



Finished drill pipe is purchased as a complete technical configuration

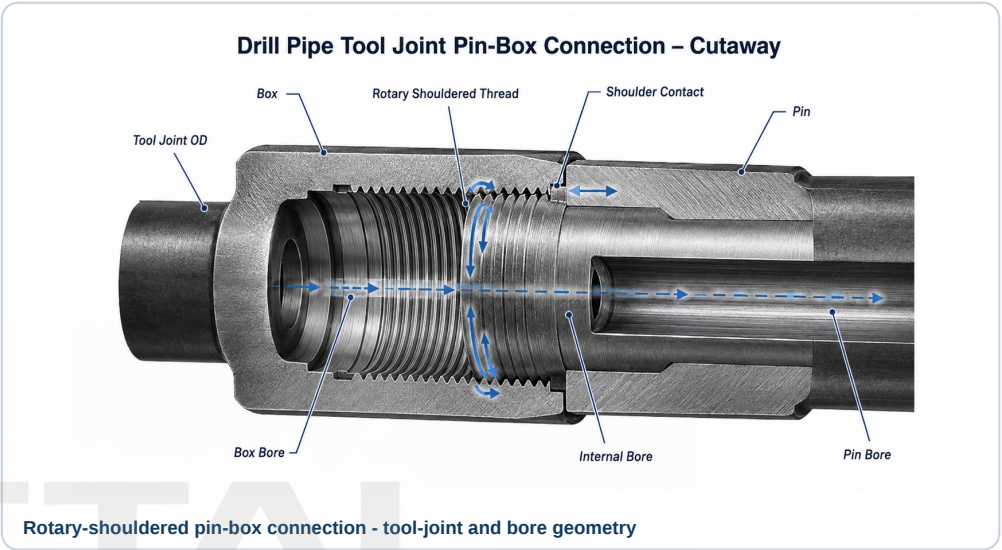
FINISHED DRILL PIPE TECHNICAL DEFINITION

Before a quotation can be compared commercially, the finished joint has to be defined well enough for the supplier, buyer and inspector to be working from the same product description.

Specification field	What must be fixed before PO release
Pipe body	Nominal OD + nominal weight or wall + grade + required length range
Pipe end / upset	IU / EU / IEU or the approved project-specific configuration
Tool joint	Finished OD + ID + pin / box configuration + required external features
Connection	Exact rotary-shouldered designation or approved proprietary connection
Service options	Hardbanding + internal coating + service condition as applicable
Inspection / release	Applicable product level + ITP + third-party points + traceability

MINIMUM ORDER-DEFINITION FIELDS

PIPE OD Required nominal size Do not infer tool-joint size from body OD	BODY CONFIGURATION Weight or wall Close the body definition before quoting	GRADE API / project grade Grade must match material and test records	PRODUCT LEVEL PSL / supplements Use the applicable contract basis
UPSET IU / EU / IEU Pipe-end geometry affects the finished assembly	CONNECTION Exact designation Confirm the actual mating interface	TOOL JOINT OD / ID / geometry Body size alone does not define this	LENGTH Range / project length State the purchasing basis clearly
SURFACE OPTIONS Hardbanding / coating Include only when specified	SERVICE CONDITION Normal / sour / special Tie special service to qualification	TRACEABILITY Heat / lot / marking Records must follow the physical pipe	QUANTITY Joints / footage Use one consistent commercial basis



CONFIGURATION RELATIONSHIPS TO CLOSE BEFORE APPROVAL

Field	Must be checked together with	Procurement reason
Pipe-body OD	Nominal weight / wall + grade	Same OD can be supplied with different body section and performance
Upset	Pipe body + tool-joint manufacturing route	The upset is part of the pipe-end geometry before the tool joint is welded
Tool-joint OD / ID	Connection + handling clearance + internal bore	The finished joint may differ even when the body description is unchanged
Connection designation	Pin / box geometry + mating equipment + approved connection data	Connection name alone is not a substitute for the complete finished configuration
Length	Rig / handling requirement + contract range	Avoid receiving pipe that is technically correct but operationally unsuitable
Hardbanding / coating	Service condition + operator requirement	Optional treatments should be quoted on the same technical basis

PRE-PO COMPATIBILITY RULE

1

Define body

2

Define upset

3

Define tool joint

4

Define connection

5

Check rig / string interface



Rig-side compatibility gives the purchase specification a real operating

QUALIFICATION QUESTIONS TO CLOSE BEFORE COMMERCIAL APPROVAL

Qualification question	Evidence to review	Preferred status
Who manufactured the pipe body?	Named approved source + product / material records	Confirmed
Who manufactured the tool joint?	Named source + tool-joint material / dimensional records	Confirmed
Who completed the finished assembly?	Assembly source + release responsibility	Confirmed
What API / project scope applies?	Applicable specification revision + licensed / approved scope	Confirmed
How is traceability maintained?	Heat / lot identity + physical marking + packing linkage	Confirmed
What inspection plan governs?	Approved ITP / PO requirements + witness / hold points	Confirmed
Can the supplier support deviations?	Formal technical clarification / concession route	Defined before PO

