

## Cylinders for Offshore Applications (without Fire Fighting Cylinders for Tug Boats)

Reference list since 1998



Country	Application	Quantity	Dimensions (mm) piston/rod/stroke	Rod coating / Material	Delivery date
Norway	Riser tensioner offshore cylinders	24	Ø 560 /230/ 15.240	Ceraplate	1998 - 2000
Norway	Piston rod for riser tensioner system	3	Ø /230/ 15.240	Ultraplate	2002
UK	Piston rod for keel lift cylinder of a sailing yacht	1	Ø 320 / 190 / 6000	Ultraplate	2002
UK	Cylinders for walking platform Seawalker	29	Ø 320 / 160 / 3000	Ceraplate	2002
Germany	Cylinder for oil fighting boat	2	Ø 220 / 160 / 1.450	Ultraplate	2004
China	Cylinder for piling barge operation	1	Ø 900 / 540 / 11.470	Ceraplate	2004
Germany	Piston accumulator for sub-sea unit	7	Ø 240 outside diam. / 1.870	Ultraplate	2004

China	Cylinder for piling barge operation	1	Ø1.000 / 650 / 12.870	Ceraplate	2004
Germany	Drain gate cylinder for old ship lock in Brunsbüttel	11	Ø 140 / 100 / 3.600	Ultraplate	2004
Norway	Offshore winch cylinder rods	4	Ø 240 / 4.216	Ultraplate	2005
Norway	Offshore winch cylinder rods	4	Ø 240 / 4.216	Ultraplate	2005
Norway	Offshore winch cylinder rods	2	Ø 240 / 4.316	Ultraplate	2005
China	Cylinder for piling barge operation	1	Ø800 / 500 / 9.500	Ceraplate	2005
Norway	Offshore winch cylinder rods	4	Ø 240 / 4.216	Ultraplate	2006
Norway	Offshore winch cylinder rods	4	Ø 240 / 4.216	Ultraplate	2006
Norway	Offshore crane cylinders	8 8	Ø 450 / 340 / 5080 Ø 380 / 260 / 3800	Ultraplate & hard chrome	2006
Norway	Offshore crane cylinders	4 4	Ø 450 / 320 / 5080 Ø 380 / 250 / 3800	Ultraplate & hard chrome	2006
Norway	Offshore crane cylinders	6 6	Ø 420 / 320 / 5080 Ø 380 / 250 / 3845	Ultraplate & hard chrome	2006
China	Cylinder for piling barge operation	1	Ø1.000 / 650 / 12.870	Ceraplate	2006
China	Cylinder for piling barge operation	1	Ø 900 / 540 / 11.470	Ceraplate	2007
Norway	Offshore crane cylinders	16 16	Ø 420 / 320 / 5080 Ø 380 / 250 / 3845	Ultraplate & hard chrome	2007

Norway	Offshore crane cylinders	8	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2007
		8	∅ 380 / 260 / 3800		
Norway	Offshore crane cylinders	18	∅ 470 / 360 / 5080 ∅	Ultraplate & hard chrome	2007
		18	380 / 250 / 3845		
China	Cylinder for piling barge operation	1	∅ 900 / 540 / 11.470	Ceraplate	2007
Norway	Offshore winch cylinder rods	4	∅ 240 / 4.316	Ultraplate	2007
Norway	Offshore crane cylinders	8	∅ 420 / 320 / 5080	Ultraplate & hard chrome	2008
		8	∅ 380 / 250 / 3845		
Norway	Offshore crane cylinders	20	∅ 470 / 360 / 5080	Ultraplate & hard chrome	2008
		20	∅ 380 / 250 / 3845		
Norway	Offshore crane cylinders	24	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2008
		24	∅ 380 / 260 / 3800		
China	Cylinder for piling barge operation	1	∅1.000 / 650 / 12.870	Ceraplate	2008
Norway	Offshore winch cylinder rods	4	∅ 240 / 4.316	Ultraplate	2008
Norway	Riser tensioner offshore cylinders	12	∅ 560 / 230 / 15.240	Ultraplate	2008
South Africa	Offshore heave compensating cylinders	2	∅ 280 / 125 / 9.500	Ultraplate	2009
Norway	Offshore crane cylinders	7	∅ 420 / 320 / 5080	Ultraplate & hard chrome	2009
		7	∅ 380 / 250 / 3845		
Norway	Offshore crane cylinders	40	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2009
		40	∅ 380 / 260 / 3800		

