



Bite the rocks with FANGS PDC BITS



MATRIX BODY



Main characteristics

Optimized bit profile, suitable for drilling medium soft to medium homogeneous formations.

Composite gage protection and low torque design improve rate of penetration.

CFD hydraulic balance design results in better bit cleaning and cutting removal.

Combined utilization of high performance PDC compacts significantly prolongs bit life.

Added teeth in leading blades to prolong bit life.

| Bit size (in) * | Specifications | | | | | | Recommended drilling parameters | | | |
|-----------------------|----------------------------|----------------------------|------------------------|----------------------------|----------------------------|------------------------------|---------------------------------|----------------|---------------------------|-----------------------------|
| | No. of cutters (pcs) | Size of cutters (mm) | Gage length (mm) | No. of nozzles (pcs) | dia. of nozzles (mm) | API reg. pin size (in) | WOB (kn) | RPM (r/min) | Mud flow rate (l/s) | HHP (w/mm ²) |
| 4 1/2 | 14 | 13 X 08 | 27 | 5 | 10mm X 2 12mm X 3 | 2 3/8 | 10-30 | 60-200 | 8-15 | 2-7 |
| 4 3/4 | 16 | 13 X 08 | 35 | 5 | 12mm X 5 | 2 7/8 | 10-40 | 60-200 | 8-15 | 2-7 |
| 6 | 20 | 13 X 08 | 51 | 5 | 16mm X 3 *13mm X 2 | 3 1/2 | 10-40 | 60-200 | 8-15 | 2-7 |
| 8 1/2 | 27 | 16 X 13 13 X 08 | 75 | 5 | *13mm X 5 | 4 1/2 | 13-66 | 60-240 | 25-38 | 2-7 |
| 9 7/8 | 31 | 16 X 13 13 X 08 | 70 | 5 | *13mm X 5 | 6 5/8 | 13-90 | 60-240 | 30-44 | 2-7 |
| 11 7/8 | 42 | 19 X 16 | 100 | 7 | *13mm X 5 16mm X 2 | 6 5/8 | 13-98 | 60-240 | 38-60 | 2-7 |
| 12 | 42 | 19 X 16 | 100 | 7 | *13mm X 5 16mm X 2 | 6 5/8 | 13-98 | 60-240 | 38-60 | 2-7 |
| 12 1/4 | 45 | 19 X 16 | 120 | 7 | *13mm X 5 16mm X 2 | 6 5/8 | 13-98 | 60-240 | 38-60 | 2-7 |

* Other sizes available on request

Main characteristics

- Optimized short parabolic profile, suitable for drilling soft to medium soft homogeneous formations.
- Asymmetrical evolute spiral blade cutter placement makes the bit more stable during drilling.
- Primary and secondary cutting structure extends bit life.
- CFD hydraulic balance design results in better bit cleaning and cutting removal.
- Combined utilization of high performance PDC compacts significantly prolongs bit life.



| Bit size (in) | Specifications | | | | Recommended drilling parameters | | | |
|---------------|----------------------|------------------|----------------------|------------------------|---------------------------------|-------------|---------------------|--------------------------|
| | No. of cutters (pcs) | Gage length (mm) | No. of nozzles (pcs) | API reg. pin size (in) | WOB (kN) | RPM (r/min) | Mud flow rate (l/s) | HHP (w/mm ²) |
| 8 1/2 | 30 | 85 | 4 | 4 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 9 1/2 | 36 | 82 | 4 | 6 5/8 | 30-100 | 50-500 | 25-35 | 2-7 |
| 11 5/8 | 46 | 100 | 6 | 6 5/8 | 50-160 | 50-500 | 44-60 | 2-7 |
| 12 1/4 | 52 | 120 | 6 | 6 5/8 | 50-160 | 50-500 | 44-60 | 2-7 |

Douce Corp. Authorized Dealer :
EMEA (Europe, Middle East & Africa)



www.sorimci.com

Main characteristics

- Optimized bit profile, suitable for drilling medium soft to medium homogeneous formations.
- Evolute cutter placement, asymmetrical blade design and balanced bit load so that bit whirl is prevented.
- Composite gage protection and low torque design improve rate of penetration.
- CFD hydraulic balance design results in better bit cleaning and cutting removal.
- Combined utilization of high performance PDC compacts significantly prolongs bit life.



