

JMW INDIA PVT LTD

Works : JMW INDIA PVT. LTD. Unit-II, E-530-531, RIICO Ind. Area, Chopanki, Bhiwadi Dist. Alwar,
(Rajasthan)-301019, GST No. 08AAACJ3260C1Z1
Ph. No. 8058007072 (Akhilesh Tiwari)

Purchase Order

To,
DIVINE MACHINES PVT. LTD.
SURVEY NO. 246 / P2, B/H GRAM SWARAJ MANDAL,
NEAR BHUMI INDUSTRIAL AREA,
VILLAGE : VERAVAL (SHAPAR) RAJKOT - 360 024

Dated: 25.08.2022

Dear Sir,

With reference to your offer no. DMPL/189 Dated 06.08.2022 we are pleased to place our purchase order as following:

Sr. No.	Description	QTY.	Rate	Amount
1	SLITTING LINE TO PROCESS COPPER AND COPPER ALLOYS COILS	1	67,00,000	67,00,000
	GST 18%			12,06,000
	Total Ex Supplier Works			79,06,000

Billing Detail: - JMW INDIA PVT. LTD.
E-530-531, RIICO INDUSTRIAL AREA,
CHOPANKI, BHIWADI, DIST. ALWAR,
RAJASTHAN-301019
GST No.: 08AAACJ3260C1Z1

For JMW India Pvt. Ltd.

Authorized Signatory


SLITTING LINE GENERAL SPECIFICATION

GENERAL DATA

Productivity	Slitted Coils
ManPowerRequiredTo	OneOperatorWithOneAssistant140H.
talPowerRequired	P.
SetUpTime	ManuallyCutterChangeOverTime2To3Hrs.CKD:Slitte
ProductionCapacity	rHeadChangeOverTime20Min.
WorkingHoursPerDay	201400Kg./Shift(8Hrs.)
LineDirection	8To12
OverallFloorSpaceRequired	ToBeDecidedLater
OverallPackingDimension	14Mtr.(L)X3Mtr.(W)X2Mtr.(H)
Approx.GrossWeight	2Truck/Container(20FeetSize)
VariableLineSpeedM	12615Kg.
odel No.	10TO50MPM
ModelType	SLT/500PLC/ SLT

MATERIAL SPECIFICATIONS

TypeOfMaterialToBeProcessed.	COPPER&COPPERALLOYS
U.T.S.	40-42Kg./MM ²
%ElongationSh	19To25
earStrength	40-45Kg./MM ²
MaximumWidth	450MM
MinimumWidth	200MM
MaximumThickness	5MM
MinimumThickness	0.5MM(*)

ENTRY COILS SPECIFICATIONS

Coil weight(max)	4000Kg.
Max.O.D.OfCoilAtEntry	1500MM
Min.O.D.OfCoilAtEntry	800MM

EXIT COILS SPECIFICATIONS

ID	OD	WEIGHT
500	1500	4000KG.
400	1200	2500KG
300	800	2000KG
200	600	1500KG.
150	500-550	800KG.

RECOILER OUTPUT SHAFT SHALL HAVE PROVISION FOR FLANGE TYPE AND MANDREL TYPE BOTH DRUM MOUNTING PROVISION & THE RECOILER SHAFT SHOULD BE INTERCHANGEABLE WITH FOIL SLITTER

AUTOMATION

AutomationLevelInPerformance	PLCAutomation
AutomationLevelInSetup	Hydraulic
MaterialLoading	Hydraulic
FinishedProductUnloads	Hydraulic

TOLERANCE

SlitWidth	:±0.40MM
BurrLevelAfterDeburringOperation	Max0.5MM
Bow/Twist/CamberInShits	:0.5MM/Mtr.
LineSpeed	:±15%OfSpecified

SITEPREPARATION & AMENITYTOBE ARRANGED BY CUSTOMER.

ELECTRICAL

TotalConnectedLoadReq.140H.P.(106K.W.)At440V3Phase,4Wire.
SinglePhaseStabilizedRegulatedPowerSupplyThroughC.V.T.OrU.P.S.forCNC&
PLCSystemToBeArrangedByCustomer

AIR

10 CFM Filtered, Dried, Lubricated & Regulated Air Required At Constant
125P.S.I.Pressure. Air Compressor Or Air Preparation Unit Are Not In
DMPL'sScopeOfSupply.

FIRSTFILL

HydraulicOil,LubricatingOil,Grease

FLOORSPACE

CleanCoveredAreaOf14Mtr.(L)X3Mtr.(W)WithNecessaryFlooring&Pit, Trench,
Pockets, Fancing Etc. To Be Provided By Customer.
FoundationMaterials&CivilWork,AllMaterialsLike,FoundationBolts,PneumaticsC
onnection,Pipe,SFU,AirCompressorWithFRLUnit.



NOTES:-



THE UP COILER PROPOSED IS FIXED TYPE ,SUITABLE ROLLER TYPE WIDTH GUIDE TO BE PROVIDED

TOOLINGS i.e .CUTTERS/SPACERS/O.A.S.D./NYLON SHIMS&NYLON SPACERS&RUBBERISED P.U.RINGS)ETC.ARE NOT INSUPPLIER'S SCOPE AND ARE TO BE ARRANGED BY CUSTOMER.

