

TONGSHUN
通顺 DRILLING EQUIPMENT

PRODUCT CATALOGUE

DRILLING EQUIPMENT

WATER WELL · CORE DRILLING · DRILL PIPE SYSTEMS

ABOUT TONGSHUN

DRILLING EQUIPMENT, DRILL PIPE & SUPPORTING TOOLS

COMPANY PROFILE

Jinzhou City Tongshun Drilling Machine Co., Ltd. is a China-based manufacturer and supplier of drilling equipment and drilling tools. Our portfolio covers water-well and core drilling rigs; API, DTH, HDD and RC drill pipe systems; drill collars, heavy-weight drill pipe, tool joints, subs and adapters; together with screw air compressors, mud pumps and related drilling support equipment.

MANUFACTURING & QUALITY

Manufacturing and processing capabilities include friction welding, forging, intermediate-frequency furnace processing, straightening and machining. Dedicated inspection equipment supports dimensional, material-property, connection-geometry and final pre-delivery checks.

CUSTOMER SUPPORT

From product selection and configuration confirmation to model-specific technical documentation and after-sales support, Tongshun works with customers to match the drilling equipment, drill pipe and tooling to actual project conditions.

This catalogue presents representative product ranges and key selection data. Complete model-specific technical parameters are supplied separately in the corresponding TDS.

PRODUCTS & APPLICATIONS

PRODUCT RANGE

- Water-well drilling rigs
- Core drilling rigs
- Drill pipe systems (API, DTH, HDD, RC)
- Drill collars and HWDP
- Tool joints, subs and adapters
- Screw air compressors
- Mud pumps and support equipment

APPLICATION RANGE

- Water-well drilling
- Core drilling and exploration
- Geothermal drilling
- HDD and trenchless work
- RC drilling and sampling
- Related field applications

REPRESENTATIVE PRODUCT RANGES

CAPABILITIES & SUPPORT

01

MANUFACTURING

Friction welding, forging, furnace processing, straightening and machining.

02

QUALITY CONTROL

Dimensional, material-property, connection-geometry and pre-delivery verification.

03

TECHNICAL SUPPORT

Product selection, configuration confirmation, model-specific TDS and after-sales support.

TONGSHUN 通顺 DRILLING EQUIPMENT

FROM APPLICATION TO CONFIGURATION

A practical route through water-well drilling rigs, core drilling rigs, drill pipe and supporting equipment.

01 WATER WELL



02 CORE DRILLING



03 DRILL PIPE



CATALOGUE MAP

PRODUCT SYSTEMS / PAGE GUIDE

01 **WATER-WELL DRILLING RIGS** 01–10

Select by geology, hole diameter, casing and air demand.

02 **CORE DRILLING RIGS** 11–22

Compare BTW / NTW / HTW depth and the complete drilling system.

03 **DRILL PIPE & ACCESSORIES** 23–42

Confirm drilling method, dimensions, thread and interface.

SELECTION PATH

APPLICATION → OPERATING ENVELOPE → TECHNICAL DATA → FINAL CONFIGURATION

TONGSHUN
通顺 DRILLING EQUIPMENT

01

WATER-WELL DRILLING RIGS

SELECT BY OPERATING ENVELOPE, NOT BY DEPTH ALONE

W01 **180-260 m**

COMPACT WATER-WELL

COMPACT / MOBILE

W02 **300-450 m**

GENERAL-PURPOSE

VERSATILE / BALANCED

W03 **500-700 m**

DEEP-WELL

DEEP CAPACITY / HIGHER PULLBACK

W04 **800-1000 m**

HEAVY-DUTY DEEP-WELL

VERY DEEP / HEAVY-DUTY

SERIES SELECTION MAP

Start with geology, final hole diameter and casing plan. Then confirm depth, drill-pipe size, pullback and compressor demand.

W01 COMPACT WATER-WELL SERIES

180–260 m

BEST FOR

Rural and community water wells, farm irrigation, construction water and contractors moving frequently between small or restricted sites.

SELECT BY

COMPACT / MOBILE / COST-CONTROLLED

W02 GENERAL-PURPOSE SERIES

300–450 m

BEST FOR

Professional water-well contractors handling mixed rural supply, commercial wells, irrigation and medium-depth projects across changing job sites.

SELECT BY

VERSATILE / BALANCED / CONTRACTOR-READY

W03 DEEP-WELL SERIES

500–700 m

BEST FOR

Regional water contractors, institutional supply, deeper irrigation wells and projects where target aquifers or hard-rock intervals require greater depth reserve.

SELECT BY

DEEP CAPACITY / HIGHER PULLBACK / 102-114 MM PIPE

W04 HEAVY-DUTY DEEP-WELL SERIES

800–1000 m

BEST FOR

Deep groundwater development, arid-region supply, large irrigation or industrial water projects, and contractors managing long drill strings and heavier casing programs.

SELECT BY

VERY DEEP / HEAVY-DUTY / LARGE DIAMETER

W01

COMPACT WATER-WELL SERIES

180–260 m

- COMPACT
- MOBILE
- COST-CONTROLLED
- FREQUENT RELOCATION

REPRESENTATIVE MACHINE

TSH-260



WHERE IT FITS

Rural and community water wells, farm irrigation, construction water and contractors moving frequently between small or restricted sites.

