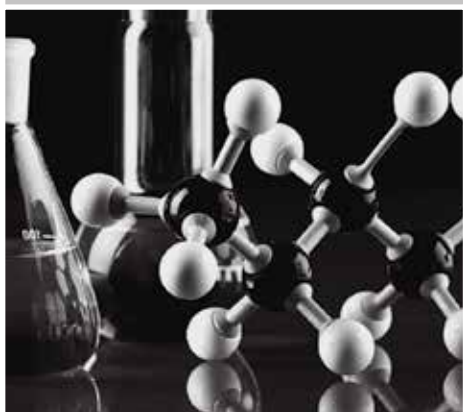


TAB TRACTION BATTERIES

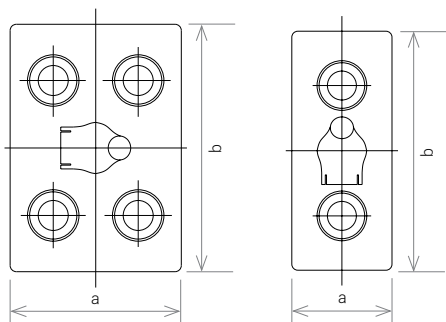


TAB

DIN
BS

TAB was established in 1965 as a subsidiary of Lead Mine Mežica Holding in a region where different lead activities are more than 350 years old. Nowadays, TAB is producing a wide range of industrial and starter batteries.

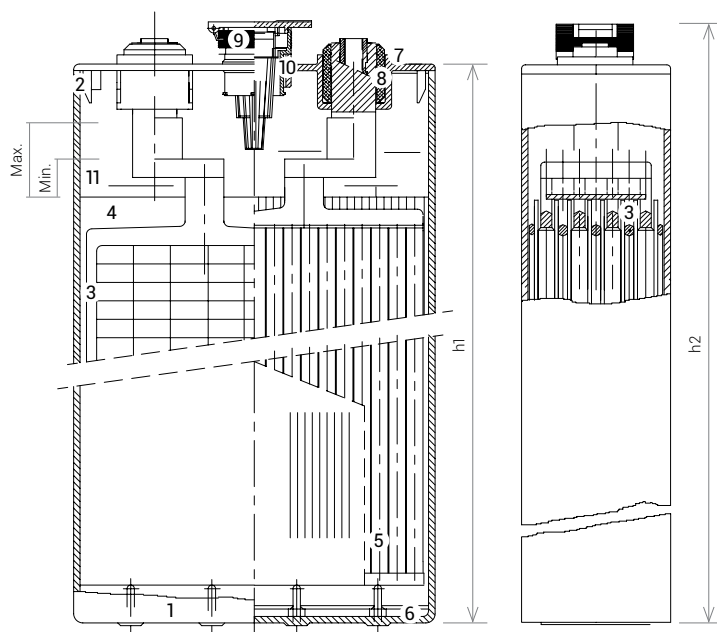
**WE HAVE EXPERIENCE AND WE HAVE KNOWLEDGE –
THEREFORE OUR HIGH QUALITY BATTERIES ARE KNOWN WORLDWIDE.
WE ARE PROUD OF OUR DURABLE ENERGY – NOW ALREADY MORE THAN 50 YEARS.**



IN CASE OF PROBLEMS WITH ORDERING WE WILL BE GLAD TO ADVISE AND ASSIST YOU IN THE SELECTION OF THE SUITABLE TYPE OF BATTERY.

IN ORDER THAT THE BATTERIES WOULD MEET ALL YOUR DEMANDS, WE KINDLY ASK YOU TO ENCLOSE THE FOLLOWING DATA WITH YOUR ORDER:

- + **battery voltage**
- + **capacity** of the battery at a five-hour discharge rate
- + **dimensions** of the battery tray
- + **designation and type** of the electric machine
- + any **special demands**
- + a battery **drawing** (when possible)



- 1 Polypropylene container
- 2 Polypropylene cover
- 3 Negative grid Plate
- 4 Microporous separator
- 5 Positive armoured tube Plate
- 6 Settling rib
- 7 Terminal post
- 8 Rubber sealing
- 9 Cell plug Ø 35,5
- 10 Plug sealing Ø 35,5
- 11 Electrolyte

All measures and weights are within standard production tolerances. Electrical values are approximate. Technical modifications are reserved without prior notice.