ALL THE RECOILER DRUMS SHALL BE IN CUSTOMER'S SCOPE (DMPL WILL GIVE ONLY MOUNTING ARRANGEMENT DRAWING)

ABOVE LINE WILL WORK FROM 3.5 MM TO 5 MM IN PULL THROUGH MODE & FROM 3.5 TO .5 MM IN LOOP PIT MODE

THE DISENGAGEMENT OF SLITER HEAD IN PULL THROUGH MODE WILL BE DONE ELECTRICALLY THROUGH PLC AND SELECTION MODE AT CONTROL DESK TO BE PROVIDED

ADAPTER WILL BE PROVIDED ON TURNSTILE TO ACCOMMODATE MIN.DIA DRUM OF 150 MM

DIVINE WILL PROVIDE MANUFACTURING DRAWING OF THE RECOILER SHAFT

Inclusions:

Offered Line Includes Following Standard Accessories Free of Cost with the Equipment Supplied:
One Set Of Setting Screw,Spanner,Hand Wheels Etc.Required to Set & Operate Equipments.
One Set Of Installation,Operation& Maintenance Manuals With Figs.& Tables.

Exclusions:

Offered Line Does Not Include Any Of Below Mentioned Items Or Equipments,In Case Required,divine will offer at extra Cost.
Set Of Shims,Spacers,Dies,Tools Etc.Used For Line Production.
Set Of Installation Materials,Line Foundation Bolts,Wiring Cables,Hydraulic/Pneumatic Pipes,Spanners,Hammers Etc.
Set Of Recommended Maintenance Spare Parts(Electrical&Mechanical)Wear Parts Used In Line Equipments.
Trial Coil Material At DMPL Factory If Required.Trials Prior To Dispatch.
Services Of Installation & Commissioning At Customer Site.
Any Tool Item Accessories Or Equipment Req'd.To Complete Process But Not Mentioned Above Shall Be Considered At Extra Cost.
For Further Details Ref.Commercial Terms&Conditions.

Terms & Conditions

- 1) Advance:** 20% Advance with order, 20% after one month progress and 55% payment with 100% taxes against Inspection & Approval of equipment at supplier factory against Proforma invoice prior to loading & dispatch. Balance 5% retention amount to be paid after Successful commissioning at customer site
- 2) G.S.T.** GST@18% Will Be Extra. Any Other Tax/Levy As May Be Applicable At The Time Of Delivery Extra.
- 3) Packing, Forwarding & Loading** NIL
- 4) Delivery** Within 5 Month from the date of Order with advance payment
- 5) Freight and Insurance** As per actual on our account
- 6) Guarantee** 12 Months from the date of Commissioning or from the date of dispatch whichever is earlier.
- 7) Trial** Trial Of the Machine Will Be Held at Customer Site Only. Trial Material Will Be Supplied by Customer.
- 8) Training** Supplier Shall Provide Free Training To Customer Person At Customer Factory.
- 9) Supervision To Installation & Commissioning**
- MECHANICAL ERECTION SHALL BE DONE BY CUSTOMER. FORELECTRICAL COMMISSIONING, DMPL SHALL DEPUTE THE ENGINEER FOR ONLY 2 DAYS AS FREE OF CHARGES. IF ADDITIONAL DAYS STAY REQUIRED BY CUSTOMER, THEN RS. 8000 PER DAY SHALL BE CHARGED.**
- A) Preparing Site Layout Drawing & Equipment Foundation Marking At Site.**
- B) Site Inspection By Our Engineer During Civil Work, Civil Work To Be Complete By Your Team. (Total 2 Visit During Execution)**
- C) Cold Start & Dry Run Of All Equipments. Fine Tuning Of All Equipments At Customer Site. (To Be Done Jointly By Your Team & Our Team)**
- D) Production Up To 3 Coils Of Various Sizes. (To Be Done Jointly By Your Team & Our Team)**
- Following Are Not In Divine Machine's Scope Of Supply For Erection & Commissioning & Are To Be Arranged By Customer At Their Cost.**
- B) Fixing & Aligning Of Equipments At Customer Site.**
- C) Hydraulic Piping & Air Piping As Per Layout Drawing By DMPL.**
- D) Electric Wiring From Main Panel To Motor. (All Trench Wiring As Per DMPL Drawing)**
- E) All Sort Of Civil Work / Electric Wiring Supply Up To Main Panel.**
- F) 1st Fill Up Of All Gearbox / Hydraulic / Power Pack**
- Etc. i.e. Oil, Grease & Other Consumable.**

G)AllSortsOfPocketFilling,CivilWork,FoundationAtSiteForRailing,Guards Etc.

H)WeldingSubAssembly&LaborWorkOfHandling/Materialetc.

I)Customer ShallArrange 3Mechanical Fitters,1Welder, 3Helper&1 Electrician ForTheirTeam.