HOW TO CHOOSE

Choose this series when the planned depth is generally within 260 m and transport efficiency matters as much as drilling capacity. The 76-89 mm drill-pipe range and 1.7-2.5 MPa air requirement suit compact DTH packages in consolidated formations.

OPERATING BOUNDARY

Loose or collapse-prone overburden should be reviewed for casing or mud support before the rig is selected.

COMPACT WATER-WELL SERIES

180-260 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSH-180 R	TSH-180 S	TSH-200	TSH-260
DEPTH	180 m	180 m	200 m	260 m
HOLE DIA.	140-254 mm	140-254 mm	140-254 mm	140-305 mm
PIPE DIA.	76 / 89 mm	76 / 89 mm	76 / 89 mm	76 / 89 mm
TORQUE	3.2-4.6 kN.m	3.2-4.6 kN.m	3.2-4.5 kN.m	4.0-5.3 kN.m
SPEED	45-70 rpm	45-70 rpm	45-70 rpm	45-70 rpm
LIFT	12 T	12 T	13 T	15 T
LIFT SPEED	20 m/min	20 m/min	20 m/min	24 m/min
POWER	55 kW	60 kW	58 kW	76 kW
COMPRESSOR	1.7-2.5 MPa 17-31 m3/min	1.7-2.5 MPa 17-31 m3/min	1.7-2.5 MPa 17-31 m3/min	1.7-2.5 MPa 17-31 m3/min
DIMENSIONS	3950 x 1630 x 2250 mm	4000 x 1630 x 2250 mm	3950 x 1750 x 2250 mm	3900 x 1750 x 2250 mm

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

W02

GENERAL-PURPOSE SERIES

300-450 m

- VERSATILE
- BALANCED
- CONTRACTOR-READY
- WIDER OPERATING RANGE

REPRESENTATIVE MACHINE

TSH-400



WHERE IT FITS

Professional water-well contractors handling mixed rural supply, commercial wells, irrigation and medium-depth projects across changing job sites.

HOW TO CHOOSE

This is the broadest selection band in the range. It adds higher torque, lifting force and larger drill-pipe options while remaining below the logistics burden of the deep-well machines.

OPERATING BOUNDARY

Select the final model from expected depth, casing diameter, geology and compressor demand, not depth alone.

GENERAL-PURPOSE SERIES

300-450 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSH-300A	TSH-300B	TSH-350	TSH-400	TSH-450
DEPTH	300 m	300 m	350 m	400 m	450 m
HOLE DIA.	140-325 mm	140-305 mm	140-325 mm	140-325 mm	140-350 mm
PIPE DIA.	76 / 89 mm	76 / 89 / 102	89 / 102 mm	89 / 102 mm	89 / 102 mm
TORQUE	5.7-7.5 kN.m	5.7-7.5 kN.m	6.2-8.5 kN.m	6.5-9.0 kN.m	7.0-9.5 kN.m
SPEED	40-70 rpm	40-70 rpm	66-135 rpm	66-135 rpm	30-135 rpm
LIFT	18 T	18 T	22 T	24 T	25 T
LIFT SPEED	22 m/min	22 m/min	18 m/min	18 m/min	20 m/min
POWER	85 kW	85 kW	91 kW	92 kW	103 kW
COMPRESSOR	1.7-3.0 MPa 17-36 m3/min	1.7-3.0 MPa 17-36 m3/min	1.7-3.4 MPa 17-36 m3/min	1.7-3.4 MPa 17-36 m3/min	1.7-3.4 MPa 17-36 m3/min
DIMENSIONS	4100 x 2000 x 2260 mm	5900 x 1850 x 2200 mm	6000 x 2000 x 2550 mm	6000 x 2000 x 2550 mm	5950 x 2100 x 2600 mm

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

W03

DEEP-WELL SERIES

500–700 m

- DEEP CAPACITY
- HIGHER PULLBACK
- 102-114 MM PIPE
- LONGER CAMPAIGNS

REPRESENTATIVE MACHINE

TSH-600



WHERE IT FITS

Regional water contractors, institutional supply, deeper irrigation wells and projects where target aquifers or hard-rock intervals require greater depth reserve.

HOW TO CHOOSE

Choose this series when deeper drilling, heavier drill strings and longer casing programs make pullback and torque critical.

OPERATING BOUNDARY

Match the air package to actual hole diameter, hammer and altitude. The catalogue air range is a rig requirement, not a guarantee that one compressor suits every formation.

DEEP-WELL SERIES

500-700 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSH-500	TSH-600	TSH-700
DEPTH	500 m	600 m	700 m
HOLE DIA.	140-350 mm	140-350 mm	140-350 mm
PIPE DIA.	89 / 102 / 114	102 / 108 / 114	102 / 108 / 114
TORQUE	7.5-10.0 kN.m	8.5-11.0 kN.m	8.5-11.0 kN.m
SPEED	45-130 rpm	45-130 rpm	45-140 rpm
LIFT	26 T	28 T	28 T
LIFT SPEED	20 m/min	20 m/min	20 m/min
POWER	110 kW	118 kW	132 kW
COMPRESSOR	1.7-3.5 MPa 17-42 m3/min	1.7-3.5 MPa 17-42 m3/min	1.7-3.5 MPa 17-42 m3/min
DIMENSIONS	6300 x 2200 x 2650 mm	6300 x 2200 x 2650 mm	6200 x 2200 x 2950 mm

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

W04

HEAVY-DUTY DEEP-WELL SERIES

800–1000 m

- VERY DEEP
- HEAVY-DUTY
- LARGE DIAMETER
- HIGH LIFT RESERVE

REPRESENTATIVE MACHINE

TSH-1000



WHERE IT FITS

Deep groundwater development, arid-region supply, large irrigation or industrial water projects, and contractors managing long drill strings and heavier casing programs.

