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  - Shank HLX1 Adapters ~ p10
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  - Male/Male Adapters ~ p13

ROOF BOLTING
  - Dolly Pusher ~ p14 – p15
Drill Mech (Pty) Ltd was founded in 2012 as a supplier; focusing on marketing locally designed, developed and manufactured drilling consumables. Our quality drilling and extension tools are designed by passionate enthusiasts committed to develop and produce high quality engineered and manufactured mining products.

Drill Mech is a fully (100%) South African owned company, our products, suppliers of raw material, heat treatment plants and waste management companies are all local South African based companies. Drill Mech’s products have been specifically designed to enhance quality and durability that ultimately equates to maximum productivity at reduced costs.
Specifications relating to:
- Dimensions
- Body type
- Button configuration
- Water flushing
- Sludge flushing
- Hardened and tempered

Flushing grooves in face and on side
Face and side water flushing holes
High quality tungsten carbide
Gauge – button angle

--- | --- | --- | --- | --- | --- | --- | --- | ---
STD R25 – 33 SB | 33 | R25 | 6 | 2 | 4 | SB | 35°
STD R28 – 38 SB | 38 | R28 | 6 | 3 | 6 | SB/D | 35°
STD R32 – 43 SB | 43 | R32 | 6 | 3 | 6 | SB/D | 35°
STD R32 – 45/5 SB | 45 | R32 | 6 | 3 | 5 | SB/D | 35°
STD R32 – 45 SB | 45 | R32 | 6 | 3 | 6 | SB/D | 35°
STD R32 – 48/5 SB | 48 | R32 | 6 | 3 | 5 | SB/D | 35°
STD R32 – 48 SB | 48 | R32 | 6 | 3 | 6 | SB/D | 35°
STD R32 – 51/5 SB | 51 | R32 | 6 | 3 | 5 | SB/D | 35°
STD R32 – 51 SB | 51 | R32 | 6 | 3 | 6 | SB/D | 35°
STD R32 – 64/5 SB | 64 | R32 | 8 | 4 | 5 | SB/D | 35°
STD R32 – 64 SB | 64 | R32 | 8 | 4 | 6 | SB/D | 35°
STD R32 – 76/5 SB | 76 | R32 | 8 | 4 | 5 | SB/D | 35°
STD R32 – 76 SB | 76 | R32 | 8 | 4 | 6 | SB/D | 35°

- For Semi Ballistic or Dome Button shape add SB or D respective behind order code. All drill bits are hardened and tempered.

Outcomes from innovative design:
- Rapid penetration due to improved design
- Improved strike face ensures even percussion
- Button configuration decreases pressure on drill rods
- Quicker sludge removal due to enhanced flushing holes

www.drillmech.co.za
Drilling for Drifting, Bolting and Blasting

Specifications relating to:
- Dimensions
- Body type
- Button configuration
- Water flushing
- Sludge flushing
- Hardened and tempered

Outcomes from innovative design:
- Rapid penetration due to improved design
- Improved strike face ensures even percussion
- Button configuration decreases pressure on drill rods
- Quicker sludge removal due to enhanced flushing holes

Order Code | Size mm | Thread | No. Outside Button | No. Inside Button | Water Holes | Carbide Shape | Button Shape | Gauge Angle
--- | --- | --- | --- | --- | --- | --- | --- | ---
ST22 – 36 SB | 36 | ST22 | 5 | 2 | 3 | SB | 35°
ST22 – 38 SB | 38 | ST22 | 5 | 2 | 3 | SB | 35°

- For Semi Ballistic or Dome Button shape add **SB** or **D** respective behind order code.

* The **ST22** and **ST25** thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.

www.drillmech.co.za
MF Extension Rods – Threaded & Taper

Specifications relating to:
- Dimensions
- Body Type
- Hardened and Tempered

Rod lengths (m): 0.5 – 1.5

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Thread / Taper (a)</th>
<th>Thread / Taper (b)</th>
<th>Thread (a) Male (M)</th>
<th>Thread (b) Female (F)</th>
<th>Hex (H)</th>
<th>Length (L) mm</th>
<th>Through Water Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>H22 ST22 M/F - 050</td>
<td>ST22</td>
<td>ST22</td>
<td>M</td>
<td>F</td>
<td>22</td>
<td>0,50</td>
<td>YES</td>
</tr>
<tr>
<td>H22 ST22 M/F - 080</td>
<td>ST22</td>
<td>ST22</td>
<td>M</td>
<td>F</td>
<td>22</td>
<td>0,80</td>
<td>YES</td>
</tr>
<tr>
<td>H22 ST22 M/F - 090</td>
<td>ST22</td>
<td>ST22</td>
<td>M</td>
<td>F</td>
<td>22</td>
<td>0,90</td>
<td>YES</td>
</tr>
<tr>
<td>H22 ST22 M/F - 110</td>
<td>11°/12°</td>
<td>11°/12°</td>
<td>M</td>
<td>F</td>
<td>22</td>
<td>1,10</td>
<td>YES</td>
</tr>
<tr>
<td>H22 ST22 M/F - 150</td>
<td>11°/12°</td>
<td>11°/12°</td>
<td>M</td>
<td>F</td>
<td>22</td>
<td>1,50</td>
<td>YES</td>
</tr>
</tbody>
</table>

- Taper Rods can be ordered as **TD11** or **TD12** depending on Taper bit degree.
- All rods can be ordered as Hex (H) 25mm. Replace H22 with H25 in order code. H25 drill rods require ST25 drill bits.