J)AllSortOfLocalAmenitiesAir,Water&ConsumableAreInCustomerScope.

K)To&FroAirtravelFromRajkotToCustomerSite,HotelAccommodation, Lodging & Boarding, Daily Local Transfer From Hotel To Site Are To Be ArrangedByCustomer.

L)AllSortOfTrialMaterialAtSupplierFactoryAsWellAsCustomerSiteAreTo BeArrangedByCustomer.

AnyOtherAdditionalServicesRequiredDeemedNotSpecifiedAbove ButDesired By Customer Shall Be At Extra Cost & Divine Machine Shall ReserveRightsToAgreeOrDeniesToSuchWorkOrAssignment.

10)Tolerances

Tolerance&DrawingMatterAcceptableByUsOnlyAfterTechnicalDiscussionWithYou.

11)ForceMajeure

StandardForceMajorClauseWillBeApplicable.

12)Validity

15Days.

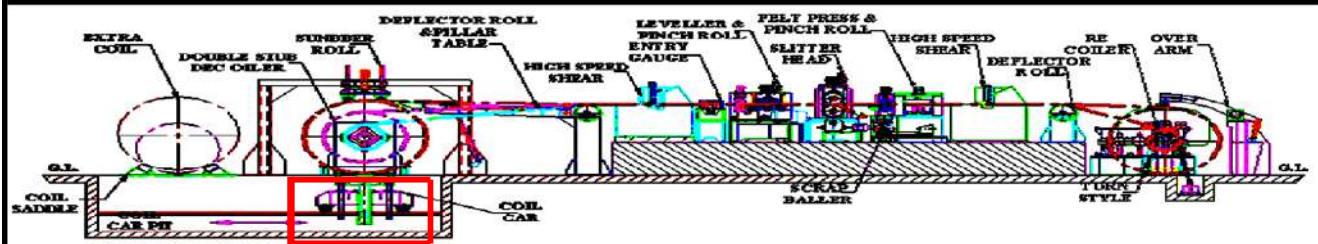
Coil Car



Qtn.: OnePc/s.

Application:

Coil Car Used For Loading Master Coil From Coil Storage Area Or Coil Saddles And Transport It To Decoiler Area. It Has Also Up Down Movement For Cantering Coil To Decoiler Arm.



Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max.WidthOfCoil	450MM
2	Min.WidthOfCoil	200MM
3	Jack Up&DownMovement	650MM
4	ToAndFroMovement(ForOneCoil)	2000MM
5	Max.WeightOf TheCoilCanBeLoaded	4000Kg.

Construction:

- * M.S.FabricatedBody.
- * ToAndFroMovementOnFourWheel&RailTrack.
- * PillarTypeConstructionForUpDownMovement.
- * BothUpDownAndToAndFroMovementThroughHydraulic.
- * ForNarrowWidthCoilsSideGuidanceAvailableAsOption.
- * StandardCoilSaddleUpToOneCoilAvailable.

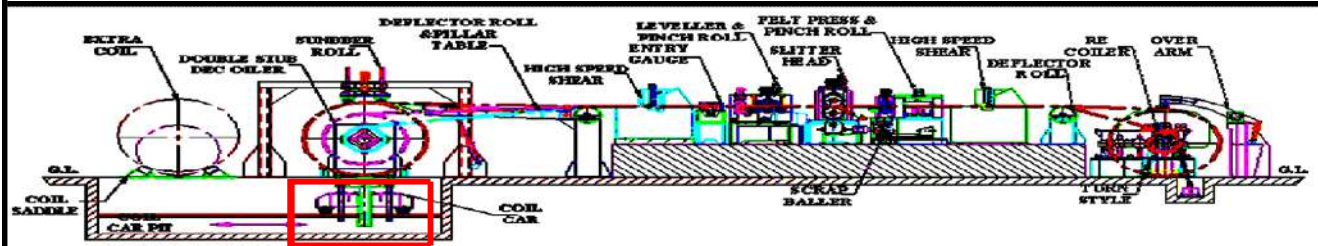
Decoiler



Qtn.: OnePc/s.

Application:

Decoilers Provided To Load Raw Material Coil On Its Arms & Hold the Coil And Also Generates Back Tension While Rotating.



Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max Width Of Coil Can Be Loaded.	450MM
2	Min. Width	200MM
3	Drum Face Length	475MM
4	Drum Nominal Dia.	510MM
5	Drum Expansion Range	425 to 525MM
6	Max. Weight Of Coil Can Be Loaded	4000Kg.
7	Drive H.P.	N.A.

Construction:

- * All Steel Body Construction.
- * Drum Rotation on Spherical Roller Bearings.

Drum:

Drum Expansion By: Hydraulic
Web Alignment : Hydraulic
Breaking: Drag Brake
Drive Type: Non-Driven

Options Available At Extra Cost:

Snubber/Peeler Assy.



Qtn.: OnePc/s.

