	<p style="text-align: center;">SCOPE OF WORK (SOW) ITH Coupling Splitting Equipment</p>	<p style="text-align: center;">TURBO GEN SERVICES (TGS)</p>
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Title: ITH Coupling Splitting Equipment

Unique Identifier: N/A

Alternative Reference No.: N/A

Area of Applicability: Eskom Rotek

Industries (ERI) SOC Ltd.

Document Type: Scope of Work (SOW)

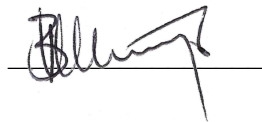
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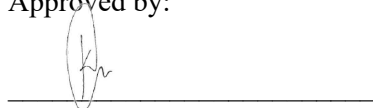
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1 Objectives

The objective of this document is to outline the requirements of ITH Coupling Splitting equipment.

2 Scope of services

The scope of responsibility includes the supply of ITH Coupling Splitting equipment.

All supplied equipment to include certificates of compliances. (COC – SANS)

3 Safety

The equipment must comply with the essential requirements of relevant health, safety and environmental protection legislation. This includes OHSAs as well as relevant SANS.

Operating manual must be supplied as well as warranties and guarantees applicable.

Maintenance schedule and repairs of equipment to be detailed.

4 Scope of Work (SOW)

1.0 1 pc. Electric-high pressure pump-unit - Type Hydro-MAX 1815.

SAP-No. 1-1071379 **Order-no.** 34.11318-19173-05a-25-160

Technical data

max. hydr. operating pressure [bar]: 1.500,00

voltage-frequency-phase: 190-230V-50+60Hz-1ph

Oil capacity, total / usable: 3,2 L / 1,3 L

Weight: 41,6 kg

Dimensions (LxWxH): 620x360x400 mm

2.0 1 pc. Hand lever-high pressure pump-unit - Type DA16

SAP-No. 1-1041796 **Order-no.** 50.01016-D18

for connecting of a hydraulic torque wrench, with oil tank, double stage pump unit with automatically reversal. With torque-adjusting valve, high pressure gauge, D160, class 1,0, PN 1000 bar, scale division 10 bar, four color scale for 4 different types of torque wrenches, one high pressure coupling, charged with oil, tested and ready for immediate use.

Technical data

max. hydr. operating pressure [bar]: 850,00

Oil capacity, total / usable: 2,0 L / 1,2

Weight: 11,8 kg

Dimensions (LxWxH): 880x180x280 mm

3.0 2 pcs. High pressure hose line, cover protection and safety spring, coupling with lockring, 5m - Type HDS34-250

SAP-No. 1-1008294 **Order-no.** 34.20034-0050-LR

For connection of hydraulic tool to high pressure pump. Made from flexible polyurethane, polyamide-covered interior, both multiple reinforced with high quality steel wire spiral, threaded elements pressed into either end, onto which high-pressure coupler and nipple with back-pressure valve are screwed.

Technical data

max. hydr. operating pressure [bar]: 2.500,00

Length: 5 m

Weight: 3,8 kg

1 pc. Flange bolt assembly tool.

SAP-No. 1-1043679 **Order-no.** 1BSD009921R0001B

Technical data

Weight: 148,0 kg

each consisting of:

4.1 1 pc. Flansch bolt tool inclusive

SAP-No. 1-1043680 Order-no. 1BSD011046R0001

each consisting of:

4.1.1 1 pc. Cross beam complete inclusive

SAP-No. 1-1043688 Order-no. 1BSD009983R0001

4.2 1 pc. Flange bolt tool inclusive

SAP-No. 1-1043681 Order-no. 1BSD011046R0002

4.3 1 pc. Flange bolt tool inclusive

SAP-No. 1-1043682 Order-no. 1BSD011046R0003

4.4 1 pc. Special tool shield for flange bolt assembly tool inclusive
1BSD009921R1

SAP-No. 1-1073536 Order-no. 79.00010-0006

4.5 1 pc. Holder M56 inclusive

SAP-No. 1-1074933 Order-no. 25.01032

4.6 1 pc. Holder M64, M72, M80 inclusive

SAP-No. 1-1074934 Order-no. 25.01033

4.7 1 pc. Holder M90, M100, M110, M125 inclusive

SAP-No. 1-1074942 Order-no. 25.01034

5.0 1 pc. Hydraulic bolt tensioning cylinder - Type MSK72-1580.