HOW TO CHOOSE

This series should be specified as a complete drilling system. Confirm geological method, final diameter, casing plan, drill-pipe inventory, compressor output at site altitude, fuel and water logistics, and transport limits before ordering.

OPERATING BOUNDARY

Higher power and 30-36 T lifting force provide depth reserve, but do not replace a project-specific drilling plan.

HEAVY-DUTY DEEP-WELL SERIES

800-1000 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSH-800	TSH-1000
DEPTH	800 m	1000 m
HOLE DIA.	140-400 mm	140-400 mm
PIPE DIA.	102 / 108 / 114	102/108/114/117
TORQUE	8.85-13.15 kN.m	9.0-14.0 kN.m
SPEED	45-140 rpm	45-140 rpm
LIFT	30 T	36 T
LIFT SPEED	20 m/min	20 m/min
POWER	153 kW	194 kW
COMPRESSOR	1.7-3.5 MPa 17-42 m3/min	1.7-3.5 MPa 17-42 m3/min
DIMENSIONS	6300 x 2300 x 2950 mm	6300 x 2300 x 2950 mm

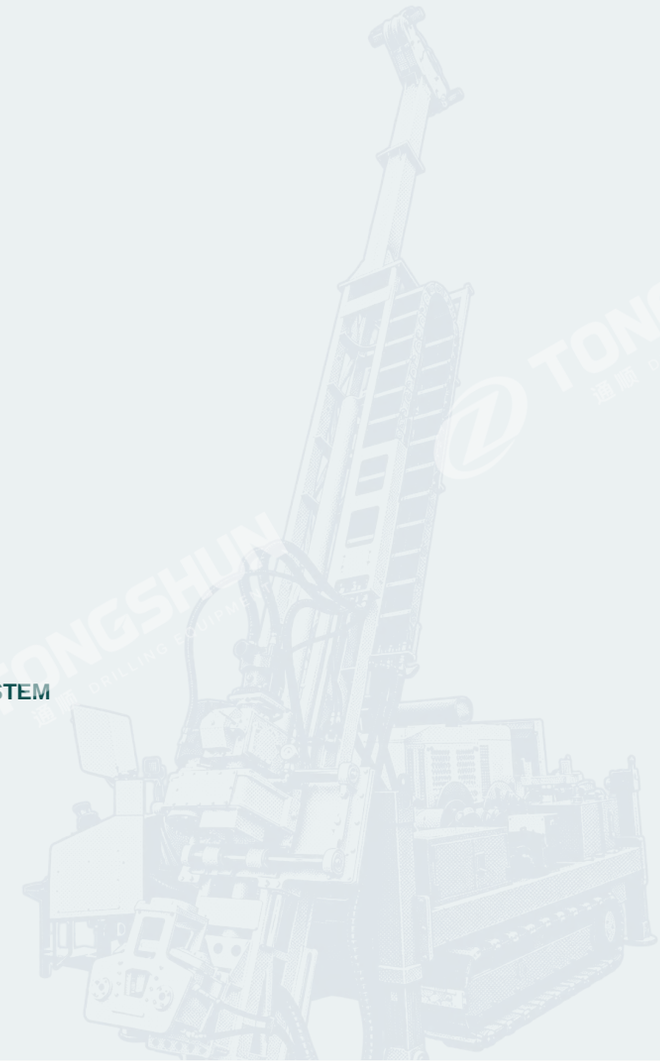
DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

TONGSHUN
通顺 DRILLING EQUIPMENT

02

HYDRAULIC CORE DRILLING RIGS

SELECT BY CORE SIZE, DEPTH AND COMPLETE DRILLING SYSTEM



C01 **BTW 260-480 m**

COMPACT HYDRAULIC CORE

COMPACT / ACCESSIBLE

C02 **BTW 650-1000 m**

MID-DEPTH HYDRAULIC CORE

MID-DEPTH / WIRELINE

C03 **BTW 1200-1400 m**

DEEP HYDRAULIC CORE

DEEP EXPLORATION / LONG WIRELINE

C04 **BTW 1800-2000 m**

HEAVY-DUTY DEEP CORE

HEAVY-DUTY / LONG-HOLE

C05 **NTW 2000-2600 m**

ULTRA-DEEP CORE

ULTRA-DEEP / 10-12 KN.M TORQUE

SERIES SELECTION MAP

Start with required core size and target depth. Then confirm hole angle, hoisting, wireline, fluid system and site access.

C01 COMPACT HYDRAULIC CORE SERIES

BTW 260–480 m

BEST FOR

Early-stage mineral exploration, geotechnical investigation and contractors prioritizing transport, setup speed and access to smaller sites.

