



RD-180 engine

Liquid propellant rocket engine for first stages of «Atlas III» and «Atlas V» LV of Lockheed Martin (USA)



1, Burdenko St., Khimki, Moscow Region, 141400, Russia Tel. (495) 777-27-27, fax (495) 251-75-04 E-mail: energo@online.ru

RD-180 engine



Main parameters of RD-180 engine

Liquid propellant rocket engine with afterburning of oxidizer-rich gases Propellant: LOX + kerosene

Thrust, sea level / vacuum, tf	124
Specific impulse, sea level/vacuum, sec	17,8
Pressure in combustion chamber, kgf/cm ²	272
Mass, dry / filled, kg	350
Dimensions, height / diameter, mm	200
Development period	999
Destination for first stages of «Atlas III» and «Atlas V»	LV
of Lockheed Martin (US	SA)

Milestones of RD-180 program

- Announcement about Lockheed Martin's choice of NPO Energomash project in competition for development of LRPE for «Atlas» LV – January, 1996
- Contract awards with Pratt&Whitney on development of RD-180 engine June, 1996
- Beginning of fire tests of RD-180 engine at NPO Energomash November, 1996
- Delivery of first serial production RD-180 engine in USA January, 1999
- RD-180 engine certification March, 1999
- First launch of «Atlas III» LV May, 2000
- First launch of «Atlas V» LV August, 2002
- MOU of Lockheed Martin request on 101 engines
- Signed contracts for 50 engines delivery
- 31 serial production engines had delivered in USA
- 3 launches of «Atlas III» and «Atlas V» LV were conducted in 2005
- 6 launches of «Atlas III» LV and 7 launches of «Atlas V» LV totally
- Total engine running time in flights 2856,8 sec
- Total running time at test stand 31 615,125 sec at 176 firings



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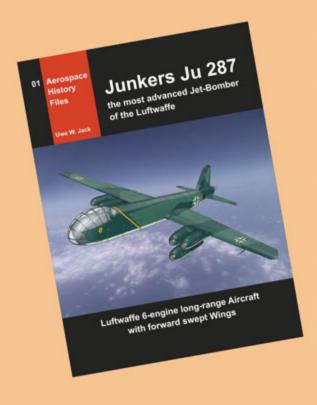
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