SAP-No. 1-1006394 Order-no. 33.50234a-5000-10

Of tempered steel, surface burnished respectively nickel-plated, with two-component-high-pressure joint, high pressure coupling nipple, for tightening and loosening of bolts, complete with the support sleeve, adjusting ring and adjusting rod as well as patented cycle counter and patented fracture safety device, completely assembled, pressure tested, filled with oil, ready for service.

Special equipment:

automatic piston return, measurement hole for screw in depth and lengthening, control notch, NIOX coating, safety cover, ergonomic carrying handle, hydraulic-mechanical cycle counter, with one stress optimized lock nut, mechanical stroke limitation,

Technical data

max. hydr. operating pressure [bar]: 1.540,00

Tension [kN]: 1.580,83

Outer diameter [mm]: 122,50

Height [mm]: 349,00

Stroke [mm]: 10

Oil capacity, total / usable: 102651.540

Weight: 25,5 kg

Change bushing (size): 72x6

(Connection part for bolt)

Support: Removable

Adjusting ring: Yes

Adjusting stick: Yes

each consisting of:

5.1 1 pc. Subassembly cylinder inclusive

SAP-No. 1-1021350 Order-no. 33.50234-21-10100-10-1BSD005590P1

5.1.2 1 pc. Subassembly change bushing inclusive

SAP-No. 1-1052270 Order-no. 33.50234-30000-10

each consisting of:

5.1.2.1 1 pc. Change bushing M72x6 inclusive

SAP-No. 1-1004126 Order-no. 33.50234-0010

5.2 1 pc. Subassembly support inclusive

SAP-No. 1-1052271 Order-no. 33.50234-20100

each consisting of:

5.2.1 1 pc. Support inclusive

SAP-No. 1-1014840 Order-no. 33.50234-0001b-1BSD005590P2

5.3 1 pc. Adjusting ring for M72 inclusive

SAP-No. 1-1005679 Order-no. 33.50234-0019-1BSD005590P3

5.4 1 pc. Adjusting stick Ø12 inclusive

SAP-No. 1-1021338 Order-no. 73.00070-0012-ITH7300070P12

6.0 1 pc. Hydraulic bolt tensioning cylinder - Type MSK64-1179.

SAP-No. 1-1006393 Order-no. 33.50233a-5000-10

Of tempered steel, surface burnished respectively nickel-plated, with two-component-high-pressure joint, high pressure coupling nipple, for tightening and loosening of bolts, complete with the support sleeve, adjusting ring and adjusting rod as well as patented cycle counter and patented fracture safety device, completely assembled, pressure tested, filled with oil, ready for service.

Special equipment:

NIOX-Coating, Safety carrying device and protective cap at hydraulic connector, hydraulic-mechanical cycle counter, with one stress optimized lock nut, automatic piston return, measurement hole, carrying handle, safety cover, control notch

Technical data

max. hydr. operating pressure [bar]: 1.540,00

Outerdiameter [mm]: 110,00

Height [mm]: 316,60

Stroke [mm]: 10

Weight: 16,8 kg

Change bushing (size): 64x6

(Connection part for bolt)

Support: Removable

Adjusting ring: Yes

Adjusting stick: Yes

each consisting of:**6.1 1 pc. Subassembly cylinder inclusive**

SAP-No. 1-1021348 **Order-no.** 33.50233-21-10100-10-1BSD005589P1

6.1.2 1 pc. Subassembly change bushing inclusive

SAP-No. 1-1030957 **Order-no.** 33.50233-30000-10

each consisting of:**6.1.2.1 1 pc. Change bushing M64x6 inclusive**

SAP-No. 1-1010039 **Order-no.** 33.50233-0010c

6.2 1 pc. Subassembly support inclusive

SAP-No. 1-1052103 **Order-no.** 33.50233-20100

each consisting of:**6.2.1 1 pc. Support inclusive**

SAP-No. 1-1021371 **Order-no.** 33.50233-0001a-1BSD005589P2

6.3 1 pc. Adjusting ring for M64 inclusive

SAP-No. 1-1005677 **Order-no.** 33.50233-0019-1BSD005589P3

6.4 1 pc. Adjusting stick Ø10 inclusive

SAP-No. 1-1021337 **Order-no.** 73.00070-0010-ITH7300070P10

7.0 1 pc. Hydraulic bolt tensioning cylinder - Type MSK80-1968.