Application:

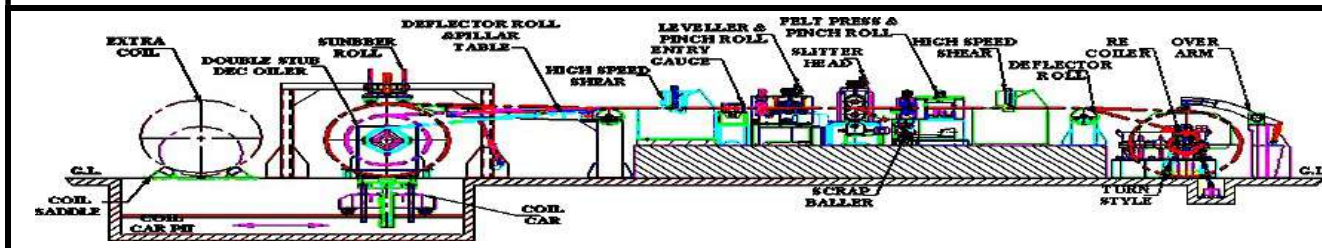
ToThreadInitialCoilEndUpToLevelerPinchRoll.

Construction:

- * SteelFabricatedBody.
- * SnubberRollPneumaticallyLifted.
- * PeelerTablePneumaticallyOperatedWithHinging&CollapsingDevice.
- * ForSensitiveMaterialsSnubberRollIsRubberized.
- * InitialThreadingDriveToSnubberRollIsOptional.

TechnicalSpecification:

S/No.	StandardSpecification	General
1	SnubberRollUp/DownRange	1500MM
2	PeelerTableUp/DownRange	500MM
3	PeelerTableExpansion/Collapse	ToSuitCoilWeight&Thickness
4	LoadCarryingCapacity	300MM



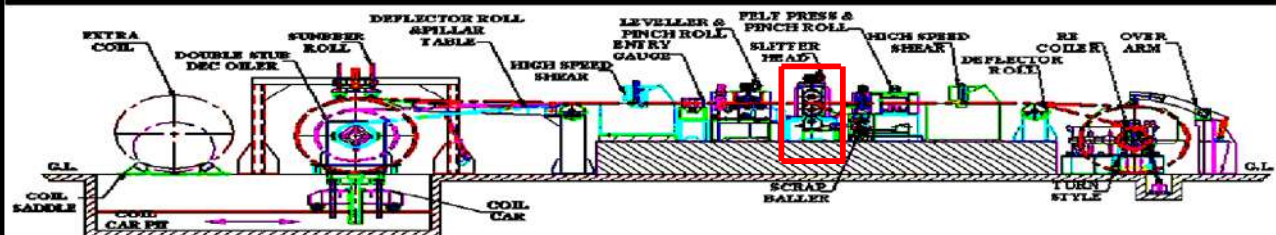
SlitterHead



Qtn.: OnePc/s.

Application:

Slitter Head Is Consisting Pair Of Driven Slitter Shaft On Which ByCombination Cutter And Spacer; Coil Can Be Slitted to RequiredWidth&No.OfSlits (Cuts).



Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max Width Of Coil	450MM
2	Max. Thickness Of Coil	5MM
3	Min. Thickness Of Coil	0.50MM
4	Max. No Of Cuts At A Time In Ref. Thk. Of 5MM	SEEBELLOW TABLE
5	Min. Scrap Width At Both End	Min. 4MM Or 2.5xT (Whichever Is Higher)
6	Min. Slit Width	20MM (For Specific Lower Suit Width Plz. Consult Us For Prize.)
7	Drive H.P.	40H.P.
8	Roll Shaft Dia.	180MM

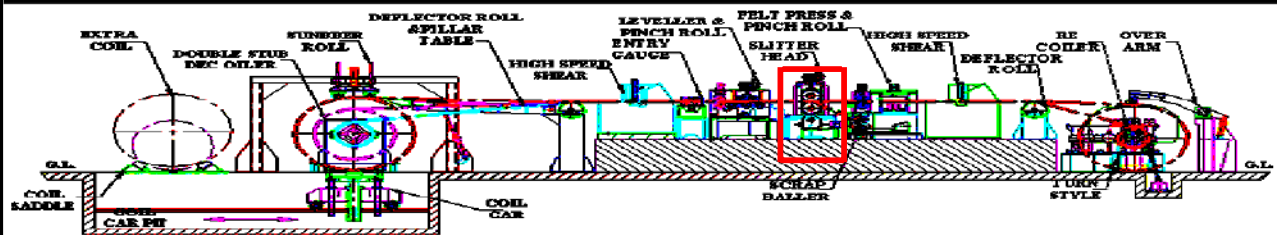
NO. OF CUTS	
THICKNESS	NO. OF CUTS
5mm	6 Cuts
3mm	10-11 Cuts
1.5mm	15 Cuts
Bellow 1mm	18 Cuts