DIN STANDARD CHARACTERISTIC DATA

Electrolyte density by 30 °C : 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.
Cells from 7 to 10 EPzS types are available with 2 poles. For 4 poles, please specify with your order.
All 12 EPzS and 10 Pg/555 and 10 Pg/590 cells are available with 4 poles only.

50Ah/plate

h1 = 282, h2 = 305 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 100 L	2 Pg 190 L	100	45	6,8	5,7
3 PzS 150 L	3 Pg 190 L	150	63	9,6	7,7
4 PzS 200 L	4 Pg 190 L	200	81	12,4	9,9
5 PzS 250 L	5 Pg 190 L	250	99	15,3	12,2
6 PzS 300 L	6 Pg 190 L	300	118	18,2	14,5
7 PzS 350 L	7 Pg 190 L	350	136	21,1	16,7
8 PzS 400 L	8 Pg 190 L	400	155	24,0	19,0
9 PzS 450 L	9 Pg 190 L	450	173	26,9	21,3
10 PzS 500 L	10 Pg 190 L	500	191	29,8	23,6
12 PzS 600 L	12 Pg 190 L	600	227	35,9	28,4

80Ah/plate

h1 = 402, h2 = 425 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 160 L	2 Pg 310 L	160	45	10,2	8,1
3 PzS 240 L	3 Pg 310 L	240	63	14,5	11,2
4 PzS 320 L	4 Pg 310 L	320	81	18,7	14,6
5 PzS 400 L	5 Pg 310 L	400	99	22,9	17,9
6 PzS 480 L	6 Pg 310 L	480	118	27,1	21,3
7 PzS 560 L	7 Pg 310 L	560	136	31,3	24,7
8 PzS 640 L	8 Pg 310 L	640	155	35,5	28,0
9 PzS 720 L	9 Pg 310 L	720	173	39,7	31,4
10 PzS 800 L	10 Pg 310 L	800	191	43,9	34,7
12 PzS 960 L	12 Pg 310 L	960	227	52,6	41,8

105Ah/plate

h1 = 515, h2 = 538 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 210 L	2 Pg 425 L	210	47	13,3	10,3
3 PzS 315 L	3 Pg 425 L	315	65	18,3	14,4
4 PzS 420 L	4 Pg 425 L	420	83	23,7	18,6
5 PzS 525 L	5 Pg 425 L	525	101	29,1	22,9
6 PzS 630 L	6 Pg 425 L	630	119	34,5	27,1
7 PzS 735 L	7 Pg 425 L	735	137	39,9	31,4
8 PzS 840 L	8 Pg 425 L	840	155	45,3	35,6
9 PzS 945 L	9 Pg 425 L	945	173	50,7	39,9
10 PzS 1050 L	10 Pg 425 L	1050	191	56,4	44,5
12 PzS 1260 L	12 Pg 425 L	1260	227	67,2	53,0

125Ah/plate

h1 = 570, h2 = 593 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 250 L	2 Pg 480 L	250	47	14,7	11,6
3 PzS 375 L	3 Pg 480 L	375	65	20,7	16,2
4 PzS 500 L	4 Pg 480 L	500	83	26,9	21,1
5 PzS 625 L	5 Pg 480 L	625	101	33,1	26,0
6 PzS 750 L	6 Pg 480 L	750	119	39,3	30,9
7 PzS 875 L	7 Pg 480 L	875	137	45,5	35,8
8 PzS 1000 L	8 Pg 480 L	1000	155	51,7	40,7
9 PzS 1125 L	9 Pg 480 L	1125	173	58,2	45,9
10 PzS 1250 L	10 Pg 480 L	1250	191	64,4	50,8
12 PzS 1500 L	12 Pg 480 L	1500	227	76,8	60,6

