



Horizontal and Multilateral Wells Drilling Department



## Window Milling Whipstock Kit

Drill Pipes Bypass valve

**HWDP** 

**Filter** 

Flexible pipe

**Window Mill** 

Whipstock

Hydraulic Anchor

### **Designed:**

For one trip window milling in cased or open hole.

140mm, 146mm, 168mm, 178mm, 245mm kits are available for cased hole window milling; 83mm, 124mm, 143mm kits are available for open hole sidetrack drilling; However it is possible to adjust diameters of the kit due to the costumer requests in short period of time;

### **Advantages:**

- Enables to start a sidetrack drilling without cement plugs and any mechanical anchoring in hole with zenith angles up to 100°;
- Average window milling durations vary from 4 to 16 hours depending on steel types, casing thickness and zenith angle in milling interval;
- Window Mill could be repaired and reused depending on it wear;



## **Technical features of mass-produced whipstocks**

Technical Features		КОГУ-83	КОГУ-124	КОГУ- 140	КОГУ- 146	КОГУ- 168	КОГУ-178	КОГУ-245
Casing diameters, mm		Open hole	Open hole	140	146	168	178	245
Whipstock Ankle, grad.		Whipstock length, mm						
	2,5	1685	2650	2720	2720	3140	3140	5070
	3,0	-	-	2195	2195	-	-	-
Hydraulic Anchor length, mm		2232	3000	2300	3000	3100	3100	3500
Anchor Diameter, mm		73	106	116	120	135	137	210
Mill Diameter, mm		76-80	121-124	115-122	123-129	143-148	152-157	216-224



We can produce whipstocks of other standard sizes of upon customer requests in short terms!



## Additional Remedial Services

Our experienced field engineers provide high quality services in whipstock orienting and window milling operations. We managed about 1000 successful operations over the past 5 years.

Main costumers for our Remedial services are "Rosneft", "Gazprom", "Bashneft", "Slavneft", "SSK Drilling company", "SGK-Drilling" and "Katoil Drilling".

We also can provide recommendations and all necessary certifications upon the costumer request.





## Schlumberger











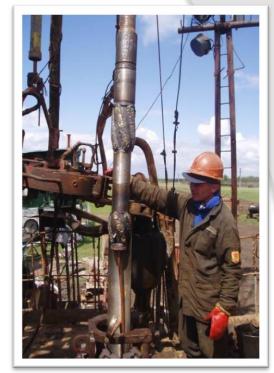
### Whipstock with hydraulic system



**Anchoring in casing** 



Milling components



Mills





# **Production plant in Ufa city**













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