No.
Of Cuts

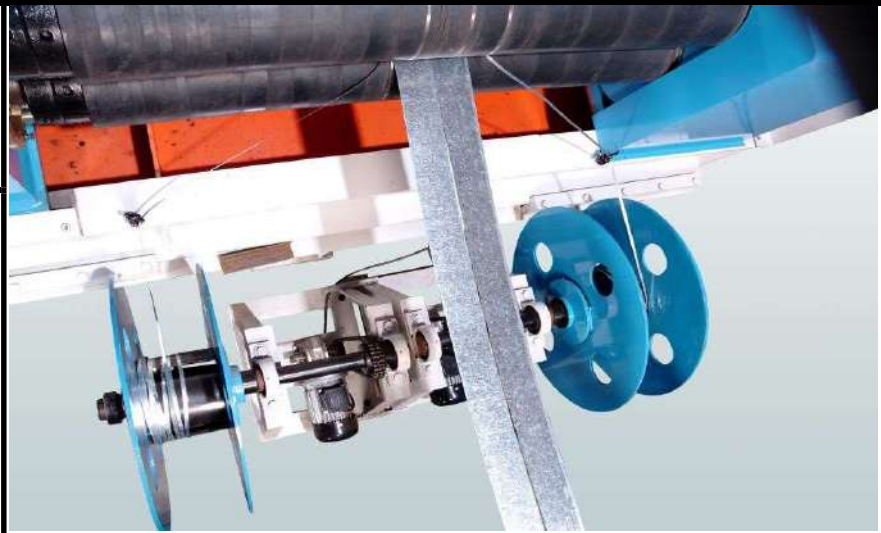
Above Tables For General Guidance Only. Min. & Max. Thickness Capacity Of Slitter Head Have Other Operational Limitations Also. Plz Consult Us For Specific Requirement.

Construction:

- * Fabricated Stress Relieved, Machined Bed.
- * Cutter Shafts Made Of EN-31 Alloy Steel Hardened & Ground to Close Tolerance.
- * Adjustment Of Cutter Spacing Through Spacer Management
- * Change Over Of Cutter Spacers By Manually Opening Housing And Manual Loading.
- * Both Top And Bottom Cutters Set Driven Through Separate Joint For Maximum Flexibility In Settings.
- * Cutter Shaft Rotates On Two Taper Roller Bearings & One Spherical Roller Bearing.
- * The Vertical Movement Of Cutter Shaft Is In Choke Design Through Manual Screw Down.
- * **Wooden Fingers provisions shall be provided before Slitter Head.**



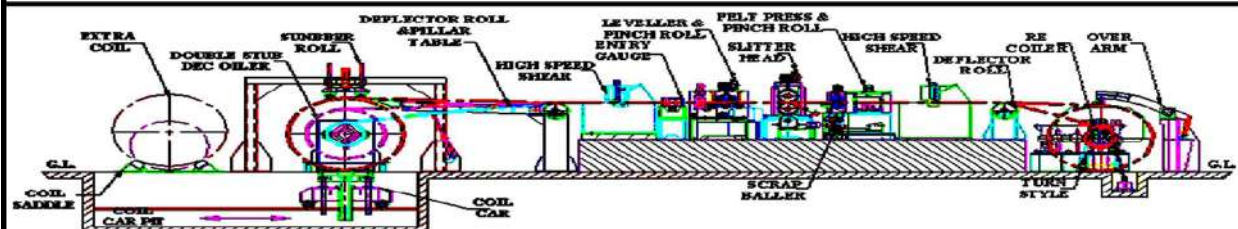
ScrapWinder



Qtn.: OnePc/s.

Application:

ScrapWinderHasTwoRotatingArmsOnWhichScrapSlitsGeneratedD
uringProcessCanBeRewounded.



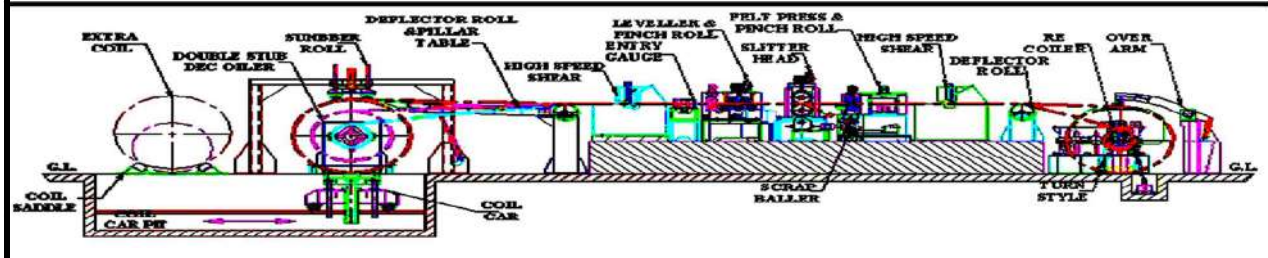
Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max Width Of Scrap Winder	25MM
2	Max. Thickness Of Scrap Winder	5MM
3	Max. Weight Of Scrap Winder	25Kg.

Construction:

- * Fabricated, Housing With Bearing Mounted Spools.
- * Drive To Scrap Winder Through Torque Clutch Driven By Slitter Head.
- * Slit Can Be Engaged To Inner Grip Of Spool.
- * Spools Are Easily Detachable For Fast Ejection.
- * Fabricated Space Saving Design.
- * Scraps Wound On Taper Mandrel & Ejected Manually.