155Ah/plate

h1 = 720, h2 = 743 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 310 L	2 Pg 590 L	310	47	21,5	14,9
3 PzS 465 L	3 Pg 590 L	465	65	26,1	20,6
4 PzS 620 L	4 Pg 590 L	620	83	33,5	26,7
5 PzS 775 L	5 Pg 590 L	775	101	41,1	32,9
6 PzS 930 L	6 Pg 590 L	930	119	48,9	39,0
7 PzS 1085 L	7 Pg 590 L	1085	137	56,7	45,1
8 PzS 1240 L	8 Pg 590 L	1240	155	64,5	51,3
9 PzS 1395 L	9 Pg 590 L	1395	173	72,8	57,8
10 PzS 1550 L	10 Pg 590 L	1550	191	80,6	64,0
12 PzS 1860 L	12 Pg 590 L	1860	227	96,2	76,2

60Ah/plate

h1 = 340, h2 = 363 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 120 L	2 Pg 250 L	120	45	8,5	6,5
3 PzS 180 L	3 Pg 250 L	180	63	11,9	9,2
4 PzS 240 L	4 Pg 250 L	240	81	15,4	11,9
5 PzS 300 L	5 Pg 250 L	300	99	18,9	14,6
6 PzS 360 L	6 Pg 250 L	360	118	22,4	17,2
7 PzS 420 L	7 Pg 250 L	420	136	25,9	19,9
8 PzS 480 L	8 Pg 250 L	480	155	29,4	22,6
9 PzS 540 L	9 Pg 250 L	540	173	32,9	25,2
10 PzS 600 L	10 Pg 250 L	600	191	36,4	27,9
12 PzS 720 L	12 Pg 250 L	720	227	43,7	33,6

90Ah/plate

h1 = 472, h2 = 495 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 180 L	2 Pg 360 L	180	47	11,6	9,1
3 PzS 270 L	3 Pg 360 L	270	65	16,6	12,8
4 PzS 360 L	4 Pg 360 L	360	83	21,4	16,6
5 PzS 450 L	5 Pg 360 L	450	101	26,2	20,5
6 PzS 540 L	6 Pg 360 L	540	119	31,0	24,4
7 PzS 630 L	7 Pg 360 L	630	137	35,8	28,2
8 PzS 720 L	8 Pg 360 L	720	155	40,6	32,1
9 PzS 810 L	9 Pg 360 L	810	173	45,4	35,9
10 PzS 900 L	10 Pg 360 L	900	191	50,2	39,8
12 PzS 1080 L	12 Pg 360 L	1080	227	60,1	47,8

115Ah/plate

h1 = 545, h2 = 568 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 230 L	2 Pg 445 L	230	47	14,0	10,8
3 PzS 345 L	3 Pg 445 L	345	65	19,8	15,3
4 PzS 460 L	4 Pg 445 L	460	83	25,6	19,9
5 PzS 575 L	5 Pg 445 L	575	101	31,4	24,8
6 PzS 690 L	6 Pg 445 L	690	119	37,2	29,6
7 PzS 805 L	7 Pg 445 L	805	137	43,0	34,5
8 PzS 920 L	8 Pg 445 L	920	155	48,8	39,3
9 PzS 1035 L	9 Pg 445 L	1035	173	54,9	44,5
10 PzS 1150 L	10 Pg 445 L	1150	191	60,7	49,3
12 PzS 1380 L	12 Pg 445 L	1380	227	72,3	59,0