**Extension Rods can be manufactured according to client specifications and variable lengths are available on request. Above items are Drill Mech standard.**

* The **ST22** and **ST25** thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill bit. Please refer to ST drill bits.

www.drillmech.co.za

Reaching New Depths
Roof Bolting – Coupling

Specifications relating to:
- Dimensions
- Body Type
- Hardened and Tempered


Order Code | Length (mm) | Diameter (D) mm | Thread (a) Female | Thread (b) Female | Through Water Hole
--- | --- | --- | --- | --- | ---
ST22 ST22 F/F 132C | 132 | 31 | ST22 | ST22 | YES
R25 R25 F/F 134C | 134 | 32 | R25 | R25 | YES
R28 R28 F/F 136C | 136 | 36 | R28 | R28 | YES
R32 R32 F/F 162C | 162 | 40 | R32 | R32 | YES
R32 R25 F/F 148C | 148 | 40 | R32 | R25 | YES

Couplings can be manufactured according to client specifications. Above items are Drill Mech standard stock items.

* The ST22 and ST25 thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.
**Shank Rod Adapters**

**Specifications relating to:**
- Dimensions
- Body type
- Fully carburized

**Thread:** ST22*, ST25*, R25, R28

**Hex (mm):** 22, 25

**Order Code**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Thread</th>
<th>Thread Male (M)</th>
<th>Hex (H)</th>
<th>Length (L)</th>
<th>Length (l)</th>
<th>Through Water Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>108 FC H22 ST22 - 300</td>
<td>ST22</td>
<td>M</td>
<td>22</td>
<td>300</td>
<td>108</td>
<td>YES</td>
</tr>
<tr>
<td>108 FC H25 ST25 - 300</td>
<td>ST25</td>
<td>M</td>
<td>25</td>
<td>300</td>
<td>108</td>
<td>YES</td>
</tr>
<tr>
<td>108 FC H22 R25 - 300</td>
<td>R25</td>
<td>M</td>
<td>22</td>
<td>300</td>
<td>108</td>
<td>YES</td>
</tr>
<tr>
<td>108 FC H25 R25 - 300</td>
<td>R25</td>
<td>M</td>
<td>25</td>
<td>300</td>
<td>108</td>
<td>YES</td>
</tr>
<tr>
<td>108 FC H22 R28 - 300</td>
<td>R28</td>
<td>M</td>
<td>22</td>
<td>300</td>
<td>108</td>
<td>YES</td>
</tr>
<tr>
<td>108 FC H25 R28 - 300</td>
<td>R28</td>
<td>M</td>
<td>25</td>
<td>300</td>
<td>108</td>
<td>YES</td>
</tr>
</tbody>
</table>

* Shank Adapters can be ordered with an 159mm Shank – replace 108 with 159 in order code.

**Shank Rod Adapters** can be manufactured according to client specifications and variable lengths are available on request. Above items are Drill Mech standard.

* The ST22 and ST25 thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.

**FC** – Forged Collar
Information

Shank - Adapters

Specifications relating to:

- Dimensions
- Body type
- Fully carburized

Adapter thread: ST22*, ST25*
Type: HLX 1

Order Code

<table>
<thead>
<tr>
<th>Thread</th>
<th>Spline (d) mm</th>
<th>Spline (d2) mm</th>
<th>Length (L) mm</th>
<th>Diameter (D) mm</th>
<th>Through Water Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA ST22 HLX1</td>
<td>ST22</td>
<td>39</td>
<td>24</td>
<td>255</td>
<td>28</td>
</tr>
<tr>
<td>SA ST25 HLX1</td>
<td>ST25</td>
<td>39</td>
<td>24</td>
<td>255</td>
<td>28</td>
</tr>
</tbody>
</table>

* The ST22 and ST25 thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.
Roof Bolting - Broach Adapter

Specifications relating to:
- Dimensions
- Body type
- Hardened and tempered

Lengths (mm): 108
Thread: ST22*, ST25* R32
(Patent pending)

* The ST22 and ST25 thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.