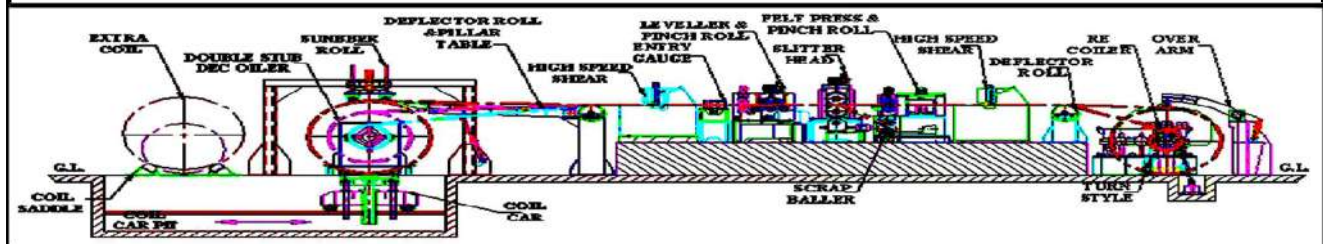


FeltPress



Qtn.: OnePc/s.

Application:



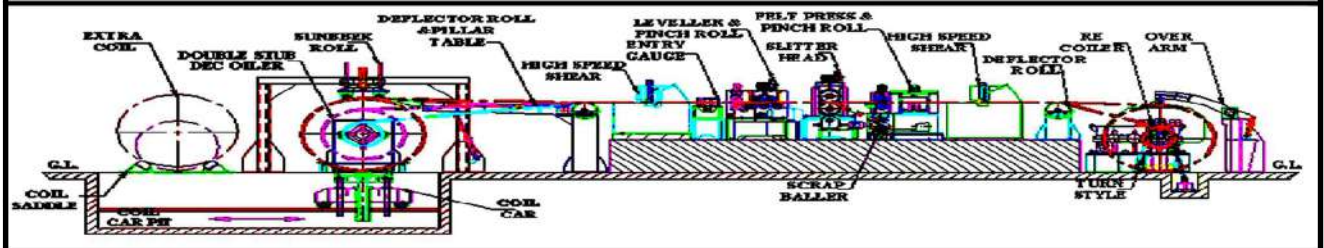
Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max. Width Of Coil	450MM
2	Max. Thickness Of Coil	5MM
3	Min. Thickness Of Coil	0.50MM
4	Max. Tension Generated	0.5Kg./MM ²

Construction:

- * Fabricated Heavy Structure.
- * Tensioners Rolls Specially Coated For High Strength & Efficiency.
- * Specially Serrated Surface For Max Gripping.
- * Deflector Roll Provided At Exit Side.
- * Separator Roll With Separating Discs Provided At Entry Side.



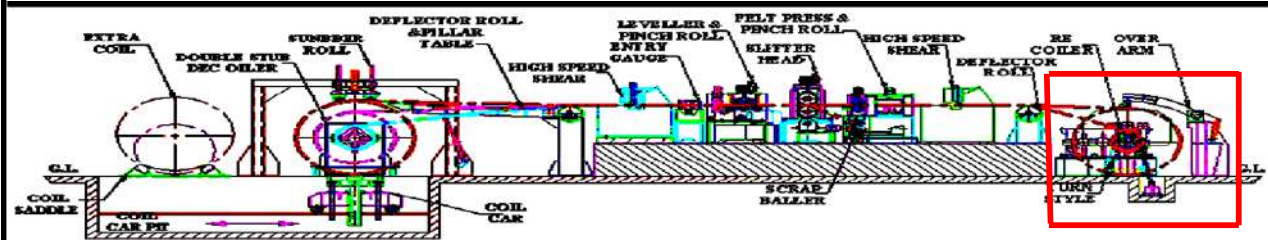
Recoiler



Qtn.: OnePc/s.

Application:

RecoilerAcceptsStripMaterial&RewindOnItsMandrel.



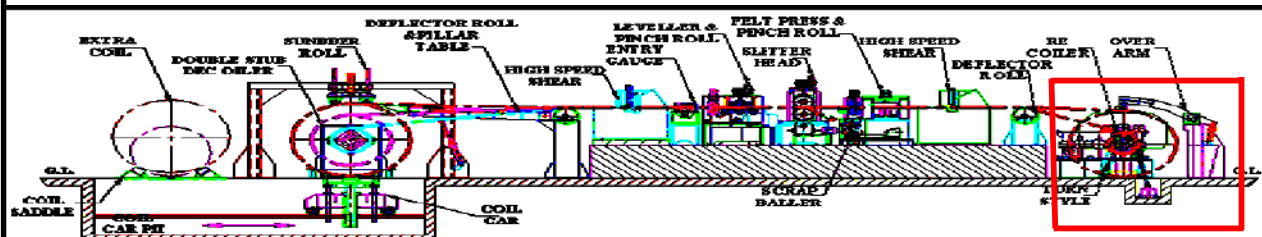
Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Mandrel Face Width Of Coil	475MM
2	Mandrel Diameter	508MM
3	Mandrel Expansion Range	495 To 508MM
4	Max. Weight Of Coil Can Be Loaded	(SEE CHART ON PAGE NO. 3)
5	Max. Width Of Coil Can Be Loaded	450MM
6	Max. Thickness Of Coil Can Be Loaded	5MM
7	Motor Capacity	90 H.P.