140Ah/plate

h1 = 686, h2 = 709 mm | length = b = 198 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzS 280 L	2 Pg 555 L	280	47	20,6	14,4
3 PzS 420 L	3 Pg 555 L	420	65	25,3	19,4
4 PzS 560 L	4 Pg 555 L	560	83	32,2	25,1
5 PzS 700 L	5 Pg 555 L	700	101	39,5	30,9
6 PzS 840 L	6 Pg 555 L	840	119	46,7	36,6
7 PzS 980 L	7 Pg 555 L	980	137	54,0	42,3
8 PzS 1120 L	8 Pg 555 L	1120	155	61,2	48,0
9 PzS 1260 L	9 Pg 555 L	1260	173	68,8	54,1
10 PzS 1400 L	10 Pg 555 L	1400	191	76,0	59,8
12 PzS 1680 L	12 Pg 555 L	1680	227	90,5	71,3



BS STANDARD CHARACTERISTIC DATA

Electrolyte density by 30 °C: 1,29 ± 0,01 kg/l. Weight tolerance is ± 5 %.

Cells from 9-11 PzB types are available with 4 poles only.

All 12 EPzS and 10 Pg/555 and 10 Pg/590 cells are available with 4 poles only.

23Ah/plate

h1 = 216, h2 = 240 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 46	2 Pgi 135	46	45	3,7	3,0
3 PzB 69	3 Pgi 135	69	61	5,4	4,2
4 PzB 92	4 Pgi 135	92	77	6,9	5,4
5 PzB 115	5 Pgi 135	115	93	8,4	6,6
6 PzB 138	6 Pgi 135	138	109	10,0	7,8
7 PzB 161	7 Pgi 135	161	125	11,6	9,0
8 PzB 184	8 Pgi 135	184	141	13,2	10,2
9 PzB 207 *	9 Pgi 135	207	157	15,3	11,9
10 PzB 230 *	10 Pgi 135	230	173	16,9	13,1
11 PzB 253 *	11 Pgi 135	253	189	18,4	14,3

42Ah/plate

h1 = 326, h2 = 350 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 84	2 Pgi 250	84	45	6,9	5,4
3 PzB 126	3 Pgi 250	126	61	9,4	7,3
4 PzB 168	4 Pgi 250	168	77	11,9	9,3
5 PzB 210	5 Pgi 250	210	93	14,5	11,3
6 PzB 252	6 Pgi 250	252	109	17,3	13,5
7 PzB 294	7 Pgi 250	294	125	20,0	15,6
8 PzB 336	8 Pgi 250	336	141	22,3	17,6
9 PzB 378 *	9 Pgi 250	378	157	25,2	19,9
10 PzB 420 *	10 Pgi 250	420	173	27,6	21,8
11 PzB 462 *	11 Pgi 250	462	189	30,0	23,7

65Ah/plate

h1 = 453, h2 = 477 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 130	2 Pgi 360	130	45	8,2	6,8
3 PzB 195	3 Pgi 360	195	61	12,0	10,1
4 PzB 260	4 Pgi 360	260	77	15,5	13,0
5 PzB 325	5 Pgi 360	325	93	19,0	16,0
6 PzB 390	6 Pgi 360	390	109	22,6	18,9
7 PzB 455	7 Pgi 360	455	125	26,1	21,8
8 PzB 520	8 Pgi 360	520	141	29,6	24,5
9 PzB 585 *	9 Pgi 360	585	157	33,6	27,9
10 PzB 650 *	10 Pgi 360	650	173	37,2	30,6
11 PzB 715 *	11 Pgi 360	715	189	40,7	33,3

86Ah/plate

h1 = 567, h2 = 591 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 172	2 Pgi 450	172	45	10,7	8,3
3 PzB 258	3 Pgi 450	258	61	15,0	11,8
4 PzB 344	4 Pgi 450	344	77	19,3	15,2
5 PzB 430	5 Pgi 450	430	93	23,7	18,6
6 PzB 516	6 Pgi 450	516	109	28,1	22,0
7 PzB 602	7 Pgi 450	602	125	32,6	25,4
8 PzB 688	8 Pgi 450	688	141	37,1	28,8
9 PzB 774	9 Pgi 450	774	157	42,3	32,9
10 PzB 860	10 Pgi 450	860	173	46,9	36,3
11 PzB 946	11 Pgi 450	946	189	51,4	39,7