SELECT BY

COMPACT / ACCESSIBLE / B-N-H SIZE

C02 MID-DEPTH HYDRAULIC CORE SERIES

BTW 650–1000 m

BEST FOR

Mineral exploration and resource-definition programs requiring continuous core recovery over medium depths with a crawler-mounted surface rig.

SELECT BY

MID-DEPTH / WIRELINE / 16-24 T HOIST

C03 DEEP HYDRAULIC CORE SERIES

BTW 1200–1400 m

BEST FOR

Deep mineral exploration and resource-definition drilling where long wireline capacity and stable rod handling are central to productivity.

SELECT BY

DEEP EXPLORATION / LONG WIRELINE / 24 T HOIST

C04 HEAVY-DUTY DEEP CORE SERIES

BTW 1800–2000 m

BEST FOR

Long-hole surface mineral exploration programs requiring higher pull capacity, longer wireline systems and sustained deep-hole operation.

SELECT BY

HEAVY-DUTY / LONG-HOLE / 30-35 T HOIST

C05 ULTRA-DEEP CORE SERIES

NTW 2000–2600 m

BEST FOR

Deep mineral exploration with N-size targets of 2000-2600 m and logistics for sustained ultra-deep drilling.

SELECT BY

ULTRA-DEEP / 10-12 KN.M TORQUE / 30-35 T LIFT

C01

COMPACT HYDRAULIC CORE SERIES

BTW 260–480 m

- COMPACT
- ACCESSIBLE
- B-N-H SIZE
- SHORT CAMPAIGNS

REPRESENTATIVE MACHINE

TSHCX-400



WHERE IT FITS

Early-stage mineral exploration, geotechnical investigation and contractors prioritizing transport, setup speed and access to smaller sites.

HOW TO CHOOSE

Use this series where moderate depth and site access take priority over maximum pullback. BTW, NTW and HTW capacities must be compared separately because larger core sizes reduce nominal depth.

OPERATING BOUNDARY

Rubber and steel track options should be selected from ground protection, traction and travel requirements.

COMPACT HYDRAULIC CORE SERIES

BTW 260–480 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSHC-200	TSHCX-400	TSHCG-400
BTW	260 m	480 m	480 m
NTW	200 m	400 m	400 m
HTW	100 m	200 m	200 m
TORQUE	1.2 kN.m	1.2 kN.m	1.2 kN.m
MAX SPEED	1400 rpm	1400 rpm	1400 rpm
HOIST	14 T	16 T	16 T
WIRELINE	300 m	500 m	500 m
WINCH SPEED	110 m/min	110 m/min	110 m/min
POWER	58 kW	75 kW	75 kW
ANGLE	45-90 deg	45-90 deg	45-90 deg
MUD PUMP	BW90	BW90 / BW100	BW90 / BW100
SIZE / WEIGHT	5.4 x 1.8 x 2.3 m 5.3 T	5.4 x 1.8 x 2.3 m 5.3 T	5.4 x 1.8 x 2.3 m 5.8 T

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

C02

MID-DEPTH HYDRAULIC CORE SERIES

BTW 650-1000 m

- MID-DEPTH
- WIRELINE
- 16-24 T HOIST
- BALANCED MOBILITY

REPRESENTATIVE MACHINE

TSHC-800



WHERE IT FITS

Mineral exploration and resource-definition programs requiring continuous core recovery over medium depths with a crawler-mounted surface rig.

HOW TO CHOOSE

This series balances drilling depth, wireline capacity and machine weight. Select the model from required core size and hole angle first, then verify hoisting force, wireline length, mud-pump capacity and transport access.

OPERATING BOUNDARY

The TSHC-800 adds a substantial depth and lifting step above the 600-class machines.

MID-DEPTH SURFACE CORE SERIES

BTW 650-1000 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSHCX-600	TSHCG-600	TSHC-800
BTW	650 m	650 m	1000 m
NTW	600 m	600 m	800 m
HTW	300 m	300 m	600 m
TORQUE	1.6 kN.m	1.6 kN.m	2.0 kN.m
MAX SPEED	1400 rpm	1400 rpm	1400 rpm
HOIST	16 T	16 T	24 T
WIRELINE	800 m	800 m	1000 m
WINCH SPEED	110 m/min	110 m/min	110 m/min
POWER	92 kW	92 kW	92 kW
ANGLE	45-90 deg	45-90 deg	45-90 deg
MUD PUMP	BW90 / BW100	BW90 / BW100	BW160
SIZE / WEIGHT	5.4 x 1.8 x 2.3 m 5.7 T	5.4 x 1.8 x 2.3 m 6.2 T	5.7 x 2.1 x 2.4 m 7.5 T

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

C03

DEEP HYDRAULIC CORE SERIES

REPRESENTATIVE MACHINE

TSHC-1000

BTW 1200-1400 m

- DEEP EXPLORATION
- LONG WIRELINE
- 24 T HOIST
- HIGHER TORQUE



WHERE IT FITS

Deep mineral exploration and resource-definition drilling where long wireline capacity and stable rod handling are central to productivity.

