





RENEWABLE AND CLEAN

Ever since we first set sail, man has tried to control the pure power of wind. Today, wind power is the world's fastest growing energy source. Producing it and consuming it both include identifying potential energy savings. In order to increase the efficiency of the wind turbines, high demands are put on the design and the individual components. Fast delivery is a must, regardless if you need electricity or the tools to maintain a power plant. Innovation and productivity move things forward, no matter which way the wind will blow.

We are global – never far away. We believe in individual solutions. Atlas Copco – safe, high quality products that will increase your productivity.

BOLTING

Atlas Copco can offer the right high quality solution for any possible torque or tension application. We believe in the right product and the right offer.







MOUNTING OFTHE GEAR BOX in the nacelle. Tensor Revo tighten 32 thread rods, M33, to 1500 Nm in controlled manner. This electric tool solution reduce noise and vibrations, and it gives a fast and accurate assembly of the gear box.



WIND TURBINE FOUNDATION. 20 sets of the versatile Tentec Aero WTF tensioners were used together with high pressure hoses and hydraulic tensioner pumps to have a productive rise of this wind turbine tower. In this case the wind tower base was held by two sets of bolts – M42 and M160.

APPLICATION GUIDE – BOLTING

| | | Torque / Load Range | | | | |
|---------------------|---------------------|---|---|--|---|--|
| | Application | Up to 1000 Nm / Up to 500 KN load | 1000 - 3000 Nm / Up to 1000 KN | 3000 - 5000 Nm / 1000 - 1500 KN | Accessories | |
| | Foundation bolts | | WTFTensioners | | Electrical pump, hoses, connectors, couplers | |
| | Tower Section Bolts | | WTB Tensioners RT / RTX Wrenches RTP 1300 / RTP4100 | | Electrical pump, hoses, connectors, couplers, sockets, Filters, reaction arms | |
| | Nacelle mounting | RTP 130 | act wrenches 0/RTP 4100 Nutrunners | RT / RTX Wrenches | Pneumatic Pumps, Twinline Hoses, Sockets, Reaction arms, F/RD, Hex reducers, inserts, | |
| | Hub mounting | | RTP 1300 / RTP 4100 RT / RTX Wrenches | | Pneumatic Pumps, Twinline Hoses, Sockets, Reaction arms, back up wrenches, | |
| | Bearing to Hub | | WTB Tensioners RT / RTX Wrenches RTP 1300 / RTP4100 | | Electrical pump, hoses, connectors, couplers, sockets, Filters, reaction arms, Hydraulic hoses, inserts, hex | |
| | Blade bearings | WTB Tensioners RTP 1300 / RTP 4100 RTP 1300 / RTP 4100 R | | | reducers, support handles, safety nuts, back up wrenches | |
| | Generator bed | | | RT / RTX Wrenches | | |
| | Gearbox bed | LMS Impact wrenches Tensor Nutrunners | | | | |
| | Main bearing Bolts | · | | Electrical pump, hoses, connectors, couplers | | |
| Nacelle yaw bearing | | RTP 1300 / RTP 4100 | RT / RTX Wre | enches | Pneumatic Pumps, Twinline Hoses, Sockets, Reaction arms, | |
| | Axle shaft bolts | RTP 1300 / RTP 4100 RT / I | | RT / RTX Wrenches | | |
| | Maintenance | LMS Impact wrenches RT / RTX Wrenches, RTP Nutrunners WTB / WTF Tensioners | LMS Impact wrenches RT / RTX Wrenches, RTP Nutrunners WTF / WTB Tensioners | RT / RTX Wrenches WTF / WTB Tensioners | Electrical pump, hoses, connectors, couplers, sockets, Filters, reaction arms, Hydraulic hoses, inserts, hex reducers, support handles, safety nuts, back up wrenches | |

MATERIAL REMOVAL

Long process cycles place high demands on tools and operators. Use ergonomic tools with high power-toweight ratio that are built to last.



DIE GRINDER

LSF 19 is comes with a powerful 500 W air motor and speed governor, silencer and scatter dampening. Can also be equipped with dust extraction and diamond burr.

LCS38 for GRP cutting applications or regular LSV38 with a diamond

LSV SANDERS

Light weight sander with outstanding power-to-weight ratio and a lubrication free vane motor.







GRP CUTTING APPLICATION. In this case the two shells have been glued together, and the feeder system outside the actual blade needs to be removed. We recommend the LSV48/38 with a special diamond cutting kit or the LCS38 that allows you to use diamond discs and also incorporates a dust extraction. All the power you need to cut through the material with ease and increase the productivity.

SURFACE PREPARATION OF THE BLADES is a time consuming task. Cleaning them from excessive glue and preparing them for their final coat of paint. Meaning long trigger time in uncomfortable positions for the operator. Our high productivity sanders GTG25, LSV38 and our orbital sanders LST/LSO shorten the process time and minimize the vibrations and dust.

APPLICATION GUIDE – MATERIAL REMOVAL

| Application | Product recommendation | Accessories |
|--|---|---|
| Surface preparation of rotor blades and canopy before painting | GTG25 Angle Turbine grinder LSV48/38 Angle grinders LST/LSO Orbital sanders | Dust extraction kit, multiflex, hoses |
| Polishing of turbine blades | LSV28 Angle polisher | |
| Triming of rotor blades | LSV48/38 Angled grinders for GRP cutting LCS38 Circular cutter LCS10 Circular cutter | Diamond cutting kit, multiflex, hoses |
| Remove internal defects in rotor blades | LSV48/38 Angled grinders for GRP cutting LCS38 Circular cutter LSF28 Die grinder LCS10 Circular cutter LSF19, LSV19 Die grinder / Angled Die grinder LSF12, LSV12 Die grinder / Angled Die grinder | Diamond cutting kit, diamond burr/drum kit, multiflex. Hoses |
| Remove small surface defects on rotor blades | LSV19 Angle sander LSV12 Angle sander | Dust extraction kit, multiflex, hoses |
| Cleaning of large castings for the hub or nacelle bed plate | GTG40/25 Turbine Angle grinders GTR40 Turbine Straight Grinder LSS84/64 Vertical grinders LSR64 Straight grinder LSV48/38 Angle grinder LSF38 Die grinder LSS53 Vertical grinder LSR48/43/38 Straight grinders | MultiFlex, hoses and coupling |
| Tower construction | GTG40/25 Turbine Angle grinders LSV48/38 Angle grinder LSV28 Angle grinder LSF28 Die grinder | MultiFlex, hoses and coupling |
| Shape grinding and light deburring | LSF19, LSV19 Die grinder / Angle grinder LSF12, LSV12 Die grinder / Angle Die grinder LSF07 High speed Pencil grinder | MultiFlex, hoses and coupling |