108Ah/plate

h1 = 688, h2 = 712 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 216	2 Pgi 530	216	45	13,5	9,9
3 PzB 324	3 Pgi 530	324	61	18,9	14,3
4 PzB 432	4 Pgi 530	432	77	24,3	18,7
5 PzB 540	5 Pgi 530	540	93	29,7	23,2
6 PzB 648	6 Pgi 530	648	109	35,1	27,6
7 PzB 756	7 Pgi 530	756	125	40,5	32,1
8 PzB 864	8 Pgi 530	864	141	45,9	36,5
9 PzB 972	9 Pgi 530	972	157	52,0	41,6
10 PzB 1080	10 Pgi 530	1080	173	57,4	46,0
11 PzB 1188	11 Pgi 530	1188	189	62,8	50,4

32Ah/plate

h1 = 260, h2 = 284 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 64	2 Pgi 190	64	45	5,1	4,0
3 PzB 96	3 Pgi 190	96	61	7,1	5,6
4 PzB 128	4 Pgi 190	128	77	9,2	7,2
5 PzB 160	5 Pgi 190	160	93	11,3	8,8
6 PzB 192	6 Pgi 190	192	109	13,2	10,3
7 PzB 224	7 Pgi 190	224	125	15,0	11,7
8 PzB 256	8 Pgi 190	256	141	16,8	13,1
9 PzB 288 *	9 Pgi 190	288	157	19,1	14,9
10 PzB 320 *	10 Pgi 190	320	173	20,9	16,3
11 PzB 352 *	11 Pgi 190	352	189	22,7	17,7

55Ah/plate

h1 = 399, h2 = 423 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 110	2 Pgi 310	110	45	7,6	6,1
3 PzB 165	3 Pgi 310	165	61	10,5	8,5
4 PzB 220	4 Pgi 310	220	77	13,5	11,0
5 PzB 275	5 Pgi 310	275	93	16,5	13,5
6 PzB 330	6 Pgi 310	330	109	19,6	15,9
7 PzB 385	7 Pgi 310	385	125	22,6	18,4
8 PzB 440	8 Pgi 310	440	141	25,6	20,8
9 PzB 495	9 Pgi 310	495	157	29,1	23,8
10 PzB 550	10 Pgi 310	550	173	32,1	26,3
11 PzB 605	11 Pgi 310	605	189	35,2	28,7

75Ah/plate

h1 = 513, h2 = 537 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 150	2 Pgi 413	150	45	10,0	7,5
3 PzB 225	3 Pgi 413	225	61	13,9	10,8
4 PzB 300	4 Pgi 413	300	77	17,8	14,1
5 PzB 375	5 Pgi 413	375	93	21,6	17,5
6 PzB 450	6 Pgi 413	450	109	25,6	20,9
7 PzB 525	7 Pgi 413	525	125	29,6	24,1
8 PzB 600	8 Pgi 413	600	141	33,5	27,4
9 PzB 675 *	9 Pgi 413	675	157	38,2	31,1
10 PzB 750 *	10 Pgi 413	750	173	42,3	34,2
11 PzB 825 *	11 Pgi 413	825	189	46,4	37,3

100Ah/plate

h1 = 608 h2 = 632 mm | length = b = 157,5 mm

CELL TYPE	TAB DESIGNATION	CAPACITY 5h	WIDTH mm	WEIGHT with acid	WEIGHT dry (kg)
2 PzB 200	2 Pgi 492	200	45	11,8	9,4
3 PzB 300	3 Pgi 492	300	61	16,6	13,5
4 PzB 400	4 Pgi 492	400	77	21,5	17,5
5 PzB 500	5 Pgi 492	500	93	26,4	21,6
6 PzB 600	6 Pgi 492	600	109	31,5	25,6
7 PzB 700	7 Pgi 492	700	125	36,4	29,7
8 PzB 800	8 Pgi 492	800	141	41,4	33,7
9 PzB 900	9 Pgi 492	900	157	47,1	38,6
10 PzB 1000	10 Pgi 492	1000	173	52,0	42,7
11 PzB 1100	11 Pgi 492	1100	189	56,9	46,7