Norway	Offshore crane cylinders	2	∅ 470 / 360 / 5080	Ultraplate & hard chrome	2009
		2	∅ 380 / 250 / 3845		
Japan	Riser tensioner offshore cylinder rods	3	∅ 230 / 15.500	Ultraplate	2009
Norway	Riser tensioner offshore cylinders rods	18	∅ 560 / 230 / 15.240	Ultraplate	2009
China	Cylinder for piling barge operation	2	∅1.000 / 650 / 12.870	Ceraplate	2009
Japan	Riser tensioner offshore cylinder rods	3	∅ 230 / 15.500	Ultraplate	2010
Norway	Offshore crane cylinders	8	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2010
		8	∅ 380 / 260 / 3800		
Norway	Offshore crane cylinders	1	∅ 470 / 360 / 5080	Ultraplate & hard chrome	2010
		2	∅ 380 / 250 / 3845		
Norway	Offshore crane cylinders	1	∅ 420 / 320 / 5080	Ultraplate & hard chrome	2010
Norway	Offshore crane cylinders	23	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2010
		22	∅ 380 / 260 / 3800		
Norway	Offshore crane cylinders	4	∅ 470 / 360 / 5080	Ultraplate & hard chrome	2010
		4	∅ 380 / 250 / 3845		
UK	Jacking cylinder rod	1	∅ ... / 203 / 1760	Ultraplate	2010
Norway	Offshore crane cylinders	24	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2011
		24	∅ 380 / 260 / 3800		
China	Cylinder for piling barge operation	1	∅ 900 / 540 / 11.470	Ceraplate	2011

UK	Cylinders for wave power plant	3	∅ 590 / 350 / 4000	Ultraplate	2011
Norway	Offshore crane cylinders	4	∅ 350 / 280 / 4435	Ultraplate & hard chrome	2011
		4	∅ 280 / 230 / 3450		
Norway	Offshore crane cylinders	2	∅ 550 / 410 / 5670	Ultraplate & hard chrome	2011
		2	∅ 460 / 360 / 5709		
Norway	Offshore crane cylinders	4	∅ 550 / 410 / 5565	Ultraplate & hard chrome	2011
		4	∅ 520 / 340 / 4315		
Norway	250 ton Double Piston Accumulator cylinder	4	∅ 660 / 260 / 2651	Hard chrome	2011
China	Machining of piston rods for offshore application	8	∅ 110 x 7342	Ceraplate	2011
		10	∅ 150 x 7179		
		2	∅ 180 x 7300		
Norway	Offshore crane cylinders	3	∅ 520 / 410 / 5780	Ultraplate & hard chrome	2011
		2	∅ 520 / 380 / 4400		
Norway	100 ton Double Piston Accumulator cylinder	3	∅ 540 / 290 / 2056	Hard chrome	2011
Norway	Offshore crane cylinders	4	∅ 380 / 280 / 3772	Ultraplate & hard chrome	2011
Norway	Offshore crane cylinders	2	∅ 420 / 320 / 5080	Ultraplate & hard chrome	2011
		2	∅ 380 / 250 / 3845		

Norway	Crown Mounted Compensation System CMC-E:  Main cylinder Accumulator Equalizing cylinder	6 3 6	∅ 480 / 320 / 8890 ∅ 610 / 11292 ∅ 280 / 110 / 5100	Ni / Cr	2012
Norway	100 ton Double Piston Accumulator cylinder	12	∅ 540 / 290 / 2056	Hard chrome	2012
Norway	Double Piston Accumulator cylinder	1	∅ 660 / 260 / 2100	Hard chrome	2012
Norway	Offshore crane cylinders	2 2	∅ 450 / 340 / 5080 ∅ 380 / 260 / 3800	Ultraplate & hard chrome	2012
Norway	Offshore crane cylinders	22 22	∅ 550 / 410 / 5670 ∅ 460 / 360 / 5709	Ultraplate & hard chrome	2012
Norway	Offshore crane cylinders	24 24	∅ 470 / 360 / 5080 ∅ 380 / 280 / 3845	Ultraplate & hard chrome	2012
Norway	Offshore crane cylinders	2 4 6	∅ 470 / 360 / 5080 ∅ 470 / 340 / 5080 ∅ 380 / 260 / 3845	Ultraplate & hard chrome	2012
Norway	Offshore crane cylinders	2 4 6	∅ 470 / 360 / 5080 ∅ 470 / 340 / 5080 ∅ 380 / 260 / 3845	Ultraplate & hard chrome	2013
Norway	Offshore crane cylinders	10 10	∅ 550 / 410 / 5670 ∅ 460 / 360 / 5709	Ultraplate & hard chrome	2013