Order Code | Length (mm) | Diameter (D) mm | Female Hex (H) | Thread Male | Through Water Hole
--- | --- | --- | --- | --- | ---
108 H22 ST22 280 BA | 280 | 44 | 22 | ST22 | YES
108 H22 R32 280 BA | 280 | 44 | 22 | R32 | YES
BOLTING EXTENTION EQUIPMENT

Roof Bolting – Spinning Adapter

Specifications relating to:
- Dimensions
- Body type
- Hardened and tempered

Lengths (mm): 300 - 500
Thread: ST22*, ST25*, R32, T38

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Length (mm)</th>
<th>Diameter (d) mm</th>
<th>Diameter (D) mm</th>
<th>Thread Male</th>
<th>Nut Size (Metric)</th>
<th>Through Water Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA 300 ST22 M24</td>
<td>300</td>
<td>45</td>
<td>68</td>
<td>ST22</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 300 R32 M24</td>
<td>300</td>
<td>45</td>
<td>68</td>
<td>R32</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 300 T38 M24</td>
<td>300</td>
<td>45</td>
<td>68</td>
<td>T38</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 400 ST22 M24</td>
<td>400</td>
<td>45</td>
<td>68</td>
<td>ST22</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 400 R32 M24</td>
<td>400</td>
<td>45</td>
<td>68</td>
<td>R32</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 400 T38 M24</td>
<td>400</td>
<td>45</td>
<td>68</td>
<td>T38</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 500 ST22 M24</td>
<td>500</td>
<td>45</td>
<td>68</td>
<td>ST22</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 500 R32 M24</td>
<td>500</td>
<td>45</td>
<td>68</td>
<td>R32</td>
<td>24</td>
<td>YES</td>
</tr>
<tr>
<td>SA 500 T38 M24</td>
<td>500</td>
<td>45</td>
<td>68</td>
<td>T38</td>
<td>24</td>
<td>YES</td>
</tr>
</tbody>
</table>

- Replace M24 with either M32, M36 or M38 for larger nut sizes.

* The **ST22 and ST25** thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.
Roof Bolting – Male / Male Adapter

Specifications relating to:
- Dimensions
- Body type
- Hardened and tempered

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Length (mm)</th>
<th>Diameter (D) mm</th>
<th>Thread(a) Male</th>
<th>Thread(b) Male</th>
<th>Through Water Hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>R32 ST22 M/M 146SA</td>
<td>146</td>
<td>40</td>
<td>R32</td>
<td>ST22</td>
<td>YES</td>
</tr>
<tr>
<td>R32 ST25 M/M 162SA</td>
<td>162</td>
<td>40</td>
<td>R32</td>
<td>ST25</td>
<td>YES</td>
</tr>
<tr>
<td>R32 T38 M/M 178SA</td>
<td>178</td>
<td>42</td>
<td>R32</td>
<td>T38</td>
<td>YES</td>
</tr>
</tbody>
</table>

Male/Male Adapters can be manufactured according to client specifications and variable adapters are available on request. Above items are Drill Mech standard.

* The ST22 and ST25 thread is a patented product by Drill Mech (Pty) Ltd designed for use with an ST threaded drill rod. Please refer to ST drill rods.
Roof Bolting – Dolly Pusher

Specifications relating to:
- Dimensions
- Body type
- Hardened and tempered

Lengths (mm): 280
Shank: 108, 159

Order Code | Length (L) | Shank length (l) | Diameter (D) | Diameter (d) | Diameter (d1) | Length (l1) | Length (l2)
---|---|---|---|---|---|---|---
108 H22 280 DP | 280 | 108 | 49 | 22 | 25.5 | 25 | 25
108 H25 280 DP | 280 | 108 | 49 | 25 | 25.5 | 25 | 25

- Dolly Pushers can be ordered with a 159mm Shank – replace 108 with 159 in order code.
Dolly Pushers can be manufactured according to client specifications.
Roof Bolting – Dolly Pusher

Specifications relating to:
- Dimensions
- Body type
- Hardened and tempered

Lengths (mm): 230 - 800
Thread: R32, T38

Order Code | Length (mm) | Diameter (D) mm | Diameter (D1) mm | Diameter (D2) mm | Thread | Taper (d) | Through water hole
--- | --- | --- | --- | --- | --- | --- | ---
DP 230 R32 STD | 230 | 40 | 60 | 60 | R32 | STD | YES
DP 230 T38 STD | 230 | 40 | 60 | 60 | T38 | STD | YES
DP 700 T38 STD | 700 | 40 | 60 | 60 | T38 | STD | YES
DP 800 T38 STD | 800 | 40 | 60 | 60 | T38 | STD | YES

Dolly Pushers can be manufactured according to client specifications.
Contact us:

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Factoria, Krugersdorp, South Africa

E-mail: info@drillmech.co.za

Website: www.drillmech.co.za

Telephone: +2711 955 3839

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