

## PDC/PCD Series



### *PDC for Drilling - Polycrystalline Diamond Compact*

**LANDS Superabrasives** supplies a wide range of PDC cutters for oil, gas, geological and coal mine industries. Our PDC cutters are specially developed for high impact strength and low abrasion wear. LANDS high quality PDC cutters work under the toughest conditions, high speeds, in the hardest and most unpredictable formations.



#### **OPQ Series**

LANDS OPQ PDC cutters are the most advanced cutters for Oil drilling. These cutters offer the highest wear resistance of the diamond layer and an unsurpassed impact resistance of the tungsten carbide mountings. These cutters offer significant gains in worldwide oil and gas production.

For size availability and chamfer details please refer to our specification sheet



#### **PQ Series**

LANDS PQ PDC cutters are economical cutters destined for the oil and gas exploration market where price and performance is a key element. The PQ series is an ideal solution for most standard oil and gas drilling applications.

For size availability and chamfer details please refer to our specification sheet



#### **GEO Series**

LANDS GEO cutters are produced specifically for the most common geological and exploration drilling. As not all formations are the same, these cutters can be customized to deliver a customer specified abrasion resistance.

For size availability and chamfer details please refer to our specification sheet



#### **CM Series**

LANDS CM series is a special cutter developed for the coal mining industry. It offers an extremely competitive edge in product performance and price ratio.

For size availability and chamfer details please refer to our specification sheet

## PDC/PCD Series



### *PCD Polycrystalline Diamond and TSP Thermally Stable Polycrystalline*

**LANDS Superabrasives** supplies a wide range of PCD cutters for the Stone industry, TSP cutters for oil, gas industries and TSP PCD for the gem industry. All cutters are specially developed with high impact strength and low abrasion wear in mind.



#### **PCD for Stone Industry**

These cutters are specifically developed and manufactured for the stone industry in chain saws to cut marble and granite in quarries.

For size availability and chamfer details please refer to our specification sheet



#### **TSP PCD for Oil and Gas**

LANDS Thermally Stable Polycrystalline cutters have unique self sharpening characteristics used mainly in the surface of the drill bits. LANDS TSP's are also available in Ni-clad coatings for superior bond retention.

Standard products include cubes, triangles and cylinders. Other customer specified dimensions are available.

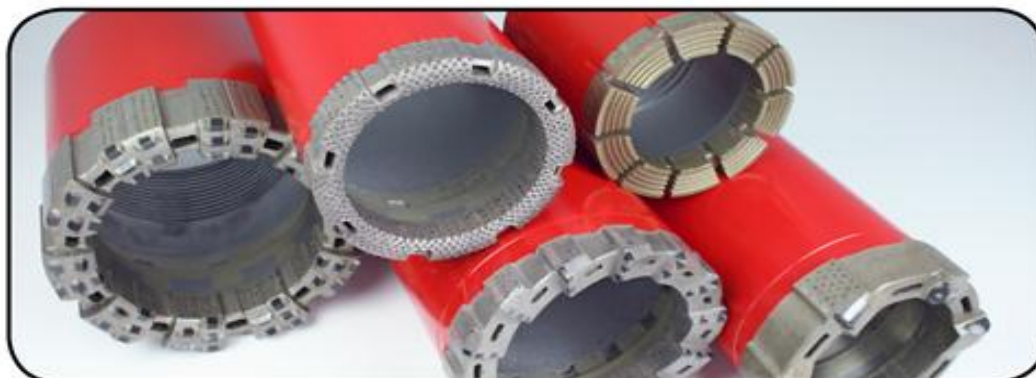
For size availability and chamfer details please refer to our specification sheet



#### **TSP PCD for Gem industry**

LANDS Thermally Stable Polycrystalline PCD is specifically manufactured for the Gem industry. They are the first choice for bruiting and polishing of gem quality natural diamonds

For size availability and chamfer details please refer to our specification sheet





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## PDC for Drilling - Polycrystalline Diamond Compact

LANDS Superabrasives supplies a wide range of PDC cutters for oil, gas, geological and coal mine industries. Our PDC cutters are specially developed for high impact strength and low abrasion wear. LANDS high quality PDC cutters work under the toughest conditions, in the hardest and most unpredictable formations with high speeds.

