Pumps are heavy duty submersible dewatering pumps, these pumps are ideal for Basement dewatering, pumping heavily contaminated water with sand, gravel & sludge in Civil infra projects, Construction sites, Micro Tunneling Projects, Mines, Industrial processes, Pits, Quarries, Narrow coffer, Dams, Well point dewatering applications.



## DENOMINATION

Product code	T
Installation	Vertical/Portable
Impeller characteristics	Radial/ Non-clog
Discharge connection	3"/4"/6"

## PROCESS DATA

Liquid temperature	Max 40° C
Liquid density	Up to 1100kg/m <sup>3</sup>
Strainer hole size	Up to 16 mm
Suitable for liquid pH	6 to 8

## MOTOR DATA

Submersible squirrel cage Induction motor	
Frequency	50Hz (±3%)
Voltage variation	415 (+6/-15%)
Phase	Three
Starting	Star delta

## SPEED & CURRENT

kW	Wt. (Kg)	Speed of motor(RPM)	Rated Current
11	250	2870	23
15	280	2880	32
18.5	315	2890	38
22	315	2890	45
26.1	325	2890	52

## MATERIALS

Discharge shell	CI-FG-200
Impeller	ASTM A217 CA 15
Neck ring	LTB-2
Motor body	CI-FG-200
Strainer	Stainless steel
Shaft	EN-8/AISI 431
O-ring	Nitrile rubber

## MONITORING EQUIPMENT

Thermal contacts cut off temperature +85°C

## CABLE

Heavy-duty double sheathed Submersible cable

## OPTION

Warm liquid version is also available on request

### DARLING MAKE SUBMERSIBLE T SERIES PUMPS

Models	kW/HP	Outlet in MM/Inch	600	900	1200	1500	1800	2100	2400	2700	3000	DISCHARGE IN LPM
T - 1504	11.2/15	100 / 4	28	27	26	<b>25</b>	<b>22</b>	<b>16</b>	-	-	-	
T - 2004	15/20	100 / 4	32	30	29	<b>27</b>	<b>25</b>	<b>20</b>	-	-	-	
T - 2504	18.5/25	100 / 4	50	46	<b>42</b>	<b>38</b>	<b>33</b>	30	-	-	-	
T - 3004	22/30	100 / 4	53	50	<b>46</b>	<b>41</b>	<b>36</b>	30	-	-	-	
T - 3504	26.1/35	100 / 4	62	60	<b>57.5</b>	<b>53</b>	<b>45.5</b>	40	-	-	-	

Models	kW/HP	Outlet in MM/Inch	600	1200	1800	2400	3000	3600			DISCHARGE IN LPM
T - 1506	11.2/15	150 / 6	24	22	<b>19</b>	<b>16</b>	<b>13</b>	-	-	-	-
T - 2006	15/20	150 / 6	31	30	<b>28</b>	<b>24</b>	<b>16</b>	-	-	-	-
T - 2506	18.5/25	150 / 6	34	32	<b>30</b>	<b>26</b>	<b>18</b>	-	-	-	HEAD IN MTRS
T - 3006	22/30	150 / 6	36	34	<b>32</b>	<b>28</b>	<b>20</b>	-	-	-	-
T - 3504	26.1/35	150 / 6	38	36	<b>33</b>	<b>30</b>	<b>22</b>	-	-	-	-

Models	kW/HP	Outlet in MM/Inch	500	1000	2000	3000	4000	5000	6000		DISCHARGE IN LPM
J - 1506B	11.2/15	150 / 6	17	15.5	14	<b>12.5</b>	<b>10</b>	-	-		
J - 2006B	15/20	150 / 6	24	22	20	<b>18</b>	<b>15</b>	-	-		
J - 2506B	18.5/25	150 / 6	29	28.5	26.5	<b>24</b>	<b>20</b>	12	-		HEAD IN MTRS
J - 3006B	22/30	150 / 6	32.5	31.5	29	<b>26</b>	<b>22</b>	16	-		-

- Note:**
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  - Above performance is for specific gravity 1 and viscosity as of water.
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# TUFF & T SERIES PUMPS



## OUR COMPLETE RANGE OF PRODUCTS



### CLEAR WATER PUMPS

**Head**  
Up to 150 M

**Capacity**  
Up to 6000 LPM

**Rating**  
0.75 to 110 kW

**Suitable for:**

- Housing & commercial complex
- Sprinkler & drip irrigation
- River water pumping
- Gardening
- Water supplies in industries, hospital, hotels, cooling tower etc.
- Raw water pumping



### DEWATERING PUMPS

**Head**  
Up to 108 M

**Capacity**  
Up to 12000 LPM

**Rating**  
0.55 to 110 kW

**Suitable for:**

- Infrastructure project
- Construction sites
- Steel / power plant
- Pumping heavily contaminated water with sand & gravel
- Mines dewatering
- Micro tunneling projects



### WASTE WATER PUMPS

**Head**  
Up to 72 M

**Capacity**  
Up to 1800 LPM

**Rating**  
0.37 to 37 kW

**Suitable for:**

- Packaged STP / ETP
- Treated water
- Drainage & septic tanks waste pumping
- Industrial processes
- Pharmaceutical plant
- Waste in hotels, hospital, malls etc.



### SEWAGE EFFLUENT PUMPS

**Head**  
Up to 62 M

**Capacity**  
Up to 14000 LPM

**Rating**  
2.2 to 110 kW

**Suitable for:**

- Raw unscreened sewage.
- STP & ETP plants
- Sewage pumping station
- Boiler room
- Effluents & solvents
- Industrial waste water
- Storm & tunnel water de-watering



### SLURRY PUMPS

**Head**  
Up to 85 M

**Capacity**  
Up to 14000 LPM

**Rating**  
3.7 to 110 kW

**Suitable for:**

- AHP / CHP
- Metal processing unit
- Mineral processing unit
- Mineral mines
- Iron scale slurry
- Ceramic slurry

**Disclaimer:** On account of continuous improvements, data mentioned in this leaflet is subject to change without prior notice.



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