HOW TO CHOOSE

Choose between the two models from required BTW, NTW and HTW depth rather than a single headline number. Confirm drilling angle, rod system, fluid program and recovery method.

OPERATING BOUNDARY

Depth ratings are nominal and should not be presented as guaranteed results in every ground condition.

DEEP DRAULIC CORE SERIES

BTW 1200-1400 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSHC-1000	TSHC-1200
BTW	1200 m	1400 m
NTW	1000 m	1200 m
HTW	800 m	1000 m
TORQUE	2.6 kN.m	3.0 kN.m
MAX SPEED	1400 rpm	1400 rpm
HOIST	24 T	24 T
WIRELINE	1200 m	1400 m
WINCH SPEED	110 m/min	110 m/min
POWER	118 kW	132 kW
ANGLE	45-90 deg	45-90 deg
MUD PUMP	BW160	BW160
SIZE / WEIGHT	5.7 x 2.1 x 2.4 m 7.6 T	5.7 x 2.1 x 2.4 m 7.8 T

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

C04

HEAVY-DUTY DEEP CORE SERIES

BTW 1800-2000 m

- HEAVY-DUTY
- LONG-HOLE
- 30-35 T HOIST
- 1800-2000 M WIRELINE

REPRESENTATIVE MACHINE

TSHC-1600



WHERE IT FITS

Long-hole surface mineral exploration programs requiring higher pull capacity, longer wireline systems and sustained deep-hole operation.

HOW TO CHOOSE

Offer these models after confirming rod size, target angle, expected ground conditions, mud system, rod-handling plan and site logistics.

OPERATING BOUNDARY

Higher power and lifting capacity support deeper programs, but actual achievable depth remains dependent on the complete drilling system and field conditions.

HEAVY-DUTY DEEP CORE SERIES

BTW 1800-2000 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSHC-1500	TSHC-1600
BTW	1800 m	2000 m
NTW	1500 m	1600 m
HTW	1200 m	1200 m
TORQUE	3.4 kN.m	3.8 kN.m
MAX SPEED	1400 rpm	1400 rpm
HOIST	30 T	35 T
WIRELINE	1800 m	2000 m
WINCH SPEED	110 m/min	110 m/min
POWER	154 kW	154 kW
ANGLE	45-90 deg	45-90 deg
MUD PUMP	BW160 / BW250	BW160 / BW250
SIZE / WEIGHT	7.1 x 2.1 x 2.5 m 9.3 T	7.1 x 2.1 x 2.5 m 9.3 T

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

C05

ULTRA-DEEP CORE SERIES

NTW 2000-2600 m

- ULTRA-DEEP
- 10-12 KN.M TORQUE
- 30-35 T LIFT
- 194-239 KW

REPRESENTATIVE MACHINE

TSHC-2600



WHERE IT FITS

Deep mineral exploration with N-size targets of 2000-2600 m and logistics for sustained ultra-deep drilling.

HOW TO CHOOSE

Select between the two models by BTW, NTW and HTW target depth, then confirm torque, lift, wireline rope configuration, mud circulation, rod handling and transport access as one complete system.

OPERATING BOUNDARY

Model numbers follow NTW capacity. Actual achievable depth remains dependent on rod size, hole angle, formation, drilling practice and the complete field configuration.

ULTRA-DEEP CORE SERIES

NTW 2000-2600 m

MODEL COMPARISON / KEY SELECTION DATA

PARAMETER	TSHC-2000	TSHC-2600
BTW	2600 m	3000 m
NTW	2000 m	2600 m
HTW	1600 m	2000 m
TORQUE	10.0 kN.m	12.0 kN.m
MAX SPEED	1200 rpm	1200 rpm
HOIST	30 T	35 T
WIRELINE	3000 m (6 mm) 2500 m (8 mm)	2500 m (8 mm)
WINCH SPEED	80 / 150 m/min	80 / 150 m/min
POWER	194 kW	239 kW
ANGLE	45-90 deg	45-90 deg
MUD PUMP	BW250	BW250
SIZE / WEIGHT	7.30 x 2.25 x 3.10 m 12.8 T	7.30 x 2.25 x 3.10 m 13.5 T

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

TONGSHUN
通顺 DRILLING EQUIPMENT

03

DRILL PIPE & DRILLING TOOLS

SELECT THE METHOD. VERIFY THE INTERFACE. CONFIRM THE COMPLETE DATA SHEET.

P01 **2 3/8-6 5/8 in**

API FRICTION-WELDED DRILL PIPE

P02 **3-5 in**

DTH WATER-WELL DRILL PIPE

P03 **2-4 1/2 in**

HDD DRILL PIPE

P04 **CUSTOM / DRAWING-CONTROLLED**

THREAD-CONNECTED DRILL PIPE

P05 **50-219 mm outer tube**

RC / DOUBLE-WALL DRILL PIPE

P06 **Weight and transition section**

DRILL COLLARS & HEAVY-WEIGHT DRILL PIPE

P07 **Water-well and OEM-compatible connections**

RIG-INTERFACE DRILL PIPE

P08 **57-168 mm accessory OD**

TOOL JOINTS, SUBS & ADAPTERS

START WITH THE DRILLING METHOD

One catalogue, eight product systems. Full specifications remain in separate Technical Data Sheets.