Construction:

- * Fully Rigid Fabricated Body.
- * Driven Through Helical Gears Head.
- * Integrated Gearing & Drive In One Housing.
- * Over Arm Separator To Align Rewound Strips.
- * Pusher Plate To Eject Rewound Coil.
- * Mandrel Collapse 10MM For Easy Ejection Of Coils.
- * Gripper Plate In Mandrel To Grip Initial Coil End.
- * Over Arm, Pusher Plate, Mandrel Expansion, Gripper Plate Are Actuated By Hydraulics.
- * **RECOILER OUTPUT SHAFT SHALL HAVE PROVISION FOR FLANGE TYPE AND MANDREL TYPE BOTH DRUM MOUNTING PROVISION**



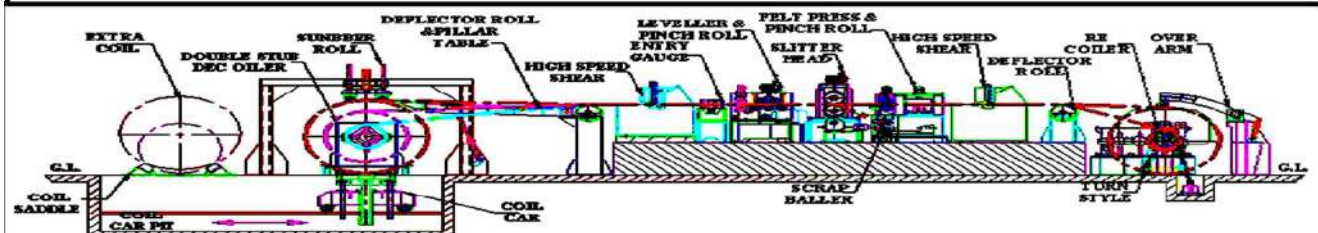
TurnStyle



Qtn.: OnePc/s.

Application:

TurnTableAcceptsSlittedCoils(Output)InItsArmWhichCanBeRotate360Degree.



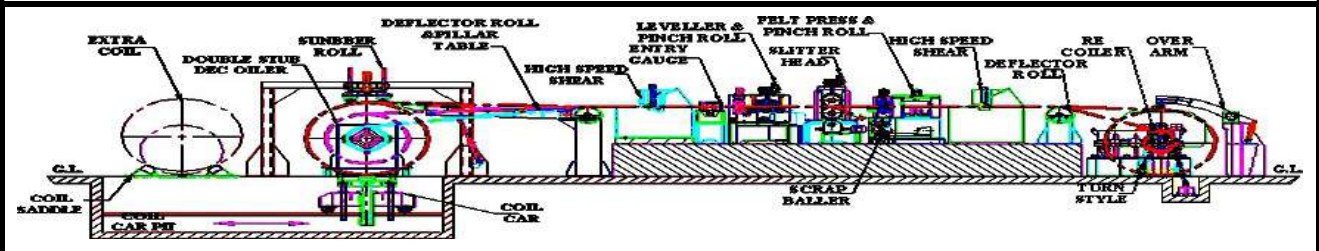
Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max.WidthOf CoilCanBeLoaded	600MM
2	Max.WeightOf Coil	4000Kg.
3	No.OfArms	2

Construction:

- * FabricatedHeavyStructure.
- * ArmsRotateOnAntiFrictionBearing.
- * OverRunningBreakIsProvided.
- * ArmsDesignedToInsertSlingOrHookToUnloadCoils.
- * EachArmDesignedToTakeFullCoilLoad.



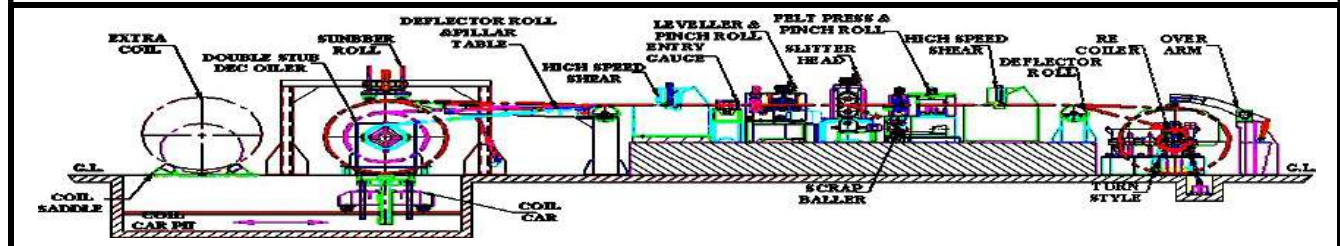
Hydraulic Powerpack



Qtn.: One Pc/s.