Norway	Double Piston Accumulator cylinder	15	Ø 540 / 290 / 2056	Hard chrome	2013
Norway	Double Piston Accumulator cylinder	7	Ø 660 / 260 / 2651	Hard chrome	2013
Norway	Offshore crane cylinders	14 14	Ø 470 / 360 / 5080 Ø 380 / 260 / 3845	Ultraplate & hard chrome	2013
Norway	Offshore crane cylinders	20 20	Ø 550 / 410 / 5670 Ø 460 / 360 / 5709	Ultraplate & hard chrome	2013
Norway	Offshore crane cylinders	10 10	Ø 550 / 410 / 5565 Ø 520 / 340 / 4315	Ultraplate & hard chrome	2013
Norway	Offshore crane cylinders	6 4	Ø 520 / 410 / 5780 Ø 520 / 380 / 4400	Ultraplate & hard chrome	2013
Norway	Offshore crane cylinders	2	Ø 460 / 360 / 5709	Ultraplate & hard chrome	2013
Norway	Offshore crane cylinders	2 2	Ø 350 / 280 / 4435 Ø 280 / 230 / 3450	Ultraplate & hard chrome	2013
Norway	Crown Mounted Compensation System CMC-E: Main cylinder Accumulator Equalizing cylinder	2 1 2	Ø 480 / 320 / 8890 Ø 610 / 11292 Ø 280 / 100 / 5100	Ni Cr	2013
Norway	Double Piston Accumulator cylinder	1	Ø 660 / 260 / 1802	Hard chrome	2013
Norway	Offshore crane cylinders	6 6	Ø 470 / 360 / 5080 Ø 380 / 280 / 3845	Ultraplate & hard chrome	2013

Norway	BOP (Blow out preventer) Lifting Cylinder	1	Stage01 Ø 710/ 650 Stage02 Ø 540/480 Total stroke: 9250	Ultraplate	2014
Norway	Double Piston Accumulator cylinder	1	Ø 660 / 260 / 2651	Hard chrome	2014
Norway	Offshore crane cylinders	6 6	Ø 550 / 410 / 5565 Ø 520 / 340 / 4315	Ultraplate & hard chrome	2014
Norway	Double Piston Accumulator cylinder	7	Ø 540 / 290 / 2056	Hard chrome	2014
Norway	Offshore crane cylinders	8 6	Ø 470 / 360 / 5080 Ø 380 / 260 / 3845	Ultraplate & hard chrome	2014
Norway	Offshore crane cylinders	13 13	Ø 550 / 410 / 5670 Ø 460 / 360 / 5709	Ultraplate & hard chrome	2014
Norway	Riser tensioner offshore cylinders rods	2	Ø 560 / 230 / 15.850	Ultraplate	2014
Norway	Offshore crane cylinders	2	Ø 380 / 250 / 3845	Ultraplate & hard chrome	2014
Norway	Crown Mounted Compensation System CMC-E: Main cylinder Accumulator Equalizing cylinder	2 1 2	Ø 480 / 425 / 8890 Ø 610 / 11292 Ø 280 / 100 / 5100	Ni Cr	2014



