API
ISO/TS
29001
Registered

API Spec Q1
Registered ®

QMS
REGISTERED

24 Karpinskogo Str., Perm, 614022, Russia

Reception
tel.: +7 (342) 211-13-11, fax: +7 (342) 280-17-67
e-mail: reception-bi@integra.ru

Commercial Department
tel.: +7 (342) 211-12-83, 211-12-81
fax: +7 (342) 211-12-84
e-mail: market-bi@integra.ru

www.vniibt-bi.ru

SIBERJAR

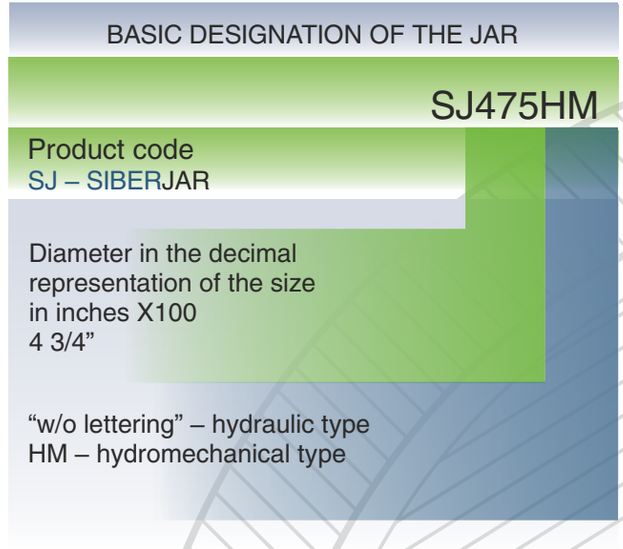
PRODUCT CATALOGUE

INTEGRA
DRILLING TOOLS

SIBERJAR

is the drilling tool applied for the release of stuck tools. Jar has been designed as a BHA component. In case of drill string stuck, the jar facilitates its release.

The optimal means stuck release is to force down or pull up the drill string. Thus, forced pull or slack off drill string is to be applied. At the moment of the jar actuation, the stuck point is jarred with various degrees of intensiveness in the certain direction. The jar enables to accumulate and instantly release the energy of the pulled up or compressed DS interval located above the stuck zone.
The impulse transmits to the stuck drill string and releases it.



SIBERJAR Specification

Parameters	SJ475	SJ675	SJ675HM	SJ800HM
Max. OD, in	4 7/8	6 7/8	6 7/8	8 1/4
Internal passage diameter, in	2 3/16	2 3/4	2 3/4	2 3/4
Free movement length after hydraulic delay, in	7 1/4	7 1/2		
Total spindle movement, in	23 5/8	23 5/8	21 5/8	21 5/8
Hydraulic delay time, sec.	30…150	30….150	30…90	30…90
Upward latch clamping force, lbf (adjustable)			36,000-100,000	40,000-100,000
Max. extension force over the jar parts during hydraulic delay, lbf	70,000	172,000	160,000	200,000
Max. extension force over the jar parts, lbf	192,000	640,000	400,000	500,000
Max. torque transmitted on the jar parts, ft·lbs	10326	28765	29502	36878
Connecting threads: Top, box Bottom, pin	 NC38 NC38	 NC50 NC50	 NC50 NC50	 6 5/8 Reg (6 5/8 FH) 6 5/8 Reg (6 5/8 FH)
Make-up torque of connecting threads, ft·lbs	9588±738	19177±738	19177±738	29502±738 (36878±738)
Working temperature, °F, max.	248	248	248	248
Length in open position with a sub under elevator, in	216.5	224.4	324.8	281.5
Total length when the latch is fixed, in			267.7	267.7
Time between maintenance, hours below rotary table	500	700	500	500
Weight, lbs	705	1,504	2,028	2,921

SIBERJAR Specification (metric)

Parameters	SJ475	SJ675	SJ675HM	SJ800HM
Max. OD, mm	124	175	175	210
Internal passage diameter, mm	56	70	70	70
Free movement length after hydraulic delay, mm	185	190		
Total spindle movement, mm	600	600	550	550
Hydraulic delay time, sec.	30…150	30….150	30…90	30…90
Upward latch clamping force, ton (adjustable)			18-50	20-50
Max. extension force over the jar parts during hydraulic delay, ton	35	86	80	100
Max. extension force over the jar parts, ton	96	320	200	250
Max. torque transmitted on the jar parts, kN·m	14	39	40	50
Connecting threads: Top, box Bottom, pin	 NC38 NC38	 NC50 NC50	 NC50 NC50	 6 5/8 Reg (6 5/8 FH) 6 5/8 Reg (6 5/8 FH)
Make-up torque of connecting threads, kN·m	13±1	26±1	26±1	40±1 (50±1)
Working temperature, °C, max.	120	120	120	120
Length in open position with a sub under elevator, m	5.5	5.7	8.25	7.15
Total length when the latch is fixed, m			6.8	6.8
Time between maintenance, hours below rotary table	500	700	500	500
Weight, kg	320	682	920	1325

HYDRAULIC DOUBLE-ACTING DRILLING JAR

- The jar is not equipped with latch activation mechanism. Therefore, the jar may be operated at extended reach well, complicating the establishment of an axial force required for jar recharging.
- The application of a hydraulic jet allows the hydraulic delay stability.
- The spline joint between the housing and the mandrel ensures reliable torque transmission at drill-string rotation.
- The jar is applicable at BHT up to 230°C provided certain specific heatproof sealing elements are installed.
- The splined section is placed in the jar's bottom section which decreases the possibility of damage to the tungsten carbide coating on the spline mandrel at the rig floor while the assembling.

HYDROMECHANICAL DOUBLE-ACTING DRILLING JAR

- The jar equipped with latch activation mechanism, which excludes the possibility of unintentional actuation in case of build-up force or while the drilling process.
- The jar is optimal for operation in vertical or low inclination wells, where it is possible to apply and control axial force.
- The jar's ID does not allow to pull up wireline equipment.