BUYER REQUIREMENT -> SUPPLIER EVIDENCE -> ACCEPTANCE STATUS

Buyer requirement	Supplier evidence	Acceptance status
Grade designation	Heat-linked MTC / material certificate	CONFIRMED / REVIEW
Exact connection	Approved drawing + dimensional / gauge evidence	CONFIRMED / REVIEW
Tool-joint OD / ID	Final dimensional report	CONFIRMED / REVIEW
Upset / finished-joint configuration	Approved manufacturing / product definition	CONFIRMED / REVIEW
Inspection scope	ITP + applicable release records	CONFIRMED / REVIEW
Third-party inspection	Witness / hold-point release where required	CONFIRMED / REVIEW
Traceability	Marking + heat / lot + packing-list linkage	CONFIRMED / REVIEW
Compatibility	Existing string / crossover / BHA interface review	CONFIRMED / REVIEW

Status guide: CONFIRMED = evidence complete | REVIEW = clarification required | HOLD = do not release PO until resolved

NORMALIZE THE QUOTATION BEFORE COMPARING UNIT PRICE

Quotation variable	Why it must be normalized	Check before price comparison
Pipe body size / wall / weight	Changes the supplied body configuration	Same defined body basis
Grade / product level	Changes material and test requirements	Same grade + same product level
Upset	Changes pipe-end geometry	Same upset / approved alternative
Tool-joint OD / ID	Changes finished-joint geometry and bore	Same dimensions or technically approved equivalent
Connection	Defines the mating drill-string interface	Exact approved designation
Length	Changes delivered footage and handling basis	Same range / same commercial basis
Hardbanding	Adds material, application and inspection scope	Included / excluded consistently
Internal coating	Adds process and service requirements	Included / excluded consistently
Service condition	May add qualification and documentation requirements	Same normal / sour / special basis
Inspection / TPI	Changes witness, release and documentation scope	Same ITP / witness requirement
Packing / thread protection	Changes export handling and receiving condition	Same packing standard

BID NORMALIZATION WORKSHEET

Technical field	Supplier A	Supplier B	Document / commercial field	Supplier A	Supplier B
Pipe body definition	Confirmed / clarify	Confirmed / clarify	Inspection scope	Confirmed / clarify	Confirmed / clarify
Upset	Confirmed / clarify	Confirmed / clarify	Third-party witness	Included / excluded	Included / excluded
Tool-joint OD / ID	Confirmed / clarify	Confirmed / clarify	Traceability package	Defined / clarify	Defined / clarify
Connection	Confirmed / clarify	Confirmed / clarify	Packing basis	Defined / clarify	Defined / clarify

COMMERCIAL RULE A lower unit price is not a like-for-like saving when connection configuration, inspection scope, traceability, hardbanding, coating or packing requirements are different.

Pre-PO Technical Review Checklist

Lock the specification, evidence and responsibility chain before manufacturing or shipment approval



Final PO should describe the physical joint that will be delivered

FIVE TECHNICAL APPROVAL GATES

GATE 1

Product definition

Body + grade + upset + tool joint + connection

GATE 2

Compatibility

Existing drill string / subs / BHA / rig interface

GATE 3

Supplier evidence

Manufacturing source + scope + traceability

GATE 4

Inspection basis

ITP + witness / hold points + required records

GATE 5

Commercial release

Normalized scope + quantity + packing + delivery basis

PRE-PO CHECKLIST - MINIMUM TECHNICAL DEFINITION

Purchase input	What to define	Status
Pipe body size	Required nominal OD	CONFIRMED / REVIEW
Body configuration	Nominal weight or wall thickness	CONFIRMED / REVIEW
Grade	Required API or project-specific grade	CONFIRMED / REVIEW
Product / inspection level	Applicable PSL + supplementary requirements	CONFIRMED / REVIEW
Upset	IU / EU / IEU or specified configuration	CONFIRMED / REVIEW
Connection	Exact rotary-shouldered designation	CONFIRMED / REVIEW
Tool joint	Required OD / ID + approved configuration	CONFIRMED / REVIEW

Purchase input	What to define	Status
Length	API range or project-specific joint length	CONFIRMED / REVIEW
Service condition	Normal / sour / other specified environment	CONFIRMED / REVIEW
Surface condition	Hardbanding / coating / treatment	CONFIRMED / REVIEW
Inspection / TPI	API + ITP + witness / hold points	CONFIRMED / REVIEW
Traceability	Marking linked to material + shipment records	CONFIRMED / REVIEW
Compatibility	Existing string / crossover / BHA / rig interface	CONFIRMED / REVIEW
Quantity	Joints / footage / agreed purchasing basis	CONFIRMED / REVIEW

PO RELEASE CHAIN