	LANDS Specification	Diameter	Total Height	Diamond Layer Thickness	Chamfer Diamond Layer	Chamfer Tungsten Carbide
OPQ	LS-0808/OPQ/D2	8.00	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1008/OPQ/D2	10.00	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1308/OPQ/D2	13.44	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1313/OPQ/D2	13.44	13.20	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1613/OPQ/D2	16.00	13.20	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1908/OPQ/D2	19.05	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1913/OPQ/D2	19.05	13.20	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
PQ	LS-0803/PQ/D2	8.00	3.53	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-0808/PQ/D2	8.00	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1008/PQ/D2	10.00	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1108/PQ/D2	11.00	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1303/PQ/D2	13.30	3.53	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1308/PQ/D2	13.44	8.10	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1313/PQ/D2	13.44	13.20	2.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
GEO	LS-0803/GEO/D1	8.00	3.53	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-0808/GEO/D1	8.00	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1008/GEO/D1	10.00	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1108/GEO/D1	11.00	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1303/GEO/D1	13.30	3.53	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1308/GEO/D1	13.44	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1313/GEO/D1	13.44	13.20	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
CM	LS-0803/CM/D1	8.00	3.53	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-0808/CM/D1	8.00	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1008/CM/D1	10.00	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1108/CM/D1	11.00	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1303/CM/D1	13.30	3.53	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1308/CM/D1	13.44	8.10	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°
	LS-1313/CM/D1	13.44	13.20	1.00 +/- 0.30	0.20 +/- 0.08 x 45°	0.50 +/- 0.08 x 45°

Customer specified dimensions, thicknesses and chamfers upon request.

## PDC/PCD Series

### TSP - Thermally Stable Polycrystalline Diamond

LANDS Superabrasives supplies a wide range of TSP cutters for oil, gas industries (drilling bits and bit reamers) and TSP's for the exclusive use in the Gem industry.  
All cutters are specially developed with high impact strength and low abrasion wear in mind.

Cubes	LANDS TYPE	SIZE (mm)
	LS - C10	1.0 x 1.0 x 1.0
	LS - C15	1.5 x 1.5 x 1.5
	LS - C20	2.0 x 2.0 x 2.0
	LS - C25	2.5 x 2.5 x 2.5
	LS - C30	3.0 x 3.0 x 3.0
	LS - C40	4.0 x 4.0 x 4.0
	LS - C50	5.0 x 5.0 x 5.0
	LS - C80	8.0 x 8.0 x 8.0
Triangles	LANDS TYPE	SIZE (mm) a x L x H
	LS - T4027/060	060° x (4.0 x 2.7)
	LS - T4030/060	060° x (4.0 x 3.0)
	LS - T4227/060	060° x (4.2 x 2.7)
	LS - T4230/060	060° x (4.2 x 3.0)
	LS - T4242/060	060° x (4.2 x 4.2)
	LS - T6035/060	060° x (6.0 x 3.5)
	LS - T6042/060	060° x (6.0 x 4.2)
	LS - T6243/060	060° x (6.2 x 4.3)
<i>Other angles available (35°, 45°, 80°, 90°)</i>		
Cylinders	LANDS TYPE	SIZE (mm) ø x H x a
	LS - CY35/180°	3.0 x 5.0 x 180°
	LS - CY55/180°	5.0 x 5.0 x 180°
	LS - CY88/180°	8.0 x 8.0 x 180°
<i>Other angles available (45°, 60°, 85°, 90°, 120°)</i>		
Bruiting	LANDS TYPE	SIZE (mm) ø x H
	LS - GEM0818B	1.8 x 0.8
	LS - GEM3060C	3.0 x 6.0
	LS - GEM4060C	4.0 x 6.0
<i>Cylinders with 90° dome available. Other types available on request.</i>		





## PDC/PCD Series



### PCD Cutters - Polycrystalline Diamond

**LANDS Superabrasives** supplies a wide range of PCD cutters for the Drilling Industry. All of these cutters are developed and produced with high impact strength and low abrasion wear in mind to confront any type of stone that needs to be processed.

PCD Cutters	LANDS TYPE	SIZE (mm) $\phi$ x H
	LS – 0403	4.00 x 3.10
	LS – 0408	4.00 x 8.10
	LS – 0503	5.00 x 8.10
	LS – 0603	6.00 x 3.20
	LS – 0803	8.00 x 3.53
	LS – 0808	8.00 x 8.10
	LS – 1103	11.00 x 3.53
	LS – 1108	11.00 x 8.10
	LS – 1303	13.30 x 3.53
	LS – 1308	13.44 x 8.10
	LS – 1309	13.30 x 9.00
	LS – 1313	13.44 x 13.20
	LS – 1608	16.05 x 8.10
	LS – 1613	16.05 x 13.20
	LS – 1616	16.05 x 16.00
	LS – 1905	19.05 x 5.00
	LS – 1908	19.05 x 8.10
	LS – 1913	19.05 x 13.20
	LS – 1916	19.05 x 16.00
LS – 2505	25.00 x 5.50	



Customer specified dimensions, thicknesses and chamfers upon request.