



Features :

- Remove Tube Without any damage to the tube sheet.
- Low setup time and ease to operate.
- Low maintenance cost.
- Time and money saver.
- Interchangeable Pulling Guns with same Power pack, 15 T gun is Light duty with high Speed, 30 Ton gun for heavy Duty Tube Pulling & 45 T gun upto 3" Tube OD.

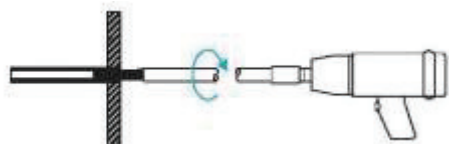
TUBE PULLING POWERPACK SPECIFICATION

| | |
|----------------------------|--|
| Input | 3 Phase 415 +/- 10%V |
| Power | 3.7 K.W., 5h.P. |
| Max Working Pressure (Bar) | 350 |
| Weight Without Oil | 220 Kg. |
| Control | 24 Volt DC |
| Hydraulic Hose | 3/4" I.D.(Forward), 1/2" I.D.(Reverse) 5m Long |
| Dimension (Mm).(L X W X H) | 1020 X 680 X 960 |

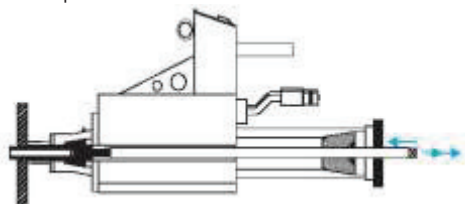


| Pulling Gun Model | Pulling Capacity (Ton) | Max Tube OD Through Gun (Inch) | Stub Pulling Capacity (Inch) | Weight Kgs(lbs) | Free Pulling Speed (Mtrs/Min) With Tpp-50 |
|-------------------|------------------------|--------------------------------|------------------------------|-----------------|---|
| PTPG- 15 | 15 | 1 | 1.1/2 | 26.0 (57) | 5.0 |
| PTPG -30 | 30 | 1.1/2 | 3 | 38.0 (84) | 3.0 |
| PTPG-45 | 45 | 3 | 4 | 78.0 (172) | 2.0 |

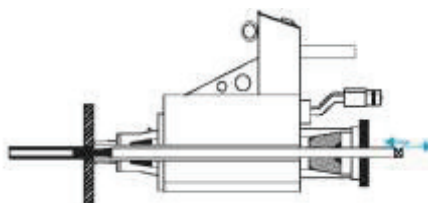
SEQUENCE OF OPERATION



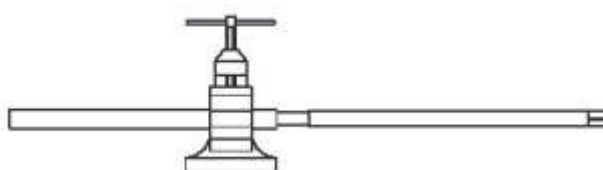
1. Threaded Mandrel insert in the tube with Impact Wrench



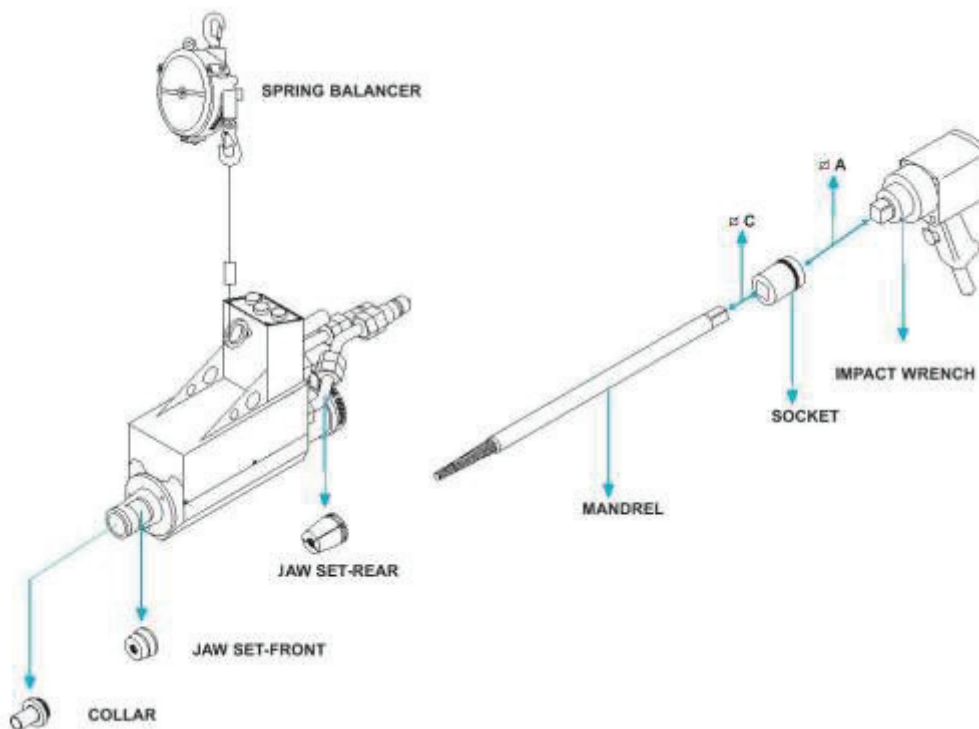
3. Switch to auto cycle to complete removal of tube