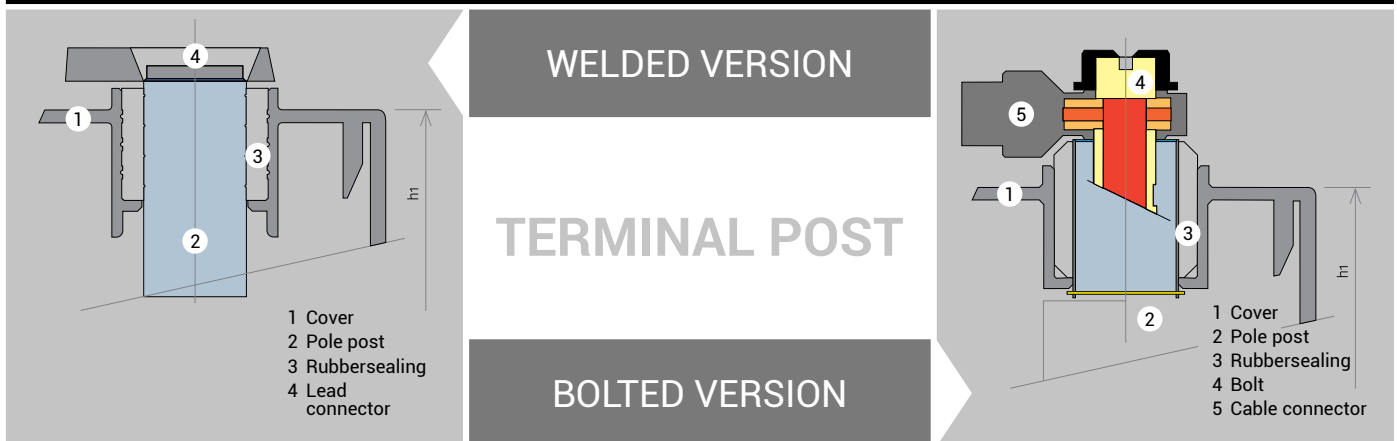
Battery application. Traction batteries TAB of type PzS and PzB are appropriated for propulsion of different electrical machines (forklifts, mine locomotives, etc.).

One of the very important production part of your company is internal logistics. We are introducing our traction batteries TAB which have been satisfying the most demanding users for more than half a century.

Batteries are known by their: high capacity, long life-time, resistance to vibrations, short charging times, low consumption of distilled water, simple maintenance.

We assemble individual cells (2V) into batteries with different voltages, capacities and dimensions which suite to all types of electrical machines. Wide production program covers the range of DIN (PzS) and BS (PzB) cells according to EN60254 – 1,2 and IEC 254 – 1,2.

WE PRODUCE BATTERIES / CELLS IN WELDED AND BOLTED VERSION



BOTH VERSIONS ARE BEING MANUFACTURED:

- + **DRY-CHARGED VERSION:** a battery / cell have to be filled up with an electrolyte and supplementary charged before use. The Plates are already formed and in special process protected against oxidation. They can be stored up to two years.
- + **ELECTROLYTE-CHARGED:** a battery / cell can be installed immediately, because it is already filled up with electrolyte and electrically charged as well.



WE HIGHLY RECOMMEND THE USE OF ADDITIONAL SYSTEMS:

- + **CENTRAL WATER FILLING SYSTEM** which enables a quick and precise service of the whole battery under any working conditions.
- + **CAPACITIVE BATTERY ELECTROLYTE LEVEL SENSOR** which with clearly visible green light indicates electrolyte at proper specified level. Flashing red light indicates that the electrolyte level is bellow minimum and battery needs to be refilled with demineralised water to avoid permanent damage of the battery.
- + **ELECTROLYTE MIXING SYSTEM** which allows faster charging of battery. Yet, the battery with a 100 % daily charge (maximum charging current is $2,5 \times I_5$) can not be damaged during this time