Application:

To Supply Pressurized Fluid To All Hydraulic Actuators At Desired Pressure And Quantity.



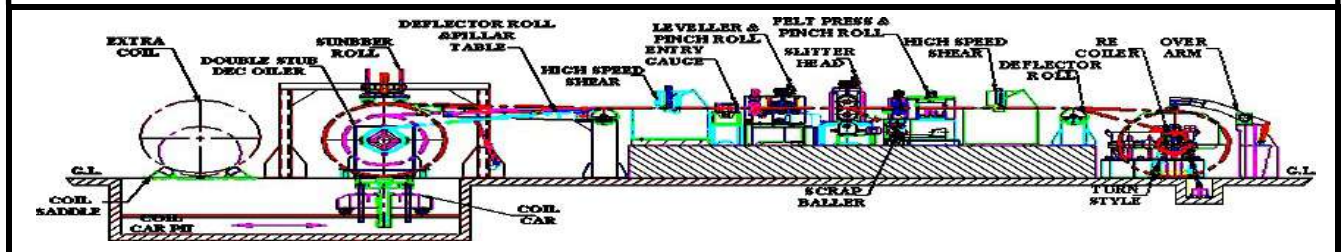
Technical Specification & Construction

Technical Specification:

S/No.	Standard Specification	General
1	Max.Delivery	8G.P.M.
2	Max.Pressure	1500PSI(100Kg./Cm ²)
3	MotorCapacity	10H.P.
4	Tank Capacity	250Liters

Construction:

- * SelfContentedFabricatedUnit.
- * OilTank WithPartition,LevelIndicator&FillerBreather.
- * Pump,Motor,ControlsMountedOnTopForEasySetting&Accessibility.
- * ForEaseInOperationSomeValvesAreMountedOnIndividualMachine.
- * LowNoiseDevice.
- * HeatExchangerIsProvidedAsOptionForContinuousDutyCycle.
- * LayoutPipingIsNotIncludedInDMPLScopeOfSupply.



Control Panel



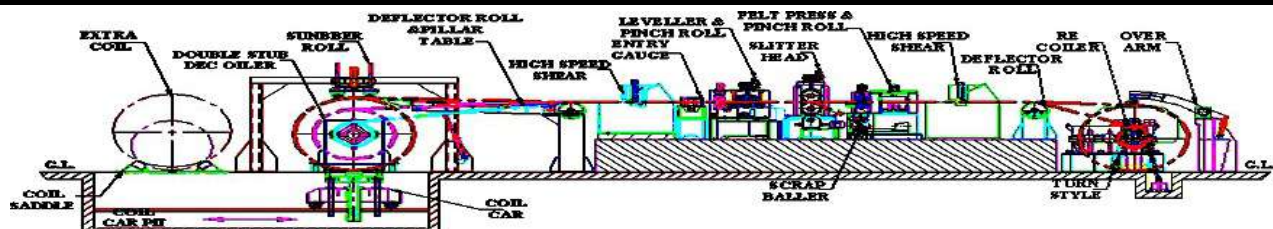
Qtn.: OnePc/s.

Application:

ForElectricalControllingOfLineEquipments.

Construction:

- * FabricatedSheetMetalEnclosure.
- * Pre-Treated,PowderCoatedEnclosureWithStandardProtections.
- * EasyAccessiblyMountingOfComponents.
- * FrontPanelWithOperatorInterface,PushButtonPanel,Meters&Indicators.
- * IncaseOf CNCOrPLC,EquipmentsAreIncorporatedUnitsAreReadyWiredToBeConnectedWithLine CVT OrUPSO of Customer.
- * AllCNCOrPLCAreWithRS-232PortOrPCConnectivity.(SoftwaresNotIncluded)
- * ForEaseOfOperationOperatorPendentCanBePlacedAtDifferenceDesiredPlaceOnLine.(ToBe ConfirmedByDMPL)
- * Layout(Trench)CablesWiresAreNotInDMPLScopeOfSupply,AndAreToBeArrangedByCustomer.
- * MainsWith3Phase4WireNecessaryProtectionsToBeArrangedByCustomerNearMainPanelConsole.
- * ItemsShownInPhotoOrDrawingMayNotBePartOfDMPLScopeOfSupply.PI.ConsultDMPLForExactScope.



Additional Remarks: -

- 1) The line offered will work from 3.5 mm to 5 mm in pull through mode and from 3.5 to .5 mm in loop pit mode
- 2) The disengagement of slit head in pull through mode will be done electrically through PLC and selection mode at control desk to be provided
- 3) Adaptor will be provided on turnstiles to accommodate Min dia drum of 150 mm
- 4) The uncoiler proposed is fixed type , suitable roller type width guide to be provided
- 5) At slit head provision for the use of wooden finger to be provided
- 6) The recoiler shaft will be interchangeable with foil slit
- 7) You will provide manufacturing drawing of the recoiler shaft