2. Mount pulling gun on to Mandrel Automatic Slow Start.



4. Remove Mandrel from Tube.



SPRING BALANCER

- Used to Suspend Pulling Guns.

| Model | Balancer Range In Kgs | Pulling Gun |
|----------|--------------------------|-------------|
| PSB – 30 | 22 – 30 | PTPG – 15 |
| PSB – 40 | 30 – 40 | PTPG – 30 |
| PSB – 85 | 70 – 85 | PTPG – 45 |

IMPACT WRENCH

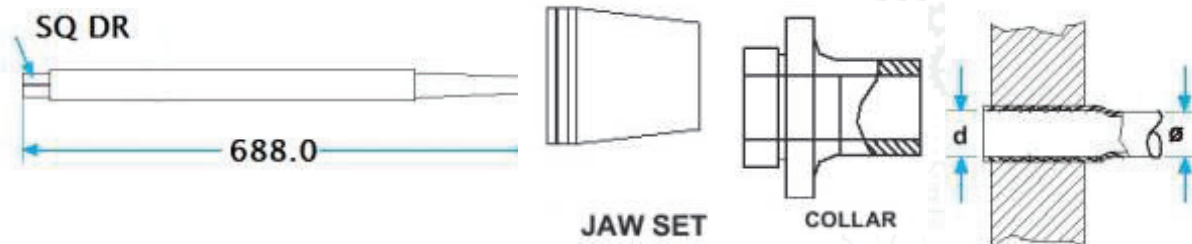
- Used to Push Threaded Mandrels into the tube with the help of socket.

| MODEL | THREADED MANDREL MODEL | WEIGHT IN KGS |
|------------|------------------------|---------------|
| PPIW - 204 | PPM – 7 to PPM – 37 | 5.0 |
| PPIW - 263 | PPM – 19 to PPM – 102 | 10.0 |

SOCKET

- Used Connect Impact Wrench With Threaded Mandrel

| MODEL | DRIVE SOCKET HEAD | MANDREL END DRIVE |
|--------|-------------------|-------------------|
| PS -1 | 3/4" | 3/8" |
| PS - 2 | 3/4" | 1/2" |
| PS - 3 | 3/4" | 5/8" |
| PS - 4 | 3/4" | 3/4" |
| PS - 5 | 3/4" | 1" |
| PS - 6 | 1" | 3/4" |
| PS - 7 | 1" | 1" |
| PS - 8 | 1" | 1.1/2" |