Norway	Offshore crane cylinders	4	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2014
		3	∅ 380 / 260 / 3800		
Norway	Offshore crane cylinders	6	∅ 520 / 410 / 5780	Ultraplate & hard chrome	2014
		4	∅ 540 / 380 / 4400		
Norway	Offshore crane cylinders	8	∅ 420 / 340 / 5080	Ultraplate & hard chrome	2014
		8	∅ 380 / 260 / 3845		
Norway	Double Piston Accumulator cylinder	2	∅ 540 / 290 / 2056	Hard chrome	2015
Norway	Offshore crane cylinders	4	∅ 550 / 410 / 5565	Ultraplate & hard chrome	2015
		4	∅ 520 / 340 / 4315		
Norway	Double Piston Accumulator cylinder	1	∅ 660 / 260 / 1802	Hard chrome	2015
Norway	Offshore crane cylinders	5	∅ 450 / 340 / 5080	Ultraplate & hard chrome	2015
		6	∅ 380 / 260 / 3800		
Norway	Offshore crane cylinders	3	∅ 520 / 410 / 5861	Ultraplate & hard chrome	2015
Norway	Offshore crane cylinders	1	∅ 470 / 360 / 5080	Ultraplate & hard chrome	2015
		1	∅ 380 / 280 / 3845		
Japan	Offshore excavator cylinder	1	∅ 970 / 660 / 24780 (length)	Ceraplate	2015
UK	Offshore crane cylinder	1	∅ 100 / 90 / 1689	Hard chrome	2015
Norway	Offshore crane cylinders	5	∅ 550 / 410 / 5670	Ultraplate & hard chrome	2015
		4	∅ 460 / 360 / 5709		

Norway	BOP (Blow out preventer) Lifting Cylinder	1	Stage01 Ø 710/ 650 Stage02 Ø 540/480 Total stroke: 9250	Ultraplate	2015
Norway	Offshore crane cylinders	3 2	Ø 640 / 460 / 6610 Ø 550 / 430 / 6340	Ultraplate & hard chrome	2015
Norway	Double Piston Accumulator cylinder	1	Ø 540 / 290 / 2056	Hard chrome	2016
Great Britain	Wave Power cylinder	4 1	Ø 45 / 25,4 / 1500 Ø 150 / 80 / 1500	Hard chrome	2016
Norway	Offshore crane cylinder	1	Ø 450 / 340 / 5080	Ultraplate & hard chrome	2017
Brazil	Offshore crane cylinder	1	Ø 520 / 340 / 4315	Thermal spray coating	2017
Brazil	Offshore crane cylinder	1	Ø 550 / 410 / 5565	Thermal spray coating	2017
Germany	Offshore heave compensating cylinders	2	Ø 280 / 125 / 9.500	Ultraplate	2017
	Hydraulic damping cylinders	2	Ø 160 / 140 / 300	Ni/Cr	
	Piston accumulator	1	Ø 580 / 4385		
Norway	Double Piston Accumulator cylinder	1	Ø 540 / 290 / 2056	Hard chrome	2018
Austria	Offshore crane cylinders	1	Ø 520 / 340 / 4315	Ultraplate & hard chrome	2018

Austria	Offshore crane cylinders	1	Ø 550 / 410 / 5565	Ultraplate & hard chrome	2018
Norway	Offshore crane cylinders	1	Ø 470 / 360 / 5080	Ultraplate & hard chrome	2018
		1	Ø 380 / 250 / 3845		
Norway	Offshore crane cylinders	1	Ø 520 / 410 / 5780		2019
Brazil	Offshore crane cylinders	1	Ø 450 / 340 / 5080	Ultraplate & hard chrome	2019
		1	Ø 380 / 260 / 3800		
South Africa	Offshore crane cylinders	2	Ø 450 / 340 / 5080	Ultraplate & hard chrome	2019
		2	Ø 380 / 260 / 3800		
Norway	Double piston accumulator cylinder	1	Ø 540 / 290 / 2056	hard chrome	2019
Japan	Hydraulic cylinder for Underwater bucket	2	Ø 700 / 500 / 3100	Ceraplate	2020
Norway	Offshore crane cylinder	1	Ø 520 / 410 / 5790	hard chrome	2020
Norway	Offshore crane cylinder	1	Ø 380 / 250 / 3845	multilayer chrome	2022
USA	Offshore crane cylinder	1	Ø 550 / 410 / 5670	multilayer chrome	2022
		2	Ø 460 / 360 / 5709		

Offshore special cylinders in total since 1998: 1147

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