P01	**API FRICTION-WELDED DRILL PIPE** API 5DP REFERENCE / E75 / G105 / S135 / EU / IEU Representative: 3 1/2 in / NC38	2 3/8-6 5/8 in
P02	**DTH WATER-WELL DRILL PIPE** DTH HAMMER / HARD ROCK / AIR DELIVERY Representative: 4 in / 2 7/8 REG or NC31	3-5 in
P03	**HDD DRILL PIPE** TRENCHLESS / TORQUE / BENDING Representative: 2 7/8 in / G105-S135	2-4 1/2 in
P04	**THREAD-CONNECTED DRILL PIPE** THREADED CONNECTION / WATER-WELL DRILLING / PIN / BOX CONTROL Representative: Thread-connected drill pipe	CUSTOM / DRAWING-CONTROLLED
P05	**RC / DOUBLE-WALL DRILL PIPE** REVERSE CIRCULATION / DOUBLE WALL / SAMPLE RETURN Representative: WK 102/41	50-219 mm outer tube
P06	**DRILL COLLARS & HEAVY-WEIGHT DRILL PIPE** WEIGHT ON BIT / STRING STABILITY / TRANSITION SECTION Representative: API-style drill collar / HWDP	Weight and transition section
P07	**RIG-INTERFACE DRILL PIPE** INTERFACE MATCH / T4W / DRILTECH / OEM COMPATIBILITY Representative: Drawing-controlled interface	Water-well and OEM-compatible connections
P08	**TOOL JOINTS, SUBS & ADAPTERS** THREAD ADAPTATION / STRING CONNECTION / FORGED JOINT Representative: NC / IF / REG / FH	57-168 mm accessory OD

P01 2 3/8-6 5/8 in

API FRICTION-WELDED DRILL PIPE

REPRESENTATIVE PRODUCT

3 1/2 in / NC38

- API 5DP REFERENCE
- E75 / G105 / S135
- EU / IEU
- NC / FH CONNECTIONS



WHERE IT FITS

Rotary drilling programs that specify API-style drill-pipe dimensions, steel grades and tool-joint connections, including deeper water-well, mining and energy drilling systems.

HOW TO CHOOSE

Select the complete combination of pipe OD, nominal weight, wall thickness, grade, upset and connection. OD alone does not define interchangeability or working capacity.

OPERATING BOUNDARY

Compatibility must be confirmed by outside diameter, wall thickness, steel grade, upset type, tool-joint dimensions and connection—not by nominal size alone. Final selection must consider rig interface, make-up torque, internal pressure and expected tensile and torsional loads, following the approved Technical Data Sheet and connection drawing.

API FRICTION-WELDED DRILL PIPE

2 3/8-6 5/8 in

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

SIZE	OD	WT.	WALL	GRADE	UPSET	CONNECTION
2 3/8 in	60.3 mm	6.65 lb/ft	7.11 mm	E / G / X	EU	NC26
3 1/2 in	88.9 mm	13.30 lb/ft	9.35 mm	G / S / X	EU	NC38
4 1/2 in	114.3 mm	16.60 lb/ft	8.56 mm	E / G / S / X	EU	NC50
5 in	127.0 mm	19.50 lb/ft	9.19 mm	E	IEU	NC50
6 5/8 in	168.3 mm	27.70 lb/ft	9.19 mm	G / S	IEU	6 5/8 FH

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

P02 3-5 in

DTH WATER-WELL DRILL PIPE



REPRESENTATIVE PRODUCT

3 in / 2 3/8 REG

- DTH HAMMER
- HARD ROCK
- AIR DELIVERY
- REG / NC THREADS

WHERE IT FITS

Water-well, quarry, foundation and mining work where the pipe transmits rotation and feed force while supplying compressed air or drilling fluid to a down-the-hole hammer.

HOW TO CHOOSE

Match pipe diameter, thread, length and wrench arrangement to the rig, rotary head and hammer. Confirm compressor output, hole diameter and handling length as one system.

OPERATING BOUNDARY

Thread name alone is not enough for interchangeability. Verify pin/box geometry, shoulder condition and actual rig or hammer interface before production.

DTH WATER-WELL DRILL PIPE

3-5 in

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

SIZE	WALL	LENGTHS	WEIGHT	THREAD	GRADE
3 in / 76 mm	6.5 mm	1 / 1.5 / 2 / 3 m	21.1-43 kg	2 3/8 REG	R780
3 1/2 in / 89 mm	8 mm	2 / 3 / 4.5 / 6 m	47-111 kg	2 3/8 REG / NC26	R780 / G105 / S135
4 in / 102 mm	8 mm	2 / 3 / 4.5 / 6 m	55.08-129 kg	2 7/8 REG / NC31	R780 / G105 / S135
4 1/2 in / 114 mm	8.56 mm	3 / 4.5 / 6 m	88.9-156 kg	3 1/2 REG / NC31 / NC35	R780 / G105 / S135
5 in / 127 mm	9.19 mm	3 / 4.5 / 6 m	105-185.2 kg	NC38	R780 / G105 / S135

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

P03 2-4 1/2 in

HDD DRILL PIPE



REPRESENTATIVE PRODUCT

2 7/8 in / G105-S135

- TRENCHLESS
- TORQUE
- BENDING
- RIG MATCHING

WHERE IT FITS

Horizontal directional drilling for trenchless installation of utilities, pipelines and cables where the string is repeatedly exposed to torque, tension and bending.