| Bit size (in) | Specifications | | | | Recommended drilling parameters | | | |
|---------------|----------------------|------------------|----------------------|------------------------|---------------------------------|-------------|---------------------|--------------------------|
| | No. of cutters (pcs) | Gage length (mm) | No. of nozzles (pcs) | API reg. pin size (in) | WOB (kN) | RPM (r/min) | Mud flow rate (l/s) | HHP (w/mm ²) |
| 6 | 20 | 70 | 4 | 3 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 8 1/2 | 27 | 75 | 5 | 4 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 9 1/2 | 31 | 70 | 5 | 6 5/8 | 30-100 | 50-500 | 25-35 | 2-7 |
| 11 5/8 | 42 | 100 | 7 | 6 5/8 | 50-160 | 50-500 | 44-60 | 2-7 |
| 12 1/4 | 45 | 120 | 7 | 6 5/8 | 50-160 | 50-500 | 44-60 | 2-7 |

Douce Corp. Authorized Dealer :
EMEA (Europe, Middle East & Africa)



www.sorimci.com

Main characteristics

- Optimized bit profile, suitable for drilling medium to medium-hard homogeneous formations with low abrasiveness.
- Asymmetrical evolute blade cutter placement and balanced bit load so that bit whirl is prevented.
- Primary and secondary cutting structure design increases impact strength of the bit.
- Composite gage protection and low torque design improve rate of penetration.
- CFD hydraulic balance design results in better bit cleaning and cutting removal.
- Combined utilization of high performance PDC compacts significantly prolongs bit life.



| Bit size (in) | Specifications | | | | Recommended drilling parameters | | | |
|---------------|----------------------|------------------|----------------------|------------------------|---------------------------------|-------------|---------------------|--------------------------|
| | No. of cutters (pcs) | Gage length (mm) | No. of nozzles (pcs) | API reg. pin size (in) | WOB (kN) | RPM (r/min) | Mud flow rate (l/s) | HHP (w/mm ²) |
| 6 1/2 | 35 | 50 | 3 | 3 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 8 1/2 | 45 | 75 | 6 | 4 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 9 1/2 | 53 | 85 | 6 | 6 5/8 | 50-160 | 50-500 | 25-35 | 2-7 |
| 12 1/4 | 67 | 100 | 6 | 6 5/8 | 50-160 | 50-5000 | 44-60 | 2-7 |

Douce Corp. Authorized Dealer :
EMEA (Europe, Middle East & Africa)

www.sorimci.com

Main characteristics

- Optimized bit profile, suitable for drilling medium hard to hard formations with low abrasiveness and thin stringers.
- Evolute asymmetrical blade cutter placement design and balanced bit load so that bit whirl is prevented.
- Primary and secondary cutting structure increases impact strength of the bit.
- Composite gage protection and low torque design improve rate of penetration.
- CFD hydraulic balance design results in better bit cleaning and cutting removal.
- Combined utilization of high performance PDC compacts significantly prolongs bit life.



| Bit size (in) | Specifications | | | | Recommended drilling parameters | | | |
|---------------|----------------------|------------------|----------------------|------------------------|---------------------------------|-------------|---------------------|--------------------------|
| | No. of cutters (pcs) | Gage length (mm) | No. of nozzles (pcs) | API reg. pin size (in) | WOB (kN) | RPM (r/min) | Mud flow rate (l/s) | HHP (w/mm ²) |
| 5 5/8 | 31 | 50 | 3 | 3 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 8 1/2 | 73 | 75 | 4 | 4 1/2 | 30-100 | 50-500 | 25-35 | 2-7 |
| 11 5/8 | 100 | 100 | 8 | 6 5/8 | 50-160 | 50-500 | 44-60 | 2-7 |
| 12 1/4 | 116 | 100 | 8 | 6 5/8 | 50-160 | 50-500 | 44-60 | 2-7 |

Douce Corp. Authorized Dealer :
EMEA (Europe, Middle East & Africa)



www.sorimci.com