SAP-No. 1-1006386 **Order-no.** 33.50235b-5000-10

Of tempered steel, surface burnished respectively nickel-plated, with two-component-high-pressure joint, high pressure coupling nipple, for tightening and loosening of bolts, complete with the support sleeve, adjusting ring and adjusting rod as well as patented cycle counter and patented fracture safety device, completely assembled, pressure tested, filled with oil, ready for service.

Special equipment:

automatic piston return, measurement hole for screw in depth and lengthening, control notch, NIOX coating, safety cover, ergonomic carrying handle, hydraulic-mechanical cycle counter, with one stress optimized lock nut, mechanical stroke limitation,

Technical data

max. hydr. operating pressure [bar]: 1.540,00

Tension [kN]: 1.968,00

Outerdiameter [mm]: 136,50

Height [mm]: 365,00

Stroke [mm]: 10

Oil capacity, total / usable: 127792.290

Weight: 28,3 kg

Change bushing (size): 117x2

(Connection part for bolt)

Support: Removable

Adjusting ring: Yes

Adjusting stick: Yes

each consisting of:**7.1 1 pc. Subassembly cylinder inclusive**

SAP-No. 1-1021352 **Order-no.** 33.50235-21-10100-10-1BSD005591P1

7.1.2 1 pc. Subassembly change bushing inclusive

SAP-No. 1-1030958 **Order-no.** 33.50235-30000-10

each consisting of:**7.1.2.1 1 pc. Change bushing M80x6 inclusive**

SAP-No. 1-1004131 **Order-no.** 33.50235-0010a

7.2 1 pc. Subassembly support inclusive

SAP-No. 1-1052098 **Order-no.** 33.50235-20100

each consisting of:

7.2.1 **1 pc. Support inclusive**

SAP-No. 1-1014842 **Order-no.** 33.50235-0001c-1BSD005591P2

7.3 **1 pc. Adjusting ring for M80 inclusive**

SAP-No. 1-1005680 **Order-no.** 33.50235-0019a-1BSD005591P3

7.4 **1 pc. Adjusting stick Ø12 inclusive**

SAP-No. 1-1021338 **Order-no.** 73.00070-0012-ITH7300070P12

8.0 **1 pc. Hydraulic bolt tensioning cylinder - Type MSK110-3937.**

SAP-No. 1-1006389 **Order-no.** 33.50238a-5000-10

Of tempered steel, surface burnished respectively nickel-plated, with two-component-high-pressure joint, high pressure coupling nipple, for tightening and loosening of bolts, complete with the support sleeve, adjusting ring and adjusting rod as well as patented cycle counter and patented fracture safety device, completely assembled, pressure tested, filled with oil, ready for service.

Special equipment:

automatic piston return, measurement hole for screw in depth and lengthening, control notch, NIOX coating, Turnable ring eye bolt, safety cover, hydraulic-mechanical cycle counter, with one stress optimized lock nut,

Technical data

max. hydr. operating pressure [bar]: 1.540,00

Tension [kN]: 3.937,09

Outerdiameter [mm]: 177,00

Height [mm]: 501,90

Stroke [mm]: 10

Oil capacity, total / usable: 255655.427

Weight: 60,0 kg

Change bushing (size): 110x6

(Connection part for bolt)

Support: Removable

Adjusting ring: Yes

Adjusting stick: Yes

each consisting of:

8.1 **1 pc. Subassembly cylinder inclusive**

SAP-No. 1-1021400 **Order-no.** 33.50238-21-10100-10

8.1.2 **1 pc. Subassembly change bushing inclusive**

SAP-No. 1-1058313 **Order-no.** 33.50238-30000-10

each consisting of:

8.1.2.1 **1 pc. Change bushing M110x6 inclusive**

SAP-No. 1-1008874 **Order-no.** 33.50238-0010a

8.2 **1 pc. Support inclusive**

SAP-No. 1-1021592 **Order-no.** 33.50238-0001

8.3 **1 pc. Adjusting ring for M110 inclusive**

SAP-No. 1-1005685 **Order-no.** 33.50238-0019-1BSD005594P3

8.4 **1 pc. Adjusting stick Ø16 inclusive**

SAP-No. 1-1021339 **Order-no.** 73.00070-0016-ITH7300070P16

1 pc. Hydraulic bolt tensioning cylinder - Type MSK125-5007.

SAP-No. 1-1006390 **Order-no.** 33.50239a-5000-10

Of tempered steel, surface burnished respectively nickel-plated, with two-component-high-pressure joint, high pressure coupling nipple, for tightening and loosening of bolts, complete with the support sleeve, adjusting ring and adjusting rod as well as patented cycle counter and patented fracture safety device, completely assembled, pressure tested, filled with oil, ready for service.

Special equipment:

automatic piston return, measurement hole for screw in depth and lengthening, control notch, NIOX coating, Turnable ring eye bolt, safety cover, hydraulic-mechanical cycle counter, with one stress optimized lock nut, mechanical stroke limitation,

Technical data

max. hydr. operating pressure [bar]: 1.540,00

Tension [kN]: 5.007,14

Outerdiameter [mm]: 200,00

Height [mm]: 557,00

Stroke [mm]: 12

Oil capacity, total / usable: 390166.958

Weight: 95 kg

Change bushing (size): 176x2

(Connection part for bolt)

Support: Separate

Adjusting ring: Yes

Adjusting stick: Yes

each consisting of:

9.1 1 pc. Subassembly cylinder inclusive

SAP-No. 1-1021359 Order-no. 33.50239-21-10100-10-1BSD005595P1

9.1.2 1 pc. Subassembly change bushing inclusive

SAP-No. 1-1052118 Order-no. 33.50239-30000-10

each consisting of:

9.1.2.1 1 pc. Change bushing M125x8 inclusive

SAP-No. 1-1009527 Order-no. 33.50239-0010a

9.2 1 pc. Support inclusive

SAP-No. 1-1021376 Order-no. 33.50239-0001-1BSD005595P2

9.3 1 pc. Adjusting ring for M125 inclusive

SAP-No. 1-1016711 Order-no. 33.50239-0019-1BSD005595P3

9.4 1 pc. Adjusting stick Ø16 inclusive

SAP-No. 1-1021339 Order-no. 73.00070-0016-ITH7300070P16

10.0 1 pc. ITH tensioning device 150MPa M80.

SAP-No. 1-1074218 Order-no. HTGD119030R0007

Technical data

Weight: 23,85 kg

each consisting of: inclusive

10.1 1 pc. Support ring for M80 inclusive

SAP-No. 1-1020335 Order-no. TGD431678P1 E

10.2 1 pc. Engaging Ring for M80 inclusive

SAP-No. 1-1005727 Order-no. TGD328074R2E 7 / 15

10.3 1 pc. ITH Tensioning device "150" M80 cpl. inclusive

SAP-No. 1-1074226 Order-no. 1BSD101165R0013

each consisting of:

10.3.1 1 pc. Hydraulic bolt tensioning cylinder inclusive

SAP-No. 1-1072608 Order-no. 33.44255-20-50000-10-1BSD101165P0013

10.3.2 1 pc. Turn on device for adjusting stick inclusive

SAP-No. 1-1072614 Order-no. 33.44255-0037-1BSD101165P0033

10.3.3 1 pc. Turn on device for hand ratchet inclusive

SAP-No. 1-1072617 Order-no. 33.44255-0038-1BSD101165P0053

10.3.4 1 pc. Adjusting stick Ø8 inclusive

SAP-No. 1-1076384 Order-no. 73.00070-0008-1BSD101165P0073

11.0 1 pc. ITH tensioning device 150MPA M52 for SHK DN475

SAP-No. 1-1076148 Order-no. HTGD455267R0009

each consisting of:

11.1 1 pc. Tension bolt M52x150 inclusive

SAP-No. 1-1005981 Order-no. HTGD336960P1 F

11.2 1 pc. Support ring D137x39 inclusive

SAP-No. 1-1008579 Order-no. HTGD337059P1 D

11.3 1 pc. Distance ring D100x97 inclusive

SAP-No. 1-1008580 Order-no. HTGD455185P1 C

11.4 1 pc. Engaging ring for M52 inclusive

SAP-No. 1-1008581 Order-no. HTGD337076R1 G

11.5 1 pc. Mandrel D18x240 inclusive

SAP-No. 1-1020167 Order-no. HTGD455282P1 D

**11.6 2 pcs. Hexagon Set Screws with Small Hexagon inclusive
and Full Dog Point M24x180**

SAP-No. 1-1017853 Order-no. 9ANA370293P2319

11.7 2 pcs. Centering sleeve D75 inclusive

SAP-No. 1-1008584 Order-no. HTGD339561P1 B

11.8 1 pc. Spacer ring D75 inclusive

SAP-No. 1-1008586 Order-no. HTGD455889P1 B

11.9 1 pc. ITH Tensioning cylinder "150" M52 cpl inclusive

SAP-No. 1-1074256 Order-no. 1BSD101165R0006

each consisting of:

11.9.1 1 pc. Hydraulic bolt tensioning cylinder inclusive

SAP-No. 1-1064354 Order-no. 33.44248-20-50000-10-1BSD101165P0006

11.9.1. 1 pc. Change bushing M52x5 inclusive

SAP-No. 1-1074898 Order-no. 33.44248-0010

11.9.2 1 pc. Turn on device for adjusting stick inclusive

SAP-No. 1-1064313 Order-no. 33.44248-0037-1BSD101165P0026

11.9.3 1 pc. Turn on device for hand ratchet inclusive

SAP-No. 1-1064315 Order-no. 33.44248-0038-1BSD101165P0046

11.9.4 1 pc. Adjusting stick Ø6 inclusive

SAP-No. 1-1090832 Order-no. 73.00070-0006-1BSD101165P0066

11.9.5 1 pc. Distance Ring DN475 for M52 inclusive

SAP-No. 1-1073324 Order-no. 1BSD101138P6

12.0 1 pc. ITH tensioning device 150MPA M42 for SHK DN400.

SAP-No. 1-1073384 Order-no. HTGD455264R0009

Technical data

Weight: 16,0 kg

each consisting of:

12.1 1 pc. Tension bolt M42x120 inclusive

SAP-No. 1-1020165 Order-no. HTGD336957P1 D

12.2 1 pc. Support ring D115x33 inclusive

SAP-No. 1-1002230 Order-no. HTGD337056P1 D

12.3 1 pc. Distance ring D85x82 inclusive

SAP-No. 1-1001715 Order-no. HTGD455182P1 C

12.4 1 pc. Engaging ring for M42 inclusive

SAP-No. 1-1002231 Order-no. HTGD337073R1 F

12.5 1 pc. Mandrel D14x220 inclusive

SAP-No. 1-1020162 Order-no. HTGD455281P1 C

12.6 1 pc. Spacer ring D63 inclusive

SAP-No. 1-1004076 Order-no. HTGD455703P1 B

12.7 2 pcs. Centering sleeve D63x124 für SHK DN400, 425K, 425G inclusive

SAP-No. 1-1004075 Order-no. HTGD339558P1 B

12.8 1 pc. ITH Tensioning device "150" M42 cpl. inclusive

SAP-No. 1-1073385 Order-no. 1BSD101165R0003

each consisting of:

12.8.1 1 pc. Hydraulic bolt tensioning cylinder inclusive

SAP-No. 1-1064347 Order-no. 33.44245-20-50000-10-1BSD101165P0003

12.8.2 1 pc. Turn on device adjusting stick inclusive

SAP-No. 1-1064296 Order-no. 33.44245-0037-1BSD101165P0023

12.8.3 1 pc. Turn on device for hand ratchet inclusive

SAP-No. 1-1064298 Order-no. 33.44245-0038-1BSD101165P0043

12.8.4 1 pc. Adjusting stick Ø4 inclusive

SAP-No. 1-1090829 Order-no. 73.00070-0004-1BSD101165P0063

12.8.5 1 pc. Distance Ring DN400 for M42 inclusive

SAP-No. 1-1073321 Order-no. 1BSD101138P3 9 / 15

12.9 2 pcs. Hexagon Set Screws with Small Hexagon inclusive and Full Dog Point M24x160

SAP-No. 1-1017852 Order-no. 9ANA370293P2318E

13.0 1 pc. ITH tensioning device 150MPA M60 for SHK DN530.