| TUBE SIZE | | TUBE ID AFTER EXPANSION | | PULLING MANDREL | | JAW SET | | | COLLAR | | |
|-----------|-------|-------------------------|---------------|-----------------|----------|--------------|-------------|-------------|--------------|--------------|--------------|
| | | | | MODEL | SQ. SIZE | FOR PTPG- 15 | FOR PTPG-15 | FOR PTPG-15 | FOR PTPG- 15 | FOR PTPG- 15 | FOR PTPG- 15 |
| DIA | BWG | mm | inch | PPM | SQ DR | PPJ – 15 | PPJ – 30 | PPJ – 45 | PPC – 15 | PPC – 30 | PPC – 45 |
| 3/8" | 17-19 | 6.5 – 7.5 | 0.260 – 0.295 | 7 | 5/16" | 1 | 1 | -- | 11 | 11 | -- |
| | 20-24 | 7.5 – 8.5 | 0.295 - 0.335 | 8 | | | | | | | |
| 1/2" | 14-16 | 8.5 – 9.5 | 0.335 – 0.375 | 9 | 3/8" | 2 | 2 | | 15 | 15 | |
| | 17-18 | 9.5 - 10.5 | 0.375 – 0.415 | 10 | | | | | | | |
| | 19-21 | 10.5 -11.5 | 0.415 – 0.455 | 11 | | | | | | | |
| | 24 | 11.5 – 12.5 | 0.455 – 0.495 | 12 | | | | | | | |
| 5/8" | 16-17 | 12.5 – 13.5 | 0.495 – 0.535 | 13A | 1/2" | 3 | 3 | | 18 | 18 | |
| | 19-21 | 13.5 – 14.5 | 0.535 – 0.570 | 14A | | | | | | | |
| | 23-24 | 14.5 – 15.5 | 0.570 – 0.610 | 15A | | | | | | | |
| 3/4" | 11 | 12.5 – 13.5 | 0.495 – 0.535 | 13 | 5/8" | 4 | 4 | | 21 | 21 | |
| | 12-13 | 13.5 – 14.5 | 0.535 – 0.570 | 14 | | | | | | | |
| | 14-15 | 14.5 – 15.5 | 0.570 – 0.610 | 15 | | | | | | | |
| | 16-17 | 15.5 – 16.5 | 0.610 – 0.650 | 16 | | | | | | | |
| | 18-20 | 16.5 – 17.5 | 0.650 – 0.690 | 17 | | | | | | | |
| | 21-24 | 17.5 – 18.5 | 0.690 – 0.730 | 18 | | | | | | | |
| 7/8" | 14 | 17.5 – 18.5 | 0.690 – 0.730 | 18 S | 5/8" | 4/A | 4/A | | 25 | 25 | |
| | 16-17 | 18.5 – 19.5 | 0.730 – 0.770 | 19 S | | | | | | | |
| | 18-19 | 19.5 – 20.5 | 0.770 – 0.810 | 20 S | | | | | | | |
| 1" | 10-11 | 18.5 – 19.5 | 0.730 – 0.770 | 19 | 3/4" | 5 | 5 | 5 | 28 | 28 | |
| | 12 | 19.5 – 20.5 | 0.770 – 0.810 | 20 | | | | | | | |
| | 13-14 | 20.5 – 21.5 | 0.810 – 0.845 | 21 | | | | | | | |
| | 15-16 | 21.5 – 22.5 | 0.845 – 0.885 | 22 | | | | | | | |
| | 18 | 23.5 – 24.5 | 0.885 – 0.925 | 23 | | | | | | | |
| | 19-20 | 23.5 – 24.5 | 0.925 – 0.965 | 24 | | | | | | | |
| 1.1/4" | 10 | 24.5 – 25.5 | 0.965 – 1.105 | 25 | 1" | -- | 7 | 7 | -- | 34 | 34 |
| | 11-12 | 25.5 – 26.5 | 1.105 – 1.045 | 26 | | | | | | | |
| | 13 | 26.5 – 27.5 | 1.045 – 1.085 | 27 | | | | | | | |
| | 14-15 | 27.5 – 28.5 | 1.085 – 1.125 | 28 | | | | | | | |
| | 16-18 | 28.5 -29.5 | 1.125 – 1.160 | 29 | | | | | | | |
| | 19-22 | 29.5 – 30.5 | 1.160 – 1.200 | 30 | | | | | | | |
| 1.1/2" | 23-24 | 30.5 – 31.5 | 1.200 – 1.240 | 31 | | 9 | 9 | 9 | -- | 41 | 41 |
| | 10-11 | 31.5 – 32.5 | 1.240 – 1.280 | 32 | | | | | | | |
| | 12-13 | 32.5 – 33.5 | 1.280 – 1.320 | 33 | | | | | | | |
| | 14 | 33.5 – 34.5 | 1.320 – 1.360 | 34 | | | | | | | |
| | 15-17 | 34.5 – 35.5 | 1.360 – 1.400 | 35 | | | | | | | |
| | 18-20 | 35.5 – 36.5 | 1.400 – 1.440 | 36 | | | | | | | |
| 1.3/4" | 21-24 | 36.5 – 37.5 | 1.440 – 1.475 | 37 | | -- | 11 | 11 | -- | -- | 48 |
| | 10-11 | 37.5 – 38.5 | 1.475 – 1.515 | 38/44 | | | | | | | |
| | 12 | 38.5 – 39.5 | 1.515 – 1.555 | 39/44 | | | | | | | |
| | 13-14 | 39.5 – 40.5 | 1.555 – 1.595 | 40/44 | | | | | | | |
| | 15-16 | 40.5 – 41.5 | 1.595 – 1.635 | 41/44 | | | | | | | |
| | 18-19 | 41.5 – 42.5 | 1.635 – 1.675 | 42/44 | | | | | | | |
| 2" | 20-24 | 42.5 – 43.5 | 1.675 – 1.715 | 43/44 | | 13 | 13 | 13 | -- | -- | 54 |
| | 10 | 43.5 – 44.5 | 1.715 – 1.775 | 44/51 | | | | | | | |
| | 11-12 | 44.5 – 45.5 | 1.775 – 1.795 | 45/51 | | | | | | | |
| | 13 | 45.5 – 46.5 | 1.795 – 1.835 | 46/51 | | | | | | | |
| | 14-15 | 46.5 – 47.5 | 1.835 – 1.870 | 47/51 | | | | | | | |
| | 16-18 | 47.5 - 48 .5 | 1.870 – 1.910 | 48/51 | | | | | | | |
| | 19-22 | 48.5 – 49.5 | 1.910 – 1.950 | 49/51 | | | | | | | |