HOW TO CHOOSE

Select by rig interface, shoulder-to-shoulder length, torque limit and minimum bend radius. Confirm tool-joint OD against the bore plan and reaming program.

OPERATING BOUNDARY

Minimum bend radius is an equipment and operating limit, not a suggested steering target. Final values must be confirmed against the exact grade and connection row.

HDD DRILL PIPE

2-4 1/2 in

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

SIZE	WALL	LENGTH	WEIGHT	GRADE	TORQUE	MIN. RADIUS
2 in	6.5 mm	2 / 2.5 m	17 / 20 kg	G105 / S135	2.9 / 3.0 kN.m	38 / 30 m
2 3/8 in	7.1 mm	2 / 3 m	23 / 32 kg	G105 / S135	6.0 / 6.3 kN.m	42 / 33 m
2 7/8 in	8 mm	3 / 4 m	43 / 57 kg	G105 / S135	12 / 13 kN.m	58 / 45 m
3 1/2 in	9.35 mm	4.5 / 6 m	99 / 128 kg	G105 / S135	22.3 / 22.3 kN.m	80 / 80 m
4 1/2 in	10 mm	6 m	162 / 162 kg	G105 / S135	50 / 64 kN.m	98 / 90 m

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

P04

THREAD-CONNECTED DRILL PIPE



REPRESENTATIVE PRODUCT

3 1/2 in / NC38

- THREADED CONNECTION
- WATER-WELL DRILLING
- PIN / BOX CONTROL
- DRAWING CONFIRMATION

WHERE IT FITS

Water-well drilling systems that use threaded drill-pipe assemblies between the rotary head and downhole drilling tools.

HOW TO CHOOSE

Confirm pipe OD, wall thickness, length, thread specification, pin/box arrangement, shoulder and tool-joint dimensions against an approved drawing or sample.

OPERATING BOUNDARY

Nominal diameter or a familiar thread name does not by itself confirm interchangeability. Final production data must follow the approved Technical Data Sheet and connection drawing.

THREAD-CONNECTED DRILL PIPE

P04

TECHNICAL SPECIFICATION / COMPLETE DATA TO BE CONFIRMED

SIZE	OD	WALL	GRADE	UPSET	CONNECTION
1 11/16”	42mm	6.5mm	R780	EU	-
1 15/16”	50mm	6.5mm	R780	EU	-
2 3/8”	60mm	6.5mm	R780	EU	-
2 7/8”	73mm	9.19mm	R780	EU	NC31
3 1/2”	89mm	10mm	R780	EU	NC38

P05 **50-219 mm outer tube**

RC / DOUBLE-WALL DRILL PIPE



REPRESENTATIVE PRODUCT

WK 102/41

- **REVERSE CIRCULATION**
- **DOUBLE WALL**
- **SAMPLE RETURN**
- **EXPLORATION**

WHERE IT FITS

Reverse-circulation exploration, grade-control and air-lift drilling where separate annular and inner-tube flow paths support continuous cuttings or sample return.

HOW TO CHOOSE

Treat the pipe as part of a complete sample string. Match outer tube, inner tube, joint OD, thread, hammer, swivel and sample-return path before selecting length.

OPERATING BOUNDARY

Do not combine products solely by nominal OD. Inner-tube seal, thread family and sample-system compatibility require drawing and field-system confirmation.

RC / DOUBLE-WALL DRILL PIPE

50–219 mm outer tube

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

TYPE	OUTER OD	INNER ID	JOINT OD	THREAD	LENGTH
WK 76/32	76 mm	32 mm	78 mm	3 in Remet	3 m
WK 102/41	102 mm	41 mm	103 mm	4 in Remet	3 / 6 m
WK 114/50	114.3 mm	50 mm	114.3 mm	4 1/2 in Remet	3 / 6 m
WB 127/76	127 mm	76 mm	162 / 168 mm	41 / 21F	6 / 9.5 m
WB 140/88	139.7 mm	88 mm	184 mm	5 1/2 FH	6 / 9.5 m

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

P06 **Weight and transition section**

DRILL COLLARS &HEAVY-WEIGHT DRILL PIPE

REPRESENTATIVE PRODUCT

API-standrad drill collar / HWDP

- **WEIGHT ON BIT**
- **STRING STABILITY**
- **TRANSITION SECTION**
- **API 7-1 REFERENCE**



WHERE IT FITS

Rotary drill strings requiring concentrated weight near the bit and a controlled transition between rigid collars and standard drill pipe.

HOW TO CHOOSE

Specify connection, OD, ID, length, material and string position together. Review stiffness transition and handling limits for the complete bottom-hole assembly.

OPERATING BOUNDARY

Final drill-string design, bending-stress checks and connection make-up requirements belong in project engineering, not in the sales catalogue.