SAP-No. 1-1075501 Order-no. HTGD455269R0009

Technical data

Weight: 24,0 kg

each consisting of:

13.1 1 pc. Tension bolt M60x170 inclusive

SAP-No. 1-1009559 Order-no. HTGD336962P1 A

13.2 1 pc. Support ring D160 inclusive

SAP-No. 1-1010841 Order-no. HTGD337061P1 D

13.3 1 pc. Distance ring D112x109 inclusive

SAP-No. 1-1001323 Order-no. HTGD455187P1 C

13.4 1 pc. Engaging ring for M60 complete inclusive

SAP-No. 1-1001320 Order-no. HTGD337078R1 F

each consisting of:

13.4.1 1 pc. Engaging ring for M60 inclusive

SAP-No. 1-1009937 Order-no. HTGD337078P1 E

13.4.2 3 pcs. Parallel pin Ø8x30 inclusive

SAP-No. 1-1024095 Order-no. 79.08734-080-0300

13.5 1 pc. Mandrel D18x240 inclusive

SAP-No. 1-1020167 Order-no. HTGD455282P1 D

13.6 2 pcs. HEXAGON screw with pivot M30x200 inclusive

SAP-No. 1-1018352 Order-no. 9ANA370293P2370

13.7 2 pcs. Centering sleeve D85 inclusive

SAP-No. 1-1004239 Order-no. HTGD339563P1 C

13.8 1 pc. Spacer ring D85 inclusive

SAP-No. 1-1010842 Order-no. HTGD461634P1 C

13.9 1 pc. ITH Tensioning cylinder "150" M60 cpl. inclusive

SAP-No. 1-1074259 Order-no. 1BSD101165R0008

each consisting of:

13.9.1 1 pc. Hydraulic bolt tensioning cylinder inclusive

SAP-No. 1-1064357 Order-no. 33.44250-20-50000-10-1BSD101165P0008

13.9.1. 1 pc. Adjusting stick Ø6 inclusive

SAP-No. 1-1002916 Order-no. 73.00070-0006

13.9.2 1 pc. Turn on device for adjusting stick inclusive

SAP-No. 1-1064322 Order-no. 33.44250-0037-1BSD101165P0028

13.9.3 1 pc. turn on device for hand ratchet inclusive

SAP-No. 1-1064323 Order-no. 33.44250-0038-1BSD101165P0048 10 / 15

13.9.4 1 pc. Adjusting stick Ø6 inclusive

SAP-No. 1-1090837 **Order-no.** 73.00070-0006-1BSD101165P0068

13.9.5 1 pc. Distance Ring DN530 for M60 inclusive

SAP-No. 1-1073326 **Order-no.** 1BSD101138P8

14.0 1 pc. ITH Fittings 150MPA.

SAP-No. 1-1007554 **Order-no.** HTGD455705R0006G

Technical data

Weight: 0,8 kg

each consisting of:

14.1 1 pc. Subassembly elongation pipe, 2500 bar inclusive

SAP-No. 1-1016429 **Order-no.** 34.00097-185-25a

14.2 1 pc. Coupling elbow, 2500 bar inclusive

SAP-No. 1-1002995 **Order-no.** 34.20061b

14.3 1 pc. Coupling, inner thread G1/4, 2500 bar inclusive

SAP-No. 1-1001386 **Order-no.** 34.20050

15.0 1 pc. Hydraulic torque wrench with support - Type DRS83.

SAP-No. 1-1006034 **Order-no.** 51.10008-5000

with TWIN-Swivel connector,

for the tightening and loosening of screws, equipped with interior toothing for taking up special-power-box-spanner-sockets, with an enclosed steel casing, with exterior toothing for support/rest, surface coated against rust, with a free-wheel ratchet. With a single-acting hydraulic cylinder with automatic piston return, a high pressure coupling nipple for coupling of high pressure hose line.

