

WORKOVER RIG AM 12/40



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The AM12/40 mast equipped workover rig is the result of long experience in manufacturing (AM 12/50, AM 10) and repairing of workover rigs. It is designed for intervention and overhaul of oil and gas wells without derricks, of which working depth is in accordance with 40tf hook loads, to perform the following tasks:

The workover rig can perform additional functions: hydraulic pressure group for rotary table, hydraulic tongs or auxiliary tasks.

- inserting and extraction of tubing
- replacement of depth pumps
- various instrumentation
- bailing and swabbing tasks
- well columns repairs
- production tests

CHASSIS AND ENGINE

The transportable workover unit is installed on a Roman truck chassis, four-axles with 8x6 drive configuration, providing high rated handling on off-road conditions, remanining at the same time «road-friendly».

Both for driving and workover operations and all other energy requirements a power group based ona CATERPILLAR C9 ACERT type engine is used. The engine is coupled with an automatic gearbox CATERPILLAR TH31 type.



UNIT COMPONENTS

- The main parts of the workover unit are
- assembled on a frame
 - mounted on the
 - chassis:
 - hydraulic equipment with oil tank

pneumatic equipment with air tanks,

the drum braking control,

• fixed section of the mast,

coupling gear,

conic group,

T1T-10 winch

- mast with the telescopic cylinder,
- folding cylinder
- the driller platform.





API CERTIFICATION

CONFIND is a leading Romanian oil equipment manufacturer, working under a certified quality management system **ISO 9001:2008; ISO/TS 29001; API Spec.Q1; ISO 14001 şi OHSAS 18001,** holding licences for its products according to **API7-1,7K,8A,8C,11E and 11AX.**

- The essential parts of the AM 12/50 workover rig are manufactured under API specifications as follows: • hook: API 8C
 - crown-Block: API 4F for the crown and API 8C for the pulleys
- mast: API 4F
- hydraulic winch: API 7K for some of its subassemblies

T1T-10 WINCH

The winch has a handling drum operated thru a pneumatic clutch. The brakes have two braking bands, leveling rod and adjustment stands. The safety brake is pneumatical operated using a servo-motor controlled from the central operation stand, or under the action of the load and stroke limiters. The brake drums are water cooled.



DIGILOG UNIT

The operational parameters of the engine and workover equipment are real time supervised and logged by a Digilog unit installed in the driving cabin.

One of the advantages of the AM 40 workover rig is the fast field installation due to the rear hydraulic jacks having 5800 mm in full extension. Ground anchorage and stabilizers are no more necessary.

FAST INSTALLATION



- Handling hook MC65 (maximum load 59tf, 3 pulleys for a 22mm cable) ATEX certified.
- Hydraulic winch BREVINI Raptor 3.6;
- Measurement and logging device for hook and anchor loads DIGILOG;
- Loading pipeline for working fluids 2inch x 350bar mounted on the mast;
- Measurement device for depth of the pumping piston;
- Hydraulic tubing tong 2³/₈, 2⁷/₈, 3¹/₂;
- Air lock 50tf for tubing 2³/₈, 2⁷/₈, 3¹/₂;
- Anchor lines for the chassis;
- Measurement device for the tension on the anchor lines;
- Working platform at the well, 2380x2480mm, foldable, fixed on the rigid section, with height position adjustment, between 1340 and 2740mm; the working platform is surrounded by foldable railings and a adjusted stair that can be used on both sides of the platform;
- Grounding electrical system.

TECHNICAL SPECIFICATIONS AM 12/40 WORKOVER RIG

		Total allowed weight
Workover equipment		Chassis weight
Maximum hook load	40 tf	Maximum slope
Maximum power/RPM	224 kW (300 CP)/2.200 rpm	Ground clearance
Engine maximum torque	1.220 Nm/1.400 rpm	
No. of wires for manouevre at crown-block	6	Wheels, tires
Max. height from ground to the crown-block structure	19,9 m	Engine
Max. wind speed with loaded hook	60 knots (30,86 m/s)	Cubic capacity
Mast		Rated power
Туре	telescopic with two sections, "U"profile	Maximum torque
API capacity	65 ts (59 tf)	Torque convertor
Folding	with hydraulic cylinder	
Telescoping	with hydraulic cylinder	Gear box
Anchoring	with 4 enforced anchors to the	Power couplings Transfer case
	unit's chassis with 4 enforced anchors to the	Iransier case
	ground	Controls
Crown-Block		Rear axles
4 pulley/560 mm		Front axles
Hook		Front axies
No. of pulleys	3	Front axle
API capacity	65 ts (59 tf)	Electric power supply
Handling winch		Operating conditions
Maximum cable load	10 tf	Tension
Cable diameter	Ø 22 mm	Alternator
Pneumatic clutch	AB 700x125	Batteries
Working temperature range		Overall dimensions for r
-29°C+40°C		Length
Total weight	32.000 kg	Width
Unit max. driving speed	70 km/h	Height

Driving chassis Туре 8x6 - Roman Braşov Total allowed weight 37.000 kg 11.500 kg 30% Front 326 mm rear 330 mm 12.00R2-tube type (on-off profile) 12 +1pcs Caterpillar, diesel, 4-stroke, 6 cylinders inline, Tier IV supercharged, with intercooler 8,8 liters 220 kW (300 CP) /1.800-2.200 rpm 1.220 Nm/1.400 rpm TS 40-ESLF, multiplying ration : 2,46 Caterpillar - 6+1R gears (PTO) on the gearbox CD 1.500, inter-axial locking differential electro-pneumatical PT 13+PS 13, with traction, equipped with ABS PF 7 with traction, steering, equipped with ABS V070 steering ADR 24 V 24 V/min 80 A 2x12 V-min 150 Ah road transport

11.950 mm

2.500 mm

3.975 mm



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