DRILL COLLARS & HEAVY-WEIGHT DRILL PIPE

Weight and transition section

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

PRODUCT	SIZE RANGE	REFERENCE	MATERIAL	CONNECTION	ROLE
Drill collar	OD 79.4-279.4 mm	API Spec 7-1	4145H	NC / REG	Weight near bit
Integral HWDP	2 7/8-6 5/8 in	API 7-1 / GOST / NS-1	AISI 4145HM	NC / FH	Stiffness transition
Welded HWDP	2 7/8-6 5/8 in	API 7-1 / GOST / NS-1	4135HM joint / 4130 body	NC / FH	Heavy transition pipe

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

P07 **Water-well and OEM-compatible connections**

DRILL PIPE FOR SPECIFIC RIG MODELS

REPRESENTATIVE PRODUCT

T4W/Driltech drill pipe

- **INTERFACE MATCH**
- **T4W / DRILTECH**
- **OEM COMPATIBILITY**
- **DRAWING CONTROL**



WHERE IT FITS

Fleet maintenance and replacement programs where drill pipe must fit an existing rig, rotary head, wrench arrangement or proprietary connection family.

HOW TO CHOOSE

Use the rig model only as the starting point. Confirm shoulder-to-shoulder length, pipe OD, wall, joint OD, thread drawing and steel grade from a measured sample or approved drawing.

OPERATING BOUNDARY

Compatibility statements describe source-catalogue coverage and do not replace dimensional inspection of the customer's actual rig and worn field components.

DRILL PIPE FOR SPECIFIC RIG MODELS

OEM / RIG-SPECIFIC

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

FAMILY	MODEL / RANGE	APPLICATION	KEY CHECK
T4W	RIG-SPECIFIC	SHALLOW-MEDIUM WATER WELLS	APPROVED CONNECTION DRAWING
DRILTECH	RIG-SPECIFIC	MINING / CIVIL DRILLING	APPROVED CONNECTION DRAWING
CASE-COMPATIBLE	6010 / 6030	HDD	LENGTH / OD / JOINT OD / WALL
VERMEER / DITCH WITCH	D10x15-D130x120 / JT1720-JT7020	HDD	LENGTH / OD / JOINT OD / WALL

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

P08 **57-168 mm accessory OD**

TOOL JOINTS, SUBS & ADAPTERS



REPRESENTATIVE PRODUCT

NC / IF / REG / FH

- **THREAD ADAPTATION**
- **STRING CONNECTION**
- **FORGED JOINT**
- **CUSTOM DRAWING**

WHERE IT FITS

Connecting drill pipe, drill collars, bits and rig interfaces across water-well, geological, mining, oil and gas drilling assemblies.

HOW TO CHOOSE

Define both connection ends, shoulder form, OD, bore, overall length and material. Use a controlled drawing for every custom cross-over or replacement component.

OPERATING BOUNDARY

A thread label such as NC, IF, REG or FH does not fully define a manufacturable part. Gauging, shoulder and dimensional requirements still need confirmation.

TOOL JOINTS, SUBS & ADAPTERS

57–168 mm accessory OD

REPRESENTATIVE COMPARISON / COMPLETE DATA AVAILABLE SEPARATELY

PRODUCT	SIZE / OD	MATERIAL	LENGTH	CONNECTION	CONTROL
Tool joint	For 2-7 5/8 in pipe	Per source specification	Per pipe design	Per drill pipe	Fine-die forged blank
Male sub	57-168 mm	35CrMo / 40Cr / 4137H	N 235 / M 195 mm	NC / IF / REG / FH	Approved drawing
Female sub	57-168 mm	35CrMo / 40Cr / 4137H	N 235 / M 195 mm	NC / IF / REG / FH	Approved drawing
Thread adapter	57-168 mm	35CrMo / 40Cr / 4137H	N 235 / M 195 mm	NC / IF / REG / FH	Approved drawing

DETAILED TECHNICAL DATA AVAILABLE SEPARATELY

INSPECTION BEFORE DELIVERY

Final inspection combines dimensional verification, mechanical-property testing and applicable non-destructive examination before release.



01 / DIMENSIONAL CHECK

OD, connection geometry and relevant dimensions are checked against the approved drawing with calibrated instruments.

02 / IMPACT TOUGHNESS

Charpy impact testing verifies absorbed energy on representative samples at the specified test temperature.

03 / TENSILE & HARDNESS

Tensile properties and hardness are verified on representative samples from the applicable production batch.

04 / MPI & FINAL RELEASE

Applicable ferromagnetic parts are examined for surface and near-surface discontinuities before final release.

THE CATALOGUE HELPS YOU SELECT

The Technical Data Sheet confirms the complete row-by-row specification for the selected product.

P01 **API FRICTION-WELDED DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P02 **DTH WATER-WELL DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P03 **HDD DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P04 **THREAD-CONNECTED DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P05 **RC / DOUBLE-WALL DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P06 **DRILL COLLARS & HEAVY-WEIGHT DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P07 **RIG-INTERFACE DRILL PIPE** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.

P08 **TOOL JOINTS, SUBS & ADAPTERS** — TDS + THREAD DRAWING
Complete product data remains controlled by the applicable Technical Data Sheet.



TONGSHUN
通顺 DRILLING EQUIPMENT

DRILLING EQUIPMENT & DRILL PIPE SOLUTIONS

WATER WELL · CORE DRILLING · DRILL PIPE SYSTEMS

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SCAN TO CONNECT

WHATSAPP

WECHAT