Technical data

max. hydr. operating pressure [bar]: 940,00

max. Torque [Nm]: 8.300,00

Width of casing [mm]: 60,00

Top radius [mm]: 40,00

Weight: 8,0 kg

16.0 1 pc. Special hexagon socket A/F32 - Type DRS-SE.

SAP-No. 1-1006249 **Order-no.** 51.12008-0032

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 32 mm

Weight: 0,6 kg

17.0 1 pc. Special hexagon socket A/F19 - Type DRS-SE.

SAP-No. 1-1002639 **Order-no.** 51.12008-0019

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 19 mm

Weight: 0,5 kg

18.0 1 pc. Special hexagon socket A/F22 - Type DRS-SE.

SAP-No. 1-1006248 **Order-no.** 51.12008-0022

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 22 mm

Weight: 0,52 kg 11 / 15

19.0 1 pc. Special hexagon socket A/F27 - Type DRS-SE.

SAP-No. 1-1002026 **Order-no.** 51.12008-0027

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 27 mm

Weight: 0,54kg

20.0 1 pc. Special power box spanner socket A/F65, long.

- Type DRS-KSE

SAP-No. 1-1005256 **Order-no.** 51.12308-0065L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 65 mm

Weight: 4,40kg

21.0 1 pc. Special hexagon socket A/F36 - Type DRS-SE.

SAP-No. 1-1002027 **Order-no.** 51.12008-0036

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 36 mm

Weight: 0,6 kg

22.0 1 pc. Special hexagon socket A/F41 - Type DRS-SE.

SAP-No. 1-1002028 **Order-no.** 51.12008-0041

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 41 mm

Weight: 0,8 kg

23.0 1 pc. Special hexagon socket A/F50 - Type DRS-SE.

SAP-No. 1-1002640 **Order-no.** 51.12008-0050

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 50 mm

Weight: 1,10 kg

24.0 1 pc. Special hexagon socket A/F55 - Type DRS-SE.

SAP-No. 1-1002107 **Order-no.** 51.12008-0055

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 55 mm

Weight: 1,3 kg

25.0 1 pc. Special power box spanner socket A/F27 - Type DRS-KSE

SAP-No. 1-1007289 **Order-no.** 51.12308-0027

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 27 mm

26.0 1 pc. Special power box spanner socket A/F36, long

- Type DRS-KSE

SAP-No. 1-1007652 **Order-no.** 51.12308-0036L

Technical data

Drive: pass. zu DR8,3; DRS83

Negative drive: 36 mm

Weight: 1,24kg

27.0 1 pc. Special power box spanner socket A/F41, long.

- Type DRS-KSE

SAP-No. 1-1002607 **Order-no.** 51.12308-0041L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 41 mm

Weight: 1,48kg

28.0 1 pc. Special power box spanner socket A/F46, long.

- Type DRS-KSE

SAP-No. 1-1002642 **Order-no.** 51.12308-0046L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 46 mm

Weight: 2,27kg

29.0 1 pc. Special power box spanner socket A/F50, long.

- Type DRS-KSE

SAP-No. 1-1010947 **Order-no.** 51.12308-0050L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 50 mm

Weight: 2,6kg

30.0 1 pc. Special power box spanner socket A/F55, long.

- Type DRS-KSE

SAP-No. 1-1002109 **Order-no.** 51.12308-0055L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 55 mm

Weight: 3,05kg

31.0 1 pc. Special power box spanner socket A/F60, long.

- Type DRS-KSE

SAP-No. 1-1010948 **Order-no.** 51.12308-0060L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 60 mm

Weight: 3,8 kg

32.0 1 pc. Special power box spanner socket A/F95, long.

- Type DRS-KSE

SAP-No. 1-1010949 **Order-no.** 51.12308-0095L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 95 mm

Weight: 11,6 kg

33.0 1 pc. Special power box spanner socket A/F75, long.

- Type DRS-KSE

SAP-No. 1-1002644 **Order-no.** 51.12308-0075L

Technical data

Drive: suit. to DR8,3; DRS83

Negative drive: 75 mm

Weight: 5,8 kg

2 pcs. Lift cylinder.

SAP-No. 1-1001968 **Order-no.** 36.10300-25

of tempered steel, surface burnished, with two-component-high-pressure joint, high pressure coupling nipple, completely assembled, pressure-tested, filled with oil, ready for service.

Special equipment:

2500 bar Nippel

Technical data

max. hydr. operating pressure [bar]: 1.100,00

Tension [kN]: 322,00

Outer diameter [mm]: 75,00

Height [mm]: 59,00

Stroke [mm]: 15

Weight: 1,9 kg

35.0 1 pc. Hand lever-high pressure pump-unit - Type HA25-2-150.

SAP-No. 1-1005918 **Order-no.** 34.10025-2-11-25

with stepless putting high pressure limit valve

stop valve with lift and force valves, rolled steel casing, high pressure gauge (manometer), ø100 mm, class 1.0, PN 1600 bars, high pressure coupling, fully assembled, oil-charged and ready for service.

Special equipment:

- coupling 2500bar

- glycerine filled gauge Ø100 with rubber protection

Technical data

max. hydr. operating pressure [bar]: 1.500,00

Height [mm]: 260,00

Weight: 10,4 kg

Dimensions (LxWxH): 810x235x265 mm

36.0 1 pc. Accessories auxiliary bearing.

SAP-No. 1-1025301 **Order-no.** HTGD459410R0002A

each consisting of:

36.1 1 pc. Lift cylinder inclusive

SAP-No. 1-1001391 **Order-no.** 36.00016a

36.2 1 pc. Reduction socket inclusive

SAP-No. 1-1001404 **Order-no.** HTGD459329P1

36.3 1 pc. Nipple, outer thread, 1500 bar inclusive

SAP-No. 1-1010996 **Order-no.** 34.10053-5028

36.4 1 pc. Plate inclusive

SAP-No. 1-1010500 **Order-no.** HTGD480308P1

37.0 1 pc. Operating instruction for ITH bolt tensioning cylinders inclusive

(German/English)

SAP-No. 1-1045783 **Order-no.** 09.80081Ile

Technical data

Weight: 0,3kg

38.0 1 pc. Operating instruction for ITH-Torque wrenches inclusive

(German/English)

SAP-No. 1-1004359 **Order-no.** 09.80041IIb 14 / 15

39.0 7 pcs. Inspection certificate for bolt tensioning cylinder inclusive

SAP-No. 1-1007374 Order-no. 09.000681b

40.0 3 pcs. Inspection certificate for high pressure pump units inclusive and high pressure gauges

SAP-No. 1-1006191 Order-no. 09.00468b-XXXXXXXXX

Technical data

Weight: 0,3Kg

41.0 2 pcs. Inspection certificate for high pressure hose line inclusive

SAP-No. 1-1024589 Order-no. 09.00597

42.0 1 pc. Inspection certificate for torque wrenches inclusive

SAP-No. 1-1020111 Order-no. 09.00087

43.0 1 pc. Pin type face spanner ø6 inclusive

SAP-No. 1-1000853 Order-no. 65.00015

Technical data

Weight: 0,307 kg

44.0 1 pc. Pin type face spanner ø6, elongated inclusive

SAP-No. 1-1005431 Order-no. 65.00015S

Technical data

Weight: 1,2 kg

45.0 1 pc. Pin type face spanner ø8 inclusive

SAP-No. 1-1000341 Order-no. 65.00016

Technical data

Weight: 0,3kg

46.0 1 pc. Pin type face spanner ø8, elongated inclusive

SAP-No. 1-1005029 Order-no. 65.00016S

Technical data

Weight: 1,2 kg

47.0 4 pcs. Hand ratchet 1/2" inclusive

SAP-No. 1-1004014 Order-no. 62.00070

Technical data

Weight: 0,455 kg

48.0 1 pc. Euro pallet with 4 borders inclusive

SAP-No. 1-1008104 Order-no.

Technical data

Weight: 49,8 kg

Dimensions (LxWxH): 1200x800x950cm